

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS



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1. STRUCTURA - STRUCTURE
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1.1. SUPRASTRUCTURA / SUPERSTRUCTURE		
Codul normei Norm Code	RD0001	Demolare elementelor din beton simplu/armat cu mijloace manuale/mecanice
Unitate de masura Measuring Unit	m³	Demolition of plain/reinforced concrete elements by manual/mechanical means
Descriere Description:	<ul style="list-style-type: none"> – Protejarea zonelor adiacente demolărilor prin sprijiniri locale, închideri de protecție cu folii, prelate etc. – demolarea planseelor, peretilor, stalpilor, grinzilor etc cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – incarcarea si transportul cu roaba sau alt mijloc la depozitul intermediar; – curatarea locului de munca; – transportul auto al molozului la groapa si descarcarea lui in depozit; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – protection of permanent works by propping, strutting and protective shields (plastic foils, tarpaulin etc.) – demolition of the slabs, walls, columns, beams etc by manual or mechanical means, according to the adopted technology; – watering of debris; – loading and transport with wheelbarrow or other means to the intermediary deposit; – cleaning of the site; – vehicle transport of rubbish to the authorized dumping area, discharge into the deposit; – checking the works execution. 	

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Codul Normei Norm Code	RD0001a	Desfacere rampa din beton simplu/armat
Unitate de masura Measuring Unit	m³	Removal of plain/reinforced concrete ramp
Descriere Description:	<ul style="list-style-type: none"> – spargere rampa de beton cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala; – incarcarea si transportul auto al molozului la locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – demolishing of the concrete ramp, manually or mechanically, according to adopted technology; – watering the rubbish; – cleaning the work site; – horizontal transport and handling of the resulting rubbish; – loading and vehicle transport of the rubbish to the authorized dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0002	Tencuieli speciale la diafragme de consolidare, executate cu mortar M100T si armate cu plasa STNB/bare independente
Unitate de masura Measuring Unit	m²	Special plasters for structural walls consolidation, executed with cement mortar type M100T and reinforced with STNB type mesh/reinforcement bars
Descriere Description:	<ul style="list-style-type: none"> – aprovizionarea/stocarea la locul de munca cu toate materialele necesare; – procurarea, montarea și utilizarea schelelor sau a platformelor de lucru ; – desfacere/decopertare tencuială existentă; – pregătirea stratului suport prin curățare de impuritati si aderente, degajare/curățare rosturi, prin frecare cu perii de sârmă, suflare cu aer comprimat, spălare cu jet de apă; – trasarea tencuielii armate; – armarea diafragmelor cu plase STNB sau bare independente, conform detaliilor si prescriptiilor proiectului tehnic; – aplicarea mecanizată a tencuielii și/sau conform caietelor de sarcini și/sau proiectului tehnic; – aplicarea stratului final de tencuiala si a gletului de ipsos. – protejarea tencuielilor aplicate pentru a se asigura un proces de întărire corespunzător; – indepartarea surplusului de materiale rezultat dupa executia tencuielii; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – demontarea schelelor și stocarea lor în șantier; – incarcarea si transportul auto al molozului la locul autorizat; – verificarea executiei lucrarilor și efectuare testelor necesare. 	
	<ul style="list-style-type: none"> – supply and store the necessary materials on the work site; – provision, mounting and maintaining of the scaffold or work platform; – removing existing plaster – preparation/cleaning of the support layer of uncleanness, pointing up brickwork; cleaning with metallic brush, air jet cleaning, water jet cleaning; – pegging reinforced rendering layer; – reinforcement installing STNB type mesh or tied reinforcement bars, application of the plaster by mechanical means and/or according to the Technical Specs and/or Detailed Design; – application of the finishing plaster coat . – curing of the mortar; – removal of the excess materials resulting after the plastering execution; – vertical and horizontal transport and handling of the resulting rubbish ; – dismantling of scaffold and storage on site; – loading and vehicle transport of rubbish to authorized authorized dumping area; – testing of samples and checking the works execution. 	

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Codul normei Norm Code	RD0003	Montarea armaturilor din plase sudate in pereti diafragme
Unitate de masura Measuring Unit	kg	Mounting the reinforcement of welded mesh in structural walls
Descriere Description:	<ul style="list-style-type: none"> – aprovizionarea cu tipul de plase sudate, distanțieri și accesorii de fixare conform.caietelor de sarcini și/sau proiectului tehnic; – debitarea la dimensiunile din proiect; – procurare, montare și utilizare schele sau platforme de lucru; – fixarea pe pozitie a plaselor sudate; – indepartarea materialelor rezultate ca deseuri; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – demontare schele și stocare în șantier – incarcarea si transportul auto al molozului la locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply welded mesh type, spacers and fixing accessories, as specified in the Technical Specifications and Detailed Design; – cutting welded mesh to dimensions specified in the Detailed Design; – provision, mounting and maintaining of scaffold or work platform; – setting in final position of the welded mesh; – removal of the resulting excess materials ; – vertical and horizontal transport and handling of the resulting rubbish ; – dismantling of scaffolding and storage on site; – loading and vehicle transport of the rubbish to the authorized dumping area; – checking the works execution. 	
Codul normei Norm Code	RD0004	Demolarea planseelor din lemn si elementelor componente
Unitate de masura Measuring Unit	m²	Demolition of the wooden floors and of the component elements
Descriere Description:	<ul style="list-style-type: none"> – procurare, montare și instalare schele sau platforme de lucru – spargerea capetelor de ziduri pentru demontarea grinzilor de planseu; – desfacerea podelelor si a sipcilor; demontarea grinzilor de planseu; – stivuirea materialului lemons si udarea molozului; – evacuarea molozului de pe nivel prin tobogane sau alte mijloace; – incarcarea si transportul cu roaba sau alt mijloc la depozitul intermediar; – demontare și stocare schele sau platforme de lucru – curatarea locului de munca; – transportul auto al molozului la groapa si descarcarea lui in depozit; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – provision, mounting and maintaining of the scaffolding/work platform; – demolition of masonry at the support for removal of the timber joists; – floor layers and cleats detachment; dismantling of the supporting timber joists; – stocking the wooden material and watering of the rubbish; – evacuation of the rubbish through exhaust toboggan; – loading and transport with wheelbarrow or other means to the intermediary deposit; – dismantling of work platform and storage on site; – cleaning the work site; – vehicle transport of the rubbish to the authorized dumping area; – checking of the works execution. 		
Codul normei Norm Code	RD0005	Cofraje pentru beton in placi si grinzi, executate cu panouri refolosibile
Unitate de masura Measuring Unit	m²	Concrete formwork for slabs and beams, executed with reusable panels
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea cofrajelor necesare exeuctarii lucrarii; – procurarea popilor si a grinzilor metalice necesare executarii sprijinirii cofrajelor; – aducerea cofrajelor, a popilor si grinzilor metalice la locul de punere in opera cu mijloace mecanice/manuale; – trasarea pozitiei cofrajelor, conform proiectului; – punerea cofrajelor pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – executarea sprijinirii cofrajelor cu popi si grinzi metalice; – verificarea executiei lucrarilor; – decofrare si curatare. <hr/> <ul style="list-style-type: none"> – formwork supply for the work execution; – provide metallic props and beams for formwork execution; – transport of the formwork, metallic props and beams with mechanical/manual means to the place of installation; – formwork pegging, according to the project; – formwork clamping, fixing with crossties, setting in position, to the distances and in the positions indicated in the Detailed Structural Design; – formwork propping execution with vertical posts and metallic beams; – checking the works execution; – formwork removing and cleaning. 		

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Codul normei Norm Code	RD0006	Beton armat turnat in suprastructura: pereti, diafragme, stalpi a) clasa C16/20 b) clasa C12/15
Unitate de masura Measuring Unit	m³	Reinforced concrete in the superstructure: walls, structural walls, columns a) class C16/20 b) class C12/15
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificate in proiectul tehnic, caietele de sarcini si transportul cu mijloace adecvate; – procurare, montare și utilizare schele/platforme de lucru. – verificarea armarilor existente in cofraj; – turnarea betonului, aducerea lui la locul de punere in opera cu macaraua/pompa de beton; – asigurarea conditiilor normale de intarire prin protectii si/sau udare; – demontare și stocare schele/platforme de lucru – verificarea executiei lucrarilor, efectuarea testelor necesare <hr/> <ul style="list-style-type: none"> – supply concrete of the class and in the quantities as specified in the Detailed Structural Design, the Technical Specifications ; transport by adequate means; – provision, mounting and maintaining of scaffold or work platform; – reinforcement bars checking before pouring the concrete; – concreting and concrete transport with crane/concrete pump in place,; – watering/cover protection of the concrete to ensure a normal strengthening; – dismantling of the scaffold and storage on site; – checking the works execution and testing of samples. 		

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Codul normei Norm Code	RD0007	Beton armat clasa C16/20 turnat in suprastructura: placi, grinzi
Unitate de masura Measuring Unit	m³	Reinforced concrete class C16/20 in superstructure: slabs, beams
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificat in proiectul tehnic, caietul de sarcini , inclusiv transportul; verificarea armarilor existente in cofraj; – turnarea betonului, aducerea lui la locul de punere in opera cu macaraua sau pompa; – asigurarea conditiilor normale de intarire prin protectii sau udare; – verificarea executiei lucrarilor, efectuarea testelor necesare. <hr/> <ul style="list-style-type: none"> – supply concrete of class and in quantities, as specified in the Detailed Structural Design and the Technical Specifications , including transport; – reinforcements bars checking before pouring the concrete; – concreting and concrete transport with crane/concrete pump to the pouring place; – watering/cover protecting of the concrete to ensure a normal strengthening; – checking the works execution and testing of samples. 	
Codul normei Norm Code	RD0008	Cofraje pentru beton pentru suprastructura, pereti, diafragme si stalpi, executate cu panouri refolosibile
Unitate de masura Measuring Unit	m²	Formwork for superstructure: walls, structural walls and columns, executed with reusable formwork panels
Descriere Description:	<ul style="list-style-type: none"> – procurarea/stocarea cofrajelor necesare executarii lucrarii; – aducerea cofrajelor la locul de punere in opera cu mijloace mecanice/manuale; – trasarea pozitiei cofrajelor, conform proiectului; – punerea cofrajelor pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – verificarea executiei lucrarilor – Decofrare si curatare. <hr/> <ul style="list-style-type: none"> – formwork supply for the work execution and storage on site; – formwork transport with mechanical/manual means to the place of installing; – pegging formwork, according to the project; – formwork clamping, fixing with crossties, setting in position, to the distances and on the positions indicated in the Detailed Structural Design; – checking the works execution; – formwork removing and cleaning. 	

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Codul normei Norm Code	RD0009	Cofraje pentru suprastructura: plansee si grinzi, podeste si rampe executate cu panouri refolosibile
Unitate de masura Measuring Unit	m²	Formwork for superstructure: slabs and beams, platforms and ramps executed with reusable formwork panels
Descriere Description:	<ul style="list-style-type: none"> – procurarea/stocarea cofrajelor necesare exeuctarii lucrarii; – procurarea popilor si a grinzilor metalice necesare executarii sprijinirii cofrajelor; – aducerea cofrajelor, a popilor si grinzilor metalice la locul de punere in opera cu mijloace mecanice/manuale; – trasarea pozitiei cofrajelor, conform proiectului; – punerea cofrajelor pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – executarea sprijinirii cofrajelor cu popi si grinzi metalice; – verificarea executiei lucrarilor – decofrare si curatare. 	
	<ul style="list-style-type: none"> – formwork supply for the work execution and storage on site; – supply of metallic props and beams for formwork execution; – transport of formwork, metallic props and beams with mechanical/manual means to the place of installing; – formwork pegging, according to the project; – formwork clamping, fixing with crossties, setting in position, to the distances and on the positions indicated in the Detailed Structural Design; – formworks propping execution with vertical posts and metallic beams; – checking the works execution; – formwork removing and cleaning. 	
Codul normei Norm Code	RD0010	Armaturi din otel beton OB37 montate in suprastructura
Unitate de masura Measuring Unit	kg	OB37 type reinforcement bars mounted in the superstructure
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din OB37 in gama de tipo-dimensiuni specificata in detaliile de armare, inclusiv distanțieri din plastic, transport/stocare; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – inadirea prin sudura, unde este cazul, conform proiectului tehnic; – curățarea, indepartarea materialelor in exces și transportul la locul autorizat; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply OB37 type reinforcement bars , according to the reinforcement lists (bending schedules), including plastic spacers, transport and storage on site; – reinforcement bars transport with mechanical/manual means to place of installing; – cutting and bending of the reinforcement bars to the dimensions specified in the Detailed Design; – installing of the reinforcement and support, according to the details and reinforcement plans; – joining by welding, in special cases, according to the Detailed Structural Design; – cleaning of work site and removal of excess materials and transport to the authorised dumping area; – checking the works execution. 		
Codul normei Norm Code	RD0011	Armaturi din otel beton PC52 montate in suprastructura
Unitate de masura Measuring Unit	kg	PC52 type reinforcement bars mounted in superstructure
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din PC52 in gama de tipo-dimensiuni specificata in detaliile de armare, inclusiv distanțieri din plastic, transport si stocarea; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – inadirea prin sudura, unde este cazul, conform proiectului tehnic; – curățarea, indepartarea materialelor in exces și transportul la locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply PC52 type reinforcement bars , according to the lists of reinforcement (bending schedules), including plastic spacers, transport and storage on site; – reinforcement transport with mechanical/manual means to the place of installing; – cutting and bending of the reinforcement bars to the dimensions specified in the Detailed Design; – installing of the reinforcement and support, according to the details and reinforcement plans; – joining by welding, in special cases, according to the Detailed Structural Design; – cleaning of work site and removal of excess materials and transport to the authorised dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0012	Armaturi din plase sudate montate in structura
Unitate de masura Measuring Unit	kg	Welded mesh reinforcements mounted in structure
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din plase sudate in gama de tipo-dimensiunile specificate in detaliile de armare, inclusiv distanțieri din plastic și transport /stocare în șantier; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – înădirea, conform proiectului tehnic; – curățarea, indepartarea materialelor in exces și transportul la locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – welded mesh supply according bill of reinforcement, including plastic spacers, transport and storage on site; – reinforcement transport with mechanical/manual means to the place of installing; – cutting and bending of the reinforcements to the dimensions specified in the Detailed Structural Design; – installing the reinforcement and support, according to the details and reinforcement plans; – cleaning of work site and removal of excess materials; – checking the works execution. 	
Codul normei Norm Code	RD0013	Confecții metalice (plăcuțe, ancore, suporturi etc.) inglobate in beton
Unitate de masura Measuring Unit	kg	Steel elements (anchors, rails, metal collars etc.) embedded in concrete
Descriere Description:	<ul style="list-style-type: none"> – procurarea confecțiilor metalice in gama de tipo-dimensiuni specificata in extrasele proiectului tehnic, inclusiv transport și stocare în șantier; – aducerea confecțiilor metalice la locul de punere in opera cu mijloace mecanice/manuale ; – fixarea confecției metalice cu ajutorul sudurii sau a altei metode de fixare, conform detaliilor si a planurilor proiectului tehnic; – curățarea locului de muncă, indepartarea materialelor in exces și transport la locul autorizat; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply of metallic elements , according to mentioned type and lists of reinforcement of the Detailed Structural Design, including transport and storage on site; – metallic elements transport with mechanical/manual means to the place of installing; – welding and fixing of the metallic elements, according to the Detailed Structural Design details and plans; – cleaning of the work site and removal of excess materials to the authorised dumping area; – checking the works execution. 		
Codul normei Norm Code	RD0014	Cofraje rama din tabla neagra pentru creare de goluri
Unitate de masura Measuring Unit	m²	Formwork framing for reservations/openings made of sheet metal
Descriere Description:	<ul style="list-style-type: none"> – procurarea cofrajelor necesare exeuctarii lucrarii și stocare în șantier; – aducerea cofrajelor la locul de punere in opera cu mijloace mecanice/manuale; – trasarea pozitiei cofrajelor pentru goluri, conform proiectului; – punerea cofrajelor pentru goluri pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – executarea sprijinirii cofrajelor; – verificarea executiei lucrarilor; – Decofrare si curatare. 	
	<ul style="list-style-type: none"> – supply of formwork for the works execution and storage on site; – formwork transport with mechanical/manual means to place of work; – formwork setting, according to the project; – formwork clamping, fixing with crossties, setting in position, to the distances and on the positions indicated in the Detailed Structural Design; – formworks propping execution; – checking the works execution; – formwork removing and cleaning. 	

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Codul normei Norm Code	RD0015	Confecții metalice – stalpi metalici
Unitate de masura Measuring Unit	kg	Metallic elements – metallic columns
Descriere Description:	<ul style="list-style-type: none"> – procurarea stălpilor metalici de dimensiuni specificate în detaliile și extrasele ale proiectului tehnic, inclusiv transport/stocare în șantier; – aducerea confecțiilor metalice la locul de punere în opera cu mijloace mecanice/manuale; – procurare, montare schelelor sau a altor dispozitive necesare executării montajului și stocarea în șantier; – lucrări de ajustări necesare în vederea montajului, efectuate în șantier; – asamblarea tronsoanelor componente; – ridicarea, centrarea și montarea pe amplasament a elementelor metalice; – montarea și fixarea confecțiilor metalice, inclusiv a găurilor de fixare în elementele structurale; – executarea vopsitoriei anticorozive și celei rezistente la foc conform caietelor de sarcini; – demontarea/stocarea schelelor sau a altor dispozitive; – îndepărtarea materialelor în exces și transportul la locul autorizat; – verificarea execuției lucrărilor. 	
	<ul style="list-style-type: none"> – metallic columns/poles supply according to the Detailed Design dimensions and details, including transport and storage on site; – metallic elements transport with crane to the place of installing; – provision and mounting of scaffold for works execution – on-site adjustment works necessary for assembling; – sections mounting; – setting out the metallic elements; – metallic elements mounting and fixing, including boreholes for fixing to the structural parts; – fire protection and anticorrosive paint protection layer as per Technical Specifications; – dismantling of scaffold or other installation aids and storage on site; – removal of excess materials and transport to the authorised dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0016	Confecții metalice – grinzi metalice
Unitate de masura Measuring Unit	kg	Metallic elements – metallic beams
Descriere Description:	<ul style="list-style-type: none"> – procurarea grinzilor metalice de dimensiuni specificate în detaliile și extrasele ale proiectului tehnic, inclusiv transport/stocare în șantier; – aducerea confecțiilor metalice la locul de punere în opera cu mijloace mecanice/manuale ; – montarea schelelor sau a altor dispozitive necesare executării montajului; – lucrări de ajustări necesare în vederea montajului, efectuate în șantier; – asamblarea tronsoanelor componente; – ridicarea, centrarea și montarea pe amplasament a elementelor metalice; – montarea și fixarea confecțiilor metalice, inclusive a gaurilor de fixare în elementele structurale; – executarea vopsitoriei anticorozive și celei rezistentă la foc.conform caietelor de sarcini.; – demontarea schelelor sau a altor dispozitive ajutătoare pentru montaj și stocare în șantier; – îndepărtarea materialelor în exces și transportul la locul autorizat; – verificarea execuției lucrărilor. <hr/> <ul style="list-style-type: none"> – metallic beams supply according to the Detailed Structural Design dimensions and details, including transport; – metallic elements transport with mechanical/manual means to the place of installation; – scaffolds setting in order to execute the mounting; – on-site adjustment works necessary for assembling; – sections assembling; – setting out the metallic elements; – metallic elements mounting and fixing, including holes for fixing the structural units; – fire protection and anticorrosive paint protection layer as per Technical Specifications; – dismantling of scaffold or other installation aids and storage on site; – removal of excess materials to the authorised dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0017	Confecții metalice – pane metalice
Unitate de masura Measuring Unit	kg	Metallic elements – metallic purlins
Descriere Description:	<ul style="list-style-type: none"> – procurare pane metalice de dimensiuni specificate in detaliile si extrasele proiectului ethnic, inclusiv transport/stocare în șantier; – aducerea confecțiilor metalice la locul de punere in opera cu mijloace mecanice/manuale; – montarea schelelor sau a altor dispozitive necesare executarii montajului; – lucrari de ajustari necesare in vederea montajului, efectuate în șantier; – asamblarea tronsoanelor componente; – ridicarea, centrarea si montarea pe amplasament a elementelor metalice; – montarea si fixarea confecțiilor metalice, inclusiv a gaurilor de fixare in elementele structurale; – executarea vopsitoriei anticorozive si celei rezistente la foc.conform caietelor de sarcini.; – demontarea schelelor sau a altor dispozitive și stocare în șantier; – indepartarea materialelor in exces și transportul la locul autorizat; – verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> – metallic purlin supply according to the Detailed Structural Design dimensions and details, including transport and storage on site; – metallic purlin transport with mechanical/manual means to the place of installation; – scaffold setting in order to execute the assembling; – on-site adjustment works necessary for assembling; – sections assembling; – setting out the metallic elements; – metallic elements mounting and fixing, including boreholes for fixing the structural units; – fire protection and anticorrosive painting protection as per Technical Specifications; – dismantling of scaffold or other installation aids and storage on site; – removal of excess materials and transport to the authorised dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0018	Confecții metalice – ferme metalice
Unitate de masura Measuring Unit	kg	Metallic elements – metallic trusses
Descriere Description:	<ul style="list-style-type: none"> – procurarea fermelor metalice de dimensiuni specificate în detaliile și extrasele proiectului tehnic, inclusiv transport/stocare în șantier; – aducerea confecțiilor metalice la locul de punere în opera cu mijloace mecanice/manuale; – montarea schelelor sau a altor dispozitive necesare executării montajului; – lucrări de ajustări necesare în vederea montajului; – asamblarea tronsoanelor componente; – ridicarea, centrarea și montarea pe amplasament a elementelor metalice; – montarea și fixarea confecțiilor metalice, inclusive a gaurilor de fixare în elementele structurale; – executarea vopsitoriei anticorozive și celei rezistentă la foc conform caiete de sarcini; – demontarea schelelor sau a altor dispozitive și stocare în șantier; – îndepărtarea materialelor în exces și transportul la locul autorizat; – verificarea execuției lucrărilor. 	
	<ul style="list-style-type: none"> – metallic trusses supply according to the Detailed Structural Design dimensions and details, including transport and storage on site; – metallic trusses transport with mechanical/manual means to the place of installing; – scaffold setting in order to execute the assembling; – on-site adjustment works necessary for assembling; – sections assembling; – setting out the metallic elements; – metallic elements mounting and fixing, including boreholes for fixing to the structural units; – fire protection and anticorrosive painting protection as per Technical Specifications; – dismantling of scaffold or other installation aids and storage on site; – removal of excess materials and transport to the authorised dumping area; – checking the works execution. 	

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Codul normei Norm Code	RD0019	Mortar epoxidic pentru pozarea confectiilor metalice
Unitate de masura Measuring Unit	kg	Epoxy mortar for setting of metallic elements
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare si transportul lor pe orizontala si verticala la locul de punere in opera; – prepararea manuala a mortarului epoxidic; – curatirea si pregatirea startului support de aplicare a mortarului epoxidic; – turnarea mortarului la grosimea si dimensiunile din planurile proiectului ethnic; – indepartarea materialelor in exces; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – materials supply and vertical/horizontal transport to the place of installation; – manual preparing of the epoxy mortar; – cleaning and preparation the support layer before application of epoxy mortar; – pouring the mortar to the thickness and the dimensions mentioned in the Detailed Design drawings; – removal of excess materials; – checking the works execution. 	
Codul normei Norm Code	RD0020	Confectie metalica pentru scara incendiu, inclusiv vopsitoria anticoroziva si rezistenta la foc, treptele si podestele din piatra artificiala antiderapanta
Unitate de masura Measuring Unit	kg	Metallic elements for the emergency stairs, including fire protection and anticorrosive painting, stairs and stair landing covered with anti-slip artificial stone slabs
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare si transportul /stocare în șantier; – montarea schelelor sau a altor dispozitive necesare executarii montajului; – lucrari de ajustari necesare in vederea montajului; – asamblarea tronsoanelor componente; – ridicarea, centrarea si montarea pe amplasament a elementelor metalice; – montarea si fixarea confectiilor metalice, inclusive a gaurilor de fixare in elementele structurale; – executarea vopsitoriei anticorozive si celei rezistenta la foc conform caiete de sarcini; – executarea treptelor si a podestelor din piatra artificiala antiderapanta; – demontarea schelelor sau a altor dispozitive necesare executarii montajului; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – materials supply, transport and storage on site; – scaffolds Mounting or of other devices necessary for execution; – on-site adjustment works necessary for the mounting; – component elements assembling; – metallic elements mounting and fixing, including boreholes for fixing the structural units; – fire protection and anticorrosive painting protection as per Technical Specifications; – stairs and stair landing covering execution with antislip artificial stone slabs; – scaffolds dismantling or other devices necessary for assembling; – checking the works execution. 		
Codul normei Norm Code	RD0021	Ancore chimice cu bulon M24
Unitate de masura Measuring Unit	buc/piece	Chemical anchoring with M24 bolts
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii/stocare în șantier; – execuția găurilor și curățarea acestora de praf cu jet de aer; – curățarea și uscarea locului de montaj; – fixarea poziției ancorelor prin montarea provizorie, conform caietelor de sarcini și a prescripțiilor proiectului tehnic; – fixarea definitivă pe poziție cu ajutorul substanței chimice de fixare; – transportul și manipularea materialelor pe orizontală și verticală; – verificări ale calității materialelor și a execuției lucrărilor. 		
<ul style="list-style-type: none"> – materials supply for work execution and storage on site; – making of boreholes and cleaning with air jet; – cleaning and drying of the work place; – provisional placing of the anchors, according to Technical Specifications and Detailed Design; – setting with chemical solution added for permanent fixing; – horizontal and vertical transport and handling of the materials; – checking the materials quality and works execution. 		
Codul normei Norm Code	RD0021a	Ancore de oțel beton în elemente de beton armat
Unitate de masura Measuring Unit	buc/piece	Reinforced concrete anchors in reinforced concrete elements
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii/stocare în șantier; – execuția gaurilor și curățarea acestora de praf cu jet de aer; – fixarea poziției ancorelor prin montarea provizorie, conform caietelor de sarcini și a prescripțiilor proiectului tehnic; – fixarea definitivă pe poziție cu ajutorul mortarului de ciment marca din proiectul tehnic; – transportul și manipularea materialelor pe orizontală și verticală; – verificări ale calității materialelor și a execuției lucrărilor. 		

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<ul style="list-style-type: none"> – materials supply for work execution / storage on site; – making of boreholes and cleaning with air jet; – provisional placing of the anchors, according to Technical Specifications and Detailed Design; – setting with cement mortar added for permanent fixing; – horizontal and vertical transport and handling of the materials; – checking the materials quality and works execution. 		
Codul normei Norm Code	RD0022	Plombe din beton in strapungeri in plansee din beton armat (Beton armat clasa C20/22,5 turnat monolit la elemente de suprafata, inclusiv cofrajul)
Unitate de masura Measuring Unit	buc/piece	Concrete fill in holes/openings to slabs/decks (Reinforced concrete class C20/22,5, cast in situ to floorings, including formwork)
<p>Descriere Description:</p> <ul style="list-style-type: none"> – cofrarea/decofrarea zonelor de plombare cu cofraje din lemn; – procurarea si transportul betonului, la locul de turnare a plombelor din plansee; – turnarea betonului in cantitati mici la plombe din plansee; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – wooden formwork setting/removal; – concrete supply, transport of the concrete to the pouring place; – concrete casting in small quantities in filling areas; – checking of the works execution. 		
Codul normei Norm Code	RD0023	Executarea de strepi in zidarie (Desfacerea caramizilor la ziduri existente in vederea teserii cu zidarii noi)
Unitate de masura Measuring Unit	m	Demolition of existing brick masonry and bonding with the new brickwork
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea sculelor si utilajelor de mica mecanizare necesare realizarii demolarilor de caramizi; – desfacerea caramizilor din panourile de zidarie, in vederea executarii/practicarii strepilor; – curățarea molozului și transportul la locul autorizat – teserea zidariei de caramida dupa executarea strepilor. 		
<ul style="list-style-type: none"> – tools and equipments supply for removal of bricks; – removal of bricks from existing masonry, to allow for bonding with new walls; – cleaning and debris removal; – bonding of newly executed wall with the existing masonry . 		

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Codul normei Norm Code	RD0024	Confecții metalice aparente (Confecții metalice montate pe elemente de beton sau caramida)
Unitate de masura Measuring Unit	kg	Apparent metallic elements (Metallic elements mounted to concrete elements or brickwork)
Descriere Description:	<ul style="list-style-type: none"> – procurarea confecțiilor metalice și stocare în șantier; – procurare, montare și utilizare platforme de lucru, după caz; – fixarea prin sudura de confecțiile metalice înglobate în beton sau caramida sau fixare cu buloane/ancore metalice; – demontare platforme de lucru – verificarea execuției confecțiilor aparente. <hr/> <ul style="list-style-type: none"> – supply of metallic elements and storage on site – provision and mounting of work platform, if necessary; – welding to metallic elements embedded in concrete or brickwork; or fixing by metallic anchors; – dismantle work platform, if any; – checking the works execution. 	
Codul normei Norm Code	RD0025	Elemente structurale din lemn lamelar pentru sustinere inchideri si invelitoare
Unitate de masura Measuring Unit	m³	Structural laminated wood roof elements
Descriere Description:	<ul style="list-style-type: none"> – procurarea elementelor în gama de tipo-dimensiuni specificată în extrasele proiectului tehnic, inclusiv transport și stocare în șantier; – procurare, montare și utilizare schele/platforme de lucru – montarea plaselor de siguranță pentru lucru la înălțime. – aducerea elementelor structurale din lemn lamelar la locul de punere în opera cu ajutorul macaralei sau a altor dispozitive de ridicare; – fixarea elementelor structurale din lemn lamelar și îngrâdirea, conform detaliilor și a planurilor proiectului tehnic; – demontare schele/platforme de lucru, plase de siguranță și stocare în șantier – îndepărtarea materialelor în exces și transportul la locul autorizat; – verificarea execuției lucrărilor. 	

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<ul style="list-style-type: none"> – elements supply according to Detailed Structural Design, including transport and storage on site; – provision, mounting and maintaining of scaffold or work platform; – for roof carpentry: provide safety net; – structural wooden elements transport with crane or other hoisting means to the place of installation; – structural laminated wood elements fixing and fireproofing, according to the Detailed Design drawings and Technical Specifications; – dismantling of scaffold and safety net, storage on site; – removal of excess materials to the authorised dumping area; – checking the works execution. 		
Codul Normei Norm Code	RD0026	Reparatii, fisuri in zidarie prin injectare cu mortar de ciment (amestecat cu aracet)
Unitate de masura Measuring Unit	m	Crack repair in masonry through injection of cement mortar (mix with polyvinyl acetate glue)
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor, accesoriilor si a materialelor necesare realizarii reparatiilor de fisuri in zidarie; – procurare, montare și utilizare schele/platfome de lucru – curatarea fisurilor in adancime, cu mijloace manuale; – curatarea resturilor de mortar si alte materiale necoezive cu jet de aer sub presiune si apa in exces; – montarea stuturilor de injectare a fisurilor, conform detaliilor tehnice din Caiete de sarcini sau tehnologiei folosite de Contractor; – demontare schele/platfome de lucru și stocare în șantier – verificarea materialelor puse in opera si a executarii umplerii complete a fisurilor in zidarie. 	
	<ul style="list-style-type: none"> – supply materials, tools and accessories, in order to execute the masonry fissures repair; – provide and mount work platform, if needed; – manual in-depth cleaning of the cracks; – raking of the residual mortar and removal of non-cohesive materials with pressure air and water; – cracks injection device installation and use, see Technical Specifications or Contractor's own technological method statement for execution; – dismantle work platform, if any; – checking the works execution and completeness of filling in the cracks. 	

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Codul Normei Norm Code	RD0027	Reparatii crapaturi la ziduri de caramida– cu mortar M50-Z
Unitate de masura Measuring Unit	m	Crack repair in brick masonry with M50-Z type mortar
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor, accesoriilor si a materialelor necesare realizarii reparatiilor la crapaturi; – procurare, montare și utilizare schele/platfome de lucru; – curatarea crapaturilor in adancime cu mijloace manuale; – curatarea resturilor de mortar si alte materiale necoezive cu jet de aer sub presiune si apa in exces; – montarea stuturilor de injectare a crapaturilor, conform detaliilor tehnice din Caiete de sarcini sau tehnologiei folosite de Contractor; – demontare schele/platfome de lucru și stocare în șantier – verificarea materialelor puse in opera si a executarii umperii in adancime a crapaturilor in zidarie. <hr/> <ul style="list-style-type: none"> – supply materials, tools and accessories, in order to fill in masonry cracks; – provision and mounting of work platform, if needed; – manual in-depth cleaning of the cracks; – raking of the residual mortar and removal of non–cohesive materials with pressure air and water; – cracks injection device installation and use, see Technical Specifications or Contractor’s own technological method statement of execution; – dismantling of work platform, if any; – checking the works execution and completeness of filling in the masonry. 	

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Codul normei Norm Code	RD0028	Reparare crapaturi in tencuieli interioare la pereti (Mortar M50T sau M25T turnat sub presiune in crapaturile din tencuiala)
Unitate de masura Measuring Unit	m	Interior wall plaster cracks repair (Mortar M50T or M25T type under pressure injected in plaster cracks)
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor necesare realizarii injectarilor de mortare de reparatii, la crapaturi in tencuieli; – procurare/stocare în șantier a materialelor necesare , conform Caiete de sarcini; – procurare, montare și utilizare schele/platfome de lucru; – curatarea crapaturilor in tencuiala de materiale necoezive, suflarea cu aer sub presiune, udarea in exces a traseului crapaturilor; – montarea stuturilor de injectare a crapaturilor, conform detaliilor tehnice din Caiete de sarcini sau tehnologiei folosite de Contractor; – demontare schele/platfome de lucru și stocare în șantier – evacuarea molozului <hr/> <ul style="list-style-type: none"> – supply tools and accessories , in order to execute the plaster cracks repair; – materials supply, according to Technical Specifications, including storage on site; – provision and mounting of work platform, if necessary; – raking of the residual mortar and removal of non-cohesive materials with air jet and water jet; – cracks injection device installation and use, see Technical Specifications or Contractor's own technological method statement of execution; – dismantling of work platform, if any; – removal of debris. 	

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Codul normei Norm Code	RD0029	Elemente de beton armat prefabricat in suprastructura: pereti, diafragme, stalpi, grinzi, plăci.
Unitate de masura Measuring Unit	buc	Prefabricated reinforced concrete elements in the superstructure: walls, structural walls, columns, beams, slabs.
Descriere Description:	<ul style="list-style-type: none"> – procurarea elementelor de beton armat prefabricat conform specificații in proiectul tehnic și/sau caiete de sarcini. – transportul, descărcarea/manipularea/stocarea cu mijloace adecvate a elementelor prefabricate de la producător la șantier/depozit de lucru; – transportul/manipularea cu mijloace mecanice adecvate(macara și/sau alte mijloace auxiliare) de la depozit la locul de punere în operă – procurare, montare și utilizare schele/platforme de lucru/sprijiniri temporare, inclusiv desfacere/depozitare în șantier; – lucrări pregătitoare (trasare/verificare, execuție sprijiniri, mortare de pozare precum și alte materiale/operațiuni auxiliare necesare conform tehnologiei adoptate); – montarea elementelor de beton armat prefabricat la locul de punere in opera cu mijloace mecanice adecvate (macara/elemente auxiliare); executarea tuturor operațiunilor necesare de îmbinare a elementelor prefabricate (sudură, cofrare/decofrare, beton de monolitizare, protejare beton, verificări, teste necesare) inclusiv materiale auxiliare necesare acestor operații conform tehnologiei adoptate – desfacere sprijiniri temporare, curățare și transport moloz la depozit autorizat – verificarea executiei lucrarilor, efectuarea testelor necesare <hr/> <ul style="list-style-type: none"> – supply reinforced concrete prefabricated elements as specified in the Detailed Structural Design, the Technical Specifications ; – transportation/unloading/storage by mechanical adequate means from manufacturer to site/deposit – transportation/manipulation by mechanical adequate means(crane and ancillary devices) from site/deposit in place of work; – provision, mounting and maintaining of scaffold/work platform/temporary bracing/shuttering; – preliminary works (pegging/checking, bracing/shuttering, mortar for setting and all other required materials/operations as per adopted technology); – transportation/fixing in place of the prefabricated concrete elements using mechanical adequate means(crane/ancillary devices); all related operations to the joining processes as per adopted technology (welding, formwork/removal of formwork, monolith concrete pouring/curing concrete, verifications and tests) including all necessary ancillary materials related to operations as per adopted technology ; – dismantling of the temporary scaffold/shuttering/bracing and storage on site, cleaning and removal of debris to authorised dumping area; – checking the works execution and testing of samples. 	

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1.2. INFRASTRUCTURA / INFRASTRUCTURE		
Codul normei Norm Code	R00001	Sapatura executata la fundatii in vederea executarii lucrarilor de consolidare
Unitate de masura Measuring Unit	m³	Digging to foundations in order to execute consolidation works
<p>Descriere Description:</p> <ul style="list-style-type: none"> – saparea in spatii inguste cu sprijinirea malurilor pentru executarea fundatiilor la consolidari; – incarcarea si transportul cu roaba sau alt mijloc a pamantului la depozitul intermediar; – curatarea locului de munca; – incarcare si transport pamant, descarcare in depozit autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – digging in narrow areas with embankments supports, in order to reach foundation level; – loading/transport of soil with wheelbarrow to intermediary storage area; – cleaning the work site; – vehicle transportation/unloading of rubbish to authorized dumping area; – checking the works execution. 		
Codul normei Norm Code	R00002	Demolare fundatii din caramida
Unitate de masura Measuring Unit	m³	Demolition of brick foundations
<p>Descriere Description:</p> <ul style="list-style-type: none"> – demolarea fundatiilor din caramida cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – incarcarea si transportul cu roaba sau alt mijloc la depozitul intermediar; – curatarea locului de munca; – transportul auto si descarcarea molozului la depozit autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – demolition of the brick foundations manually or mechanically, according to the adopted technology; – watering the rubbish; – loading and transport of soil with wheelbarrow to intermediary deposit; – cleaning the work site; – vehicle transportation/unloading of rubbish to the authorized dumping area; – checking the works execution. 		

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Codul normei Norm Code	R00003	Sapatura mecanica executata cu excavatorul, in pamant cu umiditate naturala
Unitate de masura Measuring Unit	100 m³	Mechanical excavation with excavator, in soil with natural humidity
Descriere Description:	<ul style="list-style-type: none"> – saparea cu excavatorul la dimensiunile si cotele din proiectul tehnic; – incarcarea pamantului in mijlocul auto de transport; – transportul pamantului la groapa; – descarcarea pamantului in 30eposit; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – excavation to dimensions/levels mentioned in the Detailed Design; – loading soil in the transportation vehicle; – transport and unloading of soil to authorized dumping area; – checking the works execution. 	
Codul normei Norm Code	R00004	Sapatura manuala executata in pamant cu unmiditate naturala
Unitate de masura Measuring Unit	m³	Manual excavation executed in soil with natural humidity
Descriere Description:	<ul style="list-style-type: none"> – saparea manuala la dimensiunile si cotele din proiect; – incarcarea pamantului in roaba si transportul lui la depozitul intermediar; – incarcarea pamantului in mijlocul auto de transport; – transportul transportul pamantului la groapa; – descarcarea pamantului in 30eposit; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manual digging according to dimensions and levels mentioned in the design; – loading/transport of soil with wheelbarrow, transport to the intermediary deposit; – loading soil in the transportation vehicle; – transport/unloading soil to authorized dumping area; – checking the works execution. 	

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Codul normei Norm Code	R00005	Umplutura si compactarea umpluturii
Unitate de masura Measuring Unit	m³	Backfilling and compaction of soil
Descriere Description:	<ul style="list-style-type: none"> – aducerea pamantului de umplutura din depozitul de pamant bun de umplutura; – executarea umpluturii cu pamant bun de umplutura in jurul fundatiilor si a cladirii, conform indicatiilor din proiectul tehnic, a caietelor de sarcini; – executarea compactarii umpluturii in straturi successive inclusiv udarea straturilor de umplutura; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – Supply and transport of proper backfilling material from deposit; – execution of backfilling with soil around foundations and building, according to the Detailed Structural Design, Technical Specifications ; – compaction in successive layers including watering of successive layers; – checking the works execution. 	
Codul normei Norm Code	R00006	Strat de repartitie executat din balast sau pietris compactat
Unitate de masura Measuring Unit	m³	Hardcore layer of ballast or compacted gravel
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialului pentru executarea stratului de repartitie: balast sau pietris si aducerea la locul de punere in opera cu mijloace de transport adecvate; – executarea stratului de repartitie in grosimea si de dimensiunile specificate, conform proiectului tehnic, a caietelor de sarcini; – executarea compactarii cu cu placa vibratoare in straturi successive inclusiv udarea succesiva a straturilor de umplutura; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – material supply in order to execute the hardcore layer of: ballast or gravel and transport to work place with appropriate transport means; – hardcore layer execution in thickness and dimensions, according to the Detailed Structural Design, Technical Specifications; – compaction of successive layers with vibrant plate including watering in successive layers; – checking the works execution. 	

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Codul normei Norm Code	R00007	Beton simplu clasa C4/5 in stratul de egalizare
Unitate de masura Measuring Unit	m³	Blinding concrete class C4/5 as equalisation layer
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificat in proiectul tehnic, caietul de sarcini, inclusiv transportul si asezare foliei de separare a straturilor; – turnarea betonului de egalizare, conform planurilor; – asigurarea conditiilor normale de intarire prin protectii si/sau udare; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – class and volume concrete supply as specified in the Detailed Structural Design, Technical Specifications, including transport, laying of PVC sheet to separate the layers; – pouring blinding concrete, according to design; – watering/cover protecting of the concrete to ensure a normal strengthening; – checking the works execution. 	
Codul normei Norm Code	R00008	Beton simplu clasa C8/10 in fundatii continue sau izolate
Unitate de masura Measuring Unit	m³	Plain concrete class C8/10 in continuous or single foundations
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificat in proiectul tehnic, caietul de sarcini, inclusiv transport; – turnarea betonului in fundatii prin aducerea lui la locul de punere in opera cu macaraua/pompa, conform tehnologiei adoptate; – asigurarea conditiilor normale de intarire prin protectii si/sau udare; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – class and volume concrete supply as specified in the Detailed Structural Design, Technical Specifications, including transport; – concrete casting including transport with crane/concrete pump to work place, according to adopted technology; – watering/cover protecting of concrete to ensure a normal strengthening; – checking of the works execution. 	

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Codul normei Norm Code	R00009	Beton armat clasa C16/20 turnat in infrastructura: fundatii izolate, radiere, pereti, diafragme, stalpi
Unitate de masura Measuring Unit	m³	Reinforced concrete class C16/20 cast in infrastructure: single foundations, slab foundation, walls, structural walls, columns
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificat in proiectul tehnic, caietul de sarcini, inclusiv transportul; – verificarea armarilor existente in cofraj; – turnarea betonului in infrastructura prin aducerea lui la locul de punere in opera cu macaraua/pompa, conform tehnologiei adoptate; – asigurarea conditiilor normale de intarire prin protectii si/sau udare; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply concrete, class and volume specified in the Detailed Structural Design, Technical Specifications, including transport; – reinforcements bars checking before casting concrete; – concrete casting and transport with crane/concrete pump to work place, according to adopted technology; – watering/cover protecting of concrete to ensure a normal strengthening; – checking the works execution. 	
Codul normei Norm Code	R00010	Beton armat clasa C16/20 turnat in infrastructura: placi, grinzi
Unitate de masura Measuring Unit	m³	Reinforced concrete class C16/20 cast in infrastructure: slabs, beams
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa si volumul specificat in proiectul tehnic, caietul de sarcini , inclusiv transport; – verificarea armarilor existente in cofraj; – turnarea betonului in structura prin aducerea lui la locul de punere in opera cu macaraua /pompa, conform tehnologiei adoptate; – asigurarea conditiilor normale de intarire prin protectii si/sau udare; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply concrete in class and volume, as specified in the Detailed Design, and Technical Specifications , including transport; – reinforcements to be checked and approved before pouring of concrete; – concrete casting and transport with crane/concrete pump to work place, according to adopted technology; – watering/cover protecting of the concrete to ensure a normal strengthening; – checking the works execution. 	

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Codul normei Norm Code	R00011	Cofraje pentru beton in fundatii, executate cu panouri placaj 8 mm
Unitate de masura Measuring Unit	m²	Formwork for concrete in foundations, made of 8 mm plywood
Descriere Description:	<ul style="list-style-type: none"> – procurarea cofrajelor necesare executarii lucrarii; – aducerea cofrajelor la locul de punere in opera cu ajutorul macaralei; – punerea cofrajelor pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – verificarea executiei lucrarilor; – decofrare si curatare. <hr/> <ul style="list-style-type: none"> – formwork supply for the work execution; – formwork transport with mechanical/manual means to the place of work; – formwork pegging, pegging and fixing with cross ties, setting in position, to distances and positions indicated in the Detailed Structural Design; – checking the works execution; – formwork removal and cleaning. 	
Codul normei Norm Code	R00012	Cofraje pentru beton in infrastructura, in pereti, diafragme si stalpi, executate cu panouri re folosibile
Unitate de masura Measuring Unit	m²	Formwork for concrete infrastructure works: walls, structural walls and columns; made of reusable panels
Descriere Description:	<ul style="list-style-type: none"> – procurarea cofrajelor necesare exeuctarii lucrarii; – aducerea cofrajelor la locul de punere in opera cu mijloace mecanice/manuale; – trasarea pozitiei cofrajelor, conform proiectului; – punerea cofrajelor pe pozitie si fixarea lor cu tiranti sau alte elemente de prindere, la distantele si pe pozitiile indicate in proiectul tehnic; – verificarea executiei lucrarilor; – decofrare si curatare. <hr/> <ul style="list-style-type: none"> – formwork supply for the works execution; – formwork transport with mechanical/manual means to the place of work; – formwork pegging, pegging and fixing with crossties, setting in position, to distances and positions indicated in the Detailed Structural Design; – checking the works execution; – formwork removal and cleaning. 	

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Codul normei Norm Code	R00013	Armaturi din otel beton OB37 montate in fundatii
Unitate de masura Measuring Unit	kg	OB37 reinforcements bars mounted in foundations
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din OB37 in gama de tipo-dimensiuni specificata in extrasele de armatura ale proiectului tehnic, inclusiv transport; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – indepartarea materialelor in exces; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – OB37 type reinforcement bars supply, according to bill of reinforcement of the Detail Design, including transport; – reinforcement transport with mechanical/manual means to place of work; – cutting the reinforcements bars into dimensions specified in the Detailed Structural Design; – installing reinforcement, according to details and structural design; – removal of excess materials; – checking the works execution. 	
Codul normei Norm Code	R00014	Armaturi din otel beton PC52 montate in fundatii
Unitate de masura Measuring Unit	kg	PC52 type reinforcement bars mounted in foundations
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din otel PC52 in gama de tipo-dimensiuni specificata in detaliile de armare, inclusiv distanțieri din plastic, transport/stocare în șantier; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – inadirea prin sudura, unde este cazul, conform proiectului tehnic; – indepartarea materialelor in exces; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – PC52 type reinforcement bars supply, according to list of reinforcement (bending schedules) and detail drawings, including transport/storage on site; – reinforcement transport with mechanical/manual means to work place; – cutting the reinforcements bars to dimensions specified in the Detailed Structural Design and Technical Specifications; – installing reinforcement bars, according to the details and reinforcement drawings; – joining by welding, in special cases, as per Detailed Structural Design; – removal of excess materials; – checking the works execution. 		
Codul normei Norm Code	R00015	Armaturi din otel beton OB37 montate in infrastructura
Unitate de masura Measuring Unit	kg	OB37 type reinforcement bars in infrastructure works
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din OB37 in gama de tipo dimensiuni specificata in detaliile de armare, inclusive distanțieri din plastic, transport/stocare în șantier; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale; – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – inadirea prin sudura, unde este cazul, conform proiectului tehnic; – indepartarea materialelor in exces și transportarea către locul autorizat; – verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> – OB37 type reinforcement bars supply, according to list of reinforcement (bending schedule), including transport/storage on site; – Reinforcement bars transport with mechanical/manual means to work place; – cutting reinforcement bars to dimensions specified in the Detailed Structural Design; – installing reinforcement bars, according to detail and reinforcement drawings; – joining by welding, in special cases, according to the Detailed Design; – removal of excess materials and transporting to authorized dumping area; – checking the works execution. 	

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Codul normei Norm Code	R00016	Armaturi din otel beton PC52 montate in infrastructura
Unitate de masura Measuring Unit	kg	PC52 type reinforcement bars in infrastructure works
Descriere Description:	<ul style="list-style-type: none"> – procurarea armaturilor din PC52 in gama de tip dimensiuni specificata in detalile de armare si transportul lor cu mijloace de transport specifice și stocare în șantier; – aducerea armaturilor la locul de punere in opera cu mijloace mecanice/manuale – debitarea (confectionarea) armaturilor la dimensiunile necesare executarii lucrarii, specificate in proiectul tehnic; – executarea armarii, conform detaliilor si a planurilor de armare; – inadirea prin sudura, unde este cazul, conform proiectului tehnic; – indepartarea materialelor in exces și transportul la locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply reinforcement bars PC52 type as specified in the list of reinforcement (bending schedule), including transport with specific transport means and storage on site; – reinforcement bars transport to work place by mechanical/manual means; – cutting reinforcement bars to dimension specified in structural Design; – installing reinforcement bars, according to detail and reinforcement drawings; – joining by welding, in special cases, according to the Detailed Structural Design; – removal the materials in excess and transport/dumping to authorized area; – checking the works execution. 	

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Codul normei Norm Code	R00017	Confecții metalice înglobate în beton
Unitate de măsură Measuring Unit	kg	Metallic elements embedded in concrete
Descriere Description:	<ul style="list-style-type: none"> – procurarea confecțiilor metalice în gama de tipuri dimensiuni specificată în detaliile de armare, inclusiv transport/stocare în șantier; – aducerea confecțiilor metalice la locul de punere în opera cu mijloace mecanice/manuale; – fixarea confecției metalice cu ajutorul sudurii sau a altei metode de fixare, conform detaliilor și a planurilor proiectului tehnic; – îndepărtarea materialelor în exces; – verificarea execuției lucrărilor. <hr/> <ul style="list-style-type: none"> – supply metallic elements according to bill of reinforcement, including transport; – metallic elements transport by mechanical/manual means to work place; – welding and fixing of the metallic elements, according to the Detailed Design details and drawings; – removal of excess materials; – checking the works execution. 	
Codul normei Norm Code	R00018	Beton armat clasa C12/15 turnat în infrastructură
Unitate de măsură Measuring Unit	m³	Reinforced concrete class C12/15 infrastructure cast in situ
Descriere Description:	<ul style="list-style-type: none"> – procurarea betonului la clasa și volumul specificat în proiectul tehnic, caietul de sarcini, inclusiv transport; – verificarea armăturilor existente în cofraj; – turnarea betonului în structură prin aducerea lui la locul de punere în opera cu macaraua sau pompa, conform planurilor; – asigurarea condițiilor normale de întărire prin protecții sau udare; – verificarea execuției lucrărilor. <hr/> <ul style="list-style-type: none"> – supply concrete class and volume specified in the Detailed Structural Design, Technical Specifications, including transport; – reinforcement bars checking before pouring the concrete; – infrastructure concrete casting and transport with crane/concrete pump to work place, according to the plans; – watering or cover protecting of the concrete to ensure a normal strengthening; – checking the works execution. 	

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Codul normei Norm Code	R00019	Turnare beton armat in cantitati mici la consolidari de elemente (beton monolit, turnat la elemente de consolidare, exclusiv armatura) – conform specificatiilor din proiectul tehnic
Unitate de masura Measuring Unit	m³	Casting reinforced concrete in small quantities for consolidated elements (cast in situ concrete consolidated elements without reinforcement) – according to specifications from Detailed Design
Descriere Description:	<ul style="list-style-type: none"> – turnarea elementelor de consolidare cu cofraje din lemn sau metalice; – procurarea betonului clasa C20/22,5 si transportul acestuia in cantitati mici cu mijloace de transport specifice, la locul de punere in opera; – turnarea betonului in cantitati mici, la elementele de consolidare; – decofrarea elementelor consolidate; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – Concreting elements in wooden or metal formwork for consolidation works; – concrete class C20/22,5 supply and transport in small quantities to work place; – casting concrete in small quantities; – removal of formwork; – checking the works execution. 	
Codul normei Norm Code	R00020	Elemente de beton armat prefabricat in infrastructura.
Unitate de masura Measuring Unit	buc	Prefabricated reinforced concrete elements in the infrastructure.
Descriere Description:	<ul style="list-style-type: none"> – procurarea elementelor de beton armat prefabricat conform specificații in proiectul tehnic și/sau caiete de sarcini. – transportul, descărcarea/manipularea/stocarea cu mijloace adecvate a elementelor prefabricate de la producător la șantier/depozit de lucru; – transportul/manipularea cu mijloace mecanice adecvate (macara și/sau alte mijloace auxiliare) de la depozit la locul de punere în operă – procurare, montare și utilizare schele/platforme de lucru/sprijiniri temporare, inclusiv desfacere/depozitare în șantier; – lucrări pregătitoare (trasare/verificare, execuție sprijiniri, beton de egalizare precum și alte materiale/operațiuni auxiliare necesare conform tehnologiei adoptate); – montarea elementelor de beton armat prefabricat la locul de punere in opera cu mijloace mecanice adecvate (macara/elemente auxiliare); executarea tuturor operațiunilor necesare de îmbinare a elementelor prefabricate (cofrare/decofrare, beton de monolitizare, protejare beton, verificări, teste necesare) inclusiv materiale auxiliare necesare acestor operații conform tehnologiei adoptate – desfacere sprijiniri temporare, curățare și transport moloz la depozit autorizat – verificarea executiei lucrarilor, efectuarea testelor necesare 	

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- supply reinforced concrete prefabricated elements as specified in the Detailed Structural Design, the Technical Specifications ;
- transportation/unloading/storage by mechanical adequate means from manufacturer to site/deposit
- transportation/manipulation by mechanical adequate means (crane and ancillary devices) from site/deposit in place of work;
- provision, mounting and maintaining of scaffold/work platform/temporary bracing/shuttering;
- preliminary works (pegging/checking, bracing/shuttering, blind concrete and all other required materials/operations as per adopted technology);
- transportation/fixing in place of the prefabricated concrete elements using mechanical adequate means (crane/ancillary devices); all related operations to the joining processes as per adopted technology (formwork/removal of formwork, monolith concrete pouring/curing concrete, verifications and tests) including all necessary ancillary materials related to adopted technology ;
- dismantling of the temporary scaffold/shuttering/bracing and storage on site, cleaning and removal of debris to authorised dumping area;
- checking the works execution and testing of samples.

2. ARHITECTURE - ARCHITECTURE

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

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2.1. LUCRARI DE DEMOLARE / DEMOLITION WORKS		
Codul Normei Norm Code	AD0001	Demolare pereti despartitori din placi BCA
Unitate de masura Measuring Unit	m³	Demolition of partition walls from autoclaved cellular concrete (ACC) blocks
<p>Descriere Description:</p> <ul style="list-style-type: none"> – demolarea zidurilor cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca ; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manual or mechanical demolition of walls, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump area; – checking the works execution. 		
Codul Normei Norm Code	AD0002	Demolare pereti despartitori din caramida plina, cu goluri sau beton
Unitate de masura Measuring Unit	m³	Demolition of partition walls of solid bricks, cavity bricks and concrete blocks
<p>Descriere Description:</p> <ul style="list-style-type: none"> – demolarea zidurilor cu mijloace manual sau mecanic, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca ; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manual or mechanical demolition of walls, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish resulted; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 		

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Codul Normei Norm Code	AD0002a	Spargere ziduri pentru creare goluri
Unitate de masura Measuring Unit	m²	Break-out a part of the walls to create (window or door) openings
Descriere Description:	<ul style="list-style-type: none"> – spargere ziduri din caramida, BCA sau beton pentru creare goluri, cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala; – incarcarea si transportul auto al molozului la in locul autorizat ; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manual or mechanical demolition of walls of brick, ACC or concrete, in order to create (window or door) openings, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	
Codul Normei Norm Code	AD0003	Desfacere tencuieli interioare si/sau exterioare driscuite, la pereti si tavane
Unitate de masura Measuring Unit	m²	Removal of internal and/or exterior smoothed plaster, at walls and ceilings
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei tubulare sau autoridicatoare, conform tehnologiei adoptate; – desfacerea tencuielilor cu mijloace manuale sau mecanice, – udarea molozului; – curatarea locului de munca; – demontarea schelei si transportul ei in depozitul santierului; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat ; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – mounting and maintaining of the tubular scaffold or autolifter, according to the adopted technology; – manual or mechanical demolition of plaster, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	

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Codul Normei Norm Code	AD0004	Desfacere tencuieli exterioare din praf de piatra sau terasit
Unitate de masura Measure Unit	m²	Removal of exterior plaster of fine aggregate or terasit
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei tubulare sau autoridicatoare de fatada, conform tehnologiei adoptate; – desfacerea tencuielilor cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – demontarea schelei si transportul ei in depozitul santierului; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – assembling and maintaining of the tubular or autolifter façade scaffold, according to adopted technology; – manual or mechanical demolition of plaster, according to the adopted technology; – watering the rubbish; – cleaning the work site; – dismantling the scaffold and transport to the site warehouse; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	
Codul Normei Norm Code	AD0005	Desfacerea pardoselilor din parchet degradat, fara recuperarea materialelor
Unitate de masura Measuring Unit	m²	Removal of deteriorated parquet floor, without material recovery
Descriere Description:	<ul style="list-style-type: none"> – desfacerea pardoselii (inclusiv straturile suport necorespunzătoare) cu mijloace manuale sau mecanice, conform tehnologiei adoptate și/sau caiete de sarcini/proiect tehnic; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – manual or mechanical removal of parquet floor (including inadequate support layers), according to the adopted technology and/or technical specs/detailed design; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 		
Codul Normei Norm Code	AD0006	Desfacerea pardoselilor din ciment, mozaic sau gresie
Unitate de masura Measuring Unit	m²	Removal of cement screed, terrazo or stoneware flooring
Descriere Description:	<ul style="list-style-type: none"> – desfacerea pardoselii cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor; <hr/> <ul style="list-style-type: none"> – removal of flooring manually or mechanically, according to adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	
Codul Normei Norm Code	AD0007	Desfacerea trotuarelor de protectie din beton, inclusiv a bordurilor din beton
Unitate de masura Measuring Unit	m²	Removal of concrete perimeter paving, including concrete kerbs
Descriere Description:	<ul style="list-style-type: none"> – desfacerea trotuarului si a bordurilor cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. 	

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<ul style="list-style-type: none"> – manual or mechanical removal of pavings and kerbs, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking of the works execution. 		
Codul Normei Norm Code	AD0008	Desfacerea placajelor din faianta de la pereti
Unitate de masura Measuring Unit	m²	Removal of ceramic wall tiling
Descriere Description:	<ul style="list-style-type: none"> – desfacerea placajului cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manual or mechanical removal of tiles, according to the adopted technology; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking of the works execution. 	
Codul Normei Norm Code	AD0009	Decopertarea vopsitoriei existente la pereti
Unitate de masura Measuring Unit	m²	Stripping of the wall paint by hot air fan or chemicals
Descriere Description:	<ul style="list-style-type: none"> – decopertarea stratului de vopsea prin ardere/chimic; – curatarea cu spaclul a vopselei vechi – curatarea locului de munca; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – stripping with hot air fan or chemicals of existing paint layer; – cleaning with spatula of existing softened paint; – cleaning work site; – checking the works execution. 	

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Codul Normei Norm Code	AD0010	Demontarea usilor si ferestrelor din lemn
Unitate de masura Measuring Unit	m²	Dismantling of wooden doors and windows
Descriere Description:	<ul style="list-style-type: none"> – demontarea foilor de usi, a cercevelor si a captuselilor; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – dismantling of door leaves, casements, linings and architraves; – watering of the rubbish; – cleaning of the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking of the works execution. 	
Codul Normei Norm Code	AD0011	Demontarea usilor si ferestrelor din metal
Unitate de masura Measuring Unit	m²	Dismantling of metal doors and windows
Descriere Description:	<ul style="list-style-type: none"> – demontarea foilor de usi, a cercevelor si a tocurilor, daltuirea niturilor, daca este cazul; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – dismantling door leaves, sashes and frames, chiselling of rivets, if necessary; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	

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Codul Normei Norm Code	AD0011a	Reparatii si reconditionare usi masive din lemn, inclusiv tocurile si feronerie
Unitate de masura Measuring Unit	m²	Repairs and restoration of solid wood doors including frames and fittings
Descriere Description:	<ul style="list-style-type: none"> – curatarea suprafetelor; – reparare sau inlocuire elemente deteriorate; – reparare sau inlocuire feronerie; – incarcarea si transportul auto al molozului in locul autorizat; – slefuirea, baituirea, lacuirea suprafetelor; – procurare materiale necesare si transportul pana la locul de punere in opera; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – surface cleaning; – repairs or replacement of damaged elements; – repairs or replacement of the fittings; – loading and transport of the rubbish by car to the authorized dumping area; – polishing, staining, surfaces varnishing; – supply of the necessary materials and transport to the place of work; – checking. 	
Codul Normei Norm Code	AD0012	Demontarea usilor si ferestrelor din PVC
Unitate de masura Measuring Unit	m²	Dismantling of the PVC doors and windows
Descriere Description:	<ul style="list-style-type: none"> – demontarea foilor de usi, a cercevelor si a captuselilor; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – dismantling door leaves, sashes and trims; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	

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Codul Normei Norm Code	AD0013	Desfacerea straturilor de terasa, inclusiv a stratului suport si de protectie
Unitate de masura Measuring Unit	m²	Removal of the terrace layers, including the support layer and the protection layer
Descriere Description:	<ul style="list-style-type: none"> – desfacerea stratului de protectie a hidroizolatiei; – desfacerea straturilor hidroizolante degradate; – desfacerea stratului suport a hidroizolatiei; – verificarea calitatii termoizolatiei existente, si dupa caz, reemdierea ei sau indepartarea; – udarea molozului; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – taking-off the protection and waterproofing layers; – taking-off the deteriorated waterproofing layers; – checking the actual quality of thermo-insulation, and as the case may be, repair or removal; – watering the rubbish; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	
Codul Normei Norm Code	AD0014	Demontarea confectiilor metalice: balustrazi, grile, chepenguri etc
Unitate de masura Measuring Unit	m²	Dismantling of metal joinery, balustrades, grids, traps and others
Descriere Description:	<ul style="list-style-type: none"> – desfacerea elementelor de prindere prin taiere cu flacara/polizor unghiular sau desurubare – indepartarea elementelor de sustinere; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – dismantling the fixing elements through cutting with torch/angle grinder or unscrewing out fixing elements; – removing of the fixing elements; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	

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Codul Normei Norm Code	AD0015	Desfacerea placajelor cu dale de la trepte si contratrepte
Unitate de masura Measure Unit	m	Removal of existing stair finishes: tile covering, treads and risers
Descriere Description:	<ul style="list-style-type: none"> – desfacerea placajului treptelor; – desfacerea placajului contratreptelor; – curatarea stratului suport de materialul in exces; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – strip the tile covering, stair treads and risers; – remove the tile covering stair risers; – cleaning the suport layer by supplementary material; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking the works execution. 	
Codul Normei Norm Code	AD0016	Desfacerea invelitorilor din tabla, a asterelei si a elementelor de sarpanta
Unitate de masura Measuring Unit	m²	Dismantling sheet metal roof covering, roof decking and carpentry elements
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei in vederea executarii desfacerilor ; – demontarea invelitorii din tabla; – demontarea asterelei; – demontarea elementelor de sarpanta: pane, grinzi, popi, cosoroabe etc; – protejarea construcției prin instalarea unor acoperiri temporare, după caz. – evacuarea materialului lemnos si a deseurilor intr-un depozit intermediar; – stivuirea materialului lemnos in vederea recuperarii celui de valoare ; – transportul molozului in locul autorizat. <hr/> <ul style="list-style-type: none"> – mounting and maintaining of the scaffold, in order to dismantle – dismantling the sheet metal covering, – dismantle carpentry: roof boarding, framework elements, purlins, beams, vertical posts, wall plates and others; – provide temporary roof covers, if needed, – evacuation of wooden material and rubbish into an intermediate store; – racking the wooden material for recuperation; – transport of the rubbish to an authorised dump site. 	

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Codul Normei Norm Code	AD0016a	Reparatii sarpanta prin inlocuirea elementelor deteriorate: <ul style="list-style-type: none"> - capriori; - contrafise; - cleste; - popi; - coame si pane; - stalpi; - dublare caprior intre 2 reazeme.
Unitate de masura Measuring Unit	m²	Roof framing repairs by replacing the deteriorated elements: <ul style="list-style-type: none"> - rafters; - counterbraces; - collar ties; - vertical posts; - ridge beams and purlins; - beams; - doubling the rafter between 2 bearings
Descriere Description:	<ul style="list-style-type: none"> - montarea si utilizarea schelei in vederea executarii desfacerilor - demontare elemente deteriorate; - instalarea elementelor noi; - evacuare in depozit intermediar; - sortare material in vedere recuperarii (daca este cazul); - transport in locul autorizat. <hr/> <ul style="list-style-type: none"> - mounting and maintaining of the scaffold, in order to dismantle elements - dismantling the deteriorated elements; - installation of new elements; - evacuation to intermediate storage; - material sorting for recuperation (if this is the case); - rubbish transport to an authorized dump site. 	
Codul Normei Norm Code	AD0017	Desfacerea burlanelor si jgheaburilor din tabla zincata
Unitate de masura Measuring Unit	m	Dismantling the gutters and rainwater down pipes made of galvanised steel sheet
Descriere Description:	<ul style="list-style-type: none"> - montarea si utilizarea schelei in vederea executarii desfacerii - demontarea carligelor si a altor elemente de fixare; - demontarea jgheaburilor; - demontarea burlanelor; - evacuarea deseurilor intr-un depozit intermediar; - incarcarea deseurilor in auto in vederea transportului in locul autorizat; - transportul molozului in locul autorizat. 	

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<ul style="list-style-type: none"> – mounting and maintaining of the scaffold, in order to dismantle elements – dismantling the brackets, fasteners and others fixing elements; – dismantling the gutters; – dismantling down pipes; – evacuation of the rubbish to an intermediate store; – loading of the rubbish onto a vehicle for transport to an authorised dump site; – transport of the rubbish to an authorized dump site. 		
Codul Normei Norm Code	AD0018	Desfacerea tavanelor false din tencuieli pe plasa de rabit
Unitate de masura Measuring Unit	m²	Demolishing false ceilings made of plaster on rabbit mesh
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei de interior, in vederea executarii desfacerii tavanului fals: – desfacerea tencuielii; – indepartarea plasei de rabit si a elementelor de sustinere: plasa STNB, confectione metalica etc; – evacuarea materialelor ce se recupereaza si a deseurilor intr-un depozit intermediar; – stivuirea materialului recuperat; – demontarea si indepartarea schelei; – transportul molozului in locul autorizat. <hr/> <ul style="list-style-type: none"> – mounting scaffolding for interior use, in order to take out the false ceiling; – demolishing of the plaster; – removing of the rabbit mesh and support elements: STNB point-welded steel mesh, metal assemblies and others; – evacuation of materials that will be recuperated and rubbish into an intermediate store; – racking of the recuperated material; – dismantling and removing of the scaffold; – transport of the rubbish to an authorized dump site. 	

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Codul Normei Norm Code	AD0019	Desfacerea tavanelor false din alte materiale decat tencuieli pe rabit
Unitate de masura Measuring Unit	m²	Dismantling false ceilings made of any materials other than plaster on rabitz mesh
<p>Descriere Description:</p> <ul style="list-style-type: none"> – montarea schelei de interior, in vederea executarii desfacerii tavanului fals; – desfacerea elementelor tavanelor false: placi gips carton, placi gips carton casetate, baghete din lemn, placi PFL sau PAL etc; – indepartarea elementelor de sustinere: plasa STNB, confectione metalica etc; – evacuarea materialelor ce se recupereaza si a deseurilor intr-un depozit intermediar; – stivuirea materialului recuperat; – demontarea si indepartarea schelei; – transportul molozului in locul autorizat. <hr/> <ul style="list-style-type: none"> – mounting of a scaffold for interior use, to remove the false ceiling; – dismantling the elements of false ceilings: gypsum board, cassette panels, wood beads, oriented strand board (PFL) or laminated chipboard (PAL) panels etc.; – removing the support elements: STBN type point-welded steel mesh, metal assemblies; – evacuation of materials that will be recuperated and rubbish into an intermediate store; – racking of the recuperation material; – dismantling and removing the scaffold; – transport of the rubbish to an authorised dumping site. 		

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Codul Normei Norm Code	AD0020	Revizuirea ferestrelor existente din PVC/aluminu
Unitate de masura Measuring Unit	m²	Checking of integrity and function of existing PVC/aluminum frame for windows and replacement of deteriorated parts
Descriere Description:	<ul style="list-style-type: none"> – revizuirea incastrarii tamplariei in zidarie ; – revizuirea cercevelor mobile si a integritatii lor, cu eventuale inlocuiri; – verificarea garniturilor de etansare; – verificarea calitatii geamului termopan si inlocuirea celor deteriorate; – verificarea sistemului de inchidere ; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – control and repair of the joinery fixing in the masonry; – control of the mobile casements and their integrity, with occasional replacements if needed; – checking of the sealant strips; – checking the quality of thermopane glazing and replacement of the deteriorated ones; – checking of the closing gear; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution. 	
Codul Normei Norm Code	AD0020a	Inlocuire geam la ferestrele din PVC sau aluminium existente cu geam laminat
Unitate de masura Measuring Unit	m²	Replacing existing thermopane glazing for PVC or aluminium windows with laminated safety glass
Descriere Description:	<ul style="list-style-type: none"> – procurare materiale; – transport si manipulare materiale; – demontarea garniturilor si a geamului; – montare geam tip; – montare garnituri; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – materials supply; – material transport and handling; – dismantling of the window gasket and glazing; – mounting glazing type ; – mounting of window gaskets; – cleaning of the work site and vertical and horizontal transport of the rubbish – checking of the material quality and works execution. 	

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Codul Normei Norm Code	AD0021	Desfacere lambriuri la pereti
Unitate de masura Measuring Unit	m²	Dismantling of wall cladding
Descriere Description:	<ul style="list-style-type: none"> – desfacere lambriruri din lemn la pereti –frizuri (rigle), baghete din lemn sau PVC, placi PFL sau PAL si plinte; – indepartarea elementelor de sustinere schelet de lemn de rasinoase, scoaterea cuielei si dibluri de lemn; – evacuarea materialelor ce se recupereaza si a deseurilor intr-un depozit intermediar; – stivuirea materialului recuperat; – transportul molozului in locul autorizat. <hr/> <ul style="list-style-type: none"> – dismantling of wooden panels on walls – such as friezes (mouldings), wooden or PVC beads, oriented strand board (PFL) or laminated chipboard (PAL) panels and skirtings; – dismantling of the support elements made of wood frame, removal of bonding material and wood dowels; – evacuation of materials that will be recuperated and rubbish into an intermediate store; – racking of the recuperation materials; – transport of the rubbish to an authorized dump site. 	
Codul Normei Norm Code	AD0022	Desfacere glafuri tabla zincata
Unitate de masura Measuring Unit	m²	Removal of galvanized steel sheeting – sills
Descriere Description:	<ul style="list-style-type: none"> – demontarea elementelor de fixare; – desfacerea glafurilor din tabla; – curatarea locului de lucru; – evacuarea deseurilor intr-un depozit intermediar ; – incarcarea tablei in auto in vederea transportului la centrele de colectare deseuri feroase; – transportul desurilor in locul autorizat. <hr/> <ul style="list-style-type: none"> – dismantling the fixing elements; – dismantling zinc-coated sheets; – cleaning the work site; – evacuation of rubbish into an intermediate store; – loading and transport by vehicle of the zinc-coated sheets to a scrap metal collection centre; – transport of the rubbish to an authorised dump site. 	

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Codul Normei Norm Code	AD0023	Desfacere placaje din marmura sau similare
Unitate de masura Measuring Unit	m²	Removal of marble slabs/cladding or similar
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si utilajelor necesare desfacerii placajelor si structurilor de sustinere a acestora; – montarea schelei in vederea executarii desfacerii placajelor din marmura sau similare; – desfacerea elementelor de sustinere a placajelor din marmura sau similare: structuri metalice complexe, ancore sau buloane, materiale adezive; – indepartarea elementelor demolate, evacuarea materialelor ce se recupereaza si a deseurilor intr-un depozit intermediar; – stivuirea materialului recuperat; – demontarea si indepartarea schelei; – transportul molozului in locul autorizat. <hr/> <ul style="list-style-type: none"> – supply of the necessary tools for dismantling of slabs/cladding and their sustaining structure; – mounting of scaffold for removal of wall cladding made of marble or similar material; – dismantling of sustaining elements for marble slabs/plates or similar, complexe metallic structures, anchorages or screws, adhesive materials; – removal of damaged elements, materials and rubbish evacuation that will be recuperated in an intermediate store; – recuperated material racking; – scaffold demounting and removal; – rubbish transport to the authorised dump site. 	
Codul Normei Norm Code	AD0024	Desfacere profile sau ornamente trase pe loc cu sablonul
Unitate de masura Measuring Unit	m²	Dismantling of profiles or other manufactured ornaments
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si utilajelor necesare desfacerii profilelor si/sau a ornamentelor trase pe loc cu sablonul; – montarea schelei, după caz, in vederea executarii desfacerii profilelor si/sau a ornamentelor trase pe loc cu sablonul; – desfacerea ancore sau buloane, materiale adezive necesare sustinerii profilelor si/sau a ornamentelor trase pe loc cu sablonul; – indepartarea elementelor demolate, evacuarea materialelor ce se recupereaza si a deseurilor intr-un depozit intermediar; – stivuirea materialului recuperat; – demontarea si indepartarea schelei; – transportul molozului in locul autorizat. 	

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<ul style="list-style-type: none"> – supply of the necessary tools for dismantling of profiles and/or manufactured ornaments; – mounting of scaffold, if necessary, to dismantle the profiles and/or manufactured ornaments; – dismantling anchoring or screws, adhesive materials necessary for sustaining the profiles and/or manufactured ornaments; – removal of damaged elements, evacuation of materials for recuperation and rubbish to an intermediate store; – recuperated material racking; – scaffold demounting and removal; – rubbish transport to an authorised dump site 		
Codul Normei Norm Code	AD0025	Desfacere pardoselii degradat din covor PVC
Unitate de masura Measuring Unit	m²	Removal of deteriorated PVC floor covering
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si utilajelor necesare desfacerii pardoselilor din covor PVC; – desfacerea pardoselii din covor PVC degradat; – evacuarea materialelor si a deseurilor intr-un depozit intermediar; – transportul molozului in locul autorizat. 	
	<ul style="list-style-type: none"> – supply of the necessary tools for removal of PVC floor covering; – removal of the deteriorated PVC floor covering; – materials and rubbish evacuation into an intermediate store; – rubbish transport to an authorised dump site. 	
Codul Normei Norm Code	AD0026	Desfacere invelitori din tigla ceramica
Unitate de masura Measuring Unit	m²	Removing burnt clay roof tile covering
Descriere Description:	<ul style="list-style-type: none"> – procurare, montare și utilizare schele – demontarea elementelor de fixare – desfacerea placilor de tigla – curatarea locului de munca – transport si manipularea placilor de tigla pe orizontala si verticala; – demontare schelă și stocare în șantier – Incarcare si transport auto a materialului rezultat la locul de depozitare autorizat – verificarea lucrarilor executate. 	

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<ul style="list-style-type: none"> – provision, mounting and maintaining of scaffold; – manual dismantling of fixing elements; – removing of roof tiles; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish resulted; – dismantling of scaffold and storage on site; – loading and transport by vehicle of the rubbish to an authorized dump site; – checking of the works execution. 		
Codul Normei Norm Code	AD0126	Demolare sobe
Unitate de masura Measuring Unit	buc/piece	Stoves dismantling
Descriere Description:	<ul style="list-style-type: none"> – demolare sobe cu mijloace manuale; – curatare, transport material recuperate intr-un deposit intermediary, stivuire; – transport moloz la locul autorizat. 	
	<ul style="list-style-type: none"> – stove dismantling; – cleaning, transport of the reusable material to the intermediate storage, stacking; – transport of the rubbish to an authorized dump site. 	

2.2. LUCRARI DE REPARATII / REPAIR WORKS		
Codul Normei Norm Code	AR0001	Reparatii tencuieli driscuite executate la pereti cu mortar de tencuiala M10T
Unitate de masura Measuring Unit	m²	Repair of walls smoothed plaster executed with M10T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – spalarea zugravelii existente; – desfacerea tencuielilor deteriorate în zonele afectate si deschiderea rosturilor dintre caramizi; – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere în opera; – prepararea materialelor în vederea punerii în opera; – pregatirea suprafetelor, inclusiv udarea cu apa; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei tencuielii în zonele afectate; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului în locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – washing of the existing painting; – cutting of the deteriorated plaster at the affected patches and raking of the joints between the bricks; – supply necessary materials for repair, including handling and transport to the point of use on site; – preparing the materials to be used for the works; – preparing the surfaces, including watering; – remixing the mortar by introducing the cement additives, burnt lime and any other necessary materials; – manual repair of the plaster in patches; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorised dump site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0002	Reparatii tencuieli driscuite executate la tavane cu mortar de tencuiala M25T
Unitate de masura Measuring Unit	m²	Repair of smoothed plaster executed on ceilings with M25T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei, inclusiv demontarea ei. – spalarea zugravelii existente; – desfacerea tencuielilor deteriorate în zonele afectate; – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – pregatirea suprafetelor, inclusiv udarea cu apa; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei tencuielii ; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – mounting and maintaining scaffold, including dismantling after completion of works. – washing of the existing painting; – cutting of the deteriorated plaster at the affected patches; – supply the necessary materials for the repairs, including handling and transport to the point of use on site; – preparing the materials to be used for the works; – preparing the surfaces, including watering; – remixing the mortar by introducing cement admixtures, burnt lime and any other necessary materials; – manual repair of the plaster in patches; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorised dump site; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0003	Reparatii tencuieli interioare sclivisite executate la pereti, cu mortar de tencuiala M100T
Unitate de masura Measuring Unit	m²	Repair of interior smoothed wall plastering with M100T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – desfacerea tencuielilor deteriorate în zonele afectate si deschiderea rosturilor dintre caramizi; – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – pregatirea suprafetelor, inclusiv udarea cu apa; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei tencuielii în zonele afectate ; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – cutting of the deteriorated plaster at the affected patches and raking the joints between the bricks; – supply of the necessary materials for repair, including handling and transport to the point of use on site; – preparing the materials to be used in the works; – preparing the surfaces, including watering; – remixing the mortar by introducing cement admixtures, burnt lime and any other necessary materials; – manual repair of plaster in patches; – cleaning the work site; – horizontal and vertical transport and handling the rubbish; – loading and transport by vehicle of the rubbish to an authorised dump site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0004	Zugraveli cu lapte de var la pereti si tavane, inclusiv gletul de var
Unitate de masura Measuring Unit	m²	Painting of walls and ceilings with lime whitewash, including prior lime skim coating
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi zugravite, inclusiv slefuirea gletului; – zugravirea suprafetelor cu solutie de var sau huma de calitate si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparing of surfaces through cleaning from dust and any other undesirable matter; – manufacturing, assembling and maintaining of scaffolds or work platforms; – supply of materials according to Technical Specifications and specific technical prescriptions for the used materials; – skim coating with lime putty of the surfaces to be covered, including smoothing; – lime-washing of the surfaces with lime solution in quality and colour as required by the Technical Specifications and Detailed Design; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of materials from the work site; – checking the quality of the materials and the works execution. 	
Codul Normei Norm Code	AR0005	Vopsitorie executata cu vopsea lavabila la pereti si tavane, inclusiv gletul de ipsos
Unitate de masura Measuring Unit	m²	Painting works executed with washable/emulsion paint on walls and ceilings, including prior gypsum skim coating
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi vopsite, inclusiv slefuirea gletului; – vopsirea cu vopsea lavabila de calitate si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – preparation of the surfaces through cleaning from dust and any other undesirable matter; – manufacturing, assembling and maintaining of scaffolds or work platforms; – supply the materials according to the Technical Specifications and specific technical prescriptions for the used materials; – skim coating of the surfaces to be covered, including smoothing; – painting with washable/emulsion paint in quality and colour as required by the Technical Specifications and Detailed Design; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of materials from the work site; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	AR0006	Reparatii tencuieli exterioare speciale executate cu piatra artificiala similipiatra, in camp continuu
Unitate de masura Measuring Unit	m²	Repair of special exterior plaster executed with fine aggregate crushed stone (stone-like finish), on continuous surfaces
Descriere Description:	<ul style="list-style-type: none"> – montarea si utilizarea schelei tubulare sau autoridicatoare, conform tehnologiei adoptate – desfacerea tencuielilor deteriorate în zonele afectate si deschiderea rosturilor dintre caramizi; – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – pregatirea suprafetelor, inclusiv udarea cu apa; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a tencuielii în zonele afectate, inclusiv finisajul; – demontarea si indepartarea schelei; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – mounting and maintaining of the tubular or autolifter scaffold, according to the adopted technology; – cutting of deteriorated plaster at the affected patches and raking of the joints between bricks; – supply necessary materials for repair, including handling and transport to the point of use on site; – preparation of materials to be used in the works; – surface preparation, including watering; – remixing of the mortar by introducing cement admixtures, burnt lime and any other necessary materials; – manual coating in patches, including finishing layer; – dismantling and removing of the scaffold; – cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorised dump site; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	AR0007	Reparatii pardoseli din parchet, inclusiv raschetatul si lacuitul
Unitate de masura Measuring Unit	m²	Repair of the parquet floor, including scraping with sandpaper and varnishing
Descriere Description:	<ul style="list-style-type: none"> – desfacerea portiunilor deteriorate, inclusiv a portiunii incastrate; – indepartarea stratului de palux existent – procurarea materialelor necesare executarii reparatiei; – executarea reparatiei pardoselii prin inlocuirea elementelor de parchet deteriorate; – raschetarea suprafetei; – lacuirea suprafetei de parchet; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – removing of deteriorated parts, including embedded parts; – scaling off the existing varnish coat; – supply materials necessary for repair; – repair of floor by replacing the deteriorated parquet elements; – scraping/sanding of the surfaces; – re-varnishing parquet surfaces; – protecting the surfaces until completion of all works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of rubbish from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0008	Reparatii pardoseli din placi mozaicate si a plintelor sau scafelor
Unitate de masura Measuring Unit	m²	Repair of the terrazzo floor tiling and, straight or coved skirting
Descriere Description:	<ul style="list-style-type: none"> – desfacerea portiunilor deteriorate, inclusiv a portiunii incastrate; – procurarea materialelor necesare executarii reparatiei: placi mozaicate, plinte etc; – executarea reparatiei pardoselii prin inlocuirea elementelor deteriorate; – ceruirea si lustruirea pardoselilor si a plintelor; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – removal of deteriorated parts, including embedded parts; – supply materials necessary for the repair: terrazzo tiles, straight or coved skirting – repair of the floor by replacing the deteriorated elements; – waxing and polishing the floor and skirting; – protecting of the surfaces until completion of all works; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of rubbish from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	AR0009	Reparatii executate la trepte si contratrepte executate cu placi mozaicate, inclusiv a plintelor si a muchiilor stirbite
Unitate de masura Measuring Unit	m	Repair of stairs, including treads and risers, executed in terrazzo tiles, including skirting and broken edges
Descriere Description:	<ul style="list-style-type: none"> – desfacerea portiunilor deteriorate, inclusiv a portiunii incastrate; – procurarea materialelor necesare executarii reparatiei: placi mozaicate, plinte etc; – executarea reparatiei treptelor prin inlocuirea elementelor deteriorate; – ceruirea si lustruirea treptelor si a plintelor ; – protejarea suprafetei pana la terminarea tuturor lucrarilor ; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor.. 	
	<ul style="list-style-type: none"> – removal of the deteriorated parts, including embedded parts; – supply the materials necessary for repair: terrazzo tiles, skirting; – repair of stairs by replacing the deteriorated parts; – waxing and polishing the steps and skirting; – protection of the surfaces until completion of all works; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of rubbish from the work site; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0010	Inlocuirea mainii curente din PVC la balustrazile metalice
Unitate de masura Measuring Unit	m	Replacing of the PVC handrail cover on metal balustrades
Descriere Description:	<ul style="list-style-type: none"> – desfacerea portiunilor deteriorate sau desprinse de pe balustrazi; – procurarea materialelor necesare executarii reparatiei; – executarea inlocuirii mainii curente din PVC cu cea noua; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor; <hr/> <ul style="list-style-type: none"> – removal of the deteriorated parts or those already detached from handrails; – supply the materials necessary for repair; – replace the existing PVC cover with a new one; – horizontal and vertical transport and handling of the resulting rubbish; – checking the quality of the materials and the works execution. 	
Codul Normei Norm Code	AR0011	Executare, grunduire si vopsirea suprafetelor confectiilor metalice, inclusiv curatarea vopselei existente
Unitate de masura Measuring Unit	m²	Pre-painting and painting of metal joinery/assembly surfaces, including stripping of the existing paint
Descriere Description:	<ul style="list-style-type: none"> – decopertarea vopselei deteriorate prin ardere/chimic; – curatarea cu peria de sarma a vopselei arse si a celei deteriorate; – slefuire suprafetelor si grunduirea in vederea executarii vopsitoriei; – procurarea materialelor necesare executarii vopsitoriei; – executarea vopsitoriei in culoarea si indicatiile din proiectul tehnic ; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – stripping with hot air fan or chemicals of existing paint layer – stripping with wirebrush of the burnt/softened or already deteriorated paint; – polishing and priming of the surfaces to be painted; – supply materials necessary for painting; – painting in a colour as indicated in the Detailed Design ; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0012	Reparatii pardoseli din mozaic turnate in camp continuu
Unitate de masura Measuring Unit	m²	Repair of in-situ cast terrazzo in continuous surfaces
Descriere Description:	<ul style="list-style-type: none"> – desfacerea portiunilor deteriorate, inclusiv a portiunii incastrate; – procurarea materialelor necesare executarii reparatiei: terazzo de aceeaasi culoare si tip si dimensiune cu cel existent, etc; – executarea reparatiei pardoselii si refacerea pardoselii in acelasi model cu cea existenta; – ceruirea si lustruirea pardoselii si a plintelor; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – demolition of the deteriorated parts, including embbeded parts; – supply materials necessary to repair: terrazzo of the same colour, type and grain dimensions as the existing, etc.; – repair of floor and remaking the floor in the same way as the existing; – waxing and polishing the floor and skirtings; – protection of the surface until completion of all works; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of the rubbish from the work site; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AR0013	Reparatii tencuieli exterioare speciale impartite in assize adanci si profilate, inclusiv schele si vopsitorie lavabila de exterior
Unitate de masura Measuring Unit	m²	Repair of exterior special plaster subdivided by deep and profiled recesses, including scaffold and washable/emulsion paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – montarea schelei pentru executarea lucrarilor pe fatada; – verificarea calitatii tencuielii existente pentru determinarea suprafetelor degradate; – confectionarea sabloanelor, respective a negativelor dupa modelul existent; – desfacerea tencuielilor deteriorate si deschiderea rosturilor dintre caramizi; – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – pregatirea suprafetelor, inclusiv udarea cu apa; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei tencuielii, a reparatiei asizelor si a profilelor adancite; – rectificarea generala a suprafetelor de tencuiala aflate in stare buna; – executarea vopsitoriei lavabile de exterior conform indicatiilor din proiectul tehnic si caietele de sarcini; – curatarea locului de munca; – demontarea si indepartarea schelei de fatada; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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- mounting the scaffold to execute façade works;
- checking the quality of existing plaster to determine the deteriorated areas;
- execution of braces, and recesses in same way as the existing;
- demolition of the deteriorated plaster and raking of the joints between bricks;
- supply necessary materials for repair, including handling and transport to the point of use on site;
- preparation of the materials to be used;
- preparation of the surfaces, including watering;
- remixing the mortar by introducing cement admixtures, burnt lime and any other necessary materials;
- manual repair of plaster, deep recesses and profiles;
- general repair of plaster areas in good situation;
- execution of washable/emulsion paint coat for exterior use according requirements of Technical Design and Technical Specifications;
- cleaning of work site;
- dismantling and removing of scaffold;
- transport and handling the rubbish resulted by horizontal and vertically;
- cleaning and transport the rubbish tfrom work site;
- checking the quality materials and the works execution.

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Codul Normei Norm Code	AR0014	Reparatii profile exterioare la cornise si brauri executate cu mortar M50T, inclusiv vopsitoria lavabila de exterior
Unitate de masura Measuring Unit	m	Repair of exterior profiles at cornices and scorings executed with M50T type mortar, including washable/emulsion paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – montarea schelei pentru executarea lucrarilor pe fatada; – verificarea calitatii profilelor existente pentru determinarea suprafetelor degradate; – confectionarea sabloanelor, respective a negativelor dupa modelul existent; – desfacerea profilelor deteriorate si a elementelor de sustinere (rabituri, armaturi etc); – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – reconstituirea profilului cornisei sau a braului conform detaliilor prin executarea sustinerilor cu armaturi, rabituri si cofraje; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei profilelor; – rectificarea generala a suprafetelor de profile aflate in stare buna; – executarea vopsitoriei lavabile de exterior conform indicatiilor din proiectul tehnic si caietele de sarcini; – curatarea locului de munca; – demontarea si indepartarea shelei de fatada; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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- mounting of the scaffold to execute the faade works;
- checking of the existing quality of profiles, in order to determine the deteriorated areas;
- execution of mouldings and recesses the same way as the existing;
- dismantling of the deteriorated profiles and supporting elements (rabitz plastering, reinforcements etc.);
- supply of the materials necessary for repair, including handling and transport to the point of use on site;
- preparation of material to be used for the works;
- reconstitution of cornice profiles and scorings according to the details, supported with reinforcements, rabitz plastering and casings;
- remixing of the mortar by introducing cement admixtures, burnt lime and any other necessary materials;
- manual repair of profiles;
- general brushing-up of plastered areas still in good condition;
- execution of washable/emulsion paint for exterior use, according to the requirements of the Technical Design and Technical Specifications;
- cleaning of the work site;
- dismantling and removing of scaffold;
- horizontal and vertical transport and handling of the resulting rubbish resulted;
- cleaning and transport the rubbish from the work site;
- checking the quality of the materials and the works execution.

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Codul Normei Norm Code	AR0015	Reparatii profile exterioare la solbancuri executate cu mortar M50T, inclusiv vopsitoria lavabila de exterior
Unitate de masura Measuring Unit	m	Repair of mouldings at exterior windowsills executed with M50T type mortar including washable/emulsion paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – montarea schelei pentru executarea lucrarilor pe fatada; – verificarea calitatii profilelor existente pentru determinarea suprafetelor degradate; – confectionarea sabloanelor, respective a negativelor dupa modelul existent; – desfacerea profilelor deteriorate si a elementelor de sustinere (rabituri, armaturi etc); – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – reconstituirea profilului solbancului conform detaliilor prin executarea sustinerilor cu armaturi, rabituri si cofraje; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei profilelor; – rectificarea generala a suprafetelor de profile aflate in stare buna; – executarea vopsitoriei lavabile de exterior conform indicatiilor din proiectul tehnic si caietele de sarcini; – curatarea locului de munca ; – demontarea si indepartarea schelei de fatada ; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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- mounting of the scaffold to execute the faade works;
- checking of the quality of existing mouldings to determine the deteriorated areas;
- execution of the mouldings and recesses same way as the existing;
- dismantling of the deteriorated mouldings and supporting elements (rabitz plastering, reinforcement etc.);
- supply the necessary materials to repair, including handling and transport to the point of use on site;
- preparation of materials to be used in the works;
- reconstitution of windowsill according to the details, supported by reinforcements, rabitz plastering and casings;
- remixing of the mortar by introducing cement admixtures, burnt lime and any other necessary materials;
- manual repair of the mouldings;
- general brushing-up of plastered areas still in good situation
- painting with washable/emulsion paint for exterior use, according to the requirements of the Technical Design and the Technical Specifications;
- cleaning of work site;
- dismantling and removing of scaffold;
- horizontal and vertical transport and handling of the resulting rubbish;
- cleaning and transport of the rubbish from work site;
- checking the quality of the materials and the works execution.

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Codul Normei Norm Code	AR0016	Reparatii profile exterioare la ancadramente executate cu mortar M50T, inclusiv vopsitoria lavabila de exterior
Unitate de masura Measuring Unit	m	Repair to exterior mouldings at door and window dressings executed in M50T mortar, including washable/emulsion paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – montarea schelei pentru executarea lucrarilor pe fatada; – verificarea calitatii profilelor existente pentru determinarea suprafetelor degradate; – confectionarea sabloanelor, respective a negativelor dupa modelul existent; – desfacerea profilelor deteriorate si a elementelor de sustinere (rabituri, armaturi etc); – aprovizionarea materialelor necesare executarii reparatiilor, manipularea lor si transportul la punctul de punere in opera; – prepararea materialelor in vederea punerii in opera; – reconstituirea profilului ancadramentului conform detaliilor prin executarea sustinerilor cu armaturi, rabituri si cofraje; – reamestecarea mortarului si introducerea adaosului de ciment, ipsos si celelalte materiale necesare; – executarea manuala a reparatiei profilelor; – rectificarea generala a suprafetelor de profile aflate in stare buna; – executarea vopsitoriei lavabile de exterior conform indicatiilor din proiectul tehnic si caietele de sarcini; – curatarea locului de munca; – demontarea si indepartarea schelei de fatada; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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- mounting of the scaffold to execute the faade works;
- checking of the quality of existing mouldings to determine the deteriorated areas;
- execution of the mouldings and recesses the same way as the existing;
- dismantling of the deteriorated mouldings and supporting elements (rabitz plastering, reinforcement etc.);
- supply the materials necessary for repair, handling and transport to the point of use on site;
- preparation of the materials to be used in the works;
- reconstitution of plaster dressings around door and window openings according to the details, supported by reinforcements, rabitz plastering and casings;
- remixing of the mortar by introducing cement admixtures, burnt lime, and any other necessary materials;
- manual repair of plaster dressings;
- general brushing-up of plastered areas still in good condition
- painting with washable/emulsion paint for exterior use, according to the requirements of the Technical Design and Technical Specifications;
- cleaning of the work site;
- dismantling and removing of scaffold;
- horizontal and vertical transport and handling of the resulting rubbish;
- cleaning and transport of the rubbish from work site;
- checking of the quality of the materials and the works execution.

Codul Normei Norm Code	AR0017	Raschetatul si lacuitul pardoselilor din parchet
Unitate de masura Measuring Unit	m²	Scraping and polishing of parquet floor
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor necesare executarii reparatiei; - raschetarea suprafetei de pardoseala din parchet; - lacuirea suprafetei de parchet ; - protejarea suprafetei pana la terminarea tuturor lucrarilor ; - transportul si manipularea materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - supply the necessary materials for repair; - scraping/sanding of the parquet surface; - polishing of the parquet surface - surface protection until completion of all works; - horizontal and vertical transport and handling of the materials; - cleaning and transport of rubbish from work site; - checking the material quality and works execution. 	

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Codul Normei Norm Code	AR0018	Vopsitorie executata cu vopsea acrilica la pereti, inclusiv gletul de ipsos
Unitate de masura Measuring Unit	m²	Painting works executed with acrylic paint on walls, including gypsum skim coat
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi vopsite, inclusiv slefuirea gletului; – vopsirea cu vopsea acrilica de calitate si culoarea stabilita in proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of surfaces by cleaning from dust and any other undesirable matter; – manufacturing, mounting and maintaining of scaffolds or of work platforms; – supply materials according to Technical Specifications and specific technical prescriptions for the used materials; – skim coat on the surfaces to be covered, including smoothing; – painting with acrylic paint in the quality and colour as per Detailed Design; – horizontal and vertically transport and handling of the resulting rubbish; – cleaning and transport of materials from the work site; – checking the quality of the materials and the works execution. 	
Codul Normei Norm Code	AR0019	Reparatii la elemente de beton degradate
Unitate de masura Measuring Unit	m²	Repair of damaged concrete elements
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin buciardare, curatarea de praf si alte impuritati; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – chituirea cu mortare modificate cu aderenta crescuta si fara contractii in timpul intaririi; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – preparation of the concrete surface by bush-hammering, and cleaning from dust and any other undesirable matter; – manufacturing, assembling and maintaining of scaffolds or of work platforms; – supply the materials according to the Detailed Design and design mix for the used materials; – patching-up with modified mortar of an increased adhesion and without contraction; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of materials from the work site; – checking the quality of the materials and the works execution. 		
Codul Normei Norm Code	AR0020	Strat termoizolant cu saltele vata minerala de 100 mm si bariera contra vaporilor cu 1 strat impaslitura tip IA (împâslitură asfaltată)
Unitate de masura Measuring Unit	m²	Thermo-insulation layer with mineral wool blanket or panel, 100 mm thickness, with vapour barrier of felt type IA (tarry glass-fibre felt)
Descriere Description: <ul style="list-style-type: none"> – curatarea stratului suport, aplicarea materialelor semirigide, a adezivilor; – aplicarea stratului semirigid bariera contravaporilor; – verificarea materialelor puse in opera si a executarii lucrarii. 		
<ul style="list-style-type: none"> – cleaning the layer support, semi-rigid materials and adhesives application; – applying the semi-rigid vapour barrier ; – checking of the materials put into the works and works execution . 		
Codul Normei Norm Code	AR0021	Reparatii plinte inclinate sau in trepte la scari
Unitate de masura Measuring Unit	m	Repair of skirtings, inclined or on steps of stairs
Descriere Description: <ul style="list-style-type: none"> – procurarea sculelor, accesoriilor si a materialelor necesare realizarii reparatiilor la plinte inclinate sau trepte de scari; – prepararea si aplicarea cu mijloace manuale a materialului necesar reparatiilor, la culoarea initiala a stratului support; – verificarea materialelor puse in opera si a executarii complete a reparatiilor la plinte inclinate sau trepte de scari. 		
<ul style="list-style-type: none"> – supply tools, accessories and materials necessary for repair on skirtings, inclined or on stairs; – manual preparation and use of the materials necessary for repair in the same colour as the support layer; – checking of the materials used and of the completeness of the repair of the skirtings, inclined or on stairs. 		

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Codul Normei Norm Code	AR0028	Ceruire si lustruire pardoseli din mozaic (plinte si scafe)
Unitate de masura Measuring Unit	m²	Polishing and waxing of terrazzo floors (including straight and coved skirtings)
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor, accesoriilor si a materialelor necesare realizarii ceruirii si lustruirii pardoselilor din mozaic turnat; – prepararea si aplicarea cu mijloace manuale a materialului necesar ceruirii si lustruirii pardoselilor din mozaic turnat; – verificarea materialelor puse in opera si a executarii complete a ceruirii si lustruirii pardoselilor din mozaic turnat. <hr/> <ul style="list-style-type: none"> – supply tools, accessories and materials necessary for polishing and waxing of terrazzo floors; – manual preparation and use of the materials necessary for terrazzo floor polishing and waxing; – checking of the materials used and of the complete works concerning polishing and waxing of terrazzo flooring. 	
Codul Normei Norm Code	AR0029	Reparatii invelitori din tigla profilata/solzi inclusiv astereala, straturi hidoizolatie/bariera de vapori, dupa caz
Unitate de masura Measuring Unit	m²	Repair of roof covering – roof tiles including roof decking and waterproofing layers, depending on the case
Descriere Description:	<ul style="list-style-type: none"> – montarea, utilizarea schelei in vederea executarii desfacerilor, inclusiv demontarea acesteia si stocarea in santier; – demontarea invelitorii din tigla si inlocuirea elementelor degradate; – desfacerea si refacerea straturilor de hidroizolatie/bariera de vapori, dupa caz; – demontarea asterelei degradate si inlocuirea acesteia; – protejarea construcției prin instalarea unor acoperiri temporare, si desfacerea acestora dupa terminarea lucrarilor, după caz; – evacuarea materialului lemnos/deseurilor si transportul/descarcarea deseurilor/molozului la locul autorizat. – verificarea executiei lucrarilor <hr/> <ul style="list-style-type: none"> – supply, mounting, maintaining of the scaffold in order to execute the roof works, including dismantling and storage on site; – dismantling of the damaged roof tiles and replacing with new ones; – dismantling and remaking waterproofing/vapour barrier layers, depending on the case; – dismantling damaged roof decking and replacing it; – protective measures for existing building by installing temporary roof covering including removal of it when the works are finished, depending on the case; – loading and transport by vehicle of the rubbish to an authorized dump area – checking of the quality of the materials and the works execution. 	

2.3. LUCRARI NOI / NEW WORKS

2.3.1 LUCRARI DE ZIDARIE / MASONRY WORKS

Codul Normei Norm Code	A00001	Zidarie executata cu caramida presata plina si mortar de zidarie M50Z
Unitate de masura Measuring Unit	m³	Masonry made of pressed solid burnt clay bricks and M50Z type masonry mortar
Descriere Description:	<ul style="list-style-type: none"> – trasarea zidurilor; – procurarea caramizilor, a materialelor pentru ancoraj (bolturi, confectionii metalice, armaturi etc) inclusiv a mortarului conform caietului de sarcini si proiectului tehnic; – executarea zidariei conform planurilor si detaliilor, inclusiv centuri si buiandrugi; – confectionarea, montarea si utilizarea schelelor, daca este cazul; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – walls setting out; – supply bricks, reinforcement materials (bolts, metal anchors, reinforcement steel bars) including mortar according to Technical Specifications and Detailed Design; – execution of masonry according to plans and details, concrete lintels and beams included; – execution, assembling and maintaining of scaffolds, if necessary; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00002	Zidarie executata cu caramida cu goluri verticale si mortar de zidarie M50Z
Unitate de masura Measuring Unit	m³	Masonry made of pressed burnt clay bricks with vertical cavities and M50Z type masonry mortar
Descriere Description:	<ul style="list-style-type: none"> – trasarea zidurilor; – procurarea caramizilor, a materialelor pentru ancoraj (bolturi, confectionii metalice, armaturi etc) inclusiv a mortarului conform caietului de sarcini si proiectului tehnic; – executarea zidariei conform planurilor si detaliilor, inclusiv centuri si buiandrugi; – confectionarea, montarea si utilizarea schelelor, daca este cazul; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – walls pegging/setting out; – supply bricks, materials for reinforcement (bolts, metal anchors, reinforcement steel bars) including mortar according to the Technical Specifications and Detailed Design; – execution of masonry according to plans and details, concrete lintels and beams included; – execution, assembling and maintaining of scaffolds, if necessary; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00003	Zidarie executata din blocuri BCA cu mortar de zidarie M50Z sau mortar recomandat de producator
Unitate de masura Measuring Unit	m³	Masonry made of autoclaved cellular concrete (ACC) blocks and M50Z type masonry mortar or proprietary adhesive
Descriere Description:	<ul style="list-style-type: none"> – trasarea zidurilor; – procurarea blocurilor BCA, a materialelor pentru ancoraj (bolturi, confectionii metalice, armaturi etc), inclusiv a mortarului conform caietului de sarcini si proiectului tehnic; – executarea zidariei conform planurilor si detaliilor, inclusiv centuri si buiandrugi; – confectionarea, montarea si utilizarea schelelor, daca este cazul; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – walls setting out; – supply ACC blocks, materials for reinforcement (bolts, metal anchors, reinforcement steel bars), including mortar according to the Technical Specifications and Detailed Design; – execution of masonry according to plans and details, concrete lintels and beams included; – execution, assembling and maintaining of scaffolds, if necessary; – horizontal and vertical transport and handling the material; – cleaning of the work site and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	A00004	Zidarie executata cu blocuri pline sau cu goluri din beton si mortar de zidarie M50Z
Unitate de masura Measuring Unit	m³	Masonry executed with solid or hollow concrete blocks and M50Z type masonry mortar
Descriere Description:	<ul style="list-style-type: none"> – trasarea zidurilor; – procurarea blocuri din beton, a materialelor pentru ancoraj (bolturi, confectii metalice, armaturi etc), inclusiv a mortarului conform caietului de sarcini si proiectului tehnic; – executarea zidariei conform planurilor si detaliilor, inclusiv centuri si buiandrugi; – confectionarea, montarea si utilizarea schelelor, daca este cazul; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – walls setting out; – supply concrete blocks, materials for reinforcement (bolts, metal anchors, reinforcement steel bars), including mortar according to Technical Specifications and Detailed Design; – execution of masonry according to plans and details, concrete lintels and beams included; – execution, assembling and maintaining of scaffolds, if necessary; – horizontal and vertical transport and handling the material; – cleaning of the work site and horizontal and vertical transport of the resulting rubbish; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00114	Consolidare pereti de zidarie
Unitate de masura Measuring Unit	m²	Consolidation of masonry walls
<p>Descriere Description:</p> <ul style="list-style-type: none"> – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – pregatirea suprafetelor prin buciardare, se adâncesc rosturile zidăriei pe o adâncime de 15-20 mm, curatarea de praf prin suflare cu aer comprimat si spalarea suprafetei; – forare mecanica a gaurilor pentru introducerea cupoanelor de fixare a plasei; – camasuire cu beton torcretat cu grosime de 6 cm; – udarea betonului și protejarea betonului cu folii pantru a asigura conditii normale de intarire; – tencuiala sclivisita; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – manufacturing, assembling and maintaining of scaffolds or of work platforms; – supply the materials according to Technical Specifications and specific technical prescriptions for the used materials; – preparation of surfaces through bush-hammering of masonry, scraping mortar in joints 15-20 mm deep, dust cleaning with air jet and washing of surfaces; – mechanical drilling of holes and fixing of welded steel nets; – coating with shotcrete 6 cm thickness; – protecting shotcrete against premature drying out, protecting shotcrete with foil to ensure normal conditions for concrete strengthening; – plastering; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of materials from work site; – checking the quality of the materials and the works execution. 		

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2.3.2 PERETI DESPARTITORI / PARTITION WALLS		
Codul Normei Norm Code	A00005	Pereti despartitori executati din gipscarton pe structura metalică simplu placați pe ambele fețe
Unitate de masura Measuring Unit	m²	Partition walls made of gypsum board one layer on either of side, metallic frame included
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, saltele din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; – fixarea saltelelor din vata minerala; – fixarea placilor de gipscarton pe fiecare parte a peretilor despartitori, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor, pregatirea de vopsire; – procurare vopsea lavabila; – vopsitorie cu vopsea lavabila; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – partition setting out; – supply gypsumboard panels, material for assembling (metal sections, bolts, blankets of mineral wool, self-adhesive tape) and cutting into dimensions as required by Technical Specifications and Detailed Design; – assembling of the metal profiles in the positions indicated in plan and anchoring to the loadbearing structural elements; – mounting of the metal profiles for doors frames in sizes and at positions indicated in the plans and fixing to the main profiles; – fixing of the mineral wool blankets; – fixing of the gypsumboard panels on either side of the partition walls, according to plans and details; – filling the joints with proprietary joint compound, finishing/preparing surface for painting; – supply washable/emulsion paint; – painting with washable paint; – horizontal and vertical transport and handling of the materials; – cleaning of the site work and horizontal and vertically transport of the resulting rubbish; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00006	Pereti despartitori din gipscarton 2x2x12,5 mm rezistenti la umiditate, pe suporturi metalici si vata minerala 50 mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of humidity-proof gypsumboard panels 2x2x12.5mm, on metal supports with mineral wool infill 50mm, including making good of the surfaces
<p>Descriere Description:</p> <ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton rezistente la umiditate, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale ; – fixarea placilor din vata minerala; – fixarea placilor de gipscarton pe fiecare parte a peretilor despartitori, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – rectificarea suprafetelor din gipscarton cu pasta de rectificare, pregatirea pentru vopsire; – procurare si utilizare vopsea lavabila; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – partition setting out; – supply humidity-proof gypsumboard panels, as well as all materials for assembling (metal sections, bolts, blankets/panels by mineral wool, self-adhesive tape etc.) and cutting into sizes, according to the Technical Specifications and Detailed Design; – mounting of the metal frames at the positions indicated in plan and anchoring to the loadbearing structural elements; – mounting of the metal profiles for doors frames in sizes and at positions indicated in the plans and fixing to the main profiles; – fixing of the blankets/panels of mineral wool; – fixing the gypsumboard panels on either side of the partition walls, according to the plans and details; – filling the joints with proprietary joint compound, finishing/preparing surface for painting; – supply washable/emulsion paint and execution of painting works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking the quality of the materials and the works execution. 		

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Codul Normei Norm Code	A00008	Pereti despartitori normali din gipscarton 2x2x12,5 mm, pe suporti metalici si vata minerala 50mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of standard gypsumboard 2x2x12.5m, on metal supports and with mineral wool infill, 50mm, including making good of the surfaces
<p>Descriere Description:</p> <ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; – fixarea placilor din vata minerala; – fixarea placilor de gipscarton pe fiecare parte a peretilor despartitori, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor cu materiale recomandate de producător (bandă și chit); – rectificarea suprafetelor din gipscarton cu pasta de rectificare; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 		
<ul style="list-style-type: none"> – partitions setting out; – supply the gypsumboard panels, materials for assembling (metal sections, bolts, mineral wool blankets/panels, self-adhesive tape etc.), cutting into sizes according to Technical Specifications and Detailed Design; – mounting of metal frames in positions indicated in plan and anchoring to the loadbearing structural elements; – mounting of metal profiles for doors frames in sizes and positions indicated in plans and fixing to the main profiles; – fixing of the mineral wool blankets/panels; – fixing of gypsumboard panels on either side of the partition walls, according to plans and details; – closing of the joints between panels with tape and proprietary joint compound, and sanding of joints; – making good of the surfaces with proprietary joint compound; – supply and use of washable paint; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking the quality of the materials and the works execution. 		

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Codul Normei Norm Code	A00009	Placare pereti normali cu gipscarton 2x12,5 mm, pe suporti metalici si vata minerala 50 mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of standard gypsumboard 2x12.5mm, on metal supports and mineral wool infill, 50mm, including making good of surfaces
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – fixarea placilor din vata minerala; – fixarea placilor de gipscarton pe partea vazuta a peretilor, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – rectificarea suprafetelor din gipscarton cu pasta de rectificare; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of partitions; – supply of the gypsumboard panels and materials for assembling (metal sections, bolts, mineral wool blankets/panels, self-adhesive tape etc.), cutting into the sizes, according to the Technical Specifications and Technical Design; – mounting of metal frames in positions indicated in plan and anchoring to the loadbearing structural elements; – mounting of the metal profiles for doors frame in sizes and positions as indicated in the plans and fixing to the main profiles; – fixing the mineral wool blankets/panels; – fixing the gypsumboard panels on either side of the partition walls, according to plans and details; – closing of the joints between the panels with tape and proprietary joint compound, and sanding of joints; – making good of the surfaces with proprietary joint compound; – supply and use of washable paint; – horizontal and vertical transport and handling of the the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00010	- Pereti panouri sandwich din tabla cutata inclusiv structura metalica si izolatie din spuma poliuretana, fixati cu suruburi autofiletante
Unitate de masura Measuring Unit	m²	- Sandwich partition wall made of metal sheeting, including metallic support structure and Polyurethane foam insulation, fixed with self-drilling screws
<p>Descriere Description:</p> <ul style="list-style-type: none"> - trasarea peretilor; - procurarea panourilor din tabla, a materialelor pentru montaj (profile metalice, suruburi autofiletante etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; - procurarea si montarea prilelelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; - procurarea si montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; - procurarea si fixarea placilor din tabla cutată; - aplicarea spumei poliuretaneice pentru izolare - transportul si manipularea materialelor pe orizontala si pe verticala; - curatarea locului de munca si transportul deseurilor pe verticala si orizontala; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - setting out of the partition walls; - supply sheet metal panels, materials for assembling (metal profiles, self-drilling screws etc.) and cutting into sizes, according to the Technical Specifications and Detailed Design; - providing and mounting of the supporting metal profiles in positions as indicated in plan and anchoring to the loadbearing structural elements; - providing and mounting of the metal profiles for door frames in sizes and positions as indicated in plans and fixing to the main profiles; - providing and fixing of the corrugated sheet sandwich panels; - horizontal and vertical transport and handling of the materials; - cleaning and transport of the materials from the work site; - checking of the quality of the materials and the works execution. 		

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Codul Normei Norm Code	A00012	Pereti interiori despartitori executati din laminat COMPACT sau similar aprobat la grupurile sanitare
Unitate de masura Measuring Unit	m²	Interior partitions for sanitary cells made of laminated panels COMPACT or similar approved
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea peretilor din panou laminat si a materialelor pentru montaj (profile metalice, suruburi autofiletante etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of the partition walls; – supply laminated panels partition walls and of materials for assembling (metal sections, self-drilling screws etc.) and cutting to sizes according to Technical Specifications and Detailed Design; – assembling of the metal frames in positions as indicated in plan and anchoring to the loadbearing structural elements; – assembling of the metal profiles for door frames in sizes and positions as indicated and fixing to the main profiles; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00013	Pereti despartitori normali din gipscarton 2x2x12,5 mm, pe suporti metalici 2x50 mm si vata minerala 2x50 mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of standard gypsumboard 2x2x12.5mm normal, on metal supports 2x50mm and mineral wool blankets 2x50mm, including making good of surfaces
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; – fixarea placilor din vata minerala, cate 2 placi alaturate; – fixarea placilor de gipscarton pe fiecare parte a peretilor despartitori, conform planurilor si detaliilor, cate 2 foi pe fiecare parte; – inchiderea rosturilor dintre placi si chituirea rosturilor; – rectificarea suprafetelor din gipscarton cu pasta de rectificare; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of the partition walls; – supply the gypsumboard panels, assembling materials (metal sections, screws, mineral wool blankets/panels, self-adhesive tape etc.) and cutting into dimensions according to the Technical Specifications and Detailed Design; – assembling of the metal frames in positions indicated in plan and anchorage to the loadbearing structural elements; – assembling of the metal profiles for door frames in sizes and positions as indicated and fixing to the main profiles; – fixing of the the mineral wool blankets/panels, 2 layers together; – fixing of the gypsumboard panels on either side of the partition walls, according to plans and details, 2 times two panels on either side; – closing of the joints between the panels with tape and proprietary joint compound, and sanding of joints; – making good of the surfaces of the gypsumboard panels with proprietary joint compound; – supply paint and execution of washable paint – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00014	Pereti despartitori rezistenti la foc din gips carton 2x2x12,5 mm, pe suporti metalici 1x100 mm si vata minerala 1x50 mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of fireproof gypsumboards 2x2x12.5mm, on metal supports 1x100mm and mineral wool 1x50mm, including making good of surfaces
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gips carton rezistente la foc, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – montarea profilelor metalice pentru cadrele de usi la dimensiunile si pe pozitiile indicate in planuri si fixarea lor in profilele principale; – fixarea placilor din vata minerala; – fixarea placilor de gips carton rezistente la foc cate 2 pe fiecare parte a peretilor despartitori, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – rectificarea suprafetelor din gips carton cu pasta de rectificare; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of partition walls; – supply fireproof gypsumboard panels, of materials for assembling (metal sections, screws, mineral wool blankets/panels, self-adhesive tape etc.) and cutting in sizes according to the Technical Specifications and Detailed Design; – assembling of the metal frames in positions as indicated in plan and anchoring to the loadbearing structural elements; – assembling of the metal profiles of door frames in sizes and positions as indicated in plans and fixing to the main profiles; – fixing of the mineral wool blankets/panels; – fixing of the fireproof gypsumboards panels, two times two layers on either side, according to plans and details; – closing of the joint between the panels with tape and proprietary joint compound, and sanding of joints; – making good of the surfaces of the gypsumboards with proprietary joint compound; – supply paint and execution of washable paint – transport and handling the materials by horizontal and vertically; – cleaning and horizontal and vertical transport of the rubbish. – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00015	Lambriu la pereti din lemn masiv 20 mm si vata minerala 50 mm
Unitate de masura Measuring Unit	m²	Wall cladding made of by wood 20mm and mineral wool 50mm
Descriere Description:	<ul style="list-style-type: none"> – trasarea lambriului conform planurilor din proiectul tehnic; – procurarea elementelor de lambriu, a vatei minerale si a materialelor de montaj(suruburi, bolturi etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea elementelor de lambriu pe pozitia din proiectul tehnic; – finisarea lambriului prin slefuire, tratament antifungic si antifoc si vopsire cu lac transparent; – protejarea lambriului pana la definitivarea lucrarilor; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – panelling setting out according to plans of the Detailed Design; – supply panelling elements, of mineral wool and of assembling materials (screws etc.) and cutting into sizes according to Technical Specifications and Detailed Design; – assembling of the panel elements in positions indicated in the Detailed Design; – finishing of the panels through polishing, treating against fungus, fireproofing and painting with transparent varnish; – protecting the panelling until completion of all works; – transport and handling the materials by horizontal and vertically; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00015a	Panouri de inchidere din policarbonat
Unitate de masura Measuring Unit	m²	Polycarbonate closing panels
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialului si a accesoriilor de montaj (suruburi, garnituri etc) si debitarea lor la dimensiuni și/sau structura suport, conform caietului de sarcini si proiectului tehnic; – montare schela – executarea structurii suport sau procurare gata confectionata, taierea panourilor, montarea pe pozitie conform proiectul tehnic; – protejarea panourilor pana la definitivarea lucrarilor; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – demontare schela – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply panel elements, mounting materials (bonds, others) and them debt at sizes and/or support structure, according Technical Specifications and Detailed Design; – Scaffolding works – Support structure suply or execution, mounting the panel elements on position as per Detailed Design; – protection of the panels until completion of all works; – horizontal and vertical transport and handling of the materials; – scaffolding dismantling – checking the quality of the materials and the works execution. 		
Codul Normei Norm Code	A00115	Pereti despartitori din gipscarton rezistent la umiditate 2x2x12,5 mm, pe suporti metalici si vata minerala 50 mm, inclusiv rectificarea suprafetelor
Unitate de masura Measuring Unit	m²	Partition walls made of humidity-proof gypsumboard panels, 2x2x12.5mm, on metal supports and mineral wool infill, 50 mm, including making good of the surfaces
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – fixarea placilor din vata minerala; – fixarea placilor de gipscarton pe partea vazuta a peretilor, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – rectificarea suprafetelor din gipscarton cu pasta de rectificare; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> – setting out of partition walls; – supply gypsumboard panels, of materials for assembling (metal sections, screws, mineral wool blankets/panels, self-adhesive tape etc.) and cutting in sizes according to Technical Specifications and Detailed Design; – assembling of the metal frames in positions indicated in plan and anchoring to the loadbearing structural elements; – fixing of the mineral wool blankets/panels; – fixing of the gypsumboard panels on either side of the partition walls according to plans and details; – closing of the joints between the panels with proprietary joint compound; – making good of the surfaces of the gypsumboard panels with proprietary joint compound – horizontal and vertical transport and handling of the materials; – cleaning of the work site and horizontal and vertical transport of the rubbish; – checking of the execution of the works. 	

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Codul Normei Norm Code	A00116	Pereti despartitori din caramida de sticla tip NEVADA sau similar
Unitate de masura Measuring Unit	m ²	Partition walls made of glass bricks NEVADA type (or similar approved)
Descriere Description:	<ul style="list-style-type: none"> – trasarea peretilor; – procurarea blocurilor din sticla tip NEVADA sau similar a materialelor pentru montaj (armaturi, chituri, mortare conform specificatii producator) conform caietului de sarcini si proiectului tehnic; – fixarea blocurilor din sticla si a armaturilor dintre rosturi, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of partition walls; – supply glass bricks NEVADA type or similar, of materials for assembling (metal reinforcement bars, adhesive/mortar according to proprietary system specs) according to the Technical Specifications and Detailed Design; – fitting of the glass bricks and reinforcement bars between the joints according to plans and details; – closing of the joints; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and horizontal and vertical transport of the rubbish; – checking of the works execution. 	

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Codul Normei Norm Code	A00117	Placaj executat la pereti si plansee cu placi din gresie speciala pentru bazine de inot
Unitate de masura Measuring Unit	m²	Tiling executed on walls and floors with special ceramic tiles appropriate for swimming pools
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a fi placate cu gresie, verificarea calitatii stratului suport al placajului, a verticalitatii si planeitatii suprafetei; – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – pregatirea materialului de lipire a placilor de gresie; – executarea placajului de gresie pe suprafetele indicate in proiect, conform detalii si caiete de sarcini; – tratarea rosturilor dintre placi prin umplere cu chit special conform specificatii; – curatarea suprafetei placate si protejarea ei pana la finalizarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor de palcaj. <hr/> <ul style="list-style-type: none"> – preparing of the surfaces to be covered with stoneware, checking of the quality of the support layer for tiling, of verticality and surface smoothness; – supply necessary materials for works, according to the Technical Specifications and Detailed Design; – preparing the adhesive for the stoneware tiles; – tiling with stoneware in the areas indicated in the design according to details and Technical Specifications; – jointing between the tiles by filling with waterproof grout as per specs; – cleaning of the tiled surfaces and protecting until the completion of all works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the excess materials from the work site; – checking of the quality of the materials and execution of tiling works. 	

2.3.3 PLACAJE LA PEREȚI / WALL TILING AND CLADDING		
Codul Normei Norm Code	A00007	Placaj executat la pereti cu placi din faianta lipita cu adeziv
Unitate de masura Measuring Unit	m²	Wall tiling made of glazed ceramic tiles fixed to the wall with adhesive
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a fi placate cu faianta, inclusiv reparatii tencuiala existentă și/sau tencuială nouă pentru a realiza un strat suport corespunzător; – verificarea calitatii stratului suport, a verticalitatii si planeitatii suprafetei; – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – pregatirea materialului de lipire a placilor de faianta; – executarea placajului cu faianta pe suprafetele indicate in proiect, conform detalii si caiete de sarcini; – tratarea rosturilor dintre placi prin umplere cu chit; – curatarea suprafetei placate si protejarea ei pana la finalizarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor de palcaj cu faianta. <hr/> <ul style="list-style-type: none"> – preparation of surfaces to be covered with ceramic tiles, including repairing of the existing plaster and/or new plaster in order to prepare a properly support layer; – checking of the quality of support layer, verticality and smoothness of the surface to be covered; – supply the material necessary for the execution of the works required by the Technical Specifications and Detailed Design; – preparation of the adhesive for the ceramic tiles; – tiling with ceramic tiles on the surfaces as indicated in the design and required by the Technical Specifications; – jointing of the tiles with grout; – cleaning of the tiled surfaces and protecting until completion of all works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00007a	Izolatie antisoc pereti sala sport
Unitate de masura Measuring Unit	m²	Shock protection for the sports hall walls
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor; – procurarea materiale si material marunt necesar montarii (conform caiet de sarcini) ; – transport si manipulare materiale ; – executarea izolatiei antisoc a peretilor; – verificarea calitatii lucrarilor. 	
	<ul style="list-style-type: none"> – preparation of the surfaces; – supply of materials and accessories necessary for mounting (as per BoQ); – materials transport and handling; – mouting the shock protection for the walls; – checking of the works execution. 	

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2.3.4 PARDOSELI / FLOOR COVERINGS		
Codul Normei Norm Code	A00016	Pardoseli din covor PVC rezistent la trafic intens, inclusiv stratul suport pentru aducerea la cota si sapa autonivelanta, inclusiv plinte
Unitate de masura Measuring Unit	m²	Vinyl floor covering resistant at intense traffic, including support layer and self-levelling screed to be brought to the designed level, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare si a sapei autonivelante; – executarea pardoselii din covor PVC de trafic intens, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply materials necessary for execution of the works, as required by the Technical Specifications and Detailed Design; – checking of the the actual support layer, execution of the cement screed and self-levelling screed to attain the designed finished floor level; – laying of the Vinyl floor covering for intense traffic, required by the details and Technical Specifications; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of the excess materials from the work site; – checking the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00016a	Pardoseli din covor PVC la sala de sport, inclusiv stratul suport pentru aducerea la cota si sapa autonivelanta, inclusiv plinte
Unitate de masura Measuring Unit	m²	Vinyl floor covering in sports halls, including support layer and self-levelling screed to be brought to the designed level, skirting included
	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare si a sapei autonivelante; – executarea pardoselii din covor PVC pentru sala de sport, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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		<ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works, as required by the Technical Specifications and Detailed Design; – checking of the existing support layer, execution of the cement screed and self-levelling screed, in order to attain the designed finished floor level; – execution of the Vinyl floor covering for sports halls, required by the details and Technical Specifications; – horizontal and vertical transport and handling of the resulting rubbish; – cleaning and transport of excess materials from the site; – checking of the quality of the materials and the works execution.
Codul Normei Norm Code	A00017	Pardoseli din gresie ceramica de trafic intens, inclusiv stratul suport pentru aducerea la cota, inclusive plinte
Unitate de masura Measuring Unit	m²	Stoneware floor tiling for intense traffic, including support layer to be brought to the designed level, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare; – executarea pardoselii din gresie ceramica de trafic intens, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – supply of the materials necessary for execution of the works, as required by the Technical Specifications and Detailed Design; – checking of the existing support layer, execution of the levelling screed; – execution of the stoneware floor tiling for intense traffic, as required by the details and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the excess materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00018	Pardoseli din gresie antiacida pentru laboratoare, inclusiv stratul suport pentru aducerea la cota, inclusive plinte
Unitate de masura Measuring Unit	m²	Acid-proof stoneware flooring for laboratories, including support layer to be brought to the designed level, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare; – executarea pardoselii din gresie ceramica antiacida, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor de executie a pardoselilor din gresie. 	

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<ul style="list-style-type: none"> – supply of the materials necessary for execution of the works, as required by the Technical Specifications and Detailed Design; – checking of the existing support layer, execution of the levelling screed; – execution of acid-proof stoneware floor tiling, as required by the details and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the excess materials from the work site; – checking of the quality of the materials and the works execution of stoneware floor tiling. 		
Codul Normei Norm Code	A00118	Pardoseli din mocheta rezistenta la trafic intens, inclusiv stratul suport pentru aducerea la cota si sapa autonivelanta, inclusiv plinte
Unitate de masura Measuring Unit	m²	Floor covering made of wall-to-wall carpet resistant at intense traffic, including support layer and self-levelling screed to be brought to the designed level, including skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare si a sapei autonivelante; – executarea pardoselii din mocheta de trafic intens, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – supply of the materials necessary for work execution, as required by the Technical Specifications and Detailed Design; – checking of the existing support layer, execution of the cement screed and self-levelling screed; – execution of wall-to-wall carpet for intense traffic according to the details and Technical Specifications; – horizontally and vertical transport and handling of the materials; – cleaning and transport the excess materials from the work site; – checking of the quality of the materials and works execution. 	

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Codul Normei Norm Code	A00019	Pardoseli din ciment sclivisit, inclusiv stratul suport si scafele sau plintele sclivisite executate cu mortar M100T
Unitate de masura Measuring Unit	m²	Polished cement screed, including support layer and skirting or coved skirtings executed with smoothed M100T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare; – executarea pardoselii din ciment sclivisit sau rolat, conform detalii si caiete de sarcini; – executarea plintelor sau scafelor din ciment sclivisit ; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor de executie a pardoselilor din ciment sclivisit sau rolat. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for work execution, according to the Technical Specifications and Detailed Design; – checking the existing support layer, execution of the levelling screed; – execution of floor made of polished or rolled cement screed, according to the details and Technical Specifications; – execution of the skirting or coved skirtings by smoothed cement mortar; – horizontal and vertical transport and handling the materials; – cleaning and transport of the excess materials from the work site; – checking the quality of the materials and the works execution of the polished cement screed. 	
Codul Normei Norm Code	A00020	Pardoseli din parchet lipit cu adeziv, inclusiv plintele din lemn, raschetarea si lacuirea
Unitate de masura Measuring Unit	m²	Parquet flooring with adhesive, including wooden skirting, scraping and varnishing
Descriere Description:	<ul style="list-style-type: none"> – procurarea lamelelor de parchet si a materialelor de montaj conform caietului de sarcini si proiectului tehnic; – executarea stratului suport din sapa M100T pentru aducerea la cota din proiect si finisarea acestuia; – montarea parchetului pe pozitia indicata in proiectul tehnic; – finisarea parchetului prin raschetare si slefuire; – montarea plintelor si lacuirea suprafetelor ; – protejarea parchetului pana la definitivarea lucrarilor; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply of the parquet panels and assembling materials according to the Technical Specifications and Detailed Design; – execution of the support layer by M100T screed to be brought to the designed level and finishing; – fixing of the parquet in the positions indicated in the Detailed Design; – finishing of the parquet surface by scraping/sanding and varnishing; – fixing of the skirting and varnishing of the surfaces; – protecting the parquet until the completion of the works; – cleaning of the work site and horizontal and vertical transport of the materials. – Checking of the quality of the materials and works execution 		
Codul Normei Norm Code	A00021	Pardoseli din dale de piatra compozita antiderapanta, inclusive plinte
Unitate de masura Measuring Unit	m²	Flooring by slabs made of anti-slip artificial stone, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea dalelor din piatra compozita antiderapanta si a materialelor de montaj conform caietului de sarcini si proiectului tehnic; – executarea stratului suport din sapa M100T pentru aducerea la cota din proiect si finisarea acestuia; – montarea dalelor din piatra compozita antiderapanta pe pozitia indicata in proiectul tehnic; – protejarea pardoselii pana la definitivarea lucrarilor; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – supply of the flags made of anti-slip artificial stone and of the assembling materials, according to Technical Specifications and Detailed Design; – execution the support layer by M100T screed to be brought to the design level and smoothing; – laying of the flags made of anti-slip artificial stone in positions indicated in the Detailed Design; – protection of the flooring until completion of the works; – cleaning and horizontal and vertical transport of the rubbish ; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00121	Pardoseli din dusumea lamba si uluc executata pe dusumea oarba cu sapa autonivelanta, inclusiv plinte
Unitate de masura Measuring Unit	m²	Tongue-and-groove wooden flooring on subfloor with wooden sleepers, self-levelling screed, waterproofing, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent si executarea rectificarilor; – executarea dusumelei oarbe; – executarea pardoselii din dusumea lamba si uluc, conform detalii si caiete de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for works execution, according to the Technical Specifications and Detailed Design; – checking of the existing support layer and repair ; – execution of the subfloor; – laying of the tongue-and groove flooring, according to details and Technical Specifications; – horizontal and vertical transport and handling of the materials ; – cleaning and transport of the excess materials from the work site; – checking of the material quality and works execution. 	
Codul Normei Norm Code	A00122	Pardoseli din placi mozaicate montate la terase circulabile
Unitate de masura Measuring Unit	m²	Terazzo tiles flooring for accessible flat roofs
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarilor: placi mozaicate – executarea pardoselii, conform cerintelor caietului de sarcini si a proiectului tehnic; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply necessary materials for repair: terazzo tiles ; – execution of flooring made of terazzo tiles, according to Technical Specifications and Detailed Design; – protection of surfaces until completion of all works; – horizontal and vertical transport and handling of the resulting rubbish ; – cleaning and transport of rubbish to an authorized dumping area; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00123	Pardoseli din mozaic turnate in camp continuu
Unitate de masura Measuring Unit	m²	Cast terazzo floorings in continuous areas
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare; – executarea pardoselii din mozaic, conform detalii si caiete de sarcini; – executarea plintelor sau scafelor din mozaic; – ceruirea si lustruirea suprafetelor executate; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca și transportul la locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor de executie a pardoselilor. <hr/> <ul style="list-style-type: none"> – supply of materials necessary for work execution, according to Technical Specifications and Detailed Design; – checking the existing support layer, execution of levelling screed; – execution of cast terazzo flooring, according details and Technical Specifications; – execution of straight or coved terazzo skirting; – waxing and polishing of completed areas; – horizontal and vertical transport and handling the materials ; – cleaning and transport of the excess materials from the work site and transport/dumping to authorized area; – checking of the quality of the materials and the works execution of the flooring. 	

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Codul Normei Norm Code	A00124	Pardoseli din parchet pentru sali de sport inclusiv stratul suport, finisajul si plintele
Unitate de masura Measuring Unit	m²	Parquet flooring for gym, including support layer, finishing and skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea lamelelor de parchet si a materialelor de montaj conform caietului de sarcini si proiectului tehnic; – executarea stratului suport – montarea parchetului pe pozitia indicata in proiectul tehnic; – finisarea parchetului prin raschetare si slefuire; – montarea plintelor si lacuirea suprafetelor – protejarea parchetului pana la definitivarea lucrarilor; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the parquet leafs and of the assembling materials, according to Technical Specifications and Detailed Design; – laying of the support layer; – laying of the parquet in positions indicated in the Detailed Design; – parquet finishing by scraping and varnishing ; – fixing of skirting and varnishing; – protection of parquet until completion of the works ; – cleaning of the work site and horizontal and vertical transport of the materials . – checking of the quality of the materials and works execution 	
Codul Normei Norm Code	A00125	Pardoseli din mozaic de marmura, turnate in camp continuu, inclusiv stratul suport si scafele sau plintele mozaicate
Unitate de masura Measuring Unit	m²	Terazzo flooring, cast in continuous area, including support layer and straight or coved terazzo skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea stratului suport existent, executarea sapei de nivelare; – executarea pardoselii din mozaic de marmura, conform detalii si caiete de sarcini; – executarea plintelor sau scafelor; – ceruirea si lustruirea suprafetelor executate – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor in excedent de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor de executie. 	

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<ul style="list-style-type: none"> – supply the necessary materials for works execution, according to Technical Specifications and Detailed Design; – checking the existing support layer, execution of the screed; – casting of terazzo flooring, according to details and Technical Specifications; – execution of straight or coved skirtings; – waxing and polishing of the completed areas; – horizontal and vertical transport and handling of the materials ; – cleaning and transport the excess materials from work site; – checking of the material quality and works execution. 		
Codul Normei Norm Code	AR00126	Ceruire si lustruire plinte si scafe din mozaic
Unitate de masura Measuring Unit	m²	Polishing and waxing of straight or coved terazzo skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor, accesoriilor si a materialelor necesare realizarii ceruirii si lustruirii plintelor si scafelor din mozaic turnat; – prepararea si aplicarea cu mijloace manuale a materialului necesar ceruirii si lustruirii plintelor si scafelor din mozaic turnat; – verificarea materialelor puse in opera si a executarii complete a ceruirii si lustruirii plintelor si scafelor din mozaic turnat. <hr/> <ul style="list-style-type: none"> – supply of the necessary tools, accessories and materials for polishing and waxing of the terazzo skirting, straight or coved; – manual preparation and using of the necessary materials for polishing and waxing of terazzo skirting; – checking of the used materials and of the completeness of the polishing and waxing of terazzo skirting . 	

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Codul Normei Norm Code	AR00127	Tratament acustic fonoabsorbant din placi polistiren extrudat de 7 cm grosime, la pardoseala sala de sport, protejat cu șapa armată M100 de 5,5 cm, plasa sudată d=8 mm, 100/100 mm
Unitate de masura Measuring Unit	m²	Acoustic floor treatment layer made of extruded polystyrene 7cm, cover with reinforced screed wiremesh d=8 mm, 100/100 mm for Sports Hall floor
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii, conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – verificarea stratului suport existent, nivelarea acestuia dacă e cazul – executarea izolatiei cu polistiren; – asezarea plasei STNB; – turnarea sapei de protectie M100; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala pana la locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the necessary materials according to Technical Specifications and Detailed Design – checking of the existent support layer and levelling, by case; – laying the 7 cm polystyrene layer; – installing the reinforcement and pouring the cement mortar based screed – horizontal and vertical transport and handling the materials ; – cleaning and transport of the excess materials from the work site and transport/dumping to authorized area; – checking of the quality of the materials and the works execution of the flooring. 		

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2.3.5 SCARI, TREPTE / STAIRS		
Codul Normei Norm Code	A00022	Trepte din beton executate sclivisit cu mortar M100T sau rolat, inclusiv plintele
Unitate de masura Measuring Unit	m²	Covering of concrete steps with polished or rolled screed made of M100T type plastering mortar, including skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii treptelor din ciment scivisit sau rolat; – verificarea stratului support din beton in ceea ce priveste planeitatea si dimensiunile treptelor; – trasarea finisajului si executarea treptelor si contratreptelor; – trasarea plintelor si executarea lor ; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to cover steps with polished or rolled cement screed; – checking of the supporting layer made of concrete, with regard to the step smoothness and sizes; – pegging of the finishing layer and execution of the treads and risers; – pegging of the skirting and execution; – protection of the surfaces until completion of all works; – horizontal and vertical transport and handling the materials ; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00023	Trepte din beton placate cu gresie ceramica, inclusiv plinte
Unitate de masura Measuring Unit	m	Covering of concrete steps with ceramic tiles, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii treptelor: placi gresie, plinte etc; – verificarea starii stratului support al treptelor si rectificarea lui; – executarea treptelor si plintelor placate cu gresie; – ceruirea si lustruirea treptelor si a plintelor; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply of the materials necessary to cover the steps: ceramic tiles , skirting, others; – checking of conditions of the support layer on stairs and repair; – execution stairs and skirting fixed with ceramic tiles; – polishing the stairs and skirting; – protection the area till the end of all works; – transport and handling the materials by horizontal and vertically; – cleaning and transport the materials at work site; – checking the quality materials and the works execution. 		
Codul Normei Norm Code	A00024	Trepte din beton placate cu PVC rezistent la uzura, inclusiv plinte
Unitate de masura Measuring Unit	m	Covering of concrete steps with heavy-duty PVC flooring , skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii treptelor: covor PVC rezistent la uzura, plinte etc; – verificarea starii stratului support al treptelor si rectificarea lui; – executarea treptelor si plintelor placate cu covor PVC; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of materials necessary for the covering of the steps: heavy-duty PVC floor covering ; – checking of the condition of the support layer of the steps and repair; – execution of the floor covering of steps and skirting made of PVC ; – protection of the surfaces until completion of the works ; – horizontal and vertical transport and handling of the materials ; – cleaning and transport of the materials from/at the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00025	Trepte din beton placate cu dale mozaicate, inclusiv plintele prefabricate
Unitate de masura Measuring Unit	m	Covering of concrete steps with terazzo tiles, including prefab skirting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii treptelor din dale mozaicate; – verificarea stratului support din beton in ceea ce priveste planeitatea si dimensiunile treptelor; – trasarea si executarea placajului din dale mozaicate la trepte si contratrepte; – trasarea plintelor si executarea lor; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply of the materials necessary to cover the steps with terazzo tiles; – checking the support layer made of concrete, regarding smoothness and stair sizes; – pegging and laying of the terazzo tiles on treads and risers; – skirting pegging and execution; – protection of the surfaces until completion of the works ; – horizontal and vertical transport and handling the materials ; – cleaning and transport of the materials from the work site; – checking of the quality of materials and the works execution. 		
Codul Normei Norm Code	A00026	Trepte din dale de piatra compozita antiderapanta, inclusiv plinte
Unitate de masura Measuring Unit	m	Steps made of artificial anti-slip sandstone slabs, skirting included
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii treptelor din dale de piatra compozita antiderapanta; – verificarea stratului support din beton in ceea ce priveste planeitatea si dimensiunile treptelor; – trasarea si executarea placajului la trepte si contratrepte; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to cover the steps with cast anti-slip sandstone; – checking the support layer by concrete regarding the smoothness and stairs sizes; – pegging of the slabs and execution of treads and risers; – protection of the surfaces until completion of the works ; – cleaning and horizontal and vertical transport of the rubbish ; – checking of the quality of the materials and the works execution. 	

2.3.6 FERESTRE SI USI / WINDOWS AND DOORS		
Codul Normei Norm Code	A00011	Procurare si montare pereti cortina din aluminiu cu geam termopan, inclusiv etanseizarea rostului
Unitate de masura Measuring Unit	m²	Provide and install curtain walls made of aluminium with thermopane glazing, including joint sealing
Descriere Description:	<ul style="list-style-type: none"> – relevarea structurii care se va acoperi cu perete cortină; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a peretilor cortina din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a peretilor cortina din aluminiu, inclusiv accesoriile; – fixarea geamului termopan in tamplarie – umplerea rosturilor dintre perete cortină si elemente de structură cu spumă poliuretanică, eliminarea excesului, inclusiv instalarea profilelor de mascare pentru acest tip de rosturi; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurements/survey of the structure to be covered by curtain wall; – checking the fixing points: bolts or anchors; – providing, putting at the right level and pre-installation of the aluminium curtain walls according to Technical Specifications and Detailed Design; – supply of the materials and accessories necessary for the installation; – definitive installation of the aluminium curtain walls, including all accessories; – fitting of the thermopane glazing into the joinery; – filling of the joints between curtain walls and adjacent structures with Polyurethane foam, eliminating excess insulation material, fixing of aluminium cover profiles for this type of joints;; – protecting the joinery until completion of all works; – horizontal and vertical transport and handling the materials; – checking the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00027	Procurare si montare ferestre din aluminiu cu geam termopan, inclusiv etanseizarea rostului, glafuri exterioare
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium windows with double glazing, including joint sealant and external window sills
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare; – fixarea geamului termopan in tamplarie, inclusiv garniturile de etansare; – probe de functionare si eventuale remedieri; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the aperture of the walls; – checking of embedded elements for fixing to the walls: anchors and bolts; – supply and pre-installation at the designed level of the aluminium windows, according to Technical Specifications and Detailed Design; – supply materials and accessories necessary for installation; – final installation of aluminium windows, including accessories; – filling of the gaps around windows with polyurethane foam, excess material elimination, making good around frames, installation of external sills; – fitting thermopane glazing into joinery, including rubber gaskets installing; – functioning tests and remedial works as required. – protection of joinery until completion of works; – horizontal and vertical transport and handling of the materials ; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00028	Procurare si montare usi din aluminiu cu geam termopan, inclusiv etanseizarea rostului
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium doors with thermopane glazing including joint sealants
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – fixarea geamului termopan in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor ; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the wall apertures; – checking of the embedded elements for fixing to the walls: anchors and bolts; – supply and pre-installation at the designed level of the aluminium doors , according to Technical Specifications and Detailed Design – supply of the materials and accessories necessary for final installation; – final installation of aluminium doors, including accessories; – filling of the gaps around doors with polyurethane foam, excess material elimination, making good around frames; – fitting thermopane glazing into joinery, including rubber gaskets ; – protection of joinery until completion of the works; – horizontal and vertical transport and handling the materials ; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00029	Procurare si montare usi interioare din MDF pline cu/fără fereastră de vizionare, pe tocuri cu captuseli si pervazuri, inclusiv reparatiile in jurul tocului
Unitate de masura Measuring Unit	m²	Supply and installation of interior flush doors, solid MDF core, with or without vision panels, including door frames, linings and architraves, varnished/painted, as well as making good around door frames
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a usilor din lemn, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din lemn, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretana, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea pervazurilor din lemn; – fixarea geamului ornament in tamplarie; – vopsirea tocurilor si rectificarea finisajului foilor de usi; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the embedded elements/anchors for fixing to the walls; – supply and pre-installation at the designed level of the wooden doors , according to Technical Specifications and Detailed Design – supply of the materials and accessories necessary for final installation; – final mounting of accessories; – filling of the gaps around the doors with polyurethane foam, excess material elimination, making good around the frames; – fitting of the vision panel glazing into the joinery, including rubber gaskets ; – protection of the joinery until completion of the works; – horizontal and vertical transport and handling the materials ; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00030	Procurare si montare usi metalice vopsite
Unitate de masura Measuring Unit	m²	Supply and installation of painted metal doors
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a usilor din metal, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din metal, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea pervazurilor; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the aperture of the walls; – checking of the embedded elements for fixing points; – providing, putting at the correct level and pre-installation of the metal doors as required by the Technical Specifications and Detailed Design; – supply of the materials for installation and of accessories (ironmongery); – final installation of the metal doors, including accessories; – filling of the joints and gaps at door frames with Polyurethane foam, elimination of excess material, making good of the plaster around the metal frames; – protection of the metal joinery until completion of the works; – horizontal and vertical transport and handling of the materials; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00031	Procurare si montare usi metalice vopsite rezistente la foc , conform liste de cantitati
Unitate de masura Measuring Unit	m²	Supply and installation of painted metal doors fire-rated , as per B.o.Q.
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea usilor din metal rezistente la foc, conform caietelor de sarcini si a proiectului tehnic si/sau recomandarilor producatorului; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din metal rezistente la foc, inclusiv accesoriile – feronerie ,dispozitiv de inchidere automata; – rosturile in jurul usilor se vor etansa conform detalii; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the wall apertures; – checking of the embedded elements for fixing ; – supply, putting at the correct level and installation of the fire-rated metal doors, according to the Technical Specifications and Detailed Design and/or Manufacturer's Specifications – supply of materials/installation of accessories- ironmongery automatic door closer; – gaps around doors to be sealed according to Detailed Design; – protecting the joinery until completion of the works; – horizontal and vertical transport and handling of the materials; – checking of the quality of the materials and the works execution.. 	
Codul Normei Norm Code	A00032	Procurare si montare ferestre din lemn stratificat cu geam termopan laminat, inclusiv glafuri exterioare .
Unitate de masura Measuring Unit	m²	Supply and installation of laminated wood windows with thermopane laminated safety glass, including external window sills .
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare; – fixarea geamului termopan ,laminat , securizat ; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – measurement of wall apertures; – checking of fixing methods; – supply, putting at the correct level and pre-installation of the windows, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the windows, including accessories; – filling of the joints and gaps with Polyurethane foam, elimination of excess material, making good of plaster around the frames ; – fitting of thermopane laminated glazing; – protection of the joinery until completion of the works; – handling and transport the materials by horizontal and vertically; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	A00033	Procurare si montare ferestre din lemn stratificat cu geam termopan , inclusiv glafuri exterioare .
Unitate de masura Measuring Unit	m²	Supply and installation of windows made of laminated wood frames with thermopane glazing , including external window sills .
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea glafurilor exterioare; – fixarea geamului termopan; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – measurement of the wall apertures; – checking of embedded elements fixing ; – supply, putting to the correct level and pre-installation of the windows, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive mounting of windows, including accessories; – filling of joints and gaps with Polyuretane foam, elimination of excess material, making good of plaster around frame and fixing of the exterior sillboards; – fitting of the thermopane glazing; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00034	Procurare si montare ferestre din aluminiu cu geam termopan si actionare electrica
Unitate de masura Measuring Unit	m²	Supply and installation of windows with aluminium frames, thermopane glazing and electric opening/closing function
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare; – fixarea geamului termopan si a foliei antiefractie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of aperture in walls; – checking the embedded elements for fixing; – supply, putting at the correct level and pre-installation of the windows according to the Technical Specifications and Detailed Design; – supply of the materials for installation and of accessories (ironmongery); – definitive installation of the windows, including accessories; – filling of joints and gaps with Polyurethane foam, elimination of the excess material, making good of plaster around the frames and exterior sills; – fitting of the thermopane glazing; – protection of the joinery until completion of the works – horizontal and vertical handling and transport of the materials; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00035	Procurare si montare usi din lemn stratificat cu geam termopan laminat
Unitate de masura Measuring Unit	m²	Supply and installation of doors with laminated wood frames and thermopane laminated safety glass
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – fixarea geamului termopan laminat securizat ; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of embedded elements for fixing; – supply, putting to the correct level and pre-installation of doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of doors, including accessories; – filling of joints and gaps with Polyurethane foam, elimination of excess material, making good of plaster around the frames and fixing of the exterior aluminium thresholds; – fitting of thermopane laminated safety glass ; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00036	Procurare si montare usi din aluminiu cu geam termopan laminat (geam securizat)
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium doors with thermopane laminated safety glass
Descriere Description:	<ul style="list-style-type: none"> - relevarea golurilor din pereti; - verificarea punctelor de fixare: gheremele sau bolturi; - procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; - procurarea materialelor pentru montaj si a accesoriilor; - montarea definitiva a usilor, inclusiv accesoriile; - umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; - fixarea geamului termopan laminat; - fixarea dispozitiv de autoinchidere; - protejarea tamplariei pana la terminarea lucrarilor; - transportul si manipularea materialelor pe orizontala si verticala; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - measurement of wall apertures; - checking of the fixing points: bolts, anchors, fasteners; - supply, putting at the correct level and pre-installation of the doors, according to the Technical Specifications and Detailed Design; - supply of the materials for installation and accessories (ironmongery); - definitive installation of the doors, including accessories; - filling of the joints and gaps with Polyurethane foam, elimination of the excess material, making good of the plaster around the frames and fixing of the exterior aluminium thresholds; - protection of the joinery until completion of the works; - fitting of the thermopane glazing; - fixing automatic closer device ; - horizontal and vertical handling and transport of the materials; - checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00037	Procurare si montare usi din aluminiu cu geam laminat
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium doors with laminated safety glass
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretanica, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – fixarea geamului securizat; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the of doors, including accessories; – filling of the joints and gaps with Polyurethane foam, elimination of the excess material, making good of the plaster around the frames and – fitting of the laminated glass; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials – checking of the quality of the materials and the works execution.. 	

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Codul Normei Norm Code	A00038	Procurare si montare glasswand din aluminiu cu geam laminat
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium sliding/folding partition wall, laminated safety glass
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a glasswandurilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a glsswandurilor, inclusiv accesoriile; – umplerea rosturilor dintre glsswanduri si gol cu spuma poliuretana, eliminarea excesului, repararea tencuielii in jurul tocurilor; – fixarea geamului securizat; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the sliding/folding, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the partition, including accessories; – filling of the joints and gaps with Polyurethane foam, elimination of excess material, making good of the plaster around frames; – fitting of the laminated glass; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials – checking of the quality of the materials and the works execution.. 	

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Codul Normei Norm Code	A00039	Procurare si montare usi metalice vopsite cu geam laminat, inclusiv etanseizarea rostului
Unitate de masura Measuring Unit	m²	Supply and installation of painted metal doors with laminated glass, including sealants
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuielii in jurul golului de usa; – fixarea geamului securizat; – vopsirea cu vopsea de ulei a usilor metalice; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the doors, including accessories; – filling of the joints and gaps with Polyurethane foam, elimination of the excess material, making good of the plaster around the frames – fitting laminated glass; – painting with oil paint of the metal frames; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the quality of the material and works execution. 	

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Codul Normei Norm Code	A00040	Procurare si montare usi metalice vopsite, cu fonoizolatie (Rw>40dB)
Unitate de masura Measuring Unit	m²	Supply and installation of painted metal doors with sound insulation (Rw>40dB)
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea glafurilor; – protejarea tamplariei pana la terminarea lucrarilor ; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – providing, putting at the correct level and pre-installation of the doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the doors, including accessories; – filling of the joints and gaps with Polyurethane foam, elimination of the excess material, making good of the plaster around the frames ; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 	
Codul Normei Norm Code	A00041	Procurare si montare usi interioare din lemn masiv/MDF cu fonoizolatie (Rw>40dB), pe tocuri cu captuseli si pervazuri vopsite
Unitate de masura Measuring Unit	m²	Supply and installation of solid core wooden/MDF doors with phonoisolation (Rw>40dB), door frames with lining and architraves, painted
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a usilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din lemn, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretantica, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea pervazurilor; – fixarea captuselilor si rectificarea finisajului foilor de usi; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the wooden doors, including accessories; – filling of joints and gaps with polyurethane foam, elimination of excess material, making good of plaster around the frames and fixing of lining and wooden architraves; – lining and architraves installation and finishing adjustment of the door leaves; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 		
Codul Normei Norm Code	A00042	Procurare si montare usi interioare din PVC pentru grupurile sanitare
Unitate de masura Measuring Unit	m²	Supply and installation of interior doors made of PVC for sanitary cells
<p>Descriere Description:</p> <ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a usilor din PVC, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din PVC, inclusiv accesoriile; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 		
<ul style="list-style-type: none"> – measurement of the wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the PVC doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of PVC doors, including accessories; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 		

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Codul Normei Norm Code	A00043	Procurare si montare glasswand din PVC-U cu geam laminat
Unitate de masura Measuring Unit	m²	Supply and installation of PVC-U sliding/folding partition elements with laninated glass
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a glsswandurilor, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a glasswandurilor, inclusiv accesoriile; – umplerea rosturilor dintre glsswanduri si gol cu spuma poliuretana, eliminarea excesului, repararea tencuielii in jurul tocurilor; – fixarea geamului laminat; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the sliding element, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of sliding element, including accessories; – filling of joints and gaps with Polyurethane foam, elimination of excess material, making good of plaster around the frames; – fitting of laminated glass; – protection of joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A00144	Procurare si montare ferestre din PVC-U cu geam termopan, inclusiv glafuri exterioare .
Unitate de masura Measuring Unit	m²	Supply and installation of PVC-U windows with thermopane glazing , including external window sills .
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor din PVC, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor din PVC, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuielii in jurul tocurilor si fixarea glafurilor exterioare; – fixarea geamului termopan in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of PVC-U windows, according to the Technical Specifications and Detailed Design; – supply of materials for installation and accessories (ironmongery); – definitive installation of the PVC-U windows, including accessories; – filling of joints and gaps at window frames with Polyurethane foam, elimination of excess material, making good of plaster around the frames and fixing of the exterior sillboards; – fitting of the thermopane glazing in the joinery; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A00144a	Procurare si montare ferestre din PVC-U cu geam termopan laminat securizat , inclusiv glafuri exterioare .
Unitate de masura Measuring Unit	m²	Supply and installation of PVC-U windows with thermopane laminated safety glass,including external window sills .
Descriere Description:	<ul style="list-style-type: none"> - relevarea golurilor din pereti; - verificarea punctelor de fixare: gheremele sau bolturi; - procurarea, punerea la cota si montarea provizorie a ferestrelor din PVC, conform caietelor de sarcini si a proiectului tehnic; - procurarea materialelor pentru montaj si a accesoriilor; - montarea definitiva a ferestrelor din PVC, inclusiv accesoriile; - umplerea rosturilor dintre ferestre si gol cu spuma poliuretanica, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare; - fixarea geamului termopan laminat , securizat in tamplarie; - protejarea tamplariei pana la terminarea lucrarilor ; - transportul si manipularea materialelor pe orizontala si verticala; - verificari ale calitatii materialelor si a executiei lucrarilor 	
	<ul style="list-style-type: none"> - measurement of wall apertures; - checking of the fixing the points: anchors and bols; - supply, putting at the correct level and pre-installation of PVC-U windows, according Technical Specifications and Detailed Design; - materials supply for installation and accessories; - definitive installation of PVC-U windows, including accessories; - filling of gaps between windows and wall reveals with polyuretane foam, elimination of excess material, making good around frames and fixing of exterior sillboard; - fitting of the thermopane laminated safety glass into joinery; - protection of the joinery until completion of the works ; - handling, as well as horizontal and vertical transport of the materials ; - checking of material quality and works execution. 	

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Codul Normei Norm Code	A00144b	Procurare si montare usi interioare din PVC pline
Unitate de masura Measuring Unit	m²	Supply and assembling the PVC interior doors
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a usilor din PVC, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din PVC, inclusiv accesoriile; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor 	
	<ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the PVC doors, according to the Technical Specifications and Detailed Design; – supply of the materials for the installation and accessories (ironmongery); – definitive installation of PVC doors, including accessories; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 	
Codul Normei Norm Code	A00144c	Procurare si montare usi din PVC-U geam termopan laminat si sistem de autoinchidere
Unitate de masura Measuring Unit	m²	Supply and installation of PVC-U doors with thermopane laminated glass, including automatic doorcloser
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea materialelor pentru montaj si a accesoriilor PVC, conform caietelor de sarcini si a proiectului tehnic; – montarea definitiva a usilor din PVC, inclusiv accesoriile; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at correct level and pre-installation of PVC-U doors, according to the Technical Specifications and Detailed Design; – definitive installation of the PVC-U doors, including accessories; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A00145	Procurare si montare ferestre din aluminiu cu geam termopan laminat , inclusiv glafuri exterioare .
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium windows with thermopane laminated glass , including external window sills .
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – fixarea geamului termopan laminat , securizat in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the aluminium windows, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of aluminium windows, including accessories; – filling of the joints and gaps at the window frames with Polyurethane foam, elimination of excess material, making good of the plaster around the frames and fixing the exterior aluminium sillboard; – fitting of the thermopane laminated safety glass into the joinery – joinery protection till works end; – handling and transport the materials by horizontal and vertically; – checking of material quality and works execution. 	

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Codul Normei Norm Code	A00146	Procurare si montare usi din aluminiu cu geam termopan securizat
Unitate de masura Measuring Unit	m²	Supply and installation of aluminium doors with thermopane glazing, safety glass
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a usilor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a usilor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre usi si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – fixarea geamului termopan in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the aluminium doors, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of the aluminium doors, including accessories; – filling of the joints and gaps at door frames with Polyurethane foam, elimination of excess material, making good of plaster around the frames and fixing of the exterior aluminium threshold; – fitting of the thermopane into the joinery; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of material quality and works execution. 	

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Codul Normei Norm Code	A00147	Procurare si montare ferestre din metal vopsite, inclusiv geamul simplu de 3mm
Unitate de masura Measuring Unit	m²	Supply and installation of metallic frame windows, painted, including simple float glass of 3mm thickness
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare a gheremelelor; – procurarea, punerea la cota si montarea provizorie a ferestrelor din metal, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor din metal, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea pervazurilor; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts, anchors, fasteners; – supply, putting at the correct level and pre-installation of the metal windows, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of metal windows, including accessories; – filling of the joints and gaps at window frames with Polyurethane foam, elimination of excess material, making good of plaster around the frames and fixing of the the exterior lining – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of material quality and works execution. 	

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Codul Normei Norm Code	A00149	Procurare si montare ferestre din PVC-U cu panouri de inchidere din policarbonat
Unitate de masura Measuring Unit	m²	Supply and installation of PVC-U windows with polycarbonate panel
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a ferestrelor din PVC-U, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a ferestrelor din PVC-U, inclusiv accesoriile; – umplerea rosturilor dintre ferestre si gol cu spuma poliuretana, eliminarea excesului , repararea tencuielii in jurul tocurilor; – fixarea panourilor din policarbonat in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – measurement of wall apertures; – checking of the fixing points: bolts; – supply, putting at the correct level and pre-installation of the PVC-U windows, according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – definitive installation of PVC-U windows, including accessories; – filling of joints and gaps at window frames with Polyurethane foam, elimination of excess material, making good of plaster around the frames; – fitting of the polycarbonate panels into the joinery; – protection of the joinery until completion of the works; – horizontal and vertical handling and transport of the materials; – checking of material quality and works execution. 	

2.3.7 LUCRARI PENTRU TENCUIELI / PLASTERING WORKS		
Codul Normei Norm Code	A00044	Tencuieli interioare executate la driscuite 2cm grosime la pereti si tavane cu mortar pentru tencuiala M25T
Unitate de masura Measuring Unit	m²	Interior plastering executed with 2cm thickness on walls and ceilings with M25T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii conform caietelor de sarcini; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – transportul si manipularea materialelor pe orizontala si verticala ; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of the supporting layer; – manufacturing, mounting and maintaining of the scaffold or work platform; – preparing the materials necessary for plastering according to the Technical Specifications; – plastering of the areas indicated in plans, according to the technical prescriptions and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00045	Tencuieli interioare speciale subtiri 0,5 cm executate la pereti si tavane cu mortar pentru tencuiala M25T
Unitate de masura Measuring Unit	m²	Special interior plaster coating of 0.5 cm thickness, executed on walls and ceilings with M25T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii conform caietelor de sarcini; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – transportul si manipularea materialelor pe orizontala si verticala ; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of the support layer; – manufacturing, mounting and maintaining of the scaffold or work platform; – supply of the materials necessary for plastering according to the Technical Specifications; – plastering of the areas indicated in the plans, according to the technical prescriptions and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from work site; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	A00046	Tencuieli interioare speciale sclivisite executate la pereti cu mortar de tencuiala M100T
Unitate de masura Measuring Unit	m²	Interior polished plastering executed on walls with M100T type plastering mortar
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor ; – procurarea materialelor necesare tencuielii conform caietelor de sarcini ; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini ; – transportul si manipularea materialelor pe orizontala si verticala ; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of the support layer; – manufacturing, mounting and maintaining of the scaffold or work platform; – plaster of the areas indicated in the plans, according to the technical prescriptions and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00047	Tencuieli exterioare driscuite, inclusiv vopsitoria lavabila de exterior
Unitate de masura Measuring Unit	m²	Exterior smooth plastering, including washable paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii conform caietelor de sarcini; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – executarea vopsitoriei lavabile de exterior, conform prescriptiilor tehnice; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of support layer; – manufacturing, mounting and maintaining the scaffold or work platform; – plastering of the areas indicated in the plans, according to the technical prescriptions and Technical Specifications; – painting with washable paint, according to the technical prescriptions; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00048	Tencuieli exterioare speciale cu similipiatra executate la pereti in camp continuu, buciardate sau pieptanate, cu mortar de tencuiala M100T si termosistem cu polistiren pe plasa STNB
Unitate de masura Measuring Unit	m²	Special exterior plastering with stone-like finish on walls with even surfaces, bush-hammered or combined, made of M100T plastering mortar on point-welded steel mesh (STBN), executed on top of a thermo-insulation system of Polystyrene
<p>Descriere Description:</p> <ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii conform caietelor de sarcini; – executarea termosistemului din polistiren extrudat; – montarea plasei STNB peste stratul termoizolant si ancorarea ei de structura; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. 		
<ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of the support layer; – manufacturing, mounting and maintaining of scaffold or work platform; – supply of the materials necessary for plastering according to the Technical Specifications; – mounting of the thermo-insulation system made of extruded polystyrene; – mounting of the STNB steel mesh on top of the thermo-insulation layer and anchoring to the structure; – plastering of the areas indicated in the plans, according to the technical Prescriptions and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 		

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Codul Normei Norm Code	A00049	Tencuieli exterioare driscuite executate in camp continuu, cu mortar M25T, sort din tabla prevopsita si termosistem cu polistiren pe plasa STNB
Unitate de masura Measuring Unit	m²	Exterior smooth plastering on even surfaces made of M25T type plastering mortar on pointwelded steel mesh (STBN), apron of pre-painted sheet metal, executed on top of a thermo-insulation system of Polystyrene
<p>Descriere Description:</p> <ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii, termosistemului si protectiei lui, sortul din tabla, conform caietelor de sarcini; – executarea termosistemului din polistiren extrudat; – montarea plasei STNB peste stratul termiozolant si ancorarea ei de structura; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – montarea sortului din tabla prevopsita; – executarea vopsitoriei lavabile de exterior; – demontarea schelei de fatada; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces to be plastered by brushing and cleaning of the support layer; – manufacturing, mounting and maintaining of the scaffold or work platform; – supply of the material necessary for plastering, for the thermo-insulation system and its protection, for the metal apron, according to the Technical Specifications; – mounting of the thermo-insulation system made of extruded polystyrene; – mounting of the point-welded mesh (STNB) on top of the thermo-insulation layer and anchoring to the structure; – plastering of the areas indicated in the plans, according to the technical prescriptions and Technical Specifications; – mounting of the apron made of pre-painted sheet metal; – painting with washable paint for exterior use; – dismantling of the scaffold; – cleaning and transport of the materials from work site; – checking of the material quality and works execution. 		

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Codul Normei Norm Code	A00050	Finisaj exterior cu termosistem din polistiren, plasa din fibra de sticla si tencuiala subtire.
Unitate de masura Measuring Unit	m²	Façade finish with Polystyrene thermo-insulating system, glass fibre mesh and thin coating.
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a fi tratate cu termosistem, verificarea calitatii stratului suport al termosistemului prin buciardare; – decopertare tencuială existentă deteriorată; reparații/înlocuire tencuială existentă în zonele desprinse/deteriorate; – desfacere glafuri exterioare/sorțuri atic/profile de acoperire rost existente, – procurarea si montarea schelei si a altor utilaje necesare executiei; – procurarea materialelor necesare tencuielii si termoizolatiei din polistiren, conform caietelor de sarcini; – executarea termoizolatiei pe suprafetele indicate in planuri, conform prescriptiilor tehnice; – executarea tencuielii subtiri; – executare glafuri/șorțuri de atic/profile de acoperire rost noi, conform proiect și/sau caiet de sarcini – executarea vopsitoriei lavabile, conform indicatiilor din caietul de sarcini; – curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor in ceea ce priveste planeitatea si verticalitatea suprafetelor , aspectul suprafetei finisate 	

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- preparation of the surfaces to be covered with the new thermo-insulation system, checking of the quality of the support layer for the thermosystem by bush hammering;
- removing of exiting battered plaster; making good/replacing of areas with deteriorated/removed plaster;
- removing of the existent exterior window sills/ roof coping (flashing)/joint covering profiles.
- supply and mounting of scaffold and of any other equipment necessary for the works;
- supply of the material necessary for coating and Polystyrene thermo-insulation, as required by the Technical Specifications;
- mounting of the thermo-insulation on the surfaces indicated in the plans and as required by the technical prescriptions;
- execution of the finishing coat;
- execution of the new exterior window sills/roof coping (flashing)/joint covering profiles as per detailed design and/or technical specifications
- painting with washable paint as indicated in the Technical Specifications;
- cleaning of the work site;
- horizontal and vertical transport and handling of the resulting rubbish;
- loading and transport by vehicle of the rubbish to an authorised dump site;
- checking of the quality of the materials and the works execution with regard to smoothness and verticality, as well as to the general aspect of the finished surface.

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Codul Normei Norm Code	A000150	Tencuieli impermeabile executate la bazine
Unitate de masura Measuring Unit	m²	Waterproofing plaster executed for swimming pool
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a se tencui prin periere si curatare a stratului suport; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor necesare tencuielii, conform caietelor de sarcini si a prescriptiilor tehnice privind impermeabilitatea bazinelor; – executarea tencuielii pe suprafetele indicate in planuri, conform prescriptiilor tehnice si a caietelor de sarcini; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul materialelor de la locul de lucru; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces to be plastered through brushing and cleaning the support layer; – manufacturing, mounting and maintaining of the scaffold or work platform; – supply of the materials necessary for plastering, according to the Technical Specifications and technical prescriptions regarding swimming pool waterproofing; – plastering on the surfaces indicated in the plans, according to the technical prescriptions and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A00151	Profile exterioare trase pe loc la solbancuri, ancadramente latime < 50 cm cu praf de piatra, driscuite fin cu mortar M50-T
Unitate de masura Measuring Unit	m	Exterior plaster elements for in-situ moulded exterior window sills, width < 50 cm, with natural fine aggregate finish, made of plastering mortar M50T type
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma, culoarea si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – trasarea formelor geometrice ale profilor trase pe loc la solbancuri, ancadramente <50cm.; – aplicare materialului in 1-2 straturi succesive, conform detaliilor din documentatia desenata, de la stratul de baza la stratul finit; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works, in form, colour and sizes according to the Technical Specifications and to the Detailed Design; – making of the geometrical shapes of the moulded sillboard profiles, width < 50 cm; – material application in 1 to 2 successive layers, according to the graphic design documents, from the base layer to the finishing layer; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and horizontal and vertical transport of the rubbish; – checking of the material quality and works execution. 	
Codul Normei Norm Code	A000152	Profile exterioare la brauri cu latimea < 30 cm, cu praf de piatra, driscuite fin cu mortar M50-T, trase pe loc
Unitate de masura Measuring Unit	m	Exterior plastered mouldings frieze with width < 30 cm, with natural fine aggregate finish executed in-situ with plastering mortar M50T type
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma, culoarea si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – trasarea formelor geometrice ale profilor la braiele <30cm.; – aplicare materialului in 1-2 straturi succesive, conform detaliilor din documentatia desenata; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – necessary materials supply for work execution at form, adequate colour and sizes, according to Technical Specifications and Detail Design ; – geometrical form pegging at manufactured profiles, frames < 30 cm; – material application in 1 – 2 succesive layers, according to drawn documentation, from base layer to last layer; – materials transport and handling on horizontal and vertical; – work site rubbish cleaning and transport on vertical and horizontal; – materials quality checking and works execution. 		
Codul Normei Norm Code	A000153	Lambriu la pereti din lemn de stejar in lamele
Unitate de masura Measuring Unit	m²	Oak wood panels at walls tongue-and-groove
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare montarii lambriurilor la pereti – pregatirea stratului suport prin curatarea de materiale necoezive, montarea asterelii pe pereti; – montarea lambriurilor din lamele de stejar prin holtzsuruburi, conform tehnologiei din Caietele de sarcini. – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the assembling of the wall panelling; – preparation of the support by cleaning from any non-cohesive materials, – fixing of battens onto the wall. – mounting of the oak panels by means of special screws for wood, according to the technology indicated in the Technical Specification; – horizontal and vertical transport and handling of the material; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution. 	
Codul Normei Norm Code	A000154	Glafuri prefabricate mozaicate
Unitate de masura Measuring Unit	m²	Prefab terrazzo sillboards
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si materialelor necesare montarii glafurilor prefabricate; – pregatirea stratului suport prin curatarea de materiale necoezive, amorsarea suprafetelor; – aplicarea stratului de mortar de poza, necesar montarii glafurilor prefabricate; – montarea pe pozitie a glafurilor prefabricate, finisarea si remedierea dupa intarirea mortarului a eventualelor defecte ale materialelor; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply of the tools and materials necessary for mounting of the prefab terrazzo sillboards; – preparation of the support layer by cleaning from any non-cohesive materials, priming; – execution of mortar bed, necessary to lay the prefab sillboard; – placing into position of the prefab sillboard, finishing and repair of any material defaults after mortar hardening; – checking of the material quality and works execution. 		
Codul Normei Norm Code	A00064	Glafuri turnate din mozaic de marmura
Unitate de masura Measuring Unit	m	Sillboard cast in situ of marble terrazzo
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma, culoarea si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – montarea pe pozitie a cofrajelor pentru turnarea glafului mozaicat; – turnarea glafurilor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply necessary materials for work execution at form, colour and size according to Technical Specifications and Detailed Design; – formwork installation for casting terrazzo sills; – sills casting; – transport and handling the materials on horizontal and vertically; – cleaning the work site and rubbish transport on vertically and horizontally; – checking the materials quality and works execution. 	
Codul Normei Norm Code	A000156	Grile de ventilatii din PVC cu plasa
Unitate de masura Measuring Unit	buc/piece	PVC ventilation grills with mesh
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare montarii grilelor pe pozitia din proiect; – montarea si fixarea pe pozitie a grilelor de ventilatie, montare plaselor de protectie; – inchiderea rosturilor dintre grila si rama suport; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – Supply of the materials necessary for mounting of the grills in the designed positions; – Mounting and fixing of the ventilation grills in the position, mounting of the protection mesh; – closing of the joints between grills and support frame; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A000157	Glafuri din cherestea de rasinoase
Unitate de masura Measuring Unit	m²	Interior solid wooden sill boards
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si a materialelor necesare montarii glafurilor din cherestea de rasinoase; – pregatirea stratului de suport, eliminarea materialelor necoezive, rectificari ale planeitatii; – montarea diblurilor din lemn sau PVC; – montarea glafurilor la pozitia din proiect, prin intermediul holtzsuruburilor, inclusiv repararea muchiilor usor deteriorate; – verificari ale calitatii materialelor si a executiei lucrarilor de montaj glafuri din cherestea. 	
	<ul style="list-style-type: none"> – supply of tools and materials necessary for mounting of the wooden sillboards; – preparation of the support layer prepairing, elimination of any non-cohesive materials, repair of evenness; – mounting of wooden or PVC dowels; – mounting of the sill board in the designed positions, by means of special screws for wood, including repair of deteriorated areas; – checking of material quality and mounting works of wooden sillboard 	
Codul Normei Norm Code	A000158	Lambriu la pereti din panouri material compact laminat
Unitate de masura Measuring Unit	m²	Laminated compact panels at walls (dado)
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare montării lambriurilor la pereti, inclusiv structură/accesorii de montaj; – pregatirea/repararea stratului suport, montarea sistemului de prindere; – montarea panourilor de lambriu inclusiv accesorii, conform tehnologiei din caietele de sarcini și/sau instrucțiuni producător; – transportul si manipularea materialelor pe orizontală și pe verticală; – curățarea locului de muncă si transportul deșeurilor pe verticala și orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – supply of the materials necessary for the assembling of the wall panelling including fixings/accessories; – preparation of the support layer, fixing of support system onto the wall; – mounting of the laminateds panels, including accessories, as per technology indicated in the Technical Specification and/or Manufacturer's instructions; – horizontal and vertical transport and handling of the material; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	A00061	Elemente liniare pentru glafuri din pal melaminat la interior
Unitate de masura Measuring Unit	m	Linear elements for sillboards made of chipboard melamine resin coated for interior use
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma, culoarea si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – montarea pe pozitie a glafurilor; – fixarea glafurilor in elementele de ancoraj; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for execution of the work in form, colour and dimensions as required by the Technical Specifications and Detailed Design; – mounting in position of the sillboard; – sillboard fixing to the support; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and transport of the rubbish resulted by horizontal and vertically; – checking the quality materials and the works execution. 	

2.3.8 TAVAN SUSPENDAT / SUSPENDED CEILINGS

Codul Normei Norm Code	A00051	Tavan suspendat din placi de gipscarton 12,5 mm rezistent la umiditate pe suportii metalici si vata minerala de 50 mm, inclusiv finisarea suprafetelor si montare accesorii
Unitate de masura Measuring Unit	m²	Suspended ceiling made of gypsumboard panels 12.5 mm, humidity-proof on metallic suspension system and mineral wool of 50 mm, including making good of surfaces and mounting accessories
Descriere Description:	<ul style="list-style-type: none"> – trasarea tavnelor la nivelul fixat in planuri; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura ; – fixarea placilor/saltelelor din vata minerala; – fixarea placilor de gipscarton pe suportii metalici, conform planurilor si detaliilor ; – inchederea rosturilor dintre placi si chituirea rosturilor; – procurare si utilizare vopsea lavabila; – transportul si manipularea materialelor pe orizontala si pe verticala ; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala ; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting-out of the ceilings at the level indicated in the plans; – supply of the humidity-proof gypsumboard panels, of materials for assembling (metal profiles, hangers, bolts, mineral wool blankets, adhesive tape etc.) and cutting into sizes, according to the Technical Specifications and Detailed Design; – mounting of the metal profiles in positions indicated in plan and anchoring to the loadbearing structural elements; – mounting of the metal frames for access traps in sizes and positions as indicated in the plans and anchoring to the main profiles; – placing of the mineral wool blankets; – mounting of the gypsumboard panels onto the metallic suspension system, according to the plans and details; – closing of the joints between panels with tape and proprietary compound material, and sanding of joints; – making good of the gypsumboard surfaces with gypsum repair putty; – supply of washable paint and painting; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00052	Tavan suspendat din placi de gipscarton 12,5 mm fonoizolant, pe suporti metalici si vata minerala de 80 mm, inclusiv finisarea suprafetelor si montare accesoriiile
Unitate de masura Measuring Unit	m²	Sound-proofing suspended ceiling made of gypsumboard panels, thickness 12.5mm, on metallic suspension system and mineral wool mats, thickness 80 mm, including making good of surfaces and mounting accessories
Descriere Description:	<ul style="list-style-type: none"> – trasarea tavanelor la nivelul fixat in planuri; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placile din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – fixarea placilor din vata minerala; – fixarea placilor de gipscarton pe suportii metalici, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala ; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – setting out of ceilings at the levels indicated in the plans; – supply of gypsumboard panels, of assembling materials (metal profiles, hangers, bolts, mineral wool blankets, adhesive tape etc.) and cutting into sizes, according to the Technical Specifications and Detailed Design; – mounting of the metal profiles in positions indicated in plan and anchoring to the loadbearing structural elements; – placing of the mineral wool mats; – mounting of the gypsumboard panels onto the metallic suspension system, according to the plans and details; – closing of the joints between panels with tape and proprietary compound material, and sanding of joints; – supply of washable paint and painting; – horizontal and vertical transport and handling of the materials ; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00053	Tavan suspendat din placi de gipscarton 2x12,5 mm rezistent la foc, pe suporti metalici si vata minerala de 100 mm, inclusiv finisarea suprafetelor si montare accesorii
Unitate de masura Measuring Unit	m²	Suspended ceiling made of fire-resistant gypsumboard panels 2x12.5mm, fixed onto metallic suspension system, mineral wool mats 100 mm on top, including making good of surfaces and mounting accessories
Descriere Description:	<ul style="list-style-type: none"> – trasarea tavanelor la nivelul fixat in planuri; – procurarea placilor din gipscarton, a materialelor pentru montaj (profile metalice, suruburi, placi din vata minerala, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prilelor metalice pe pozitiile si la nivelul indicat in plan, si ancorarea lor de elementele de structura; – fixarea placilor din vata minerala de 100 mm grosime; – fixarea celor 2 randuri de placi gipscarton rezistente la foc pe suportii metalici, conform planurilor si detaliilor; – inchiderea rosturilor dintre placi si chituirea rosturilor cu materiale adecvate; – procurare si utilizare vopsea lavabila – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of ceilings at the levels indicated in the plans; – supply of the gypsumboard panels, of assembling materials (metal profiles, bolts, hangers, mineral wool mats, adhesive tape, others) and cutting into sizes according to the Technical Specifications and Technical Design; – mounting of the metal profiles in positions and at the levels indicated in the plans and anchoring to the loadbearing structural elements; – placing of the mineral wool mats, 100 mm thickness; – fixing the double-layer of fire-proof gypsumboard panels onto the metallic suspension system, according to the plans and details; – closing of the joints between the panels and luting of the joints with adequate filling material; – supply of washable paint and painting – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00054	Tavan suspendat casetat si suportii metalici, inclusiv finisarea suprafetelor si montare accesorii
Unitate de masura Measuring Unit	m²	Suspended ceiling made of modular panels supported by a metallic suspension system, including making good of surfaces and mounting accessories
Descriere Description:	<ul style="list-style-type: none"> – trasarea tavanelor la nivelul fixat in planuri; – procurarea placilor casetate, a materialelor pentru montaj (profile metalice, suruburi, placi din vata minerala, profile aparente etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea prifilelor metalice pe pozitiile si la nivelul indicat in plan, si ancorarea lor de elementele de structura; – fixarea placilor casetate pe suportii metalici si profilele aparente, conform planurilor si detaliilor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting out of the ceilings at the levels indicated in the plans; – supply of the gypsumboard panels and of materials for assembling (primary and secondary metal rails, bolts, hangers, mineal wool blankets, edge profiles,) cutting into sizes, according to the Technical Specifications and Detailed Design; – mounting of the metal rails in positions and at levels as indicated in plan, anchoring to the loadbearing structural elements; – placing of the modular gypsumboard panels onto the metal supports and visible secondary profiles, according to the plans and details; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A000155	Tavane suspendate din panouri PAL/OSB conform specificatiilor tehnice
Unitate de masura Measuring Unit	m²	Suspended ceiling made of PAL/OSB panels according to technical specifications
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma si la cota prevazute in proiectului tehnic; – montarea schelelor amovibile pe pozitia de montare a placilor de OSB; – fixarea accesoriilor de suspendare si ancorare a placilor OSB, de stratul suport; – montarea placilor la pozitia prevazuta in proiectul tehnic de arhitectura – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – supply of materials necessary for the execution of the work in a form and at the level required by Detail Design; – mounting of mobile scaffolds at the position of installation of OSB panels; – fixing of the suspension accessories for OSB panels onto the supporting structure; – mounting of the panels in position according to the Architectural Detail Design; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution 	

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2.3.9 LUCRARI DE VOPSITORIE / PAINTING WORKS		
Codul Normei Norm Code	A00055	Vopsitorie lavabila executata la pereti si tavane (altele decat cele din gipscarton) cu vopsele lavabile de interior, inclusiv gletul de ipsos
Unitate de masura Measuring Unit	m²	Painting executed on walls and ceilings (except those made of drywall boards) with washable/emulsion paint for interior use, including gypsum skim coat
<p>Descriere Description:</p> <ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati inclusiv desfacere finisaj existent; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi vopsite, inclusiv slefuirea gletului; – vopsirea cu vopsea lavabila de calitate si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces by cleaning from dust and any other impurities including removal of existent finish; – manufacturing, mounting and maintaining of the scaffold or work platform; – supply of the materials according to the Technical Specifications and specific technical prescriptions for the used materials; – skim coating of the surfaces to be painted, including polishing of finishing layer; – painting with washable paint in a quality and colour as required by the Technical Specifications and Detailed Design; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 		

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Codul Normei Norm Code	A00056	Zugraveli executate cu lapte de var la pereti si tavane (altele decat cele de gipscarton)
Unitate de masura Measuring Unit	m²	Painting executed with limewash on walls and ceilings (except those made of drywall boards)
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati inclusiv desfacere finisaj existent; – confectionarea, montarea si utilizarea schelelor sau a podinelor; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi zugravite, inclusiv slefuirea gletului; – zugravirea cu lapte de var de calitatea si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – preparation of the areas by cleaning from dust and any other impurities including removal of existent finish; – manufacturing, mounting and maintaining of the scaffold or work platform; – supply of the materials according to the Technical Specifications and specific technical prescriptions for the used materials; – plastering of the surfaces to be painted, including polishing of finishing layer; – coating with limewash in a quality and colour as required by the Detailed Design; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00057	Vopsitorie la interior executata cu vopsea de ulei, inclusiv gletul de ipsos (exceptand pereti/tavane din gipscarton)
Unitate de masura Measuring Unit	m²	Interior painting executed with oil paint, including polishing gypsum skim coat (except walls/ceilings made of drywall boards)
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati, inclusiv desfacere finisaj existent; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – gletuirea suprafetelor ce urmeaza a fi vopsite, inclusiv slefuirea gletului si indepartarea impuritatilor; – vopsirea cu vopsea de ulei de calitatea si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – preparation of the surfaces by cleaning from dust and any other impurities including removal of existent finish; – supply of the materials according to the Technical Specifications and specific technical prescriptions for the used materials; – plastering of the surfaces to be painted, including polishing of the finish layer and cleaning from any impurity; – painting with oil paint in a quality and colour according to the detailed design and Technical Specifications; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	A00057a	Ignifugare sarpanta din lemn
Unitate de masura Measuring Unit	m²	Fireproofing treatment to wooden roof structure
Descriere Description:	<ul style="list-style-type: none"> - procurare materiale necesare ignifugarii conform Caiete de sarcini și/sau specificații producător; - transportul si manipularea materialelor pe orizontala si verticala; - pregatirea suprafetelor prin curatare de praf si de alte impuritati; - aplicare tratament ignifug. 	
	<ul style="list-style-type: none"> - supply necessary materials for fireproofing in accordance with Technical Specifications and Manufacturers' instructions and guarantees; - horizontal and vertical transport and handling of the materials; - surfaces cleaning from dust and other impurities; - applying the fireproofing treatment. 	
Codul Normei Norm Code	A00058	Vopsitorie executata pe tencuieli driscuite cu vopsele lavabile de exterior
Unitate de masura Measuring Unit	m²	Painting executed on float plasters with washable paint for exterior use
Descriere Description:	<ul style="list-style-type: none"> – pregatirea suprafetelor prin curatarea de praf si alte impuritati; – procurarea materialelor conform caietelor de sarcini si prescriptiilor tehnice specifice materialelor utilizate; – vopsirea cu vopsea lavabila de exterior de calitatea si culoarea stabilita in caietul de sarcini si proiectul tehnic; – transportul si manipularea materialelor pe orizontala si verticala; – curatarea si transportul materialelor de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – preparation of the surface by cleaning from dust and any impurities; – supply of the materials according to the Technical Specifications and specific technical prescriptions for the used materials; – painting with washable paint for exterior use in a quality and colour as required by the Technical Specifications and Detailed Desing; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00158	Grunduire și vopsire confecții metalice cu vopsea termosfumantă rezistentă la foc
Unitate de masura Measuring Unit	m²	Primer-coating and painting of metallic assemblies with fire-proofing paint developing foam at high temperatures
Descriere Description:	<ul style="list-style-type: none"> – procurare materiale ; – transport auto la locul de punere în operă; – manipulare materiale; – utilizare schelă ; – grunduire și vopsire confecții metalice; – verificarea calității materialelor și a execuției lucrărilor. <hr/> <ul style="list-style-type: none"> – supply of the materials; – transport by vehicle to the work site; – materials handling; – maintaining of the scaffold; – primer-coating and painting of the metallic assemblies; – checking of the material quality and works execution . 	
Codul Normei Norm Code	A00070	Închideri cu panouri aluminiu finisate în diverse culori, inclusiv structura metalică de susținere și accesoriile de montaj
Unitate de masura Measuring Unit	m	Closing with aluminium panels in different colours including sustaining metallic substructure and mounting accessories
Descriere Description:	<ul style="list-style-type: none"> – procurare materiale și materialului pentru montaj – transport auto la locul de punere în operă – montare și utilizare schelă – debitarea și montarea profilelor și confecțiilor metalice de susținere – manipulare materiale – montare panouri – verificarea calității materialelor și a execuției lucrărilor <hr/> <ul style="list-style-type: none"> – supply of the materials – transport by vehicle to the work site; – mounting and operation of the scaffold; – cutting into the required sizes and mounting of the profiles and metallic structures for support; – materials handling; – mounting of the panels; – checking of the quality of the materials and works execution. 	

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Codul Normei Norm Code	A00071	Curatarea si protejarea zidariei aparente exterioare cu lacuri speciale
Unitate de masura Measuring Unit	m²	Cleaning decorative masonry and protecting by special clear coats
Descriere Description:	<ul style="list-style-type: none"> – procurare materiale ; – transport auto la locul de punere în operă; – manipulare materiale; – utilizare schelă ; – curatarea suprafetelor prin slefuire/sablare si indepartare a impuritatilor – reparatii locale prin chituire si aducere la culoare – repararea rosturilor – aplicarea lacului special – verificarea calității materialelor și a execuției lucrărilor. 	
	<ul style="list-style-type: none"> – supply of the materials – transport by vehicle to the work site; – mounting and operation of the scaffold; – materials handling; – cleaning decorative masonry using abrasive materials/sandblasting and clearing of dust; – local patching/filling using color matching materials; – joints clearing/repairing; – spraying clear coating; – checking of the quality of the materials and works execution. 	

2.3.10 LUCRARI DE HIDRO – TERMOIZOLATIE SI TRATAMENT ACUSTIC FONOABSORBANT / WATERPROOFING, THERMO-INSULATION WORKS AND SOUND ABSORBING TREATMENT		
Codul Normei Norm Code	AT0001	Hidro-termoizolatie executata pe suprafete orizontale, realizata cu folii termosudabile si polistiren, inclusiv stratul suport si de protectie, izolarea strapungerilor etc, conform detaliilor
Unitate de masura Measuring Unit	m²	Waterproofing and thermo-insulation executed on horizontal and vertical surfaces, carried out with thermo-weldable foils and Polystyrene panels, including support and protection layer, waterproofing of the water outlets etc. according to the details
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (folii termosudabile, emulsii bitumate, polistiren, sape si alte materiale de protectie etc), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – executarea succesiva a straturilor de terasa, conform detaliilor si normativelor de executie a hidroizolatiilor cu folii termosudabile si termoizolatiilor cu polistiren; – executarea izolatiei gurilor de scurgere, a iesirilor de ventilatii si protejarea lor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor, inclusiv inundarea terasei. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works (thermo-weldable sheet, bitumen emulsion, Polystyrene, screed and other protection materials) as required by the Technical Specifications regarding material quality and dimensions used, as well as by the prescriptions of the detailed design; – successive execution of the terrace layers, required by the details and executions norms for waterproofing with thermo-weldable sheet and thermo-insulation with polysterene; – execution of the waterproofing for the rainwater roof outlets, ventilation ducts etc. and their protection; – horizontal and vertically transport and handling of the materials; – cleaning of the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution, including terrace flooding. 		

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Codul Normei Norm Code	AT0002	Hidroizolatie executata pe suprafete verticale, realizata cu folii termosudabile, inclusiv stratul suport si de protectie, pe inaltimi pana la 1 m
Unitate de masura Measuring Unit	m	Waterproofing executed on vertical surfaces, carried out with thermo-weldable foils, including the support and protection layer, applicable for areas up to 1 m height
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (folii termosudabile, emulsii bitumate, sape si alte materiale de protectie etc), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – executarea succesiva a straturilor hidroizolante verticale, conform detaliilor si normativelor de executie a hidroizolatiilor cu folii termosudabile; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works (thermo-weldable sheet, bitumen emulsion, protection materials) required by the Technical Specifications regarding material quality and dimensions used, as well as by the prescriptions of detailed design; – successive execution of the vertical waterproofing layers, required by the details and executions norms for waterproofing with thermo-weldable sheet; – horizontal and vertical transport and handling of the materials; – cleaning of the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 		

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Codul Normei Norm Code	AT0003	Hidroizolatie executata pe suprafete verticale pana la 1 m inaltime, realizata cu folii termosudabile, inclusiv stratul suport, la subsol
Unitate de masura Measuring Unit	m	Waterproofing membranes executed on vertical surfaces up to 1 m height, executed with thermo-weldable foils, including support layer, in basements
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (folii termosudabile, emulsii bitumate, sape si caramizi, alte materiale de protectie etc), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – executarea succesiva a straturilor hidroizolante verticale, conform detaliilor si normativelor de executie a hidroizolatiilor cu folii termosudabile; – executarea zidariei de protectie a hidroizolatiei ; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works (thermo-weldable sheets, bitumen emulsion, screed and bricks, as well as other protection materials etc.), strictly according to the requirements of the Technical Specifications regarding material quality and sizes, as well as of the Detailed Design prescriptions; – successive execution of the vertical waterproofing layer, according to the details and execution norms for waterproofing with thermo-weldable sheets; – execution of the protective masonry of the waterproofing; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	AT0004	Hidroizolatie executata cu folii termosudabile pe suprafate orizontale si verticale, la grupurile sanitare
Unitate de masura Measuring Unit	m²	Waterproofing executed with thermo-weldable foil on horizontal and vertical surfaces, in sanitary rooms
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (folii termosudabile, emulsii bitumate etc), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – executarea straturilor de izolatie, conform detaliilor si normativelor de executie a hidroizolatiilor cu folii termosudabile; – executarea izolatiei gurilor de scurgere (sifoane de pardoseala); – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor, inclusiv inundarea terasei <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works (thermo-weldable sheets, bitumen emulsion etc.) strictly according to the requirements of the Technical Specifications regarding quality and material sizes, as well as of the prescriptions of the Detailed Design; – execution of the waterproofing layers, according to the details and execution norms for waterproofing with thermo-weldable sheets; – execution of the waterproofing around floor outlets (traps) for water; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution, including flood test. 	

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Codul Normei Norm Code	AT0005	Termoizolatie cu polistiren expandat 5 cm asezat la intradosul planseului subsolului si fixat cu mustati si plasa STNB
Unitate de masura Measuring Unit	m²	Thermo-insulation made of expanded Polystyrene, 5 cm thickness, anchored to the ground floor slab intrados covered with point-welded wire mesh (STNB) in the basement
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (polistiren, ancore sarma Zn, plasa STNB etc), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – prinderea ancorelor de intradosul planseului; – executarea izolatiei cu polistiren; – prinderea plasei STNB cu ancorele de sarma Zn; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor' <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the works (Polystyrene, galvanised wire, STNB mesh etc.) according to strict requirements of Technical Specifications regarding the sizes and material sizes, and also the prescription of Detailed design; – fixing of anchors for wire mesh at the intrados of ground floor slab, in the basement. – execution of the polystyrene insulation; – connecting the STNB mesh with the galvanised wire mesh ; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution, 		

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Codul Normei Norm Code	AT0006	Izolatii speciale la bazine, executate cu solutie impermeabila pe baza de ciment si rasina epoxidica, aplicata pe suprafete orizontale sau verticale
Unitate de masura Measuring Unit	m²	Special swimming pool waterproof coating, executed with waterproofing solution cement based and epoxy, applied on horizontal or vertical surfaces
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma, culoarea si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – verificarea suprafetelor pe care va fi aplicata solutia impermeabila; – remedierea/corectarea planeitatii si a defectelor locale cu materiale recomandate de producator; – prepararea solutiei impermeabile, conform prescriptiilor producatorului; – aplicarea solutiei, conform prescriptiilor producatorului ; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the work in form, colour and sizes as specified in the Technical Specifications and Detailed Design; – checking of the surfaces where the waterproofing solution is to be applied ; – remedial works for flatness of surfaces and local defects with recommended materials as per manufacturer's prescriptions; – preparing/applying waterproofing solution according to the manufacturer's prescriptions; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution 	

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Codul Normei Norm Code	AT0007	Izolatii termice la tavane cu placi polistiren de 30 mm
Unitate de masura Measuring Unit	m²	Thermo-insulation on ceilings made of Polystyrene panels, thickness 30mm
Descriere Description:	<ul style="list-style-type: none"> – procurarea placilor din polistiren de 30mm grosime a materialelor pentru montaj (profile metalice, suruburi, benzi adezive, etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – fixarea placilor din polistiren de 30mm grosime; – inchiderea rosturilor dintre placi; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor 	
	<ul style="list-style-type: none"> – supply of polystyrene panels of 30mm thickness and of mounting materials (metal profiles, screws, self-adhesive tape etc.) and cutting into sizes according to the Technical Specifications and Detailed Design; – mounting of metal profiles in position according to the plan and anchoring to the structural elements; – fixing of the Polystyrene panels, 30 mm thickness; – closing of the joints between the panels; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and vertical and horizontal transport of the rubbish; – checking of the material quality and works execution. 	
Codul Normei Norm Code	AT0008	Etansare rosturi orizontale cu fasii polistiren/vata minerala 24 mm
Unitate de masura Measuring Unit	m	Closing of horizontal joints made of 24 mm of Polystyrene or mineral wool with adhesive sealant
Descriere Description:	<ul style="list-style-type: none"> – procurarea sculelor si materialelor necesare etansarii rostului; – curatarea rostului dintre fasiile de polistiren; – montarea fasilor de vata minerala prin fortare; – etanseizarea cu banda adeziva ; – verificarea materialelor puse in opera si a executarii umplerii rostului dintre trotuar si soclul cladirii. 	
	<ul style="list-style-type: none"> – supply of tools and materials necessary for closing of joints; – cleaning of the joint between the polystyrene panels; – mounting of the mineral wool panels by forcing them in; – closing with adhesive sealant strips; – checking of the materials used and of the execution of the filled joints between perimeter paving and the base of the building. 	

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Codul Normei Norm Code	AT0009	Hidroizolatii cu carton bitumat
Unitate de masura Measuring Unit	m²	Waterproofing with bituminous carton
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii (suluri de carton bitumat, emulsii bitumate, bitum in butoaie), conform cerintelor stricte ale caietului de sarcini privind calitatile si dimensiunile materialelor puse in opera, precum si a prescriptiilor proiectului tehnic; – pregatirea stratului suport, curatarea de impuritati; – montarea succesiva a straturilor de carton bitumat cu bitum topit, conform detaliilor si normativelor de executie a hidroizolatiilor cu carton bitumat; – executarea izolatiei gurilor de scurgere, a iesirilor de ventilatii si protejarea lor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor, inclusiv inundarea terasei. 	
	<ul style="list-style-type: none"> - supply of the materials necessary for the execution of the work (bituminous carton, bituminous solution, bitumen in barrel), strictly according to the requirements of the Technical Specifications regarding quality and material sizes, and as per Detailed Design prescriptions; - successive mounting of the bituminous carton layers with hot-applied bitumen, according to the details and execution standards for waterproofing with bituminous carton; - waterproofing around rainwater roof outlets, ventilation ducts and protection; - horizontal and vertical transport and handling of the materials; - cleaning of the work site and vertical and horizontal transport of the rubbish; - checking of the material quality and works execution, including terrace flood test. 	
Codul Normei Norm Code	AT0010	Tratament acustic fonoabsorbant din placi fonoabsorbante și saltele vată minerală conform specificatiilor tehnice
Unitate de masura Measuring Unit	m²	Sound absorption treatment by sound-absorbing panels and mineral wool mats
Descriere Description:	<ul style="list-style-type: none"> – procurare materiale și material mărunț necesar montajului; – transport auto la locul de punere în operă; – manipularea materialelor și montaj. 	
	<ul style="list-style-type: none"> - supply of the materials necessary for mounting according to the Technical specifications; - transport by vehicle to the work site; - handling and mounting of the materials 	

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2.3.11 LUCRARI DE BETON /CONCRETE WORKS		
Codul Normei Norm Code	AB0001	Beton simplu turnat in straturi, diverse protectii, inclusiv transportul
Unitate de masura Measuring Unit	m³	Plain concrete cast in layers , diverse protective layers, including transport
Descriere Description:	<ul style="list-style-type: none"> – trasarea zonei pe care se va turna betonul si asigurarea conditiilor de turnare; – procurarea materialelor conform caietului de sarcini si proiectului tehnic; – executarea turnarii betonului conform planurilor si detaliilor; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – setting-out of the area where the concrete is to be cast and assurance of the required casting conditions; – supply of the materials according to the Technical Specifications and Detailed Design; – in-situ casting of the concrete according to the plans and details; – horizontal and vertical transport and handling of the materials; – cleaning of the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	

2.3.12 LUCRARI DE TINICHIGERIE SI DE TAMPLARIE/ TINSMITH WORKS AND JOINERY		
Codul Normei Norm Code	A00065	Elemente liniare pentru glafuri, tabla zincata de 0.50 mm la exterior
Unitate de masura Measuring Unit	m	Linear elements for sills, galvanized steel sheet 0.5 mm for exterior use
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – montarea pe pozitie a glafurilor; – fixarea glafurilor in elementele de ancoraj ; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply the necessary material for execution the work at form and dimension requested by Technical Specifications and Detailed Design; – putting in place of sill; – sill board fixing onto the fixing elements; – horizontal and vertical transport and handling the materials ; – cleaning the work site and horizontal and vertical transport the resulting rubbish; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	AI0001	Invelitoare din tabla plana astereala din scanduri, folie pentru bariera contra vaporilor, izolatie din vata minerala, paziile si accesorii necesare, conform proiect
Unitate de masura Measuring Unit	m²	Sheet metal roof covering on wooden decking, vapour barrier foil, thermo-insulation made of mineral wool, fascia board, accessories as per Detailed Design.
<p>Descriere Description:</p> <ul style="list-style-type: none"> – trasarea zonei pe care se va executa invelitoare si asigurarea conditiilor de executie; – montare si utilizare schela si/sau plasa protectie/siguranta – procurarea materialelor conform caietului de sarcini si proiectului tehnic; – debitarea tuturor materialelor la dimensiunile din proiect; – fixarea plasei de siguranta pentru executia invelitorii; – executarea lucrarilor de invelitoare: izolatie termica din vata minerala, astereala din scanduri, folia pentru bariera de vapori, invelitoara din tabla zincata sau alta tabla, conform specificatiilor din caietul de sarcini, paziile si streasinile, conform detaliilor si prescriptiilor tehnice in vigoare; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 		

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<ul style="list-style-type: none"> – setting out of the roof area to be covered and assurance of the required execution conditions; – mounting and maintaining of scaffold and/or safety net – supply of the materials according to the Technical Specifications and Detailed Design; – cutting of all materials into sizes as required by the design; – fixing of the security netting for the execution of the roof covering works; – execution of the roof covering works: thermo-insulation made of mineral wool, roof decking, foil for vapour barrier, roof covering made of galvanized steel or other metal sheeting, according to the Technical Specifications, including fascia boards and projecting eaves panelling, according to the details and technical prescriptions; – horizontal and vertical transport and handling of the materials; – cleaning of the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 		
Codul Normei Norm Code	AI0001a	Invelitoare din țiglă profilată, astereală de lemn, strat barieră contra vaporilor/hidroizolație, izolația din vată minerală, pazii, sageac și accesorii necesare, conform proiect
Unitate de masura Measuring Unit	m²	Tiles for roof covering on wooden decking, vapour barrier/waterproofing layer, thermo-insulation made of mineral wool, fascia board, accessories as per Detailed Design.
Descriere Description:	<ul style="list-style-type: none"> – trasarea zonei pe care se va executa invelitoare si asigurarea condițiilor de execuție; – montare si utilizare schela si/sau plasa protectie/siguranta; – procurarea materialelor și accesoriiilor necesare conform caietului de sarcini si proiectului tehnic; – executarea lucrarilor de invelitoare: izolatie termica din vata minerala, astereala din scanduri, strat bariera de vaporii/hidroizolație, țigle profilate și acesorii conform specificațiilor din caietul de sarcini, paziile si streășinile, conform detaliilor si prescriptiilor tehnice in vigoare; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor la locul autorizat; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – pegging out the roof area to be covered and assurance of the required execution conditions; – supply, installing and maintaining of scaffold and/or safety net – supply of the necessary materials and accessories according to the Technical Specifications and Detailed Design; – execution of the roof covering works: thermo-insulation made of mineral wool, wooden roof decking, vapour barrier/waterproofing layer, roof covering made of roof tiles and accessories, according to the Technical Specifications, including fascia boards and projecting eaves panelling, according to the details and technical prescriptions; – horizontal and vertical transport and handling of the materials; – cleaning of the site work and horizontal and vertical transport of the resulting rubbish to authorised dumping area; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AI0002	Jgheaburi din tabla 0,5 mm semirotunde
Unitate de masura Measuring Unit	m	Half-round roof gutters made of sheet metal, thickness 0.5 mm
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: jgheaburi semirotunde din tabla zincata sau alta tabla, conform specificatiilor din caietul de sarcini, precum si a accesoriilor pentru montaj; – punerea pe pozitie si fixarea lor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to execute the works: half round gutter made of galvanised steel sheet or other sheet metal, according to the Technical Specifications and Detailed Design; – putting into correct position and fixing; – horizontal and vertical transport and handling of the materials; – cleaning the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AI0003	Burlane din tabla 0,5 mm
Unitate de masura Measuring Unit	m	Rainwater down pipe made of galvanized sheet metal, thickness 0.5mm
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: burlane din tabla zincata sau alta tabla, conform specificatiilor din caietul de sarcini, precum si a accesoriilor pentru montaj; – punerea pe pozitie si fixarea lor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to execute the works: rainwater pipes made of galvanized metal sheet, fasteners etc. according to the Technical Specifications and Detailed Design; – putting into correct position and fixing; – horizontal and vertical transport and handling of the materials; – cleaning of the work site and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	AI0005	Procurare si montare chepeng metalic de acces pe invelitoare
Unitate de masura Measuring Unit	m²	Supply and installation of metallic roof hatch
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor; – verificarea punctelor de fixare a chepengului; – procurarea, punerea la cota si montarea provizorie, conform caietelor de sarcini si a proiectului tehnic; – montarea definitiva a chepengului, inclusiv accesoriile; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – measurement of the opening size; – checking of the fixing points for the hatch; – provision, putting at the right level and pre-installation of the hatch according Technical Specifications and Detailed Design; – definitive installation of the hatch, including accessories (ironmongery); – checking of the material quality and works execution. 	

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Codul Normei Norm Code	AI0006	Confecții metalice diverse montate aparent: grilaje metalice la ferestre, trepte metalice, gratar sters picioare, balustrade scari, mana curenta, inclusiv vopsitoria
Unitate de masura Measuring Unit	kg	Various metal assemblies: metal grilles on windows, cat ladder, foot scraper gratings, balustrades, handrails, including painting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrării: grilaje metalice, trepte din otel beton, gratare de sters picioarele etc; – punerea pe pozitie si fixarea lor prin sudura sau insurubare; – curatarea suprafetelor metalice de impuritati si aderente in vederea aplicarii vopsitoriei; – executarea vopsitoriei la culoarea solicitata in proiect – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to execute the works: metal grilles, cat ladder made of steel reinforcement bars, foot scraper grating etc.; – putting into correct position and fixing by welding of screwing; – cleaning of the metal surfaces from any impurities and residual matter in preparation of the painting; – painting in the colour as required by the design; – protection of the surfaces until completion of all works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the rubbish from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	AI0007	Confecții metalice diverse montate aparent: balustrazi si mana curenta din INOX
Unitate de masura Measuring Unit	kg	Wall-mounted metal assemblies: stainless steel balustrades and handrails
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrării: balustrazi si mana curenta din INOX, precum si a accesoriilor pentru montaj; – punerea pe pozitie si fixarea lor prin sudura sau insurubare; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the material necessary for the execution of the work: stainless steel balustrades and handrails, assembling accessories; – putting into right position and fixing by welding or screwing; – protection of the surfaces until completion of the works; – horizontal and vertical transport and handling of the materials; – cleaning and transport the materials from the work site; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AI0008	Mana curenta din lemn profilat
Unitate de masura Measuring Unit	m	Handrail made of profiled wood
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: mana curenta profilata, precum si a accesoriilor pentru montaj; – punerea pe pozitie si fixarea lor prin insurubare; – lacuirea si lustruirea mainii curente; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the material necessary for the execution of the work: handrails, assembling accessories; – putting into right position and fixing by screwing; – protection of the surfaces until completion of the works; – horizontal and vertical transport and handling of the materials; – cleaning and transport the materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	AI0009	Elemente liniare din tabla zincata 0.5 mm pentru copertine parapeti terasa
Unitate de masura Measuring Unit	m	Linear sheet metal copings, thickness 0.5 mm for covering of roof parapets
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – montarea pe pozitie a glafurilor la atic; – fixarea copertinelor in elementele de ancoraj; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary for the execution of the work in form and dimension as required by the Technical Specifications and Detailed Design; – mounting of the copings in the correct position; – fixing of the copings on fixing brackets; – horizontal and vertical transport and handling of the material; – cleaning the work site and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	AI00010	Balustrada din elemente de sticla si prinderi din INOX
Unitate de masura Measuring Unit	m	Balustrade made of security glass panes and stainless steel fixing elements
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: balustrazi din elemente de sticla si prinderi din INOX, precum si a accesoriilor pentru montaj, conform specificatiilor proiectului tehnic; – punerea pe pozitie si fixarea lor prin sudura sau insurubare; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the material necessary for the execution of the work: balustrade made of security glass panes, stainless steel fixing elements, as well as mounting accessories according to the Detailed Design specifications; – fixing by welding or screwing; – protection of the surfaces until completion of all works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the rubbish from the work site; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	AI00011	Elemente liniare pentru glafuri si copertine din tabla zincata
Unitate de masura Measuring Unit	m	Linear sillboard elements and canopies made of zinc-plated sheet
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor necesare executarii lucrarii: tabla zincata si a accesoriilor pentru montaj; - pregatirea suprafetelor – realizarea unei sape de egalizare din mortar de ciment de M100T; - asezarea pe pozitie a unui strat de carton bitumat sau impaslitura bitumata din fibra de sticla; - croirea tablei si punerea pe pozitie; - fixarea glafurilor de tabla; - transportul si manipularea materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - supply of the materials necessary for the execution of the works: zinc-plated steel sheet, assembling accessories; - preparation of the surface by excecution of a cement mortar bed M100T for levelling; - putting into right position on top of a layer of bituminous carton or bitumen fibre glass underlayment; - cutting of the sheet and fixing in correct position; - fixing of the sillboards panels; - horizontal and vertical transport and handling of the materials; - cleaning and transport of the materials from the work site; - checking of the quality of the materials and the works execution. 	

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2.3.13 ACOPERIȘURI / ROOFING		
Codul Normei Norm Code	A10004	Elemente de sarpanta din lemn pentru sustinere invelitoare
Unitate de masura Measuring Unit	m²	Wood carpentry for support of roof coverings
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: lemn rotund, regele si scanduri, cuie, scoabe, suruburi, conform specificatiilor din caietul de sarcini, precum si a accesoriilor pentru montaj; – debitarea lor la dimensiunile din planuri – punerea pe pozitie si fixarea lor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to execute the works: round timber logs, rectangular sawn joists, boards, deckings and battens, bolts, nails, screws and metal cleats according to the Technical Specifications and Detailed Design; – cutting into sizes as shown in the plans; – putting into correct position and fixing; – horizontal and vertical transport and handling of the material; – cleaning the site work and horizontal and vertical transport of the resulting rubbish; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00063	Panouri de acoperis tip sandwich din tabla cutata inclusiv structura metalica, fixate cu suruburi autofiletante
Unitate de masura Measuring Unit	m²	Sandwich roof panels made of corrugated metal sheeting and thermo-insulation of Polyurethane foam, including metallic support structure, fixing with self-drilling screws
Descriere Description:	<ul style="list-style-type: none"> – procurarea panourilor, a materialelor pentru montaj (profile metalice, suruburi autofiletante etc) si debitarea lor la dimensiuni, conform caietului de sarcini si proiectului tehnic; – procurarea si montarea profilelor metalice pe pozitiile indicate in plan si ancorarea lor de elementele de structura; – aplicarea spumei poliuretaneice pentru izolare locala; – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> – supply the metal panels, of materials for assembling (metal profiles, self-drilling screws) , cutting to specific sizes, according to Detailed Design; – supply and installation of metal structural profiles as per drawings and fixing structure elements; – fixing the sandwich panels; – applying the polyurethane foam for local insulation; – horizontal and vertical transport and handling of materials ; – cleaning the work site and vertical and horizontal transport of the rubbish ; – checking of the material quality and works execution. 		
Codul Normei Norm Code	A00068	Luminatoare executate din aluminiu si cu geam termopan
Unitate de masura Measuring Unit	m	Roof-light (type VELUX or similar) made of aluminium frame with thermopane glazing
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din invelitoare; – verificarea punctelor de fixare; – procurarea, punerea la cota si montarea provizorie a luminatoarelor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a luminatoarelor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre luminator si gol cu spuma poliuretana;; – fixarea geamului termopan in tamplarie; – protejarea tamplariei pana la terminarea lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> – survey of apertures – checking of fixing system/frames; – supply, provisory assembling of roof light , according to Technical Specifications and Detailed Design; – materials supply/installation of accessories; – final fixing, including accessories; – filling of the gaps with polyurethane foam; – installing the sills/cover profile – fixing the thermopan glass in joinery; – protection of joinery until completion of the works; – horizontal and vertical transport and handling the materials ; – checking of the material quality and works execution. 	

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2.3.14 ALTE LUCRARI / MISCELLANEOUS WORKS		
Codul Normei Norm Code	A00059	Finisaj exterior cu caramida aparenta si termosistem din polistiren de 5 cm, pe plasa STNB, inclusiv schela si accesoriile
Unitate de masura Measuring Unit	m²	Exterior wall finish with slipbrick and thermo-insulating system made of 5cm Polystyrene, on point-welded steel mesh (STNB), including scaffold and accessories
<p>Descriere Description:</p> <ul style="list-style-type: none"> – pregatirea suprafetelor ce urmeaza a fi tratate cu termosistem, verificarea calitatii stratului suport al termosistemului; – procurarea si montarea schelei si a altor utilaje necesare executiei; – procurarea materialelor necesare placajului cu caramida aparenta si termoizolatiei din polistiren, conform caietelor de sarcini; – executarea termoizolatiei pe suprafetele indicate in planuri, conform prescriptiilor tehnice; – fixarea plasei STNB de structura si stratul termoizolant din polistiren; – reamestecarea mortarului si introducerea adaosului de ciment si celelalte materiale necesare executarii stratului suport al placajului cu caramida aparenta; – curatarea locului de munca ; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului la in locul autorizat ; – verificari ale calitatii materialelor si a executiei lucrarilor in ceea ce priveste planeitatea, uniformitatea culorii placilor si verticalitatea suprafetelor, aspectul suprafetei finisate. <hr/> <ul style="list-style-type: none"> – preparation of the surfaces to be covered with the thermosystem, checking of the quality of the support layer for the thermosystem; – supply and mounting of the scaffold and of any other equipment necessary for execution; – supply of the materials necessary for the fixing of the slipbricks and Polystyrene thermo-insulation, according to the Technical Specifications; – mounting of the thermo-insulation on the surfaces indicated in the plans, according to the Techncial Specifications; – fixing of the point-welded steel mesh (STNB) onto the substructure and thermo-insulating Polystyrene layer; – remixing of the mortar by introducing of cement admixtures and any others materials necessary to execute the support layer (mortar bed) for the slip bricks; – cleaning of the work site; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution regarding smoothness, uniformity of brick colour, as well as the general aspect of the finished area. 		

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Codul Normei Norm Code	A00060	Grile de ventilatie reglabile din tabla neagra vopsita
Unitate de masura Measuring Unit	buc/piece	Adjustable ventilation louvers made of sheet metal, including painting
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executarii lucrarii: grile de ventilatie reglabile; – punerea pe pozitie si fixarea lor pe suport; – curatarea suprafetei metalice de impuritati si aderente in vederea aplicarii vopsitoriei ; – executarea vopsitoriei la culoarea solicitata in proiect; – protejarea suprafetei pana la terminarea tuturor lucrarilor; – transportul si manipularea materialelor pe orizontala si verticala; – curatirea si transportul molozului de la locul de munca; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply of the materials necessary to execute the works: adjustable ventilation louvers; – putting into position and fixing onto the support; – cleaning of the metal surface from any impurities and other matter adherent on the surface, in order to prepare for painting; – painting in a colour as required by the Design; – protection the surface until completion of the works; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution. 	
Codul Normei Norm Code	A00062	Panou afisaj rama de lemn cu sticla de 10 mm grosime
Unitate de masura Measuring Unit	m²	Glazed information board made of wooden frame with glazing of 10 mm thickness
Descriere Description:	<ul style="list-style-type: none"> – procurarea sau confectionarea ramei din lemn, a materialelor de montaj si a sticlei; – punerea la cota si montarea provizorie, conform caietelor de sarcini si a proiectului tehnic – montarea sticlei in rama; – montarea definitiva a vizorului si finisarea lui; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply/making wood frame, of assembling materials and glass – level setting and pre-assembling, according Technical Specifications and Detailed Design; – assembling of glass in frame – definitive assembling and finishing; – checking of material quality and works execution. 	

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Codul Normei Norm Code	A00067	Gradene demontabile
Unitate de masura Measuring Unit	m	Spectator's bench removable/pliable
Descriere Description:	<ul style="list-style-type: none"> – procurarea materialelor necesare executiei lucrarii la forma si dimensiunile specificate, conform cerintelor caietului de sarcini si a proiectului tehnic; – montarea pe pozitie a gradenelor si fixarea – transportul si manipularea materialelor pe orizontala si pe verticala; – curatarea locului de munca si transportul deseurilor pe verticala si orizontala; – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply necessary material for execution the work at form and dimension requested by Technical Specifications and Detailed Design; – fitting on position of pliable/removable system and fixing ; – horizontal and verical transport and handling of the materials ; – cleaning of the work site and horizontal and vertical transport the resulting rubbish ; – checking of the quality of the materials and the works execution. 	

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Codul Normei Norm Code	A00069	Porti executate din aluminiu (pentru bazin)
Unitate de masura Measuring Unit	m	Gates executed in aluminium (for swimming pool)
Descriere Description:	<ul style="list-style-type: none"> – relevarea golurilor din pereti; – verificarea punctelor de fixare: gheremele sau bolturi; – procurarea, punerea la cota si montarea provizorie a portilor din aluminiu, conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva a portilor din aluminiu, inclusiv accesoriile; – umplerea rosturilor dintre porti si gol cu spuma poliuretana, eliminarea excesului, repararea tencuiei in jurul tocurilor si fixarea glafurilor exterioare din aluminiu; – protejarea tamplariei pana la terminarea lucrarilor ; – transportul si manipularea materialelor pe orizontala si verticala; – verificari ale calitatii materialelor si a executiei lucrarilor <hr/> <ul style="list-style-type: none"> – measuring of the wall openings; – checking of the fixing points: anchors or bolts; – supply of aluminium gates, taking to the correct level and pre-installation according to the Technical Specifications and Detailed Design; – supply of the materials for installation and accessories (ironmongery); – final installation of the aluminium gates, including accessories; – filling of the joints and gaps at the frames of the gates with Polyurethane foam, elimination of excess material, making good around the frames and fixing the exterior aluminium sills; – protection of joinery until completion of the works; – horizontal and vertical transport and handling of the materials; – checking of the material quality and works execution. 	

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Codul Normei Norm Code	LP0001	Lift de persoane
Unitate de masura Measuring Unit	m	Elevator
Descriere Description:	<ul style="list-style-type: none"> – relevarea dimensiuni put; – procurarea, transport si manipulare pana la locul de montaj, montaj conform caietelor de sarcini si a proiectului tehnic; – procurarea materialelor pentru montaj si a accesoriilor; – montarea definitiva, inclusiv accesoriile; – verificari ale calitatii materialelor si a executiei lucrarilor, efectuarea tuturor operatiunilor, probe de punere in functiune, certificare siguranta, instruire privind folosire elevator. <hr/> <ul style="list-style-type: none"> – measuring of the shaft dimension; – supply, transportation, handling, installation according to the Technical Specifications and Detailed Design; – supply necessary materials for installation and accessories ; – final installation, including accessories; – checking of the material quality and works execution, operation tests, safety certification, operative training. 	
Codul Normei Norm Code	A00070	Demontare/depozitare/remontare utilaje pentru industria alimentara
Unitate de masura Measuring Unit	buc/piece	Dismantling/storage/re-mounting food industry equipments
Descriere Description:	<ul style="list-style-type: none"> – demontarea/desfacerea echipamentelor existente, inclusiv accesorii/elemente de susținere/consumabile, conform instructiuni tehnice ale producatorului; – transport si manipulare pana la locul de stocare, asigurarea conditiilor de stocare/protejare specifice acestor tipuri de echipamente, pentru toata durata de inactivitate a acestor echipamente-utilaje; – montare definitivă, inclusiv accesorii/elemente de susținere/consumabile, conform instructiuni tehnice ale producatorului; – curățarea locului de muncă – verificari ale calitatii materialelor si a executiei lucrarilor, efectuarea tuturor operatiunilor, probe de punere in functiune, certificare siguranta. <hr/> <ul style="list-style-type: none"> – dismantling existing equipments, including accessories/fixing parts/expandable items, as per Manufacturer's instructions; – transportation/handling up to storage facility, provide specific conditions for storage facility for the whole inactivity period of these food industry equipments; – final installation, including accessories/fixing parts/expandable items, as per Manufacturer's instructions; – checking of the material quality and works execution, operation tests, safety certification. 	

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Codul Normei Norm Code	A00071	Profile de colț (colț interior – forma rotundă) montate în spații cu activitate industrie alimentară.
Unitate de masura Measuring Unit	m	Corner profiles (interior corner - round shape) installed in areas with food industry activities.
Descriere Description:	<ul style="list-style-type: none"> – procurarea tuturor materialelor necesare, inclusiv accesorii, conform instructiuni tehnice ale producatorului și/sau caiete de sarcini/proiect; – transport si manipulare până la locul de punere în operă, asigurarea conditiilor de stocare/protejare specifice; – montare profile, inclusiv accesorii, conform instructiuni tehnice ale producatorului și/sau caiete de sarcini/proiect; – curățarea locului de muncă – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply all necessary materials, including accessories, as per Manufacturer's instructions and/or Technical Specifications/Detailed Design; – transportation/handling to working area, provide specific conditions for storage; – final installation, including accessories, as per Manufacturer's instructions and/or Technical Specifications/Detailed Design; – cleaning the working place; – checking of the material quality and works execution, operation tests, safety certification. 	
Codul Normei Norm Code	A00072	Ușă cu profil de etanșare pentru montaj în spații cu activitate de industrie alimentară.
Unitate de masura Measuring Unit	buc/piece	Door with sealing profile to be installed in areas with food industry activities.
Descriere Description:	<ul style="list-style-type: none"> – procurarea tuturor materialelor necesare, inclusiv accesorii, conform instructiuni tehnice ale producatorului și/sau caiete de sarcini/proiect; – transport si manipulare până la locul de punere în operă, asigurarea conditiilor de stocare/protejare specifice; – montare ușă, inclusiv accesorii, conform instructiuni tehnice ale producatorului și/sau caiete de sarcini/proiect; – curățarea locului de muncă – verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> – supply all necessary materials, including accessories, as per Manufacturer's instructions and/or Technical Specifications/Detailed Design; – transportation/handling to working area, provide specific conditions for storage; – final installation, including accessories, as per Manufacturer's instructions and/or Technical Specifications/Detailed Design; – cleaning the working place; – checking of the material quality and works execution, operation tests, safety certification. 	

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Codul Normei Norm Code	A00073	Finisaj exterior cu placi ceramice pe structură metalică si termoizolație din vată minerală, inclusiv schela si accesoriile
Unitate de masura Measuring Unit	m²	Exterior wall faade finish with ceramic tiles on metallic frame and thermo-insulating system made of mineral wool, including scaffold and accessories
Descriere Description:	<ul style="list-style-type: none"> – procurare/montare-demontare/stocare schelă i/sau utilaje/dispozitive necesare executiei; – procurarea/stocarea în condiții optime/transport la locul de montaj a materialelor necesare: placajului ceramic, sistem de prindere inclusiv accesorii si termoizolatie din vată minerală; – fixarea structurii metalice de susținere a placajelor ceramice; – executarea termoizolatiei, conform prescriptiilor tehnice i/sau instrucțiuni producător; – montarea placajelor ceramice, inclusiv elementele de închidere laterale i/sau profile de glaf i/sau alte accesorii tip ale sistemului recomandate de producător – curatarea locului de munca ; – incarcarea si transportul auto al molozului la in locul autorizat ; – verificari ale calitatii materialelor si a executiei lucrarilor în ceea ce priveste planeitatea, linearitatea structurii metalice, uniformitatea culorii placilor si verticalitatea suprafetelor, aspectul suprafetei finisate. <hr/> <ul style="list-style-type: none"> – supply/mounting – dismantling/stoirage of the scaffold and/or any other equipment necessary for execution; – supply/adecuate storage/transport to installment place materials, fixing systems including accessories, thermo-insulation made of mineral wool; – installing the metallic support and fixing system for the ceramic tiles; – setting up the thermo-insulation according to the Manufacturer technical specifications; – installing tiles, closing side elements, linings, and/or specific accessories of the system recommended by the Manufacturer. – cleaning of the work site; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution regarding smoothness, uniformity of brick colour, as well as the general aspect of the finished area. 	
Codul Normei Norm Code	A00074	Finisaj exterior cu scanduri geluite pe structură lemn si termoizolație din vată minerală, inclusiv schela si accesoriile
Unitate de masura Measuring Unit	m²	Exterior wall faade finish with ceramic tiles on metallic frame and thermo-insulating system made of mineral wool, including scaffold and accessories

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<p>Descriere Description:</p>	<div> <ul style="list-style-type: none"> – procurare/montare-demontare/stocare schelă și/sau utilaje/dispozitive necesare executiei; – procurarea/stocarea în condiții optime/transport la locul de montaj a materialelor necesare: placajului ceramic, sistem de prindere inclusiv accesorii si termoizolatie din vată minerală; – fixarea structurii metalice de susținere a placajelor ceramice; – executarea termoizolatiei, conform prescriptiilor tehnice și/sau instrucțiuni producător; – montarea placajelor ceramice, inclusiv elementele de închidere laterale și/sau profile de glaf și/sau alte accesorii tip ale sistemului recomandate de producător – curatarea locului de munca ; – incarcarea si transportul auto al molozului la in locul autorizat ; – verificari ale calitatii materialelor si a executiei lucrarilor în ceea ce priveste planeitatea, linearitatea structurii metalice, uniformitatea culorii placilor si verticalitatea suprafetelor, aspectul suprafetei finisate. </div> <hr/> <div> <ul style="list-style-type: none"> – supply/mounting – dismantling/stoirage of the scaffold and/or any other equipment necessary for execution; – supply/adecuate storage/transport to installment place materials, fixing systems including accessories, thermo-insulation made of mineral wool; – installing the metallic support and fixing system for the ceramic tiles; – setting up the thermo-insulation according to the Manufacturer technical specifications; – installing tiles, closing side elements, linings, and/or specific accessories of the system recommended by the Manufacturer. – cleaning of the work site; – horizontal and vertical transport and handling of the materials; – cleaning and transport of the materials from the work site; – checking of the quality of the materials and the works execution regarding smoothness, uniformity of brick colour, as well as the general aspect of the finished area. </div>
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3. RETELE EXTERIOARE SANITARE SI CANALIZARE / EXTERIOR NETWORKS SANITARY AND SEWERAGE

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

3.1. RETELE EXTERIOARE SANITARE SI CANALIZARE / EXTERIOR NETWORK SANITARY AND SEWERAGE		
3.1.1 REȚELE EXTERIOARE ALIMENTARE CU APĂ / EXTERIOR WATER SUPPLY		
Codul Normei Norm Code	ACA01	Rețele de apă din țevă de oțel zincată având diametrul: a) 1/2" - 3/4" b) 1" - 1 1/2" c) 2" - 2 1/2" d) 3" - 4"
Unitate de masura Measuring Unit	m	Network of galvanized steel pipe with diameter: a) 1/2" - 3/4" b) 1" - 1 1/2" c) 2" - 2 1/2" d) 3" - 4"
Descriere Description:	<ul style="list-style-type: none"> – procurare teava si piese de legatura inclusive pierderi tehnologice; – procurare material lemons pentru sprijiniri maluri, parapete si podete, sustineri cabluri si conducte; – procurarea nisip; – transport auto materiale la locul de punere in opera; – sapatura in pamant executata manual; – manipulare material, transport cu roaba; – montare parapete si podete, sustineri de cable si conducte; – izolarea anticoroziva; – intindere pat de nisip si montare conducta in sant; – sprijiniri maluri cu dulapi lemn; – inchidere capete conducte pentru test; – spalare conducte si test de etanseitate la presiune a conductei si repararea deficientelor; – acoperirea cu nisip a conductei; – umplutura de pamant; – compactare cu maiul mecanic; – incarcare si transport pamant excedentar la groapa. 	

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- supply pipes and fittings ;
- supply the wooden materials for supporting banks, parapets and pipe culverts, upholding cables and pipes;
- sand supply;
- transporting the materials at place of work;
- manual digging;
- manipulating / transporting materials with wheel barrow;
- mounting the parapets and the pipe culvert, upholding cables and pipes;
- anticorrosive protection
- sand support layer and pipe installing in ditch;
- supporting the banks with wood planks;
- closing the pipe's end ;
- cleaning pipes and making pressure tightness tests and eventually remedial works;
- covering the pipe with sand;
- backfilling and compacting ;
- loading and transporting the excess soil to the authorized dumping area .

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Codul Normei Norm Code	ACA02	Teava din polietilena de inalta densitate pentru apa avand diametrul de: a) 20mm; b) 25mm; c) 32mm; d) 40mm; e) 50mm; f) 63mm; g) 75mm; h) 90mm; i) 110mm.
Unitate de masura Measuring Unit	m	PEHD pipe for water diameters: a) 20mm; b) 25mm; c) 32mm; d) 40mm; e) 50mm; f) 63mm; g) 75mm; h) 90mm; i) 110mm.
Descriere Description:	<ul style="list-style-type: none"> – procurare teava si piese de legatura inclusive pierderi tehnologice; – procurare material lemons pentru sprijiniri maluri, parapete si podete, sustineri cabluri si conducte; – procurare nisip; – transport auto materiale la locul de punere in opera; – manipulare material, transport cu roaba; – trasarea si luare de masuri la pozitie; – sapatura in pamant executata manual; – sprijiniri maluri cu dulapi lemn; – montare parapete si podete, sustineri de cable si conducte; – intindere pat de nisip si montare conducta in sant; – inchidere capete conducte pentru test; – spalare conducte si test de etanseitate la presiune a conductei si repararea deficientelor; – acoperirea cu nisip a conductei; – umplutura de pamant; – compactare cu maiul mecanic; – incarcare si transport pamant excedentar la groapa. 	

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<ul style="list-style-type: none"> – supply pipes and fittings ; – supply wooden materials for supporting banks, the parapets and pipe culverts, cables and pipes; – supply sand; – vehicle transportation of materials to work place ; – manipulate/transport of materials with wheel barrow; – pegging out; – manual digging; – supporting the banks with wood planks; – mounting the parapets and the pipe culvert, upholding cables and pipes; – sand support layer and pipe installing in ditch; – closing the pipe's end – cleaning the pipe and making pressure tests ; – covering the pipe with sand; – backfilling , compacting; – loading and transporting the excess soil to the authorized dumping area. 		
Codul Normei Norm Code	ACA03	Camin de vane din beton avand dimensiunea: a) Dn = 1.25m b) Dn = 1.50m c) Dn = 2m 0.8 x 0.8 x 1.5m
Unitate de masura Measuring Unit	buc/piece	Concrete circular manhole (for valves) diameters: a) Dn = 1.25m b) Dn = 1.50m c) Dn = 2m 0.8 x 0.8 x 1.5m
Descriere Description:	<ul style="list-style-type: none"> – procurare beton sau materiale necesare prepararii betonului pentru fundatie, pereti si placa camin; – procurarea armaturii din otel beton; – procurare cofraje; – procurarea materialelor pentru trepte din otel beton; – procurare rama si capac din fonta; – transportul auto pana la locul de pus in opera; – executarea sapaturii manuale in gropi; – transport pamant cu roaba; – turnare beton in fundatii; – cofrare, turnare beton si montare armature in pereti; – turnare beton si montare armature in placa de sustinere a capacului; – montare rama si capac din fonta; – confectionare si montare trepte din otel beton; – incarcare si transport pamant excedentar la groapa; – executarea umpluturii in jurul caminului, compactare. 	

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<ul style="list-style-type: none"> – supply concrete and other materials for foundation, walls and reinforced concrete cover; – reinforcement bars supply; – formwork supply; – supply frame and cast iron lid; – transporting the materials to place of work; – manual digging; – transporting soil with wheel barrow; – pouring in the concrete in foundation; – making the formwork, pouring in the concrete and mounting the reinforcement in walls; – pouring concrete and mounting the reinforcement bars in lid's support plate; – mounting frame and cast iron lid; – manufacturing and mounting the reinforcement bar steps; – loading and transporting the excess soil to the authorized dumping area; – backfilling, compacting. 		
Codul Normei Norm Code	ACA04	Montare armaturi imbinate prin insurubare avand diametrul de: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 3" h) 4"
Unitate de masura Measuring Unit	buc/piece	Mounting threaded coupling valves with diameters: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 3" h) 4"
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurare armaturi (robineti si similar) cu mufe, inclusiv material marunt; – transport auto pana la locul de pus in opera; – manipulare materiale; – fixarea la pozitie si montarea armaturii; – test de etanseitate. <hr/> <ul style="list-style-type: none"> – supply taps and similar couplings with flanges, including the small additional materials; – transporting materials to working place; – manipulating materials; – pegging out; – pressure tests. 		

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Codul Normei Norm Code	ACA05	Montare armături îmbinate cu flanșe, având diametrul: a) 15 - 40 mm; b) 50 mm; c) 65 mm; d) 80 mm; e) 100 mm; f) 125 mm; g) 150 mm.
Unitate de masura Measuring Unit	buc/piece	Mounting valves coupling with flanges with diameter: a) 15 - 40 mm; b) 50 mm; c) 65 mm; d) 80 mm; e) 100 mm; f) 125 mm; g) 150 mm.
Descriere Description: <ul style="list-style-type: none"> – procurare armături (robineți si similar) cu flanșe, inclusiv material mărunț; – procurare contraflanșe; – transport auto până la locul de punere în operă; – manipulare materiale; – montarea prin sudură a contraflanșelor pe conductă; – fixarea la poziție și montarea armăturii; – test de etanșeitate. 		
<ul style="list-style-type: none"> – supply valves with flanges, including the small additional materials; – supply counter flange; – transporting materials to work place; – manipulating the materials; – welding the counter flanges on the pipe; – pegging out to place and mounting the reinforcement; – pressure tests. 		

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Codul Normei Norm Code	ACA06	Hidranți subterani de incendiu, având diametrul: a) Dn = 65 mm; b) Dn = 100 mm; c) Dn = 80 mm.
Unitate de masura Measuring Unit	buc/piece	Underground hydrant with diameter: a) Dn = 65 mm; b) Dn = 100 mm; c) Dn = 80 mm.
<p>Descriere Description:</p> <ul style="list-style-type: none"> - procurare hidrant, cot cu picior, cutie de protecție cu ramă și capac, placă indicatoare; - transport auto la locul de punere în operă; - manipulare materiale; - săpătură de pământ executată manual; - coborârea și așezarea cotului cu picior; - stabilizarea cotului cu pat de pietriș sau bloc de beton; - fixarea cutiei de protecție pentru hidrant subteran cu ramă și capac; - montare hidrant, verificarea la presiune; - umplutură și compactare; - montare placă indicatoare pentru hidrant. <hr/> <ul style="list-style-type: none"> - supply hydrant and accesories guard box, metallic frame and cover, signaling board; - transporting materials to work place; - manipulating the materials; - manual digging; - laying foot bend; backfilling around foot bend with gravel or concrete; - fixing hydrant box, metallic frame and cover; - mounting hydrant, pressure tests; - backfilling and compaction; - mounting signaling board . 		

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Codul Normei Norm Code	ACA07	Rețea apă din țevă polipropilenă preizolată, montată în canale, având dimensiunile. a) 25 mm; b) 32 mm; c) 40 mm; d) 50 mm; e) 63 mm; f) 75 mm; g) 110 mm.
Unitate de masura Masuring Unit	m	Network of PEHD insulated pipes, installed in channels, with diameters: a) 25 mm; b) 32 mm; c) 40 mm; d) 50 mm; e) 63 mm; f) 75 mm; g) 110 mm.
Descriere Description:	<ul style="list-style-type: none"> - procurare țevă preizolată, inclusiv suporti și fittinguri (cot preizolat, teu preizolat, reducere preizolată); - procurare inele de etanșare la trecerea conductelor prin pereți; - transport auto până la locul de punere în operă; - manipulare materiale; - săpătură în pământ executată manual; - demontare plăci canale (spargerii betoane); - montare suporti; - lansare țevă și montare; - montare manșoane și umplerea lor cu spumă poliuretanică; - montare inele de etanșare la trecerea conductei prin pereți; - spălare conducte și test de etanșeitate la presiune a conductei și repararea deficiențelor; - procurare și montare plăci peste canal; - umplutură de pământ; - compactare cu maiul de mână. <hr/> <ul style="list-style-type: none"> - supply thermal insulated pipe, including fittings (thermal insulated fitting, thermo insulated branch); - supply sealed pass for pipes through the walls; - transporting materials to work place; - materials handling; - manual digging; - removing chanel cover (concrete demolition); - supports mounting; - laying pipe and assembling; - mounting insulating mantle and filling with polyurethane foam; - mounting sealed pass for pipes through the walls; - cleaning pipes and making pressure tests and eventually remedial works; - supply and mounting the cover for chanel; - backfilling and compacting. 	

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Codul Normei Norm Code	ACA08	Conducte de apă din țevă zincată, montată în canale, având dimensiunile. a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4"
Unitate de masura Masuring Unit	m	Galvanized steel water pipes, installed in chanel s with diameter: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4"
Descriere Description:	<ul style="list-style-type: none"> – procurare țevă inclusiv suporti și fittinguri (cot teu, reducție, mufe); – transport auto până la locul de punere în operă; – manipulare materiale; – săpătură în pământ executată manual; – demontare plăci canale (spargeri betoane); – montare suporti; – lansare țevă și montare; – spălare conducte și test de etanșeitate la presiune a conductei și repararea deficiențelor; – procurare și montare plăci peste canale; – umplutură de pământ; – compactare cu maiul de mână. <hr/> <ul style="list-style-type: none"> – supply pipe, including accessories and fittings; – transporting materials to work place; – manipulating the materials; – manual digging; – removing channel cover (concrete demolition); – laying pipe and assembling; – cleaning pipes, making pressure tests and eventually remedial works; – supply and mounting the cover for channel; – backfilling ,compacting . 	

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Codul Normei Norm Code	ACA09	Conducte de apă din țeavă zincată preizolată, montată în pământ, având dimensiunile. a) 1" ; b) 1 1/4"; c) 1 1/2".
Unitate de masura Masuring Unit	m	Galvanized steel insulated underground pipes, with diameters a) 1" ; b) 1 1/4"; c) 1 1/2".
Descriere Description:	<ul style="list-style-type: none"> – procurare țeavă preizolată, inclusiv suporti și fittinguri (cot preizolat, teu preizolat, reducție preizolată); – procurare inele de etanșare la trecerea conductelor prin pereți; – transport auto până la locul de punere în operă; – manipulare materiale; – săpătură în pământ executată manual; – procurare nisip; – procurare material lemnos pentru sprijiniri maluri, parapete și podețe, susțineri cable și conducte; – lansare țeavă și montare; – montare manșoane și umplerea lor cu spumă poliuretanică; – montare inele de etanșare la trecerea conductei prin pereți; – montare parapete și podețe, susțineri de cable și conducte; – întindere pat de nisip și acoperire cu nisip a conductei; – închidere capete conducte pentru test; – spălare conducte și test de etanșeitate la presiune a conductei și repararea deficiențelor; – încărcare și transport pământ excedentar la groapă; – procurare și montaj confecții metalice în puncte fixe; – procurare și turnare beton în puncte fixe; – procurare și montaj folie PVC pentru marcaj conducte; – umplutură de pământ; – compactare cu maiul de mână. 	

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- supply the thermo-insulated pipe, including accessories and fittings
- supply sealed pass for pipes trough the walls;
- transporting materials to work place;
- manipulating the materials;
- manual digging;
- sand supply;
- supply wood materials for supporting banks, pipe culverts, upholding cables and pipes;
- laying pipes and assembling;
- mounting insulating mantle and filling with polyurethane foam;
- mounting sealed pass for pipes through the walls;
- mounting parapets and pipe channel, upholding the cable and the pipes;
- sand support layer and mounting pipe in ditch;
- closing the pipe's end ;
- cleaning the pipe and making pressure test and eventually repairing works;
- loading and transporting the excess soil to authorized dumping area;
- supply and mounting metallic frames for fixing points;
- supply and pouring concrete in fixing points;
- supply and mounting the PVC warning strip;
- backfilling and compacting .

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Codul normei Norm Code	ACA10	Montarea in pamant a conductelor din otel asamblate prin sudura electrica. - A (Dn 50-150mm); - B (Dn 200-350mm); - C (Dn 400-500mm); - D (Dn 600-800 mm); - E (Dn 900-1000mm).
Unitatea de masura Measuring Unit	m	Mounting underground steel pipes assembled by electric arc welding. - A (Dn 50-150mm); - B (Dn 200-350mm); - C (Dn 400-500mm); - D (Dn 600-800 mm); - E (Dn 900-1000mm).
Descriere: Description:	<ul style="list-style-type: none"> – procurarea tevilor, a elementelor de legatura, a flanselor si accesoriilor acestora, a grundului si vopselei); – transportul si manipularea la locul de montare; – executarea gropii in locul mufarii conductelor; – centrarea, imbinarea pentru formarea tronsoanelor, taierea si sanfrenarea; – lansarea si imbinarea provizorie a flansei; – sudarea la pozitie definitive a flansei sau pieselor de legatura; – sudura flansei la capatul tevii pentru montarea armaturii si sau a piesei de legatura; – Montarea pieselor de legatura prin suruburi; – blindarea la un capat pentru efectuarea testlor; – executarea dupa caz de strapungeri in plansee si sau zidarie; – efectuarea testi de etanseitate , inclusive montarea- demontarea pompei si golirea apei; – efectuarea testi de functionare a instalatiei; – spalarea instalatiei interioare de incendiu; – izolarea zonei de sudura dupa efectuarea testlor; – astuparea cu mortar de ciment a strapungerilor; – pregatirea suprafetelor de metal pentru vopsire prin curatarea cu peria de sarma; – grunduirea cu vopsirea conductelor in 2 straturi. 	

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<ul style="list-style-type: none"> – supply pipes, flanges and accessories, primer and paint; – transporting and manipulating materials to place of work; – trench execution in the jointing location; – pegging pipe line, cutting and welding the pipes; – laying and temporary fixing of the flanges; – welding the pipes ,flange - permanent fixing; – mounting the fittings by screwing; – closing pipes to end ; – demolition works, by case, masonry or concrete; – pressure tests, including the mounting-dismantling the test pump and emptying pipes; – cleaning the inside of fire installation pipes; – insulating welded areas ; – filling the gaps/holes with cement mortar; – preparing the metallic surfaces for painting by cleaning with wire brush; – priming and painting pipes in 2 layers. 		
Codul normei Norm Code	ACA11	Montarea armaturilor cu actionare manuala sau mecanica (vane, robinete,ventile) la conductele de alimentare cu apa sau canalizare avand diametrul de: <ul style="list-style-type: none"> - A (Dn 50-150mm); - B (Dn 200-350mm); - C (Dn 400-500mm); - D (Dn 600-800 mm); - E (Dn 900-1000mm).
Unitatea de masura Measuring Unit	buc/piece	Mounting valves manually / mechanic driven to water supply pipes or to sewerage pipes, diameters: <ul style="list-style-type: none"> - A (Dn 50-150mm); - B (Dn 200-350mm); - C (Dn 400-500mm); - D (Dn 600-800 mm); - E (Dn 900-1000mm).
Descriere: Description:		
<ul style="list-style-type: none"> – procurarea armaturilor; – transportul si manipularea pana la locul de montare; – montarea pe pozitie realizata a armaturii; – verificarea montajului; – probarea etanseitatii 		
<ul style="list-style-type: none"> – supply valves; – transporting and manipulating materials to the place of work; – installing taps/valves; – checking; – pressure tests. 		

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3.1.2 REȚELE DE CANALIZARE EXTERIOARE / EXTERIOR SEWERAGE		
Codul Normei Norm Code	ACB01	Rețele de canalizare din beton simplu: a) Dn = 200 mm; b) Dn = 250 mm; c) Dn = 300 mm; d) Dn = 400 mm.
Unitate de masura Masuring Unit	m	Network of sewerage concrete pipes: a) Dn = 200 mm; b) Dn = 250 mm; c) Dn = 300 mm; d) Dn = 400 mm.
Descriere Description:	<ul style="list-style-type: none"> – procurare tuburi de beton; – transport până la locul de montare; – trasarea și luarea de măsuri la poziție; – săpătură de pământ executată manual; – sprijiniri maluri cu dulapi metalici; – montarea de parapete și podețe; – susțineri de cabluri și conducte; – lansarea și centrarea tuburilor; – tuburi de beton simplu pentru canalizare; – trasarea și luarea de măsuri prin stabilire pantă; – etanșare cu mortar de ciment preparat manual; – umplutură în șanț cu nisip; – epuismențe efectuate cu motopompa; – efectuarea testelor de etanșeitate și de funcționare a rețelei de canalizare; – umplutura de pământ; – compactarea umpluturilor; – încărcarea și transportul pământului; – transportul nisipului cu auto; – transportul cu roaba (pământ, nisip); – transport semifabricate cu auto. 	

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<ul style="list-style-type: none"> – supply concrete pipes; – transporting to the place of mounting; – pegging out; – manual digging; – supporting banks with metallic planks; – mounting the parapets and the pipe culvert; – upholding cables and pipes; – laying concrete pipes for sewerage; – pegging out; – sealing joints with cement mortar; – backfilling with sand; – removing water in trenches; – making pressure tests and operation tests for sewerage network; – Backfilling and compacting; – loading and transporting the excess soil to authorized dumping area; – transportation of materials with wheel barrow (soil, sand); – transportation of materials by vehicle. 		
Codul Normei Norm Code	ACB02	Retele de canalizare din tuburi PVC pentru canalizari exterioare avand diametrul de: a) 160mm; b) 200mm; c) 250mm; d) 310mm; e) 400mm; f) 500mm.
Unitate de masura Masuring Unit	m	Network of PVC pipes for external sewerage with diameters: a) 160mm; b) 200mm; c) 250mm; d) 310mm; e) 400mm; f) 500mm.
Descriere Description:	<ul style="list-style-type: none"> – procurare tuburi din PVC cu mufe, inclusive pierderi tehnologice si material marunt; – procurare material lemons pentru sprijiniri maluri, parapete si podete, sustineri cabluri si conducte; – procurare nisip; – transport auto materiale la locul de punere in opera; – manipulare material, transport cu roaba; – trasarea si luare de masuri la pozitie; – sapatura in pamant executata manual; – sprijiniri maluri cu dulapi lemn; – montare parapete si podete, sustineri de cable si conducte; – intindere pat de nisip si montare conducta in sant; – verificarea etanseitatii conductei; – acoperirea cu nisip a conductei; – umplutura de pamant; – compactare cu maiul mecanic; – incarcare si transport pamant excedentar la groapa. 	

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- supply PVC pipes, fittings including small additional materials;
- supply the wooden materials for supporting the banks, the parapets and the pipe culverts, upholding the cable and the pipes;
- sand supply ;
- transporting materials to work place;
- manipulating materials and transporting with the wheel barrow;
- pegging out ;
- manual digging;
- supporting banks with wood planks;
- mounting parapets and pipe culvert, upholding cables and pipes;
- sand support layer and installing pipes into ditch ;
- tests;
- covering pipes with sand;
- backfilling and compacting ;
- loading and transporting the excess soil to the authorized dumping area.

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Codul Normei Norm Code	ACB03	Camin de vizitare din tuburi de beton D= 800 mm/1000mm, cu camera de lucru, pentru conducte cu diametrul: a) D = 200mm; b) D = 250mm; c) D = 300mm; d) D = 400mm.
Unitate de masura Masuring Unit	buc/piece	Inspection chamber made of concrete tubes diameter D=800mm/1000mm, for pipes having diameter: a) D = 200mm; b) D = 250mm; c) D = 300mm; d) D = 400mm.
Descriere Description: <ul style="list-style-type: none"> – procurare materiale necesare betonului simplu pentru fundatie si placa, inclusive pierderi tehnologice; – procurare tuburi beton D=1000mm/D=800mm; – procurare materiale pentru trepte din otel beton; – procurare rama si capac din fonta; – transportul auto pana la locul de pus in opera; – executarea sapaturii manuale in gropi; – preparare si turnare beton in fundatie; – montaj tub beton; – confectionare si montare trepte din otel beton; – turnare beton si montare armature in placa de sustinere a capacului; – montare rama si capac din fonta; – incarcare si transport pamant excedentar la locul autorizat; – executarea umpluturii in jurul caminului, compactare cu maiul de mana. – verificarea lucrărilor executate/teste și probe necesare 		
<ul style="list-style-type: none"> – supply concrete for the foundation and cover, – supply concrete pipes D=1000mm, D=800mm; – supply materials for reinforcement bar steps; – supply frame and cast iron lid; – transporting materials to work place; – manual digging; – concrete in foundation; – installing concrete tube; – manufacturing and mounting the reinforcement bar steps; – pouring concrete and mounting the reinforcement bars in supporting cover; – mounting frame and cast iron lid; – loading and transporting the excess soil to the authorized dumping area; – backfilling and compacting. – checking the works, mandatory tests 		

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Codul Normei Norm Code	ACB04	Gură de scurgere cu sifon și depozit : a) carosabil tip A1; b) carosabil tip A2; c) necarosabil tip B1.
Unitate de masura Masuring Unit	buc/piece	External gully: a)for heavy traffic type A1; b)for heavy traffic type A2; c)for non traffic type B1.
<p>Descriere Description:</p> <ul style="list-style-type: none"> – procurare tub beton fără talpă, mufă, îmbinare uscată, 500 x 1000; – procurare ramă și grătar din fontă; – executarea săpăturii în gropi; – sprijinirea malurilor; – prepararea manuală a betonului; – turnarea betonului; – montarea elementelor prefabricate ale gurii de scurgere (tuburi de beton, cot simplu din beton la 90 grade Dn = 200 mm); – montarea treptelor din oțel beton; – montarea ramei și a grătarului din fontă; – executarea plăcii de beton armat pentru susținerea ramei și grătarului; – oțel beton OB 37 cu Dn = 6 - 10 mm; – executare tencuieli sclivisite; – placă indicatoare pentru gura de scurgere; – încărcare și transport pământ cu auto; – transport pământ cu roaba la 50 m; – transport semifabricate cu auto. <hr/> <ul style="list-style-type: none"> – supply concrete tube without cover, dry joints 500x1000; – supply frame and cast iron lid; – manual digging; – supporting banks; – pouring concrete; – mounting precast concrete components for gully (concrete tube, concrete fitting 90°. Dn=200mm); – mounting the steel stairs; – mounting the frame and cast iron lid; – pouring the slab to support the frame and cast iron lid; – reinforcement steel bars OB 37 with diameter Dn 6-10mm; – polished plastering execution; – indicative board for drain trap; – loading and transporting soil to authorized dumping area; – transportation with wheel barrow, 50 meters distance; – transporting materials. 		

3.2. LUCRĂRI DE DEMOLARE / DEMOLITION WORKS		
Codul Normei Norm Code	DA01	Desfacere și refacere platformă din beton, pe suprafețe limitate, pentru pozarea conductelor, betonul având grosimea de: a) 18 cm; b) 10 cm.
Unitate de masura Masuring Unit	m²	Demolition and remaking support concrete layer for pipes, with thickness: a) 18 cm; b) 10 cm.
Descriere Description:	<ul style="list-style-type: none"> – tăierea cu discul a betonului; – spargerea betonului; – transport cu roaba a molozului; – încărcarea și transportul molozului la groapă; – procurare beton gata preparat sau procurare materiale necesare preparării betonului, preparare, inclusiv pierderi tehnologice; – procurare balast pentru fundație; – transport auto materiale la locul de punere în operă; – turnare beton. 	
	<ul style="list-style-type: none"> – cutting /demolition of concrete; – transporting debris with wheel barrow; – loading and transporting debris to the authorized dumping area; – supply concrete ; – supply ballast foundation layer; – transporting materials to work place; – pouring concrete. 	

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Codul Normei Norm Code	DA02	Desfacere și refacere platformă din asfalt, pe suprafețe limitate, pentru pozarea conductelor, având grosimea de: a) 4 cm; b) 5 cm; c) 9 cm; d) 10 cm; e) 11 cm.
Unitate de masura Masuring Unit	m ²	Demolition and remodeling the asphalt platform on the limited area for laying the pipes, the concrete with thickness: a) 4 cm; b) 5 cm; c) 9 cm; d) 10 cm; e) 11 cm.
Descriere Description:	<ul style="list-style-type: none"> – tăierea cu discul a betonului asfaltic; – spargerea betonului; – transport cu roaba a molozului; – încărcarea și transportul molozului la groapă; – procurare beton asfaltic gata preparat conform proiect și/sau caiet de sarcini, inclusiv pierderi tehnologice; – procurare și așternere/compactare balast pentru fundație; – transport auto materiale la locul de punere în operă; – așternere straturi beton asfaltic inclusiv compactare si amorsare între straturi – verificarea calității materialelor și a execuției lucrărilor. <hr/> <ul style="list-style-type: none"> – cutting /demolition of asphalt concrete; – transporting debris with wheel barrow; – loading and transporting debris to the authorized dumping area; – supply asphalt concrete as per Detailed Design and/or technical Specs, including technological losses ; – supply/laying/compaction of ballast foundation layer; – transporting materials to work place; – laying and compacting asphalt concrete, including primer between layers – checking quality of materials and works executed. 	

4. INSTALATII SANITARE - SANITARY INSTALLATIONS

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

Reabilitarea Infrastructurii Educationale in Municipiul Bucuresti
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4.1. DEMONTARE / DISMANTLING		
Codul normei Norm Code	RpS01	Demontare teava de otel galvanizata cu diametru ½"-2".
Unitatea de masura Measuring Unit	m	Dismantling galvanized steel pipe with ½"-2" diameter.
Descriere: Description:	<ul style="list-style-type: none"> - executarea desurubarilor tevii si a pieselor de racord, eventuale taieturi, depozitarea si demontarea dispozitivelor de sustinere; - transport material desfacut la locul autorizat <hr/> <ul style="list-style-type: none"> - unscrewing pipes and fittings, eventually cutting, storing and dismantling the support elements. - material transport to the authorized dumping area 	
Codul normei Norm Code	RpS02	Demontarea tuburilor si pieselor fasonate din fonta pentru canalizare cu diametrul Ø50-100 mm.
Unitatea de masura Measuring Unit	m	Dismantling cast iron pipes / fittings for sewerage installation with Ø50-100mm diameter.
Descriere: Description:	<ul style="list-style-type: none"> - desfacerea tuburilor, a pieselor de legatura, a mansoanelor si a dispozitivelor de sustinere si depozitarea tuburilor si a pieselor de legatura. - transport material desfacut la locul autorizat <hr/> <ul style="list-style-type: none"> - dismantling pipes, fittings, supports and storage them; - material transport to the authorized dumping area 	
Codul normei Norm Code	RpS03	Demontarea tuburilor si pieselor fasonate din gresie ceramica pentru canalizare cu diametreul Ø50 – 200 mm.
Unitatea de masura Measuring Unit	m	Dismantling ceramic pipes/fittings for sewerage installation with Ø50-200mm diameter.
Descriere: Description:	<ul style="list-style-type: none"> - desfacerea tuburilor, a pieselor de legatura, a mansoanelor si a dispozitivelor de sustinere si depozitarea tuburilor si a pieselor de legatura - transport material desfacut la locul autorizat <hr/> <ul style="list-style-type: none"> - dismantling pipes, fittings, supports and storing them - material transport to the authorized dumping area 	

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Codul normei Norm Code	RpSB04	Demontarea tuburilor si pieselor de legatura din PVC pentru canalizare in interiorul cladirii cu diametrele Φ32-160 mm
Unitatea de masura Measuring Unit	m	Dismantling PVC pipes/fittings for sewerage indoor installation with Φ32-160mm diameter.
Descriere: Description:	<ul style="list-style-type: none"> - taierea tevii, depozitarea si demontarea pieselor de legatura / dispozitivelor de sustinere - transport material desfacut la locul autorizat - cutting pipes, storing, dismantling fittings/support elements - material transport to the authorized dumping area 	
Codul normei Norm Code	RpSB05	Demontarea tevii de plumb pentru scurgere.
Unitatea de masura Measuring Unit	m	Dismantling lead pipes for sewerage.
Descriere: Description:	<ul style="list-style-type: none"> - taierea tevii, si depozitarea - transport material desfacut la locul autorizat - cutting pipes and storing - material transport to the authorized dumping area 	
Codul normei Norm Code	RpSB06	Demontarea unui obiect sanitar complet.
Unitatea de masura Measuring Unit	buc/piece	Dismantling complete sanitary object.
Descriere: Description:	<ul style="list-style-type: none"> - desfacerea ventilului de scurgere; - demontarea sifonului; - demontarea consolelor (lavoarului sau chiuvetei); - demontarea diblurilor si a racordului de scurgere dupa caz pentru: lavoar sau chiuveta sau pisoar sau WC; - demontarea diblurilor pentru oglinda, etajera, sapuniera (intra in cadrul demontarii lavoarului); - demontare port hartiei, a cuierului (intra in cadrul demontarii WC); - demontarea bateriei amestecatoare sau robinetului simplu service; - demontarea robinetilor de reglaj - transport material desfacut la locul autorizat 	

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<ul style="list-style-type: none"> - Dismantling sewers fitting; - dismantling the floor gully - dismantling the hand wash basin / bowl w/brackets; - removing dowels/sewers, by case, hand wash basin or bowl/urinal or WC; - removing dowels for mirror, shelf, soap-dish (goes within dismantling the wash stand); - dismantling toilet paper stand and hanger (goes within dismantling the WC); - dismantling taps - material transport to the authorized dumping area 		
Codul normei Norm Code	RpSB07	Demontarea sifonului de pardoseala Φ 50 si Φ 100.
Unitatea de masura Measuring Unit	buc/piece	Dismantling floor gully Φ50 and Φ100.
Descriere: Description:	<ul style="list-style-type: none"> - strapungerea in planseu si demontarea sifonului; - transport material desfacut la locul autorizat 	
	<ul style="list-style-type: none"> - demolition around gully and dismantling; - material transport to the authorized dumping area. 	
Codul normei Norm Code	RpSB08	Demontarea robinetului de trecere pentru teava de plumb.
Unitatea de masura Measuring Unit	buc/piece	Dismantling the passing tap for the lead pipe.
Descriere: Description:	<ul style="list-style-type: none"> - demontarea robinetului si a racordului olandez - transport material desfacut la locul autorizat 	
	<ul style="list-style-type: none"> - dismantling the tap and the dutch couplings - material transport to the authorized dumping area 	
Codul normei Norm Code	RpSB09	Demontarea unui hidrant de incendiu interior.
Unitatea de masura Measuring Unit	buc/piece	Dismantling an inside fire hydrant.
Descriere: Description:	<ul style="list-style-type: none"> - demontarea robinetului pentru hidrant prevazut cu racord; - demontarea tevii de refulare a furtunului ; - demontare cutiei si a ramie metalice (dupa caz) - transport material desfacut la locul autorizat 	
	<ul style="list-style-type: none"> - dismantling tap for hydrant equipped with fitting; - dismantling hose's repression pipe; - dismantling box /metallic frame (by case) - material transport to the authorized dumping area 	

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Codul normei Norm Code	RpSB10	Desfundarea canalului colector cu mijloace manuale
Unitatea de masura Measuring Unit	m	Cleaning the collector channel with manual tools
Descriere: Description:	<ul style="list-style-type: none"> - transportul apei necesare; - inundarea si antrenarea materialelor depozitare folosind sarpele. - supply necessary water; - flooding and cleaning materials with special devices. 	
Codul normei Norm Code	RpSB11	Desfundarea sifonului de pardoseala cu mijloace manuale
Unitatea de masura Measuring Unit	buc/piece	Cleaning floor gully by manual means
Descriere: Description:	<ul style="list-style-type: none"> - inundarea si antrenarea materialelor depozitate cu folosind sarpele. - flooding, cleaning materials with special devices. 	
Codul normei Norm Code	TS01	Efectuarea sapaturii in teren mijlociu h= 0.5-1.5 m adancime.
Unitatea de masura Measuring Unit	m³	Digging in soil (medium hard soil) with h= 0.5 - 1.5m depth.
Descriere: Description:	<ul style="list-style-type: none"> - pregatirea terenului; - saparea pamantului si aruncarea lui pe mal sau evacuarea acestuia prin relee de lopata; - executarea , montarea si demontarea platformelor pentru evacuarea pamantului sapat; - indreptarea fundului si peretilor sapaturii la cotele brute; - imprastierea cu lopata a pamantului afanat din teren in straturi de 20-30mm inclusive sfaramarea bulgarilor; - compactarea manuala a pamantului. - preliminary operations; - manual digging and removing of soil ; - installing and dismantling temporary platforms used for excavation; - leveling bottom ditch and walls to rough dimensions/levels; - scattering by shovel the excess soil in to 20-30 cm layers including crushing the clods; - manual compaction. 	

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4.2. MONTAJ ECHIPAMENTE / EQUIPMENT INSTALLATION		
Codul normei Norm Code	MA01	Montajul recipientilor din otel carbon. - A (m<1 tona) - B (m=1 - 3 tone)
Unitatea de masura Measuring Unit	buc/piece	Installing steel recipients. - A (m<1 tona) - B (m=1 - 3 tone)
Descriere: Description:	<div> <ul style="list-style-type: none"> - trasarea pozitiilor; - preluarea utilajelor tehnologice precum si manipularea lor in jurul locului de montaj si pe verticala la inaltimea necesara montajului; - manipularea materialelor si a mijloacelor de lucru la locul de montaj; - montarea propriu-zisa a utilajelor si fixarea cu suruburi sau sudura. </div> <div> <ul style="list-style-type: none"> - pegging ; - supply lifting equipments to working place; - Handling materials /equipments to place of work; - mounting equipment and fixing. </div>	
Codul normei Norm Code	MA02	Montare agregat de pompare (electropompa centrifuga cu vas hidrofor): - A (Dn50-65mm) - B (Dn80-100mm)
Unitatea de masura Measuring Unit	buc/piece	Mounting the pumping units (electric pumps): - A (Dn50-65mm) - B (Dn80-100mm)
Descriere: Description:	<div> <ul style="list-style-type: none"> - transportul agregatului de pompare pana la locul de montare; - trasarea si fixarea pompei pe postament; - racordarea la instalatii prin stangerea flanselor sau insurubarea racordului olandez; - verificarea etanseitatii pompei si a etanseitatii racordurilor. </div> <div> <ul style="list-style-type: none"> - transporting pumping unit to work place; - pegging and fixing pump on it's base; - fitting flanges or screwing to pipes; - verifying pump/fittings, testing. </div>	

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Codul normei Norm Code	AcZ01	Izolatie anticoroziva intarita executata manual la tevi de otel montate ingropat ,cu protectie exterioara.
Unitatea de masura Measuring Unit	m²	Anticorrosive reinforced insulation for underground steel pipes w/external protection.
Descriere: Description:	<ul style="list-style-type: none"> - procurarea bitum, citom, impaslitura din fibra de sticla sau banda PVC - transportul si manipularea pana la locul de montare; - citomare, apoi executare a doua straturi de bitum in grosime totala de 4-6 mm; - Infasurare de armare; - excutare a doua straturi de bitum in grosime totala de 3 - 4 mm si o infasurare de protectie exterioara. <hr/> <ul style="list-style-type: none"> - supply bitumen, thin sheet of glass wool or PVC band; - transporting / handling materials to the place of mounting; - priming and executing bitumen layers with total thickness of 4-6mm; - wrapping; - execution of two bitumen layers with total thickness of 3 – 4 mm and external protection wrapping. 	

4.3. ALIMENTĂRI CU APA / WATER SUPPLY		
Codul normei Norm Code	SA01	Montare teava din otel, galvanizata, pentru instalatii alimentare cu apa - A (1/2"-3/4) - B (1"-1½") - C (2"-2½") - D (3"-4")
Unitatea de masura Measuring Unit	m	Mounting galvanized steel pipes for water supply installations. - A (1/2"-3/4) - B (1"-1½") - C (2"-2½") - D (3"-4")
Descriere: Description:	<ul style="list-style-type: none"> – procurarea tevii galvanizate, a fittingurilor si a elementelor de sustinere; – transportul pana la locul de montare; – trasarea si luarea de masuri la pozitie; – confectionarea distantierilor si a dopurilor; – pregatirea sarmelor de legat; – asezarea provizoriu la pozitie a conductelor; – asezarea distantierilor si legarea cu sarma; – verificarea pozitiei; – efectuarea corecturilor si fixarea dopurilor; – montarea bratarilor; – fixarea definitiva a conductelor in bratari; – demontarea distantierilor si a sarmelor de legat; – taierea, executarea si rectificarea filetelor; – imbinarea tevilor prin infiletare folosind materialele de etansare; – executarea golului in zidarie si sau placa; – confectionarea si montarea tevii de protectie, grunduirea si cimentarea ei; – umplerea instalatiei supuse probei de etanseitate; – montarea si racordarea pompei pentru ridicarea presiunii in instalatie; – ridicarea si mentinerea presiunii in instalatie, conform prevederilor in vigoare; – verificarea intregii instalatii; – verificarea presiunii apei la punctele de consum prin deschiderea simultana a mai multor consumatori; – spalarea instalatiei prin umplerea si golirea simultana de 2-3 ori a instalatiei; – vopsirea invelitorii de tabla la conducte si aparate. 	

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<ul style="list-style-type: none"> - supply the galvanized pipe, fittings and supporting elements; - transporting the materials to place of work; - pegging out; - preparing the spacers and plugs; - preparing the wires; - pipes provisional setting in place; - mounting and binding the spacers; - checking; - making the corrections and fixing the plugs; - mounting the pipe-straps; - final fixing the pipes in pipe-straps; - dismantling of the spacers and binding wires; - cutting, making and rectifying the threads; - connecting pipes by screwing using threaded fittings; - making reservations in brickwork and/or reinforced concrete elements; - manufacturing and mounting the protection pipe, priming and fixing it; - filling the installations for the tightness probe; - pump mounting and setting in order to increase the pressure in the installation; - increasing the pressure in the installation according to the norms; - checking of the installation; - pressure tests; - cleaning the installation 2 or 3 time; - painting cover for pipes and accessories. 		
Codul normei Norm Code	SA01a	Montare teava din otel galvanizata 2"- tronsonata la 2 m, pentru instalatii alimentare cu apa din put forat.
Unitatea de masura Measuring Unit	m	Mounting galvanized 2"-steel pipe, 2 m segment, for water supply installations in drilled well
Descriere: Description:	<ul style="list-style-type: none"> - procurare și transport teava galvanizate, inclusiv fittinguri, flanse, elemente de asamblare si garniturilor ; - debitarea tevii in tronsoane de 2 m inclusiv sudarea flanselor la ambele capete ale tronsoanelor. - procurarea si montarea scripetelui, a cablului de sustinere din otel si a tuturor accesoriilor necesare. - fixarea la pozitie a pompei submersibile cu ajutorul scripetelui si a cablului de sustinere. - asezarea la pozitie a tronsoanelotr de teava cu flanse și imbinarea tronsoanelor de teava cu flanse prin fixarea garniturilor si a elementelor de asamblare; - racordarea pompei la tabloul electric si efectuarea probelor.de functionare.; - verificarea presiunii apei la punctele de consum prin deschiderea simultana a mai multor consumatori; - verificarea lucrărilor executate și eventuale corecturi 	

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		<ul style="list-style-type: none"> – supply and transport galvanized steel pipe including fittings, flanges, screws, gasket and supporting elements; – pegging out, cutting pipe in 2 m segments including welding of flanges on both ends; – supply /transport and setting in place mechanical hoisting device, including steel cable for pump support and accesories; – setting and fixing of submersible pump; – setting and fixing pipes transoms including all accessories and gaskets; – making electrical connection to panel and testing; – checking water pressure to consumers; – checking the works and eventually corrections to be made.
Codul normei Norm Code	SA02	Montare teava PVC, PP, HDPE, pentru instalatie de alimentare cu apa. - A (ø20-32) - B (ø40-50) - C (ø63-75) - D (ø90-110)
Unitatea de masura Measuring Unit	m	Mounting PVC, PP, HDPE pipes for water supply installations. - A (ø20-32) - B (ø40-50) - C (ø63-75) - D (ø90-110)
Descriere: Description:	<ul style="list-style-type: none"> – procurarea tevilor PVC, PP, HDPE (fitinguri, bratari de prindere, grund); – transportul pana la locul de montare; – trasarea si luarea de masuri la pozitie; – confectionarea distantierilor si a dopurilor; – pregatirea sarmelor de legat; – asezarea provizorie, la pozitie, a conductelor; – asezarea distantierilor si legarea cu sarma; – verificarea pozitiei; – efectuarea corecturilor si fixarea dopurilor; – montarea bratarilor; – fixarea definitive a conductelor in bratari; – executarea imbinarilor dupa caz (lipire, sudare); – demontarea distantierilor si a sarmelor de legat; – executarea golului in zidarie si/sau in planseu; – confectionarea si montarea tevii de protectie, grunduirea si cimentarea ei; – umplerea instalatiei supuse probei de etanseitate; – montarea si racordarea pompei pentru ridicarea presiunii in instalatie; – ridicarea si mentinerea presiunii in instalatie, conform prevederilor in vigoare; – verificarea integritatii instalatiei; – verificarea presiunii apei la punctele de consum prin deschiderea simultana a mai multor consumatori; – spalarea instalatiei prin umplerea si golirea simultana de 2-3 ori a instalatiei; – vopsirea invelitorii de tabla la conducte si aparate. 	

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	<ul style="list-style-type: none"> – supply the PVC, PP , HDPE pipes (pipe fittings, pipe-straps, primer); – transporting the materials to the place of work; – pegging out; – preparing the spacers and plugs; – preparing the wires; – provisional setting pipes in place; – checking; – making the corrections and fixing the plugs; – mounting the pipe-straps; – final fixing the pipes in pipe-straps; – connecting pipes (welding); – dismantling of the spacers and binding wires; – making reservations in brickworks and/or reinforced concrete elements; – manufacturing and mounting the protection pipe, priming and fixing it; – filling the installations for the tightness probe; – pump mounting and setting in order to increase the pressure in the installation; – increasing the pressure in the installation according to the norms; – checking of the installation; – pressure tests; – cleaning the installation 2 or 3 time; – painting cover for pipes and accessories.
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Codul normei Norm Code	SA06	Compensator de dilatare din teava polipropilena
Unitatea de masura Measuring Unit	buc/piece	Polypropylene dilatation compensating pipe
Descriere: Description:	<ul style="list-style-type: none"> – trasarea, taierea tevii si confectionarea compensatorului; – transportul pana la locul de montare; – confectionarea si montarea dispozitivelor de sustinere; – fixarea definitiva a tevii in dispozitivele de sustinere; 	
	<ul style="list-style-type: none"> – pegging out, cutting and manufacturing the compensating pipe; – transporting the materials to the place of mounting; – manufacturing and mounting the supporting elements; – final fixing of the pipe in the supporting elements; 	
Codul normei Norm Code	SA03	Montare teava de otel galvanizata / neagră pentru instalatii la hidranti inteiori. <ul style="list-style-type: none"> – A (2"-2½") – B (3"-4")
Unitatea de masura Measuring Unit	m	Mounting galvanized steel/steel pipes for indoor hydrant installations. <ul style="list-style-type: none"> – A (2"-2½") – B (3"-4")

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Descriere: Description:	<ul style="list-style-type: none"> – procurarea tevilor si fittingurilor (mufe de racord, coturi, teuri, bratari de prindere, grund, vopsea); – transportul pana la locul de montare; – trasarea si luarea de masuri la pozitie; – confectionarea distantierilor si a dopurilor; – pregatirea sarmelor de legat; – asezarea provizorie, la pozitie, a conductelor; – asezarea distantierilor si legarea cu sarma; – verificarea pozitiei; – efectuarea corecturilor si fixarea dopurilor; – montarea bratarilor; – fixarea definitive a conductelor in bratari; – demontarea distantierilor si a sarmelor de legat; – taierea, executarea si rectificarea filetelor; – Imbinarea tevilor prin infiletare folosind materialele de etansare; – executarea golului in zidarie si sau placa; – confectionarea si montarea tevii de protectie, grunduirea si cimentarea ei; – umplerea instalatiei supuse probei de etanseitate; – montarea si racordarea pompei pentru ridicarea presiunii in instalatie; – ridicarea si mentinerea presiunii in instalatie, conform prevederilor in vigoare; – verificarea integritatii instalatiei; – verificarea presiunii apei la punctele de consum prin deschiderea simultana a mai multor consumatori.
	<ul style="list-style-type: none"> – supply galvanized steel pipes and fittings, pipe-straps, primer, paint; – transporting the materials to the place of work; – pegging out; – provisional setting pipes in place; – checking; – making the corrections and fixing the plugs; – mounting the pipe-straps; – final fixing the pipes in pipe-straps; – connecting pipes (welding); – dismantling of the spacers and binding wires; – making reservations in brickworks and/or reinforced concrete elements; – manufacturing and mounting the protection pipe, priming and fixing it; – filling the installations for the tightness probe; – pump mounting and setting in order to increase the pressure in the installation; – increasing the pressure in the installation according to the norms; – checking of the installation; – pressure tests; – cleaning the installation 2 or 3 time; – painting cover for pipes and accessories.

4.4. CANALIZARE / SEWERAGE		
Codul normei Norm Code	SA04	Montare tuburi canalizare din PVC, PP, PE - A (ø32-50) - B (ø75-110) - C (ø125-160)
Unitatea de masura Measuring Unit	m	Mounting PVC, PP, PE sewerage pipes. - A (ø32-50) - B (ø75-110) - C (ø125-160)
Descriere: Description:	<ul style="list-style-type: none"> – procurarea tuburilor de canalizare din PVC, PP, PE si a pieselor de legatura; – transportul pina la locul de montare; – trasarea si luarea de masuri la pozitie prin stabilirea pantei; – montarea tuburilor si a pieselor de legatura (prin lipire sau presare); – efectuarea probei de etanseitate si functionare a instalatiei de canalizare, care cuprinde: deschiderea la maximum a tuturor consumatorilor de apa racordati la canalizare si punerea in functiune simultana a mai multor WC-uri si verificarea tuturor imbinarilor cu mufe. 	
	<ul style="list-style-type: none"> – supply PVC, PP, PE sewerage pipes and fittings; – transporting the materials to the place of work; – pegging out in order to establish the slope; – connecting pipes and fittings (gluing and pressing); – test for sewerage installation. 	
Codul normei Norm Code	SA05	Montare tuburi de gresie ceramica antiacida pentru instalatie de canalizare. - A (ø50-80mm) - B (ø90-125 mm) - C (ø150-200 mm)
Unitatea de masura Measuring Unit	m	Mounting the ceramic chemical resistance pipes for sewerage installations. - A (ø50-80mm) - B (ø90-125 mm) - C (ø150-200 mm)
Descriere: Description:	<ul style="list-style-type: none"> – procurarea tuburilor si pieselor de legatura ceramica pentru canalizare; – transportul pina la locul de montare; – trasarea si luarea de masuri la pozitie prin stabilirea pantei; – montarea tuburilor si a pieselor de legatura si etansarea lor; – efectuarea probei de etanseitate si functionare a instalatiei de canalizare care cuprinde: deschiderea la maximum a tuturor consumatorilor de apa racordati la canalizare si verificarea tuturor imbinarilor cu mufe. 	
	<ul style="list-style-type: none"> – supply ceramic pipes and fittings; – transporting the materials to the place of work; – pegging out; – mounting pipes and fittings; – tests for sewerage installation. 	

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4.5. ARMĂTURI ȘI HIDRANȚI /VALVES AND HYDRANTS		
Codul normei Norm Code	SB01	Montare armaturi (inchidere, reglaj, unic sens, siguranta) cu imbinare prin insurubare. - A(1/2" - 3/4") - B(1" - 1 1/2") - C(2" - 2 1/2") - D(3" - 4")
Unitatea de masura Measuring Unit	buc/piece	Mounting valves (closing, adjustment, one way devices, safety) joining by screwing up. - A(1/2"- 3/4") - B(1" - 1 1/2") - C(2" - 2 1/2") - D(3" - 4")
Descriere: Description:	<ul style="list-style-type: none"> – procurare armaturi (inchidere, reglaj,unic sens,siguranta) si racorduri olandeze; – transportul materialelor pina la locul de montare; – montarea racordului olandez sau cot cu racord olandez cu etansare plana, prin: insurubare si etansare cu garnitura; – montarea armaturii prin insurubare. <hr/> <ul style="list-style-type: none"> – supply valves, Dutch joints etc.; – transporting the materials to place of work; – mounting the Dutch fittings; – mounting valves/devices with fittings by screwing. 	
Codul normei Norm Code	SB02	Montare armaturi cu flanse, la instalatii de alimentare cu apa. - A (Dn15-20mm) - B (Dn25-40mm) - C (Dn80mm) - D (Dn100 mm)
Unitatea de masura Measuring Unit	buc/piece	Mounting valves with flanges, for water supply installations. - A (Dn15-20mm) - B (Dn25-40mm) - C (Dn80mm) - D (Dn100 mm)
Descriere: Description:	<ul style="list-style-type: none"> – procurare armaturi, (inchidere, reglaj, unic sens, siguranta) inclusiv flansele; – transportul materialelor pina la locul de montare; – montarea robinetului prin asamblarea cu flansa a conductei de apa; – confectionarea si montarea suportilor pentru armatura. <hr/> <ul style="list-style-type: none"> – supply valves including flanges; – transporting the materials to place of work; – mounting the tap assembling by flanges to the water pipe; – manufacturing and mounting the supports for valves 	

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Codul normei Norm Code	SB03	Montare hidrant interior, cu diametrul de 2"
Unitatea de masura Measuring Unit	buc/piece	Mounting 2" diameter indoor hydrant.
Descriere: Description:	<ul style="list-style-type: none"> – procurarea robinetului hidrant, a furtunului de incendiu, a tuturor accesoriilor si a ramei respective, a cutiei de hidrant cu rama , precum si a geamului pentru hidrant; – transportul materialelor pana la locul de montare; – montarea robinetului hidrant , a furtunului de incendiu, a tuturor accesoriilor si a ramei respective (sau a cutiei de hidrant cu rama) si a geamului pentru hidrant. 	
	<ul style="list-style-type: none"> – supply hydrant's tap, fire hose, all accessories, box with frame(glass including); – transporting the materials to place of work; – mounting the hydrant tap, the fire hose, all the accessories and the respectively frame (or the hydrant's box with frame) and the glass. 	
Codul normei Norm Code	SB04	Montare caciula de ventilatie: a) Dn 50 mm; b) Dn 70 mm; c) Dn 100 mm; d) Dn 125 mm.
Unitatea de masura Measuring Unit	buc/piece	Installing ventilation cap: a) Dn 50 mm; b) Dn 70 mm; c) Dn 100 mm; d) Dn 125 mm.
Descriere: Description:	<ul style="list-style-type: none"> – procurare material; – transportul auto la locul de punere in opera; – manipulare si montaj. 	
	<ul style="list-style-type: none"> – material supply; – transport to work place; – handling and assembling. 	

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4.6. OBIECTE SANITARE / SANITARY APPLIANCES		
Codul normei Norm Code	SC01	Montare lavoar de portelan tip, cu armaturi de alimentare cu apa si scurgere (complet echipat).
Unitatea de masura Measuring Unit	buc/piece	Mounting standard porcelain hand wash w/stand, taps, sewers fittings (including accessories)
Descriere: Description:	<ul style="list-style-type: none"> – procurare lavoar, portprosop, etajera, oglinda, baterie amestecatoare, robineti coltar Ø1½"; ventil+ sifon lavoar – transportul obiectelor pana la locul punerii in opera; – montarea diblurilor si a consolelor; – asezarea lavoarului pe pozitie ; montare ventil +sifon lavoar – montarea robinetelor de reglaj, (drept sau coltar) la tevile de legatura ale obiectelor sanitare; – montarea(dihtuirea) bateriei pe lavoar si racordarea ei la instalatia de apa rece si calda; – racordarea lavoarului la conducta de scurgere, precum si efectuarea probei de functionare; – montarea diblurilor pentru portprosop, etajera, oglinda; – montarea portprosopului, etajerii, oglinzii. <hr/> <ul style="list-style-type: none"> – supply hand wash basin, towel stand, shelf, mirror, taps (Φ1/2") w/fittings; – transporting materials to place of work; – mounting supports hand wash basin, stand etc. in place; – mounting taps (straight or cornered) w/fittings of sanitary objects; – connecting hand wash basin to water supply/sewerage pipes, testing; – mounting the dowels for towel stand, shelf, mirror; – mounting the towel stand, shelf, mirror. 	
Codul normei Norm Code	SC02	Montare spalator de inox, tip cu armaturi de alimentare cu apa si scurgere (complet echipat).
Unitatea de masura Measuring Unit	buc/piece	Mounting stainless steel hand washes basin w/taps, sewers fittings (including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare spalator inox, , baterie amestecatoare, robinete de reglaj ½", ventil+sifon; – transportul obiectelor pina la locul punerii in opera; – montarea diblurilor si a consolelor; – asezarea spalatorului pe pozitie; montare ventil + sifon – Montarea robinetelor de reglaj, (drept sau coltar) la tevile de legatura ale obiectelor sanitare; – Montarea bateriei pe lavoar si racordarea ei la instalatia de apa rece si calda; – racordarea lavoarului la conducta de scurgere precum si efectuarea probei de functionare. 	

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<ul style="list-style-type: none"> – supply stainless steel hand wash basin, tap ½” w/fittings, valves, sewers w/ fittings,; – transporting materials to place of work; – mounting the dowels/brackets/supports, hand wash basin in place; – mounting taps (straight or cornered) w/fittings of sanitary objects ; – connecting stainless steel hand wash basin to water supply/sewerage pipes, testing. 		
Codul normei Norm Code	SC03	Montare chiuveta emailata sau gresie ceramica, cu armaturi de alimentare cu apa si scurgere (complet echipată).
Unitatea de masura Measuring Unit	buc/piece	Mounting cast iron enameled / ceramic hand wash basin w/fittings for water supply/sewers (including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare chiuveta, baterie amestecatoare, robinete de reglaj; – transportul obiectelor pina la locul punerii in opera; – montarea diblurilor si a consolelor; – asezarea chiuvetei pe pozitie; – montarea robinetelor de reglaj, (drept sau coltar) la tevile de legatura ale obiectelor sanitare; – montarea robinetului de serviciu la chiuveta si racordarea lui, la instalatia de apa rece si calda; – racordarea chiuvetei la conducta de scurgere precum si efectuarea probei de functionare. 	
	<ul style="list-style-type: none"> – supply hand wash basin, taps w/fittings, sewers fittings; – transporting materials to place of work; – mounting the dowels/brackets/supports, hand wash basin in place; – mounting taps (straight or cornered) w/fittings of sanitary objects ; – connecting hand wash basin to water supply/sewerage pipes, testing . 	
Codul normei Norm Code	SC04	Montare vas WC porțelan (complet echipat).
Unitatea de masura Measuring Unit	buc/piece	Mounting porcelain toilet (WC pan, including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare vas WC, rezervor de scurgere, racord flexibil, cuier pentru rufe, porthartie, robinet colțar, capac WC; – transportul obiectelor pina la locul punerii in opera; – montarea diblurilor in pardoseala; – montarea vasului pe pozitie; – montarea rezervorului de apa si a tevii de spalare; – montarea robinetului flotor, la vas, a armaturilor si a pieselor anexe; – montarea robinetului de sectionare (coltar) la conducta de apa rece; – racordarea vasului WC la coloana de canalizare; – montarea cuier, porthartie si alte accesorii. – efectuarea probei de functionare; 	

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<ul style="list-style-type: none"> – supply WC pan, water tank, sewers fittings, taps, accessories: hanger, toilet paper stand, toilet seat+flap; – transporting objects to place of work; – mounting the dowels/supports; – mounting toilet bowl in place; – mounting water tank, water supply/sewers pipes; – mounting taps, fittings, accessories, toilet seat+flap; – tests. 		
Codul normei Norm Code	SC05	Montare pisoar, cu armaturile de alimentare cu apa si scurgere (complet echipat).
Unitatea de masura Measuring Unit	buc/piece	Mounting urinal, water supply /sewers pipes and taps (including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare vas pisoar, robinet pisoar si armaturi de scurgere – ventil+sifon pisoar; – transportul obiectelor pina la locul punerii in opera; – montarea diblurilor; – montarea vasului pe pozitie; – montarea robinetului pisoar la conducta de apa rece, montare ventil+sifon; – racordarea pisoarului la conducta de apa rece si la conducta de scurgere; – efectuarea probei de functionare. 	
	<ul style="list-style-type: none"> – supply the urinal, water supply/sewers pipes and fittings, taps ; – transporting the objects to place of work; – mounting the dowels/supports, urinal in place; – mounting water supply/sewers pipes and fittings, taps ; – tests. 	
Codul normei Norm Code	SC06	Montare fantana de baut apa, cu armaturi de alimentare si scurgere (complet echipată).
Unitatea de masura Measuring Unit	buc/piece	Mounting drinking water well, w/ water supply/sewers pipes/ fittings (including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare fantana din fonta emailata, robinet de alimentare cu apa si armaturi de scurgere- ventil+sifon; – transportul obiectelor pina la locul punerii in opera; – montarea diblurilor; – montarea vasului pe pozitie; – montarea armaturii; – montarea robinetului de reglaj la conducta de apa rece; – racordarea fantanii la conducta de apa rece si la conducta de scurgere; – efectuarea probei de functionare. 	

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<ul style="list-style-type: none"> – supply cast iron enameled well, water supply/sewers pipes and fittings, taps; – transporting the objects to place of work; – mounting the dowels/supports well in place; – mounting the reinforcement; – mounting water supply/sewers pipes, taps ; – tests. 		
Codul normei Norm Code	SC07	Montare instalatie completa de dus
Unitatea de masura Measuring Unit	buc/piece	Mounting shower w/ tub installation (including accessories).
Descriere: Description:	<ul style="list-style-type: none"> – procurare cada dus, ventil+sifon cada,baterie amestecatoare pentru dus, robinete , accesorii (portsăpun, cuier); – transportul obiectelor pina la locul punerii in opera; – montarea caditei de dus; – racordarea caditei de dus la conducta de scurgere; – montarea robinetilor la conductele de apa rece si calda; – montarea bateriei de dus; – test de functionare. 	
	<ul style="list-style-type: none"> – supply shower, tub w/ sewers pipes&fittings, shower taps; – transporting the objects to the place of mounting; – mounting the shower tub, sewers pipes / fittings; – mounting the accessories, making necessary connections; – mounting the taps, testing. 	

4.7. SIFOANE ȘI CĂMINE DE VIZITARE / GULLIES, TRAPS AND MANHOLES		
Codul normei Norm Code	SD01	Montare sifon de pardoseala tip Ø 50-100mm - A (fonta); - B (polipropilena).
Unitatea de masura Measuring Unit	buc/piece	Mounting floor gully Ø 50-100mm. - A (cast iron); - B (polypropylene)
Descriere: Description:	<ul style="list-style-type: none"> – procurare sifon scurgere; – transportul pana la locul de montare – montarea sifonului; – racordarea la scurgere; – acoperirea cu un strat de protectie; – refacerea pardoselii in jurul sifonului. 	
	<ul style="list-style-type: none"> – supply floor gully; – transporting material to the place of work; – mounting gully, sewers connecting; – covering with a protection layer; – finishing the floor around gully. 	
Codul normei Norm Code	SB05	Montare receptor de terasa din polipropilena: a) Dn 110 mm; b) Dn 125 mm; c) Dn 150 mm.
Unitatea de masura Measuring Unit	buc/piece	Installing polypropylene gully for flat roof: a) Dn 110 mm; b) Dn 125 mm; c) Dn 150 mm.
Descriere: Description:	<ul style="list-style-type: none"> – procurare material; – transportul auto la locul de punere in opera; – manipulare si montaj. 	
	<ul style="list-style-type: none"> – material supply; – transport to work place; – handling and Mounting. 	

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Codul normei Norm Code	SD02	Executare recipient din zidarie, pentru scurgere, cu gratar din fonta, sau similar.
Unitatea de masura Measuring Unit	buc/piece	Manufacturing brickwork manhole for sewerage, w/ cast iron lid, or similar
<p>Descriere: Description:</p> <ul style="list-style-type: none"> – procurare capac sau gratar din fonta pentru camine; – transportul pina la locul de montare; – executarea sapaturii; – executarea fundatiei din beton simplu; – executarea zidariei de caramida cu mortar de ciment; – executarea placii de beton armat pentru sustinerea capacului; – executarea tencuiei sclivisite interioare; – montarea treptelor din otel beton; – executarea umpluturii de pamant; – montarea capacului sau a gratarului si prinderea acestuia cu mortar de ciment. <hr/> <ul style="list-style-type: none"> – supply cast iron lid; – transporting the materials to the place of mounting; – manual/mechanical digging; – making concrete foundation; – making brick masonry with cement mortar; – making reinforced concrete frame for the cast iron lid; – making inside smooth plastering; – mounting cat ladder; – backfilling and compacting around manhole; – mounting cast iron screen and fixing. 		

5. MONTAJ LA CENTRALA TERMICA – HEATING PLANT – EQUIPMENTS

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

5.1. DEMONTARE CENTRALA TERMICA / THERMAL POWER STATION DISMANTLING		
Codul normei Norm Code	RMU01	Demontare schimbătoare de căldură cu plăci
Unitate de masura Measuring Unit	buc/piece	Dismantling heat exchange unit (plates type)
Descriere: Description:	<ul style="list-style-type: none"> – demontare/dezasamblare de pe pozitie; – transportul elementelor pe orizontala-verticală la depozit intermediar; – încărcare și transport la locul de depozitare autorizat <hr/> <ul style="list-style-type: none"> – dismantling/disassembling elements off base; – transporting elements horizontal-vertical to temporary storage; – loading and transporting to authorized dump area. 	
Codul normei Norm Code	RMU02	Demontare boiler cu capacitate: a) <1000 l b) >1000 l
Unitate de masura Measuring Unit	buc/piece	Dismantling boiler unit: a) <1000 l b) >1000 l
Descriere: Description:	<ul style="list-style-type: none"> – demontare/dezasamblare de pe pozitie; – transportul elementelor pe orizontala-verticală la depozit intermediar; – încărcare și transport la locul de depozitare autorizat <hr/> <ul style="list-style-type: none"> – dismantling/disassembling elements off base; – transporting elements horizontal-vertical to temporary storage; – loading and transporting to authorized dump area. 	
Codul normei Norm Code	RMU03	Demontare pompe a) Dn 50-65 mm b) Dn 80-100 mm
Unitate de masura Measuring Unit	buc/piece	Dismantling pump unit a) Dn 50-65 mm b) Dn 80-100 mm
Descriere: Description:	<ul style="list-style-type: none"> – demontare/dezasamblare de pe pozitie; – transportul elementelor pe orizontala-verticală la depozit intermediar; – încărcare și transport la locul de depozitare autorizat <hr/> <ul style="list-style-type: none"> – dismantling/disassembling elements off base; – transporting elements horizontal-vertical to temporary storage; – loading and transporting to authorized dump area. 	

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Codul normei Norm Code	RMU04	Demontare cazan tip existent, de tip Metalica sau similar
Unitate de masura Measuring Unit	buc/piece	Dismantling existent boiler unit, type Metalica or similar
Descriere: Description:	<ul style="list-style-type: none"> – demontare accesorii cazan; – desfacerea racordurilor si a armaturilor de la instalatie; – demontare cazan (dezasamblare prin taiere); – spargeri si desfaceri postament din beton; – manipulare, incarcare si transport auto intr-un depozit intermediar; – manipulare, incarcare si transportul molozului la depozitul autorizat. <hr/> <ul style="list-style-type: none"> – dismantling boiler accesories; – installation fittings disassembling; – boiler dismantling (cattling); – braking and dismantling of the concrete socle; – handling, loading and vehicle transport to intermediary deposit; – handling, loading and transport to authorized dump area. 	

5.2. MONTAREA CENTRALA TERMICA / THERMAL POWER STATION ASSEMBLING		
Codul normei Norm Code	MU01	Montare cazan sectional de otel - A (12.5 – 39 m ²) - B (40 – 68.5 m ²) - C (70 - 104.5 m ²)
Unitate de masura Measuring Unit	buc/piece	Mounting the steel sectional boiler - A (12.5 – 39 m ²) - B (40 – 68.5 m ²) - C (70- 104.5 m ²)
Descriere: Description:	<ul style="list-style-type: none"> – executarea postamentului de beton; – transportul elementelor de cazane pe orizontala la locul de montaj; – asezarea pe pozitie; – montarea accesoriilor; – racordarea la instalatiile de incalzire; – efectuarea probei de presiune. 	
	<ul style="list-style-type: none"> – executing the concrete base; – transporting the boiler's elements on the horizontal to the mounting place; – setting on the place; – mounting of the accessories; – connection to the heating installation; – pressure test. 	
Codul normei Norm Code	MU02	Electropompa de circulatie montata pe conducta , cu diametrul: - A (pana la 2") - B (peste 2")
Unitate de masura Measuring Unit	buc/piece	Electric-pump mounted on the pipe, with diameter: - A (up to 2") - B (over 2")
Descriere: Description:	<ul style="list-style-type: none"> – transportul pompelor pana la locul de montare; – executarea stutului din teava si pregatirea conductei existente in vederea montarii pompei; – fixarea provizorie si definitiva a stutului din teava prin sudarea la pozitie; – asezarea la pozitie si montarea pompei; – spalarea conductei; – verificarea sensului de rotire al pompei; – racordarea electrica si legarea la pamant a pompei. 	
	<ul style="list-style-type: none"> – pumps transport to the place of mounting; – manufacturing the connecting piece of the pipe and preparing the existent pipe for mounting; – temporary and final fixing of the connecting pipe by welding it in to its place; – setting the pump to position and mounting it; – cleaning the pipe; – checking the pump rotation sense; – electrical coupling and grounding the pump. 	

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Codul normei Norm Code	MU03	Boiler vertical asezat pe pardoseala, boilerul avand capacitatea: - A (pana la 300 l) - B (350-1000 l) - C (1000-3000 l) - D (4000 l) - E (5000 l)
Unitate de masura Measuring Unit	buc/piece	Vertical boiler set on the floor, with boiler's capacity: - A (inclusive 300 l) - B (350-1000 l) - C (1000-3000 l) - D (4000 l) - E (5000 l)
Descriere: Description:	<ul style="list-style-type: none"> – transportul boilerului si materialelor pina la locul de montare; – asezarea si fixarea la pozitie; – racordarea la instalatie si efectuarea probei de etanseitate. <hr/> <ul style="list-style-type: none"> – boiler and materials transport the to the place of mounting; – setting and fixing to position; – connection of the installation and making the tightness probe. 	
Codul normei Norm Code	MU04	Montare armaturi fine pentru cazanele de incalzire centrala: - A (termometru, fluier de semnalizare pentru suprapresiune montate cu mufa sau flanse, fluier de semnalizare pentru lipsa apa montate cu mufa sau flanse); - B (hidrometru sau manometru cu robinet de control, stut de robinet de control pentru fittinguri); - C (indicator de nivel - armaturi si sticla montat cu mufa sau flansa, teaca pentru termometru).
Unitate de masura Measuring Unit	buc/piece	Mounting the taps for central heating boilers: - A (thermometer, high pressure warning whistle connected with socket or flanges, water low level warning device connected with socket and flanges); - B (hydrometer or manometer with control tap, control tap connection piece, for the taps); - C (level indicator – taps and glass mounted with socket or flanges, thermometer sheath).
Descriere: Description:	<ul style="list-style-type: none"> – transportul materialelor pana la locul de montare; – asezarea si montarea armaturii fine la pozitie. <hr/> <ul style="list-style-type: none"> – materials transport to the place of mounting; – setting and mounting of the taps. 	

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Codul normei Norm Code	MU05	Montare separator de namol pentru conducte la instalatia de incalzire centrala avand diametrul de: - A (Dn 40 –200 mm) - B (Dn 250-600 mm) - C (Dn 700 –1200 mm)
Unitate de masura Measuring Unit	buc/piece	Mounting of the mud separator for central heating installation's pipe with diameters of: - A (Dn 40 –200 mm) - B (Dn 250-600 mm) - C (Dn 700 –1200 mm)
Descriere: Description:	<ul style="list-style-type: none"> – transportul pina la locul de montare; – montarea separatorului si efectuarea probei de etanseitate. <hr/> <ul style="list-style-type: none"> – materials transport to the place of mounting; – mounting the separator and making the tightness probe. 	
Codul normei Norm Code	MU06	Montare vas de expansiune inchis cu membrana cu capacitatea de: - A (pana la 500 l) - B (501-1000 l) - C (1000-1500 l)
Unitate de masura Measuring Unit	buc/piece	Mounting the closed expansion tank with membrane, with capacity of: - A (up to 500 l) - B (501-1000 l) - C (1000-1500 l)
Descriere: Description:	<ul style="list-style-type: none"> – transportul materialelor pina la locul de montare; – asezarea la pozitie; – racordarea la instalatie pe retur; – montarea supapei de siguranta cu arc; – verificarea presiunii de pregonflare a membranei. <hr/> <ul style="list-style-type: none"> – materials transport to the place of mounting; – setting to position; – connection to the return installation; – mounting the automatic safety valve; – verifying the membrane's before inflation pressure. 	
Codul normei Norm Code	MU07	Montare separator termostatic de condensat sau filtru denisipator cu cartus filtrant sau filtru denisipator cu cartus cu cristale de polifosfati imbinat cu: - A (mufa ½-1 ¼) - B (flanse Dn 15-50mm)
Unitate de masura Measuring Unit	buc/piece	Mounting thermostatic filter or sand filter or filtrating cartridge with sand filter or polyphosphates, connected with: - A (socket ½-1 ¼) - B (flange Dn 15-50mm)
Descriere: Description:	<ul style="list-style-type: none"> – transportul pana la locul de montare; – asezarea pe pozitie, si montarea prin insurubare sau stringerea suruburilor la flanse. 	

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<ul style="list-style-type: none"> – materials transport to the place of mounting; – setting to position, and mounting by screwing or compressing the screws to flanges. 		
Codul normei Norm Code	MU08	Montare cazan din fonta presurizat, pentru incalzire, cu functionare cu combustibil gazos, inclusiv arzatorul si tabloul de comanda avand: - a) (Pu=105 kw:6 bar)
Unitate de masura Measuring Unit	buc/piece	Mounting of the pressured cast-iron boiler for heating, running with gas combustibles, including the burner and switch panel: - a) (Pu=105 kw:6 bar)
Descriere: Description:	<ul style="list-style-type: none"> – procurare materiale necesare pentru executare a postamentului din beton si a materialelor marunte necesare montarii cazanului; – executarea postamentului de beton; – transportul elementelor de cazane pe orizontala si verticala la locul de montaj; – asezarea pe pozitie; – montarea cazanului inclusiv accesoriile conform listei de echipamente; – montare tablou comanda; – montare arzator; – racordarea la instalatiile de incalzire; – efectuarea probei de functionare. 	
	<ul style="list-style-type: none"> – supply the necessary materials for executing the concrete base and supply smallest materials for the boiler mounting; – executing the concrete base; – horizontal transport of the boiler's elements to the place of mounting; – setting to place; – mounting the boiler and accessories according to the equipment list; – control panel mounting; – burner mounting; – connection to the heating installation; – operational test. 	
Codul normei Norm Code	MU09	Montare statie de dedurizare a apei avand debitul: a)100l/h
Unitate de masura Measuring Unit	buc/piece	Mounting the exchange softening station with capacity: a)100l/h
Descriere: Description:	<ul style="list-style-type: none"> – procurare materiale necesare pentru executare a postamentului din beton si a materialelor marunte necesare montarii statiei; – executarea postamentului de beton; – transportul elementelor pe orizontala si verticala la locul de montaj; – asezarea pe pozitie; – montarea utilaj (racordare); – efectuarea probei de functionare. 	

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<ul style="list-style-type: none"> – supply necessary materials for executing of the concrete foundation and fittings supply for mounting of the exchange softening station; – executing the concrete foundation; – horizontal and vertical transport of the station elements; – mounting of the station (mounting); – operational test. 		
Codul normei Norm Code	MU10	Montare supapa de siguranta cu arc din fonta avand diametrul de: a) 25/40mm
Unitate de masura Measuring Unit	buc/piece	Mounting the cast-iron automatic safety valve with diameter: a) 25/40mm
Descriere: Description: <ul style="list-style-type: none"> – procurare materiale inclusiv material marunt necesar montarii; – transport auto pana la locul de punere in opera; – manipulare si montaj; 		
<ul style="list-style-type: none"> – supply the necessary materials, including the fittings for mounting; – materials transport the to the assembling place; – handling and mounting . 		
Codul normei Norm Code	MU11	Montare canal si cos de fum de inox 400x400mm (inclusiv clapeta de explozie si usa de vizitare)
Unitate de masura Measuring Unit	buc/piece	Mounting stainless steel chimney 400x400mm (including explosion clack valve and inspection door)
<ul style="list-style-type: none"> – transportul canalului si cosului la locul de montaj; – manipulare materiale; – montare cos si canal de fum; 		
<ul style="list-style-type: none"> – transporting and materials to the place of mounting; – manipulating the materials; – mounting the culvert and smock creel. 		

6. RETELE TERMICE - HEATING NETWORK

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

6.1. DEMONTARE / DISMANTLING		
Codul Normei Norm Code	IC05	Demontare rețele termice din țevă neagră montate în canale, având diametrul: a) 57mm b) 63.5mm c) 70mm d) 76mm e) 89mm f) 108mm
Unitate de masura Measuring Unit	m	Dismantling the thermal network of isolate steel pipe mounted in chanel with diameter: a) 57mm b) 63.5mm c) 70mm d) 76mm e) 89mm f) 108mm
Descriere Description:	<ul style="list-style-type: none"> – golire instalație; – bușonare conducte; – spargeri și desfaceri betoane din puncte fixe; – desfacere izolație conductă; – tăiere conductă; – demontare conductă de pe suporti; – demontare suporti; – transport prin purtare directă, transport cu roaba, a materialelor demontate; – încărcare și transport material demontat (conductă) în depozit; – încărcare și transport moloz la groapă, inclusiv taxa la groapă. <hr/> <ul style="list-style-type: none"> – emptying the installation; – mounting the pipe stoppers; – dismantling the concrete from the fixed points; – dismantling the pipe's insulation; – cutting the pipe; – dismantling the pipe from the supports; – dismantling the supporting elements; – direct carrying and transport of the pipes, by wheelbarrow of the dismantled materials; – loading and transport of the dismantled materials (pipe) to the store house; – loading and transporting of the debris to the authorized dumping area. 	

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Codul Normei Norm Code	IC06	Demontare robineti, vane, având diametrul: a) 1/2" - 3/4" b) 1" - 1 1/2" c) 2" - 2 1/2" d) 3" - 4"
Unitate de masura Measuring Unit	buc/piece	Dismantling the taps and the tubs with diameter: a) 1/2" - 3/4" b) 1" - 1 1/2" c) 2" - 2 1/2" d) 3" - 4"
Descriere Description:		
<div><div><div><div>— demontare robineti (vane);</div><div>— transport prin purtare directă;</div><div>— încărcare și transport material demontat în deposit.</div></div><div><div>— dismantling the taps (the gates);</div><div>— transport by direct carrying;</div><div>— loading and transport of the dismantled materials to the store house.</div></div></div></div>		

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6.2. MONTARE / INSTALLATION		
Codul Normei Norm Code	IC01	<p>Retele termice din teava neagra preizolata montata in pamant avand dimensiunile:</p> <p>a) 1" b) 1 1/4" c) 1 1/2" d) 2" e) 63.5mm f) 70mm g) 76mm h) 89mm i) 108mm</p>
Unitate de masura Measuring Unit	m	<p>Thermal network of pre-insulated underground steel pipe with dimensions:</p> <p>a)1" b)1 1/4" c) 1 1/2" d) 2" e) 63.5mm f) 70mm g) 76mm h) 89mm i) 108mm</p>

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Descriere Description:	<ul style="list-style-type: none"> – procurare teava preizolata inclusive fittinguri (cot, curba, teu, reductie preizolata) inclusive pierderi tehnologice si material marunt; – procurare mansoane, inele de etansare la trecerea conductelor prin pereti, perne de dilatare si perne de rezemare; – procurare folie PVC pentru marcaj conducte; – procurare material lemons pentru sprijiniri maluri, parapete si podete, sustineri cabluri si conducte; – procurare nisip; – procurare materiale pentru confectii metalice in puncte fixe; – procurare beton pentru puncte fixe; – transport auto la locul de punere in opera; – manipulare materiale, transport cu roaba; – sapatura in pamant executata manual; – sprijiniri maluri cu dulapi de lemn; – montare parapete si podete, sustineri de cable si conducte; – intindere pat de nisip; – lansare teava si montare; – montare mansoane si umplerea lor cu spuma poliuretunica; – acoperirea cu nisip a conductei; – inchidere capete conducte pentru probe; – spalare conducte si probe de etanseitate la presiune a conductei si repararea deficientelor; – montarea inelelor de etansare, perne de dilatare, perne de rezemare; – realizare puncte fixe (montare confectii metalice si turnare beton); – montare folie PVC; – umplutura de pamant; – compactare cu maiul de mana; – incarcare si transport pamant excedentar la groapa inclusive taxa la groapa; – probe si teste (control gama al sudurilor, proba de presiune etc).
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- supply pre-insulated steel pipe, including fittings, additional materials;
- supply collars, sealing rings for pipes passing through walls, dilatation pads and supporting pads;
- supply PVC warning strip for pipes marking;
- supply timber for banks supports, parapets and pipe culverts, upholding cables for the pipes;
- sand supply;
- supply materials for fixed points metallic confections;
- supply concrete for fixed points;
- vehicle transportation of the materials to the place of mounting;
- materials handling, wheelbarrow transport;
- manual digging;
- banks support with wooden planks;
- mounting the parapets and the pipe culvert, upholding the cable and the pipes;
- sand support layer applying;
- laying and installing the pipe;
- mounting the insulating mantle and filling with polyurethane foam;
- covering the pipe with sand;
- closing the pipe's ends for tests;
- cleaning the pipe and making pressure and tightness tests and eventually remedial works;
- mounting the sealing rings, dilatation pads, supporting pads;
- mounting the fixed points (mounting metallic confections and concreting);
- laying the PVC warning strip;
- backfilling and compacting ;
- loading and transporting the excess soil to the authorized dumping area;
- tests (pressure test, gamma control tests of the welding etc.).

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Codul Normei Norm Code	IC02	Retele termice din teava neagra preizolata montata in canale avand dimensiunile: a) 1 1/2" b) 63.5mm c) 70mm
Unitate de masura Measuring Unit	m	Thermal network of pre-insulated steel pipe mounted in the sewers having the dimensions: a) 1 1/2" b) 63.5mm c) 70mm
Descriere Description:	<ul style="list-style-type: none"> – procurare teava preizolata inclusive fittinguri (cot, curba, teu, reductie preizolata) inclusiv pierderi tehnologice si material marunt; – procurare mansoane, inele de etansare la trecerea conductelor prin pereti; – procurare suportii conducte; – procurare materiale pentru conectii metalice in puncte fixe; – procurare beton pentru puncte fixe; – transport auto la locul de punere in opera; – manipulare materiale; – sapatura in pamant executata manual; – desfacere placi peste canale (spargere); – manipulare materiale, transport cu roaba; – montare suportii conducte; – lansare teava si montare; – montare mansoane si umplerea lor cu spuma poliuretana; – montare inele inele de etansare; – montare conectii metalice si turnare beton in puncte fixe; – inchidere capete conducte pentru probe; – spalare conducte si probe de etanseitate la presiune a conductei si repararea deficientelor; – control gama al sudurilor; – procurare si montare placi peste canale; – umplutura de pamant; – compactare cu maiul de mana; – incarcare si transport pamant excedentar la groapa inclusiv taxa la groapa. 	

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<ul style="list-style-type: none"> – supply isolated steel pipe including the fittings, including technologic losses and small additional materials; – supply collars, the sealing rings for pipes passing through walls, dilatation pads and supporting pads; – pipe's supports supply; – supply materials for fixed points metallic prefabs; – supply concrete for fixed points; – vehicle transportation of the materials to the place of mounting; – manual digging; – demolition concrete covers over the channels ; – materials handling, wheelbarrow transport; – mounting the pipe's supports; – laying and installing the pipe; – mounting the insulating mantle and filling with polyurethane foam; – mounting the sealing rings; – mounting the metallic prefabs and pouring the concrete; – closing the pipe's ends for tests; – cleaning the pipe and making pressure and tightness tests and eventually remedial works; – gamma control tests of the welding; – supply and mounting the channels covers; – backfilling and compacting; – loading and transporting the excess soil to the authorized duping area. 		
Codul Normei Norm Code	IC03	Montare robineti golire avand diametrul: a) 3/8" b) 1/2" c) 3/4" d) 1"
Unitate de masura Measuring Unit	buc/piece	Mounting the emptying taps with diameters: a) 3/8" b) 1/2" c) 3/4" d) 1"
Descriere Description:	<ul style="list-style-type: none"> – procurare robineti golire cu cep, dop și portfurtun, inclusiv material mărunț; – transport auto pana la locul de pus in opera; – manipulare materiale; – montare robineti; – probe de etanseitate. <hr/> <ul style="list-style-type: none"> – supply of emptying taps with spigot, plug and hose's support, including the small additional materials; – vehicle transportation of the materials, to the place of mounting; – handling the materials; – mounting the taps; – pressure tests. 	

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Codul Normei Norm Code	IC04	Montare robineti cu flanse, având diametrul: a) 32 mm b) 40 mm c) 50 mm d) 65 mm e) 80 mm f) 100 mm
Unitate de masura Measuring Unit	buc/piece	Mounting the taps with flanges, with diameters: a) 32 mm b) 40 mm c) 50 mm d) 65 mm e) 80 mm f) 100 mm
Descriere Description:	<ul style="list-style-type: none"> – procurare robineti, vane (cu sertar, ventil, sferă) cu flanse, inclusiv material mărunț necesar montării; – procurare contraflanse, inclusiv material mărunț necesar montării; – transportul auto pana la locul de pus in opera; – manipulare materiale; – montare fittinguri; – probe de etanșeitate. <hr/> <ul style="list-style-type: none"> – supply of taps, valves (drawer type, sphere type), with flanges, including small additional materials; – supply of counter flanges, including small additional materials; – vehicle transportation of the materials, to the place of mounting; – handling the materials; – fittings mounting; – pressure tests. 	

7. INSTALATII TERMICE / HEATING INSTALLATIONS

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

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7.1. DEMONTARE / DISMANTLING		
Codul normei Norm Code	Rpl1	Demontarea radiatoarelor din fonta
Unitate de masura Measuring Unit	m²	Dismantling the cast iron radiators
Descriere Description:	<ul style="list-style-type: none"> - inchiderea si golirea instalatiei; - desfacere racordurilor olandeze pe tur si retur; - demontarea armaturii din traseul conductei; - desfacerea racordului de la conducte; - coborarea elementelor de pe pozitie; - transportul la depozit/groapa de gunoi autorizat. 	
	<ul style="list-style-type: none"> - shutting down and emptying the installation; - dismantling the Dutch joint on turn and return; - dismantling the valves; - dismantling the pipe joint; - dismantling the elements from their location; - transportation to authorized dumping area. 	
Codul normei Norm Code	Rpl2	Demontare teava neagra montata pentru instalatiile de incalzire. A (3/8"-3/4"); B (1"-2"); C (ø51-76mm). D (ø89-108mm)
Unitate de masura Measuring Unit	m	Dismantling steel pipe for heating installations. A (3/8"-3/4"); B (1"-2"); C (ø51-76mm). D (ø89-108mm)
Descriere Description:	<ul style="list-style-type: none"> - desfacerea izolatiei; - busonarea conductelor in functiune sau blindarea flanselor; - demontarea dispozitivelor de sustinere; - taierea cu flacara oxiacetilenica (sau polizor unghiular); - transportul la depozit/groapa de gunoi autorizat; - schela usoara pe capre pentru inaltimi sub 4m. 	
	<ul style="list-style-type: none"> - dismantling the insulation; - closing end of pipes (or flanges closing) for the remaining pipes; - dismantling the supports; - cutting by oxyacetylene unit (or angle grinder); - transportation to authorized dumping area; - light weight scaffold for height less than 4m installing, maintaining, dismantling, storing. 	

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Codul normei Norm Code	Rpl3	Demontare armaturi pentru incalzire, cu flanse, avand diametrul: A (32-40mm); B (50-65mm); C (80-100mm).
Unitate de masura Measuring Unit	buc/piece	Dismantling the valves jointed with flanges for heating installations with diameters of: A (32-40mm); B (50-65mm); C (80-100mm)
Descriere Description:	<ul style="list-style-type: none"> - golirea instalatiei; - demontare armatura prin desfacere suruburi si piulite; - manipulare si transportul la depozit/groapa de gunoi autorizat <hr/> <ul style="list-style-type: none"> - emptying the installation; - dismantling the valves, bolts and nuts; - handling and transportation to authorized dumping area. 	
Codul normei Norm Code	Rpl4	Demontare armaturi pentru incalzire, cu mufe, avand diametrul: A (3/8"-1/2"); B (3/4"-1"); C (1 1/4"- 1 1/2"); D (2")
Unitate de masura Measuring Unit	buc/piece	Dismantling the valves jointed with fittings for heating installations with diameters of: A (3/8"-1/2"); B (3/4"-1"); C (1 1/4"- 1 1/2"); D (2")
Descriere Description:	<ul style="list-style-type: none"> - golirea instalatiei; - demontare armatura prin desfacere suruburi si piulite; - transportul la depozit/groapa de gunoi autorizat <hr/> <ul style="list-style-type: none"> - emptying the installation; - dismantling valves, bolts and nuts; - handling and transportation to authorized dumping area. 	

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Codul normei Norm Code	Rpl5	Demontarea distribuitorului si a colectorului din teava de otel cu diametrul: A ($\leq 108 \times 4$); B ($114 \times 4 - 152 \times 6$); C ($168 \times 8 - 219 \times 8$).
Unitate de masura Measuring Unit	m	Dismantling the distributor and collector made of steel pipe, diameter: A ($\leq 108 \times 4$); B ($114 \times 4 - 152 \times 6$); C ($168 \times 8 - 219 \times 8$).
Descriere Description:	<ul style="list-style-type: none"> - desfacerea imbinarilor cu flanse; - demontarea bridelor si dispozitivelor de sustinere; - transportul la depozit/groapa de gunoi autorizat. 	
	<ul style="list-style-type: none"> - dismantling flanges connections; - dismantling the braces and the supporting devices; - transportation to authorized dumping area. 	

7.2. MONTARE / INSTALLATION			
Codul normei Norm Code	IT01	Montare radiatoare-panou, din otel.	Mounting the radiators panel type.
Unitate de masura Measuring Unit	buc/piece	<p>A) tip 300 cu o coloana B) tip 500 cu o coloana C) tip 600 cu o coloana D) tip 300 cu 2 coloane E) tip 500 cu 2 coloane F) tip 600 cu 2 coloane G) tip 800 cu 2 coloane H) tip 900 cu 2 coloane I) tip 300 cu 3 coloane J) tip 500 cu 3 coloane K) tip 600 cu 3 coloane</p> <p>1) L= 400 mm 2) L= 500 mm 3) L= 600 mm 4) L= 700 mm 5) L= 800 mm 6) L= 900 mm 7) L= 1000 mm 8) L= 1200 mm 9) L= 1400 mm 10) L= 1600 mm 11) L= 1800 mm 12) L=2000 mm 13) L= 2200 mm 14) L= 2400 mm 15) L= 2600 mm 16) L= 2800 mm 17) L= 3000 mm 18) L= 1300 mm</p>	<p>A) type 300 with 1 column B) type 500 with 1 column C) type 600 with 1 column D) type 300 with 2 columns E) type 500 with 2 columns F) type 600 with 2 columns G) type 800 with 2 columns H) type 900 with 2 columns I) type 300 with 3 columns J) type 500 with 3 columns K) type 600 with 3 columns</p> <p>1) L= 400 mm 2) L= 500 mm 3) L= 600 mm 4) L= 700 mm 5) L= 800 mm 6) L= 900 mm 7) L= 1000 mm 8) L= 1200 mm 9) L= 1400 mm 10) L= 1600 mm 11) L= 1800 mm 12) L=2000 mm 13) L= 2200 mm 14) L= 2400 mm 15) L= 2600 mm 16) L= 2800 mm 17) L= 3000 mm 18) L= 1300 mm</p>
Descriere Description:	<ul style="list-style-type: none"> - procurarea radiatoarelor, robinetilor dublu reglaj, de aerisire, piese de racord, elemente de sustinere; - transportul si manipularea pana la locul de montare; - montarea elementelor de sustinere; - montarea radiatorului; - montarea robinetilor de reglaj si de aerisire; - montarea elementelor de racord (coturi, teuri de cupru, impreuna cu racordurile de cuplare); - executarea probei de etanseitate; - executarea probei de dilatare contractare; - spalarea instalatiei - demontare/remontare în vederea executării lucrărilor de finisaje 		

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<ul style="list-style-type: none"> - supply the radiators, corner valve, vent valve, fittings, supports; - transport and handling the materials to the mounting place; - mounting the supports; - mounting the radiator; - mounting the corner and vent valves; - mounting the fittings; - pressure tests; - expansion and contraction tests; - cleaning the installation; - installing/reinstalling to allow painting works 		
Codul normei Norm Code	IT02	Montare teava de otel in coloane si distributie. A. (3/8" - 1/2"); B. (3/4" - 1"); C. (1 1/4" - 1 1/2"); D. (2"); E. (2 1/2"); F. (3"); G. (4").
Unitate de masura Measuring Unit	m	Mounting the steel pipes and connection. A. (3/8" - 1/2"); B. (3/4" - 1"); C. (1 1/4" - 1 1/2"); D. (2"); E. (2 1/2"); F. (3"); G. (4").
Descriere Description:	<ul style="list-style-type: none"> - procurarea tevilor de otel (mufe, coturi, teuri), bratari de prindere, grund, vopsea; - transportul materialelor pana la locul de montare; - efectuarea strapungerilor in plansee si/sau zidarie; - montarea tevilor si a fittingurilor la coloane si/sau distributie; - montarea bratarilor de sustinere; - montarea tevilor de protectie la trecerea prin pereti, plansee - efectuarea probei de etanseitate; - executarea probei de dilatare si contractare; - spalarea instalatiei; - cementarea gaurilor de strapungere; - curatarea conductelor, cu peria de sarma, in vederea aplicarii protectiei anticorozive; - grunduirea si vopsirea conductelor cu vopsea alchidica. 	

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<ul style="list-style-type: none"> – supply the steel pipes, fittings, collars, primer, paint; – transport and handling the materials to the mounting place; – making the holes in the reinforced concrete elements; – mounting the pipes and fittings to columns and/or connection; – mounting the collars; – mounting the protective pipes for passing through the walls, slabs – pressure tests; – expansion and contraction tests; – cleaning the installation; – filling the holes with cement mortar; – cleaning the pipes with wire brush, in order to apply primer; – priming and painting the pipes . 		
Codul normei Norm Code	IT03	Montare teava de polietilena reticulara. A (ø20-32); B (ø40-50); C (ø63-75); D (ø90-110); E (ø125).
Unitate de masura Measuring Unit	m	Mounting the PE pipe. A (ø20-32); B (ø40-50); C (ø63-75); D (ø90-110); E (ø125).
Descriere Description: <ul style="list-style-type: none"> - procurarea tevilor si fittingurilor (mufe de record, coturi,teuri), brate de prindere, grund, vopsea; - trnsportul materialelor pana la locul de montare; - efectuarea strapungerilor in plansee si/sau zidarie și montare țevi de protecție; - montarea tevilor si a fittingurilor la coloane si/sau distributie; - montarea bratarilor de sustinere; - executarea probei de etanseitate; - executarea probei de dilatare si contractare; - spalarea instalatiei; - cementarea gaurilor de strapungere; <hr/> <ul style="list-style-type: none"> - supply pipes and fittings, collars, primer, paint; - transport the materials to the mounting place; - making penetrations in reinforced concrete elements and installing protective pipes; - mounting the pipes and fittings to columns and/or connection; - mounting the collars; - pressure tests; - expansion and contraction tests; - cleaning the installation; - filling the holes with cement mortar . 		

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Codul normei Norm Code	IT04	Montarea armaturilor pentru instalatiile de incalzire centrala (cu mufe). A (3/8"-1/2"); B (3/4"-1"); C (1¼"-1½"); D (2"); E (2½").
Unitate de masura Measuring Unit	buc/piece	Mounting the valves for heating installations (with fittings). A (3/8"-1/2"); B (3/4"-1"); C (1¼"-1½"); D(2"); E (2½").
Descriere Description:		
<div><div><div>- procurarea armaturilor;</div><div>- transportul pana la locul de montare;</div><div>- montarea armaturilor;</div><div>- efectuarea probei de etanseitate.</div></div><div><div>- supply the valves;</div><div>- transport the materials to the mounting place;</div><div>- mounting the valves;</div><div>- pressure tests.</div></div></div>		
Codul normei Norm Code	IT05	Montarea armaturilor pentru instalatiile de incalzire centrala (cu flanse). A (Dn 32) B (Dn 40); C (Dn 50-65); D (Dn 80-100); E (Dn125).
Unitate de masura Measuring Unit	buc/piece	Mounting the valves for heating installations (with flanges). A (Dn 32) B (Dn 40); C (Dn 50-65); D (Dn 80-100); E (Dn125).
Descriere Description:		
<div><div><div>- procurarea armaturilor si contraflanselor;</div><div>- trnsportul pana la locul de montare;</div><div>- montarea armaturilor si contraflanselor;</div><div>- efectuarea probei de etanseitate.</div></div><div><div>- supply the valves and the counter flanges;</div><div>- transport the materials to the mounting place;</div><div>- mounting the valves and the counter flanges;</div><div>- pressure tests.</div></div></div>		

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Codul normei Norm Code	IT07	Teava de cupru montata in legaturi, coloane si distributie avand: A (ø15); B (ø18-22); C (ø28-42).
Unitate de masura Measuring Unit	m	Cooper pipes mounted in connection to columns, pipe columns and distribution pipes, diameter: A (ø15); B (ø18-22); C (ø28-42).
<p>Descriere Description:</p> <ul style="list-style-type: none"> - procurarea tevilor si fittingurilor (inclusiv teville de cuplare), bratari de prindere, grund, vopsea; - transportul materialelor pana la locul de montare - efectuarea strapungerilor in plansee si/sau zidarie; - instalare tuburi de protectie; - pregatirea tevii in vederea executarii imbinarilor prin lipire; - montarea tevi si executare lipituri ; - montarea bratarilor de sustinere; - executarea probei de etanseitate; - executarea probei de dilatare si contractare; - spalarea instalatiei; - astuparea gaurilor de strapungere; - curatarea conductelor cu peria de sarma; - vopsirea conductelor. <hr/> <ul style="list-style-type: none"> - supply the pipes and fittings, collars, primer, paint; - transport the materials to the mounting place; - making penetrations in reinforced concrete elements/brickwork; - installing protective pipes - preparing the pipes for soldering joint; - mounting the connection pipe untill columns; - mounting and welding the pipes; - mounting the collars; - pressure tests; - expansion and contraction tests; - cleaning the installation; - filling the holes with cement mortar; - cleaning the pipes with wire brush; - painting the pipes. 		

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Codul normei Norm Code	IT08	Protectia termoizolatiei la conducte si aparate cu tabla zincata de 3mm sau tabla aluminiu 0.5mm grosime cu circumferinta conductei: A (pana la 0.35m); B (0.35-0.90m); C (0.90-1.60m).
Unitate de masura Measuring Unit	m²	Thermal insulation protection for pipes and accessories with galvanized steel sheet of 3mm thickness or aluminum sheet of 0.5 mm thickness having pipe's circumference: A (up to 0.35m); B (0.35-0.90m); C (0.90-1.60m).
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor (tablei); - transportul materialelor pana la locul de montare; - croirea, confectionarea si vatuirea virolelor si segmentilor pentru coturi si curbe; - asezarea virolelor sau segmentilor peste termoizolatii cu suprapuneri longitudinale si transversale de 2cm si fixarea lor cu suruburi autofiletante. <hr/> <ul style="list-style-type: none"> - supply the materials (sheet); - transport the materials to the mounting place; - cutting, manufacturing and padding of sheet ring and fittings; - laying the sheet ring and fittings over the thermal insulation with longitudinal and transversal overlaps of 2cm and fixing them with self-tapping screws. 	
Codul normei Norm Code	IT09	Distribuitor, colector pentru puncte si centrale termice cu diametrele: A (65-100). B (125-150); C (200); D (250).
Unitate de masura Measuring Unit	buc/piece	Distribuitor, collector for heating plants with diameters: A (65-100). B (125-150); C (200); D (250).
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor (teava, console); - transportul materialelor; - confectionarea consolelor si montarea lor in zidarie; - confectionarea colectoarelor si a distribuitoarelor; - racordarea la instalatie; - montarea dispozitivului de siguranta. <hr/> <ul style="list-style-type: none"> - supply the materials (pipe, supports); - transport the materials; - execution and mounting the supports in masonry; - execution of the distributors and collectors; - connecting to the installation; - mounting the safety device. 	

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Codul normei Norm Code	IT10	Vas de dezaerisirea avand diametrul de: A - (100-300mm)
Unitate de masura Measuring Unit	buc/piece	Air release vessel with nominal diameter: A - (100-300mm)
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor (teava, robineti); - confectionarea vasului de dezaerisire; - transportul pana la locul de montare; - montarea robinetului de vas; - racordarea la instalatie a vasului; 	
	<ul style="list-style-type: none"> - supply materials (pipe, valves); - execution of the air release vessel; - transport the materials to the mounting place; - mounting valve to the vessel; - connection to the vessel installation. 	

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Codul normei Norm Code	IT11	Teava de otel trasa pentru constructii montata prin sudura avand diametrul. A (57x3.5mm); B (63.5x3.5mm); C (76x3.5mm); D (89x3.5mm); E (108x4mm); F 133mm; G (159 – 168mm); H 178mm; I 219mm; J 273mm; K 324mm; L 356mm.
Unitate de masura Measuring Unit	m	Welding jointed rolled steel pipes with diameter: A (57x3.5mm); B (63.5x3.5mm); C (76x3.5mm); D (89x3.5mm); E (108x4mm); F 133mm; G (159 – 168mm); H 178mm; I 219mm; J 273mm; K 324mm; L 356mm.
Descriere Description:	<ul style="list-style-type: none"> – procurarea (tevilor de otel curbe, coturi, teur, reductii), grund, vopsea; – procurarea material si material marunt, confectionare suportu conducte; – transportul materialelor pana la locul de montare; – efectuarea strapungerilor in plansee si/sau zidarie, instalare țevi de protecție; – montarea tevilor si a fittingurilor – montarea bratarilor de sustinere; – efectuarea probei de etanseitate; – executarea probei de dilatare si contractare; – spalarea instalatiei; – cementarea gaurilor de strapungere; – curatarea conductelor, cu peria de sarma, in vederea aplicarii protectiei anticorozive; – grunduirea si vopsirea conductelor si suportilor cu vopsea alchidica. 	

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<ul style="list-style-type: none"> – supply pipes, fittings, primer, paint; – supply material and accessories, execution of the supports. – transport and handling the materials to the mounting place; – making penetrations in reinforced concrete elements, installing protective pipes; – mounting the pipes and fittings; – mounting the collars; – pressure tests; – expansion and contraction tests; – cleaning the installation; – filling the holes with cement mortar; – cleaning the pipes with wire brush, in order to apply the anticorrosive protection; – priming and painting the pipes and supports with alchidic paint. 		
Codul normei Norm Code	IT12	Coturi, curbe, montate prin sudura avand diametrul A (34mm); B (42mm); C (48mm); D (57mm) E (63.5mm); F (76mm); G (89mm); H (108 mm); I (133 mm); J (159-178 mm); K (219- 356 mm).
Unitate de masura Measuring Unit	buc/piece	Welding jointed fittings with diameter: A (34mm); B (42mm); C (48mm); D (57mm) E (63.5mm); F (76mm); G (89mm); H (108 mm); I (133 mm); J (159-178 mm); K (219- 356 mm).
Descriere Description: <ul style="list-style-type: none"> – procurarea material inclusiv material marunt necesar montarii; – transportul materialelor pana la locul de montare; – manipularea materialeleor; – montarea; – curatarea conductelor, cu peria de sarma, in vederea aplicarii protectiei anticorozive; – grunduirea si vopsirea coturilor. 		
<ul style="list-style-type: none"> – supply the material, including accessories. – transport the materials to the mounting place; – handling the materials; – mounting; – cleaning the pipes with wire brush, in order to apply primer; – priming and painting the fittings. 		

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Codul normei Norm Code	IT13	Dispozitive automate de aerisire de coloana, inclusiv valva de izolare avand diametrul; A) 3/8" B) 1/2 "
Unitate de masura Measuring Unit	buc/piece	Automatic devices for air releasing, including valve with diameter of: A) 3/8" B) 1/2 "
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor inclusive material marunt necesar montarii; - transportul pana la locul de montare; - manipulare si montaj. <hr/> <ul style="list-style-type: none"> - supply the materials including the accessories. - transporting the materials to the mounting place; - handling and mounting. 	
Codul normei Norm Code	IT14	Serpentina de incalzire din teava de otel pentru instalatii sau pentru constructii, avand diametrul de: A) 1"- 2" B) 57x3.2- 83x3.5 C) 89x3.5- 102x4
Unitate de masura Measuring Unit	buc/piece	Heating coil made of steel pipe for installations having diameter of: A) 1"- 2" B) 57x3.2- 83x3 C) 89x3.5- 102x4
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor(teava, elemente de sustinere inclusiv material marunt); - transportul pana la locul de confectionare si montare; - confectionarea serpentinei, montarea consolelor, asezarea la pozitie, racordarea eventualelor fittinguri si racordarea ei la instalatie. <hr/> <ul style="list-style-type: none"> - supply the materials (steel pipes, supports and accessories); - transporting the materials to the execution and mounting place; - execution of the spiral, mounting the supports in location, connecting the eventual fittings. 	

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Codul normei Norm Code	IT15	Izolatii termice la conducte din cupru cu diametrul exterior/ grosime izolatie (mm): A (ø15/32 mm); B(ø18/32 mm); C (ø22/32 mm); D(ø28/32 mm); E(ø35/32 mm); F(ø42/32 mm);
Unitate de masura Measuring Unit	m	Thermal insulation of the copper pipes with an outer diameter/insulation thickness (mm): A (ø15/32 mm); B(ø18/32 mm); C (ø22/32 mm); D(ø28/32 mm); E(ø35/32 mm); F(ø42/32 mm);
Descriere Description:		<ul style="list-style-type: none"> - procurarea izolatiilor (tub flexibil din cauciuc sintetic, pre-taiat si auto-adeziv); - transportul materialelor pana la locul de montare; - curatarea conductelor; - montare tub flexibil din cauciuc sintetic, pretaiat si autoadeziv; - verificarea lucrarilor. <hr/> <ul style="list-style-type: none"> - supply insulations (synthetic rubber flexible tube, pre-cut, self-adhesive) ; - transporting the materials to the place of mounting; - cleaning the pipes; - mounting synthetic rubber flexible tube, pre-cut, self-adhesive; - checking of the works.

8. INSTALATII DE GAZE - GAS INSTALLATION

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

**Reabilitarea Infrastructurii Educationale in Municipiul Bucuresti
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8.1. DEMONTARE / DISMANTLING		
Codul normei Norm Code	RpG01	Demontare arzatoare de gaz
Unitate de masura Measure Unit	buc/piece	Dismantling of the gas burners
Descriere: Description:	<ul style="list-style-type: none"> – efectuarea operatiunilor pregatitoare necesare conform normativelor in vigoare; – aerisirea conductelor de gaz; – desfacerea imbinarilor; – demontarea bridelor si dispozitivelor de sustinere; – transportul la depozit/groapa de gunoi autorizat. 	
	<ul style="list-style-type: none"> – execution of all preliminary works, as per norms/regulations en force; – discharging the gas pipes; – dismantling of the connections; – dismantling of the braces and the supporting devices; – transportation to authorized dumping area. 	

8.2. TEAVA PENTRU INSTALATII GAZE / GAS PIPE INSTALLATION		
Codul normei Norm Code	G001	Țeavă polietilenă PE80 SDR11 având diametrul: a) 32 mm b) 40 mm c) 50 mm d) 63 mm e) 75 mm f) 90 mm g) 110 mm h) 125 mm
Unitate de masura Measuring Unit	m	Polyethylene pipe PE80 SDR11 having diameter: a) 32 mm b) 40 mm c) 50 mm d) 63 mm e) 75 mm f) 90 mm g) 110 mm h) 125 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare țeavă polietilenă pentru gaze, inclusiv pierderi tehnologice; - procurare nisip; - săpătură în pământ executată manual; - procurare și montaj material lemnos pentru susțineri de cable și conducte; - transport auto al materialelor la locul de punere în operă; - nivelare fund șanț, executare pat de nisip pentru conducte; - montare conductă; - acoperire cu nisip a conductei; - procurare și montaj folie PVC pentru marcaj conducte gaze; - procurare și montaj fir trasor (conductor FY 1,5 mm); - montarea, controlul și demontarea echipamentului de probă; - proba de etanșeitate cu aer; - umplutură de pământ; - compactare cu maiul de mână; - proba de rezistență cu aer; - manipularea materialelor, transport cu roaba; - încărcare și transport pământ excedentar la groapă inclusiv taxa la groapă. 	

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<ul style="list-style-type: none"> - supply polyethylene pipes for gas installation (including manufacturing losses lengths); - supply sand; - manual digging; - supply and mounting the wood supports for pipes ; - transporting the materials to the place of mounting; - levelling ditch base, execution of sand support layer; - fitting pipes; - covering the pipes with sand; - supply and mounting the PVC warning strip for gas pipes; - supply and mounting cable FY1.5; - assembling, controlling and dissembling the test equipments; - pressure test (air); - backfilling, compacting; - resistance test; - wheel barrow materials transportation - loading and transporting excess soil to the dumping area. 		
Codul normei Norm Code	G002	Îmbinare prin sudură tip electrofuziune a pieselor din polietilenă (mufă, cot, teu, reducție, etc.), având diametrul: a) 32 mm b) 40 mm c) 50 mm d) 63 mm e) 75 mm f) 90 mm g) 110 mm h) 125 mm
Unitate de masura Measuring Unit	buc/piece	Welding (electric-fusion) for polyethylene fittings having diameter: a) 32 mm b) 40 mm c) 50 mm d) 63 mm e) 75 mm f) 90 mm g) 110 mm h) 125 mm
Descriere: Description: <ul style="list-style-type: none"> - procurare materiale (mufă, cot, teu, reducție, etc.); - transportul auto al materialelor la locul de punere în operă; - așezarea la poziție, fixare; - montaj. 		
<ul style="list-style-type: none"> - supply materials (fittings); - transporting the materials to the place of mounting; - placing and fixing; - welding. 		

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Codul normei Norm Code	G003	Îmbinare prin sudură cap la cap a pieselor din polietilenă (mufă, cot, teu, reducție, adaptor cu flanșă, cap de flanșă, capac bombat, fitting de tranziție, teu redus, etc.), având diametrul: a) 75 mm b) 90 mm c) 110 mm d) 125 mm
Unitate de masura Measuring Unit	buc/piece	Butt weld for polyethylene (fittings, flange adapter, flange head, bellied cover, adapting pipe, reduced branch pipe): a) 75 mm b) 90 mm c) 110 mm d) 125 mm
Descriere: Description:		<ul style="list-style-type: none"> - procurare materiale (mufă, cot, teu, reducție, adaptor cu flanșă, cap de flanșă; - capac bombat, fitting de tranziție, teu redus, etc.); - transport auto la locul de punere în operă; - așezarea la poziție, fixare; - montaj (sudură).
		<ul style="list-style-type: none"> - supply materials (fittings, flange adapter, flange head, bellied cover, adapting pipe, reduced branch pipe); - transporting the materials to the place of mounting; - placing and fixing; - welding.
Codul normei Norm Code	G004	Montare pe conducta de polietilenă a robineților PE80 SDR11, având diametrul: a) 50 mm b) 63 mm c) 75 mm d) 90 mm e) 110 mm f) 125 mm
Unitate de masura Measuring Unit	buc/piece	Installing taps on polyethylene pipe PE80 SDR11 having diameters: a) 50 mm b) 63 mm c) 75 mm d) 90 mm e) 110 mm f) 125 mm
Descriere: Description:		<ul style="list-style-type: none"> - procurare materiale(robineți); - transportul auto al materialelor la locul de punere în operă; - așezarea la poziție, fixare; - montaj.
		<ul style="list-style-type: none"> - supply materials (taps); - transporting the materials to the place of mounting; - placing and fixing; - mounting.

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Codul normei Norm Code	G005	Montaj pe conducta de polietilenă de gaze robineti (vane) cu flanșe, având diametrul a) 50 mm b) 65 mm c) 80 mm d) 100 mm e) 125 mm
Unitate de masura Measuring Unit	buc/piece	Mounting slice valve with flange on the polyethylene pipe with diameter a) 50 mm b) 65 mm c) 80 mm d) 100 mm e) 125 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale inclusiv material mărunț necesar montării; - procurare flanșe pentru sudare în polietilenă (contraflanșe); - transport auto până la locul de punere în operă; - manipulare materiale; - așezarea la poziție; - montaj flanșe și robinet. 	
	<ul style="list-style-type: none"> - supply material including additional materials; - supply flanges for polyethylene; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing; - assembling flanges and slice valve. 	
Codul normei Norm Code	G006	Montarea pe conducta de polietilenă a conexiunii de branșamente - robinet sferă pentru gaz, având diametrul: a) 1" b) 1 1/4" c) 1 1/2" d) 2" e) 3"
Unitate de masura Measuring Unit	buc/piece	Mounting gas valve on polyethylene pipe connection with diameters: a) 1" b) 1 1/4" c) 1 1/2" d) 2" e) 3"
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale inclusiv material mărunț necesar montării; - transport auto până la locul de punere în operă; - manipulare materiale; - așezarea la poziție, montarea. 	
	<ul style="list-style-type: none"> - supply material including ancillary materials; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, mounting. 	

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Codul normei Norm Code	G007	Montarea pe conducta de polietilenă a conexiuni de branșamente - fitting de tranziție, având diametrul: a) 32 mm PE - 25,4 mm OL b) 32 mm PE - 33,4 mm OL c) 40 mm PE - 42.2 mm OL d) 63 mm PE - 60.3 mm OL
Unitate de masura Measuring Unit	buc/piece	Mounting adapting pipe on the branches connection polyethylene pipe with diameters: a) 32 mm PE - 25,4 mm OL b) 32 mm PE - 33,4 mm OL c) 40 mm PE - 42.2 mm OL d) 63 mm PE - 60.3 mm OL
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale; - transport auto până la locul de punere în operă; - manipulare materiale; - așezarea la poziție, montarea. 	
	<ul style="list-style-type: none"> - supply materials; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, mounting. 	

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Codul normei Norm Code	G008	Montarea pe conducta de polietilenă a conexiunii de branșamente - teu de branșament, având diametrul: a) 32 - 32 mm b) 40 - 32 mm c) 63 - 32 mm d) 90 - 32 mm e) 110 - 32 mm f) 125 - 32 mm g) 40 - 40 mm h) 63 - 40 mm i) 90 - 40 mm j) 110 - 40 mm k) 125 - 40 mm l) 63 - 63 mm m) 90 - 63 mm n) 110 - 63 mm o) 125 - 63 mm p) 200 - 63 mm
Unitate de masura Measuring Unit	buc/piece	Mounting connection fitting on the branches polyethylene pipe with diameters: a) 32 - 32 mm b) 40 - 32 mm c) 63 - 32 mm d) 90 - 32 mm e) 110 - 32 mm f) 125 - 32 mm g) 40 - 40 mm h) 63 - 40 mm i) 90 - 40 mm j) 110 - 40 mm k) 125 - 40 mm l) 63 - 63 mm m) 90 - 63 mm n) 110 - 63 mm o) 125 - 63 mm p) 200 - 63 mm
Descriere: Description:	<div> <div> - procurare materiale; - transport auto până la locul de punere în operă; - manipulare materiale; - asezarea la poziție, montarea. </div> <div> - supply materials; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, mounting. </div> </div>	

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Codul normei Norm Code	G009	Răsuflători cu capac montate pe conducta cu diametrul: a) 1" - 2" b) 2 1/2" - 6" c) 219 mm
Unitate de masura Measuring Unit	buc/piece	Air drain with cover, mounting on pipe with diameter: a) 1" - 2" b) 2 1/2" - 6" c) 219 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale (pietriș, țevă oțel Dn 2", tablă, cutie fontă cu capac), inclusiv material mărunț; - transport auto până la locul de punere în operă; - manipulare materiale; - executare ansamblu răsuflătoare. <hr/> <ul style="list-style-type: none"> - supply materials (gravel, steel pipe 2", steel plate, cast-iron box with cover) including additional materials; - transporting the materials to the place of mounting; - manipulating the materials; - installing air drains. 	
Codul normei Norm Code	G010	Răsuflători fără capac de control pe conducta cu diametrul: a) 1" - 2" b) 2 1/2" - 6"
Unitate de masura Measuring Unit	buc/piece	Air drain without cover mounting on the pipe with diameter: a) 1" - 2" b) 2 1/2" - 6"
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale (pietriș, țevă oțel Dn 2", tablă, cutie fontă cu capac), inclusiv material mărunț; - transport auto până la locul de punere în operă; - manipulare materiale; - confectionare rasuflatori. <hr/> <ul style="list-style-type: none"> - supply materials (gravel, steel pipe 2", steel plate, cast-iron box with cover) including ancillary materials; - transporting the materials to the place of mounting; - manipulating the materials; - installing air drains. 	

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Codul normei Norm Code	G011	Montare tub de protecție la subtraversări, din țeavă de oțel, având diametrul: a) 89 mm b) 108 mm c) 133 mm d) 168 mm e) 219 mm
Unitate de masura Measuring Unit	m	Mounting protective steel tube for under crossing with diameter: a) 89 mm b) 108 mm c) 133 mm d) 168 mm e) 219 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare țeavă, inclusiv pierderi tehnologice și material mărunț necesar montării; - procurare materiale pentru izolația tubului de protecție; - transport auto la locul de punere în operă; - manipulare materiale; - izolația conductei; - lansarea și montarea conductei; - executarea de dopuri între tubul de protecție și conducta ce trece prin tub; - săpătură manuală pentru asigurarea cotei de montaj a tubului de protecție; umpluturi și compactări. <hr/> <ul style="list-style-type: none"> - supply steel pipes including losses manufacturing; - supply materials for waterproofing protective tube; - transporting the materials to the place of mounting; - waterproofing the protective tube; - laying and mounting pipes; - manufacturing stopper between the protective tube and the pipe passing the tube; - manual digging, backfilling and compacting. 	

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Codul normei Norm Code	G012	Montare tub de protecție la subtraversări, din țevă polietilenă PE80 SDR17, având diametrul: a) 90 mm b) 110 mm c) 140 mm d) 160 mm e) 180 mm f) 210 mm
Unitate de masura Measuring Unit	m	Mounting protective polyethylene tube PE80 SDR17 for under crossing with diameter: a) 90 mm b) 110 mm c) 140 mm d) 160 mm e) 180 mm f) 210 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare țevă , inclusiv pierderi tehnologice; - transport auto materiale la locul de punere în operă; - săpătură manuală pentru asigurarea cotei de montaj al tubului de protecție; umplutură și compactare - manipulare materiale; - lansarea și montarea conductei; - executarea de dopuri între tubul de protecție și conducta ce trece prin tub. <hr/> <ul style="list-style-type: none"> - supply polyethylene pipes including losses manufacturing; - transporting the materials to the place of mounting; - manual digging; backfilling and compacting - laying and mounting pipes; - manufacturing stopper between the protective tube and the pipe passing the tube. 	

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Codul normei Norm Code	G013	Montaj țeavă oțel trasă, cu îmbinare filete/sudură, după caz la instalații gaze (loc ardere, coloane, distribuție) având diametrul: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Unitate de masura Measuring Unit	m	Mounting steel rolled pipe threaded/welding, as per design, for gas installation (burning place, columns, distribution) with diameter: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Descriere: Description:		
<ul style="list-style-type: none"> - procurare țeavă , inclusiv pierderi tehnologice și material mărunț necesar montării; - procurare brățări pentru susținerea conductelor; - procurare materiale pentru grunduire și vopsire; - Transport auto la locul de punere în operă; - montaj țeavă prin filetare sau sudură, după caz; - grunduire și vopsire cu vopsea ulei; - probă de etanșeitate cu aer; - probă de rezistență cu aer. 		
<ul style="list-style-type: none"> - supply steel pipes including manufacturing losses, ancillary materials; - supply pipe collars, anchors; - transporting the materials to the place of mounting; - Mounting the pipes by threaded joints/welding, as per design; - prime paint and coat with paint; - tightness test with air; - resistance test with air. 		

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8.3. ROBINEȚI, FITTINGURI PENTRU GAZ./ GAS VALVES AND FITTINGS		
Codul normei Norm Code	G014	Montarea pe conducta oțel a robineților sferă cu mufe pentru gaz având diametrul: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Unitate de masura Measuring Unit	buc/piece	Mounting the gas ball valve with thread on steel pipes with diameters: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Descriere: Description:		
<ul style="list-style-type: none"> - procurare materiale; - transport auto până la locul de punere în operă; - manipulare materiale; - asezarea la poziție, montarea. 		
<ul style="list-style-type: none"> - supply the materials including ancillary material needed for manufacturing and mounting; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, Mounting. 		

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Codul normei Norm Code	G015	Fitinguri din fontă maleabilă cu 2 înșurubări, având diametrul: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Unitate de masura Measuring Unit	buc/piece	Fittings made of cast iron with 2 threads with diameter: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3" i) 4" j) 5"
Descriere: Description:	<ul style="list-style-type: none"> - procurare fittinguri , inclusiv material mărunț necesar montării; - transport auto până la locul de punere în operă; - manipulare materiale; - așezarea la poziție, montarea. <hr/> <ul style="list-style-type: none"> - supply fittings including ancillary materials; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, mounting. 	

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Codul normei Norm Code	G016	Fitinguri din fontă maleabilă cu 3 înșurubări, având diametrul: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3"
Unitate de masura Measuring Unit	buc/piece	Fittings made of cast iron with 3 threads with diameter: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3"
Descriere: Description	<ul style="list-style-type: none"> - procurare fittinguri , inclusiv material mărunț necesar montării; - transport auto până la locul de punere în operă; - manipulare materiale; - așezarea la poziție, montarea. <hr/> <ul style="list-style-type: none"> - supply fittings including ancillary materials ; - transporting the materials to the place of mounting; - manipulating the materials; - placing and fixing, mounting. 	
Codul normei Norm Code	G017	Țeavă de protecție la trecerea prin planșee, pereți din beton armat, având diametrul: a) 2" b) 2 1/2" c) 3" d) 4" e) 133 mm
Unitate de masura Measuring Unit	m	Mounting protective steel tube for slabs, concrete walls penetrations with diameter: a) 2" b) 2 1/2" c) 3" d) 4" e) 133 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare țeavă de protecție; - transport auto până la locul de punere în operă; - manipulare materiale; - confecționare și montare protecții; - străpungeri în pereți, planșee de beton armat. <hr/> <ul style="list-style-type: none"> - supply the protective steel tube; - transporting the materials to the place of mounting; - manipulating the materials; - manufacturing and assembling protective tube; - penetration of the concrete walls and slabs. 	

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Codul normei Norm Code	G018	Țeavă de protecție la trecerea conductelor prin ziduri din cărămidă, având diametrul: a) 2" b) 2 1/2" c) 3" d) 4" e) 133 mm
Unitate de masura Measuring Unit	m	Mounting protective steel tube to brickwork penetrations with diameter: a) 2" b) 2 1/2" c) 3" d) 4" e) 133 mm
Descriere: Description	<ul style="list-style-type: none"> - procurare țeavă de protecție; - transport auto până la locul de punere în operă; - manipulare materiale; - confecționare și montare protecții; - străpungeri în pereții de zidarie. <hr/> <ul style="list-style-type: none"> - supply the protective steel tube; - transporting the materials to the place of mounting; - manipulating the materials; - manufacturing and assembling protective tube; - penetrate the brick walls. 	
Codul normei Norm Code	G019	Placa pentru contor gaze cu racord
Unitate de masura Measuring Unit	buc/piece	Metallic support for gas meter with fittings
Descriere: Description:	<ul style="list-style-type: none"> - procurare placa, inclusiv accesorii; - efectuare gauri in perete; - fixare placa. <hr/> <ul style="list-style-type: none"> - supply the metallic plate, included all accessories; - drilling holes in the wall; - fixing the metallic support. 	

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Codul normei Norm Code	G020	Reductor presiune pentru instalatii gaze cu racord, inclusiv firida metalica
Unitate de masura Measuring Unit	buc/piece	Gas-pressure controller with fittings for gas network, including metallic box
Descriere: Description	<ul style="list-style-type: none"> - procurare firida; - taierea si montarea piciorului de sustinere; - sudarea stuturilor cu ghivent; - slefuirea,verificarea si montarea robinetilor; - montarea regulatorului si a pieselor de imbinare, inclusiv reductiile de PVC si garniturile electroizolante; - confectionarea si montarea conductei de evacuare; - verificarea la etanseitate a imbinarilor. <hr/> <ul style="list-style-type: none"> - metallic box supply; - cutting and mounting of the supporting pillar; - welding the fittings with thread; - installing and checking the valves; - mounting of the gas-pressure controller and the connecting pieces, included PVC reducing pieces and the electrical-insulating gasket - manufacturing and mounting of the exhaust pipe; - testing the tightness of the joints. 	
Codul normei Norm Code	G021	Montarea detectorului si a electrovanei pe conducta de gaz avand diametrul de : a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3"
Unitate de masura Measure Unit	buc/piece	Mounting the gas-detector and the electricvalve on the gas pipe with diameters: a) 1/2" b) 3/4" c) 1" d) 1 1/4" e) 1 1/2" f) 2" g) 2 1/2" h) 3"

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Descriere: Description:	<ul style="list-style-type: none"> – procurare detector gaze cu electrovalva, inclusiv accesorii; – transportul pana la locul de montare; – pregatirea pentru montaj a aparatului; – realizarea golurilor, montarea diblurilor; – montarea detector gaze respectiv electrovalva; – realizare alimentare electrica a sistemului detector-electrovalva; – verificarea sistemului; <ul style="list-style-type: none"> – supply of the gas detector and the electric-valve; – transportation to the installing place; – preparing the device for installing; – execution of the holes, mounting of the wall dowels; – mounting the gas detector and the electric-valve; – electric supply of the gas detector and the electric-valve; – checking the control unit; 	
Codul normei Norm Code	G022	Executie canivou cu gratar metalic pentru pozare conducta de gaze (h x l=6x10 cm) la interior.
Unitate de masura Measure Unit	buc/piece	Making interior ditch for gas pipe (h X l=6X10 cm), covered with metallic grating.
Descriere: Description:	<ul style="list-style-type: none"> – procurarea și transportul materialelor necesare până la locul de punere în operă, inclusiv a grătarului metalic și sistem suport pentru acesta; – desfacerea pardoselii (inclusiv straturile suport necorespunzătoare) cu mijloace manuale sau mecanice, conform tehnologiei adoptate; – udarea molozului, curatarea locului de munca; – transportul si manipularea molozului rezultat pe orizontala si pe verticala; – incarcarea si transportul auto al molozului in locul autorizat; – execuția canivoului conform proiect tehnic și/sau caiete de sarcini; – instalarea/montarea sistemului suport și a grătarului metalic – verificarea executiei lucrarilor. <ul style="list-style-type: none"> – supply and transportation of all necessary materials to the work place, including metallic grating and support system of it; – manual or mechanical removal of parquet floor (including inadequate support layers), according to the adopted technology; – watering the rubbish, cleaning the work site; – horizontal and vertical transport and handling of the resulting rubbish; – loading and transport by vehicle of the rubbish to an authorized dumping area; – making of the ditch according to the detailed design and/or technical specifications; – installation/mounting of metallic grating including support system of it; – checking the execution of the works. 	

9. VENTILATII SI CLIMATIZARE – AIR CONDITIONING AND VENTILATION

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

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9.1. DEMONTARE / DISMANTLING		
Codul normei Norm Code	V036	Demontare tubulatura(rectangulara sau circulara) din tabla neagra, galvanizata sau din aluminiu impreuna cu accesoriile si dispozitivele de ancorare avand perimetrul: a) 250-700 mm b) 700-2500 mm c) 2500-4000 mm
Unitate de masura Measuring Unit	m²	Dismantling ducts (rectangular or circular section) made of steel sheet or galvanized steel sheet, or aluminium sheet, together with accessories and appliances a)250-700 mm b)700-2500 mm c)2500-4000 mm
Descriere: Description:	<div> <ul style="list-style-type: none"> - montare schela; - demontarea imbinarilor dintre tuburi(flanse); - demontarea accesoriilor si a bridelor de prindere; - demontarea consolelor; - taieri locale ale tubulaturii; - transportul materialelor in deposit; - demontare schelei si transportul ei. </div> <div> <ul style="list-style-type: none"> - mounting the scaffold; - dismounting the joining between the ducts(flanges); - dismounting accessories and fixing straps; - dismounting the bracket; - local steel sheet's cutting; - transporting/storing materials; - Dismounting/storing scaffold. </div>	
Codul normei Norm Code	V037	Demontare ventilator: a) axial b) radial
Unitate de masura Measuring Unit	buc/piece	Dismounting fan: a) axial b) radial
Descriere: Description:	<div> <ul style="list-style-type: none"> - demontarea suruburilor; - demontarea confectionii metalice(dupa caz); - transportul materialelor in deposit. </div> <div> <ul style="list-style-type: none"> - dismounting the screws; - dismounting metallic parts (by case); - transporting/storing materials . </div>	

9.2. MONTARE / INSTALLATION		
Codul normei Norm Code	V001	Canale cu secțiune rectangulară din tablă zincată 1mm sau aluminiu, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) până la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m²	Ducts with rectangular section made of 1mm galvanized steel sheet or aluminium, including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<div> <ul style="list-style-type: none"> - procurare materiale necesare confecționării canalelor, sau a canalelor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conectării și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare canale (sau numai montare în cazul procurării canalelor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. </div> <hr/> <div> <ul style="list-style-type: none"> - supply of materials for manufacturing the ducts, or workshop made ducts, including the technological losses and small ancillary materials; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the ducts - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - adjusting the installation. </div>	

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Codul normei Norm Code	V002	Cot cu secțiune rectangulară din tablă zincată 1mm sau aluminiu 1 mm grosime, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) până la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m ²	Fitting duct with rectangular section made of 1mm galvanized steel sheet or aluminium, including the supporting and anchorage elements, with perimeter: a) up to 250 mm; b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 	

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Codul normei Norm Code	V003	Reducție cu secțiune rectangulară din tablă zincată 1mm sau aluminiu 1 mm grosime , inclusiv dispozitivele de susținere și ancorare având perimetrul: a) până la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de măsură Measuring Unit	m ²	Reduction with rectangular section made of 1mm galvanized steel sheet or aluminium, including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate); - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings; - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 	

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Codul normei Norm Code	V004	Canale cu secțiune circulară din tablă zincată 1mm sau aluminiu 1 mm grosime, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) până la 250 mm b) 50 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de măsură Measuring Unit	m ²	Circular section ducts made of 1mm galvanized steel sheet or aluminium, including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 50 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării canalelor, sau a canalelor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare canale (sau numai montare în cazul procurării canalelor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing the ducts, or workshop made ducts, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the ducts, - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 	

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Codul normei Norm Code	V005	Cot cu secțiune circulară din tablă zincată 1 mm grosime , sau aluminium inclusiv dispozitivele de susținere și ancorare având perimetrul: a) pana la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m ²	Circular section T-duct made of 1mm galvanized steel sheet or aluminium, including the supporting and anchorage elements, with perimeters: a) up to 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings; - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 	

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Codul normei Norm Code	V006	Reducție secțiune circulară din tablă zincată 1 mm grosime, sau aluminiu inclusiv dispozitivele de susținere și ancorare având perimetrul: a) pana la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m ²	Circular section adapter made of 1mm galvanized steel sheet or aluminium including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings; - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 	

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Codul normei Norm Code	V007	Tubulatura impermeabilă cu găuri, debit D =8.750 mc/h, P = 300 Pa, diam = 630 mm, L =15 m/buc, montată prin dublă suspendare pe profile de aluminium
Unitate de masura Measuring Unit	m	Waterproof ducts with holes, D= 8.750 mc/h, P= 300 Pa, d= 630 mm, L =15 m/pcs, mounted by double supporting
Descriere: Description:	<ul style="list-style-type: none"> - procurare tubulatura inclusiv pierderile tehnologice și material mărunț; - procurare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - manoperă montare canale și suport; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply the ducts including the technological losses and small ancillary material ; - supply the supports; - transporting the materials to the place of mounting; - handling the materials; - mounting the ducts and the supports; - adjusting the installation. 	
Codul normei Norm Code	V008	Canale cu secțiune rectangulara din tablă zincata sau de aluminiu 0.8mm grosime, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) pana la 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m²	Rectangular section ducts made of galvanized steel sheet or aluminium with 0.8mm thickness, including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării canalelor, sau a canalelor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare canale (sau numai montare în cazul procurării canalelor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. 	

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<ul style="list-style-type: none"> - supply materials for manufacturing the ducts, or workshop made ducts, including the technological losses and small ancillary materials; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform; - manufacturing and/or mounting the ducts (or only mounting the workshop existing duct); - labouring, manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 		
Codul normei Norm Code	V009	Cot cu secțiune rectangulara din tablă zincată 0.8mm grosime, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) pana la 250 mm; b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m ²	Rectangular section T-duct made of galvanized steel sheet/aluminium with 0.8mm thickness, including the supporting and anchorage elements, with perimeter: a) up to 250 mm; b) 250 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării; - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare; - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate); - manoperă confecționare și montare suport; - transportul auto la locul de punere în operă; - manipulare materiale; - reglarea instalației. 	

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<ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary materials; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings (or only mounting the workshop existing fittings); - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 		
Codul normei Norm Code	V010	Reducție secțiune circulară din tablă zincată 0.8mm grosime, inclusiv dispozitivele de susținere și ancorare având perimetrul: a) pana la 250 mm b) 50 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	m ²	Circular section adapter made of galvanized steel sheet/aluminium with 0.8mm thickness, including the supporting and anchorage elements, with perimeter: a) up to 250 mm b) 50 - 400 mm c) 400 - 700 mm d) 700 - 1600 mm e) 1600 - 2500 mm f) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare - procurare, montaj, folosire, demontare, stocare schele/platforme de lucru - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate) - manoperă confecționare și montare suport - transportul auto la locul de punere în operă - manipulare materiale - reglarea instalației 	

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<ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary materials; - supply materials for manufacturing the support and anchorage elements; - supply, installing, maintaining, using, demounting, storing scaffolding/work platform - manufacturing and/or mounting the fittings; - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 		
Codul normei Norm Code	V011	Conductă de aer flexibilă cu atenuare acustică, cu izolație vată de sticlă 25 mm grosime, inclusiv suporti, având diametrul: a) 160 mm b) 200 mm c) 250 mm d) 315 mm
Unitate de masura Measuring Unit	m	Air flexible duct with acoustic attenuation, with glass wool insulation, 25mm thickness, including the supports, with diameters: a) 160 mm b) 200 mm c) 250 mm d) 315 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare conducta si izolatie inclusiv pierderile tehnologice și material mărunt necesar montarii; - procurare suporti; - transportul auto la locul de punere în operă; - montaj conducta; - manipulare materiale; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply ducts including the technological losses and small ancillary material; - supply the supports; - transporting the materials to the place of mounting; - handling the materials; - mounting the ducts and the supports; - adjusting the installation. 	

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Codul normei Norm Code	V012	Grile exterioare de evacuare din aluminiu (jaluzele de suprapresiune), inclusiv dispozitivele de susținere, având diametrul: a) 500 x 600 mm b) 800 x 2500 mm
Unitate de masura Measuring Unit	buc/piece	External cover grid of aluminium (w/ blinds), including the supporting elements, with dimensions: a) 500 x 600 mm b) 800 x 2500 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale inclusiv pierderile tehnologice și material mărunț necesar montării și suporti - transportul auto la locul de punere în operă - manipulare materiale - trasarea, executarea și ajustarea golului de montaj - montarea la poziție și reglare. <hr/> <ul style="list-style-type: none"> - supply materials including the technological losses and small ancillary materials; - transporting the materials to the place of mounting; - handling the materials; - pegging, executing and adjusting the mounting holes; - mounting on it's base and adjusting it. 	
Codul normei Norm Code	V013	Gura de refulare din oțel si registru de reglaj pentru echilibrare și reglare, inclusiv dispozitivele de susținere, având dimensiunile: a) 600 x 300 mm b) 1600x2000mm
Unitate de masura Measuring Unit	buc/piece	Steel repression valve and device for balance/adjustments, including the supporting elements, with dimensions: a) 600 x 300 mm b) 1600x2000mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale inclusiv pierderile tehnologice și material mărunț necesar montării și suporti - transportul auto la locul de punere în operă - manipulare materiale - trasarea, executarea și ajustarea golului de montaj - montarea la poziție și reglare. <hr/> <ul style="list-style-type: none"> - supply materials including the technological losses and small ancillary material; - transporting the materials to the place of mounting; - handling the materials; - pegging, executing and adjusting the mounting holes; - mounting on it's base and adjusting it. 	

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Codul normei Norm Code	V014	Gura de absorbție din oțel si registru de reglaj pentru echilibrare și reglare, inclusiv dispozitivele de susținere, având dimensiunile: a) pana la 600 x 600 mm b) 600 x 600 mm c) 1200x1600 mm
Unitate de masura Measuring Unit	buc/piece	Inlet air steel valve and device for balance and adjust, including the supporting elements, with dimensions: a) up to 600 mm b) 600 x 600 mm c) 1200x1600 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare tubulatură inclusiv pierderile tehnologice și material mărunț; - procurare suporturi; - transportul auto la locul de punere în operă; - manipulare materiale; - manoperă montare canale și suporturi; - reglarea instalației. <hr/> <ul style="list-style-type: none"> - supply the ducts including the technological losses and small ancillary materials; - supply the supports; - transporting the materials to the place of mounting; - handling the materials; - mounting the ducts and the supports; - adjusting the installation. 	
Codul normei Norm Code	V015	Priza de aer proaspăt montată în zidărie, având dimensiunile: a) 1400 x 500 mm b) 800x2500 mm
Unitate de masura Measuring Unit	m²	Fresh air inlet mounted in brickwork, dimensions: a) 1400 x 500 mm b) 800x2500 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale inclusiv pierderile tehnologice și material mărunț necesar montării și suporturi - transportul auto la locul de punere în operă - manipulare materiale - trasarea, executarea și ajustarea golului de montaj - montarea la poziție și reglare. <hr/> <ul style="list-style-type: none"> - supply materials including the technological losses and small ancillary materials; - transporting the materials to the place of mounting; - handling the materials; - pegging, executing and adjusting the mounting holes; - mounting on it's base and adjusting it. 	

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Codul normei Norm Code	V016	Clapetă de reglaj, având dimensiunile: a) 1400 x 1200 mm b) 800 -1600 c) 1600-3200
Unitate de masura Measuring Unit	buc/piece	Adjusting clack-valve, with dimensions: a) 1400 x 1200 mm b) 800 -1600 c) 1600-3200
Descriere: Description:	<ul style="list-style-type: none"> - procurare material inclusiv material mărunț necesar punerii în operă; - transportul auto la locul de punere în operă; - manipulare și montaj. - reglaj. <hr/> <ul style="list-style-type: none"> - Supply the materials including small ancillary materials; - transporting the materials to the place of mounting; - handling and mounting the materials; - making the adjustment. 	
Codul normei Norm Code	V017	Clapetă antifoc dreptunghiulară, având dimensiunile: a) 750 x 450 mm
Unitate de masura Measuring Unit	buc/piece	Rectangular fireproof clack-valve, with dimensions: a) 750 x 450 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material inclusiv material mărunț necesar punerii în operă; - transportul auto la locul de punere în operă; - manipulare și montaj. - reglaj. <hr/> <ul style="list-style-type: none"> - supply materials including small ancillary materials; - transporting the materials to the place of mounting; - handling and mounting the materials; - making the adjustment. 	
Codul normei Norm Code	V018	Clapetă antifoc circulară, având diametrul: a) d = 250 mm
Unitate de masura Measuring Unit	buc/piece	Circular fireproof clack-valve, with dimensions: a) d = 250 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material inclusiv material mărunț necesar punerii în operă; - transportul auto la locul de punere în operă; - manipulare și montaj. - reglaj. <hr/> <ul style="list-style-type: none"> - supply materials including small ancillary materials; - transporting the materials to the place of mounting; - handling and mounting the materials; - making the adjustment. 	

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Codul normei Norm Code	V019	Priza de aer proaspăt din aluminiu montată în perete, tip S, având dimensiunile: a) 400 x 400 mm b) 800x2500 mm
Unitate de masura Measuring Unit	buc/piece	Fresh air inlet made of aluminium mounted in the wall, "S" type, having dimensions: a) 400 x 400 mm b) 800x2500 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare dispozitive de susținere și material marunt necesar punerii in opera; - manipulare și montaj priză și accesorii; - reglaj. <hr/> <ul style="list-style-type: none"> - supply the supporting devices and the small ancillary materials needed for mounting; - handling and mounting plug and the accessories; - making the adjustment. 	
Codul normei Norm Code	V020	Caciulă de protecție circulară din tablă, montată pe canale circulare, având diametrul: a) d = 200 mm
Unitate de masura Measuring Unit	buc/piece	Circular protection top made of steel sheet, mounted on circular ducts, with diameter: a) d = 200 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material; - manipulare; - montaj. <hr/> <ul style="list-style-type: none"> - supply the materials; - handling the materials; - mounting the materials. 	
Codul normei Norm Code	V021	Capac de vizitare pe canale circulare, având dimensiunile: a) 80 x 80 mm
Unitate de masura Measuring Unit	buc/piece	Access lid on circular ducts, with dimension: a) 80 x 80 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material; - manipulare; - montaj. <hr/> <ul style="list-style-type: none"> - supply materials; - handling the materials; - mounting the materials. 	

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Codul normei Norm Code	V022	Filtru de aer, având dimensiunile: a) 500 x 500 mm b) 400 x 500 mm
Unitate de masura Measuring Unit	buc/piece	Air filter, with dimensions: a) 500 x 500 mm b) 400 x 500 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material și material mărunț necesar punerii în operă; - procurare dispozitive de susținere; - transportul auto la locul de punere în operă; - manipulare, montaj, inclusiv reglare. <hr/> <ul style="list-style-type: none"> - supply materials including small ancillary materials; - supply supporting elements; - transporting materials to the place of mounting; - handling and mounting the materials and making the adjustment. 	
Codul normei Norm Code	V023	Atenuator zgomot, având dimensiunile: a) 600 x 600 mm b) 400 x 400 mm
Unitate de masura Measuring Unit	buc/piece	Noise reduction device, with dimensions: a) 600 x 600 mm b) 400 x 400 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material și material mărunț necesar punerii în operă; - manipulare, montaj, inclusiv reglare. <hr/> <ul style="list-style-type: none"> - supply the materials including small ancillary materials; - handling and mounting the materials and making the adjustment. 	
Codul normei Norm Code	V024	Generator de aer pentru încălzire și ventilație
Unitate de masura Measuring Unit	buc/piece	Air generator for heating and ventilation
Descriere: Description:	<ul style="list-style-type: none"> - procurare material marunt, suportii de sustinere inclusiv transport și manipulare; - montarea generatorului si a accesoriilor (inclusive suportii); - legare la instalatia electrica, racordarea la instalatia de ventilatie; - probe de punere in functiune. <hr/> <ul style="list-style-type: none"> - supply materials, support elements including transport and handling; - mounting the air generator and accessories (including the supports); - connecting to the electrical installation, connecting to the ventilation installation; - testing. 	

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Codul normei Norm Code	V025	Montaj ventilator centrifugal având carcasa din plastic, inclusiv suportul din cauciuc pentru susținere și dispozitivele de prindere.
Unitate de masura Measuring Unit	buc/piece	Mounting centrifugal fan in plastic box, including rubber support for supporting elements.
Descriere: Description:	<ul style="list-style-type: none"> - pregătirea locului de montaj și așezarea la poziție; - procurare și montaj materiale necesare montării, inclusiv transport și manipulare; - montarea ventilatorului și a accesoriilor; - legarea la instalația electrică; - probe de punere în funcțiune. <hr/> <ul style="list-style-type: none"> - preparing the place of mount and setting on the position; - supply and mounting materials, including transport and handling; - mounting the fan and it's accessories; - connecting to the electric installation; - testing. 	
Codul normei Norm Code	V026	Montaj ventilator axial, inclusiv suporti având greutatea între: a) 50 - 200 kg
Unitate de masura Measuring Unit	buc/piece	Mounting axial fan, including the supporting elements having the weight: a) 50 – 200 kg
Descriere: Description:	<ul style="list-style-type: none"> - pregătirea locului de montaj și așezarea la poziție; - procurare și montaj materiale necesare montării, inclusiv transport și manipulare; - montarea ventilatorului și a accesoriilor; - legarea la instalația electrică; - probe de punere în funcțiune. <hr/> <ul style="list-style-type: none"> - preparing the place of mount and setting on the position; - supply and mounting materials, including transport and handling; - mounting the fan and it's accessories; - connecting to the electric installation; - testing. 	

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Codul normei Norm Code	V027	Montarea agregatului de răcire cu condensator răcit cu aer, montat în exterior
Unitate de masura Measuring Unit	buc/piece	Mounting the cooling aggregate with condensate cooled with air, mounted outside
Descriere: Description:	<ul style="list-style-type: none"> - manipulare materiale; - pregătirea locului de montaj și așezarea la poziție; - procurare material mărunț și a dispozitivelor de susținere și ancorare; - transport și manipulare - montarea utilajului, a elementelor componente conform listă utilaje, a suporturilor; - probe funcționale; - executarea legăturilor agregatului. <hr/> <ul style="list-style-type: none"> - handling the materials; - prepare the place of mount, and set it to position; - supply the small ancillary materials and supports, anchors elements; - transport and handling - mounting the equipment, and it's composing elements according with the equipment list, and the supports; - connecting to the electric installation - testing; 	
Codul normei Norm Code	V028	Racord flexibil din pânză hidrofugă cu perimetrul între a) pana la 600 x 600 mm b) 600 x 600 mm c) 700x1600 mm
Unitate de masura Measuring Unit	buc/piece	Flexible duct made of waterproofing with perimeter: a) up to 600 x 600 mm b) 600 x 600 mm c) 700x1600 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material inclusiv pierderi tehnologice și material mărunț; - transport la locul de punere în operă; - manipulare și montare. <hr/> <ul style="list-style-type: none"> - supply the materials including the technological losses and small ancillary material; - transporting the materials to the place of mounting; - handling and mounting it. 	

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Codul normei Norm Code	V029	Montarea centralelor de tratare aer.
Unitate de masura Measuring Unit	buc/piece	Mounting the fresh air units.
Descriere: Description:	<ul style="list-style-type: none"> - procurare material mărunț și a dispozitivelor de susținere și ancorare; - transport la locul de punere în operă; - manipulare și montare; - pregătirea locului de montare și montarea la poziție; - montarea utilajului și a elementelor componente conform listă de utilaje, montarea suportilor; - montare tablou electric pentru instalația de alimentare și automatizare a centralelor; - probe funcționale. 	
	<ul style="list-style-type: none"> - supply the small ancillary materials and supports and anchors elements; - transporting the materials to the place of mounting; handling and mounting ; - mounting the equipments as per list, and mounting the supports; - mounting the electric panel for power supply and control panel installation; - testing. 	
Codul normei Norm Code	V030	Ramificație cu secțiune dreptunghiulară confecționată din tablă de aluminiu având perimetrul de: a) 250 - 400 mm b) 400 - 700 mm c) 700 - 1600 mm d) 1600 - 2500 mm e) 2500 mm - 4000 mm
Unitate de masura Measuring Unit	buc/piece	Fitting duct with rectangular section made by aluminium sheet with perimeter: a) 250 - 400 mm b) 400 - 700 mm c) 700 - 1600 mm d) 1600 - 2500 mm e) 2500 mm - 4000 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confecționării pieselor, sau a pieselor gata confecționate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării - procurare materiale necesare confecționării dispozitivelor de susținere și ancorare - manoperă confecționare și montare pieselor (sau numai montare în cazul procurării pieselor gata confecționate) - manoperă confecționare și montare suporti - transportul auto la locul de punere în operă - manipulare materiale - reglarea instalației 	

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<ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - manufacturing and/or mounting the fittings (or only mounting the workshop existing fittings); - manufacturing and/or mounting the supports; - transporting the materials to the place of mounting; - handling the materials; - adjusting the installation. 		
Codul normei Norm Code	V031	Piesa speciala confectionata pe santier din tabla neagra de 4mm grosime(canal, cos fum,cutie metalica) avand perimetrul: a) 700 - 1600 mm
Unitate de masura Measuring Unit	m²	Special connector manufactured on site made of steel sheet 4mm thickness (channel, chimney, metallic box) with perimeter: a) 700-1600mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale necesare confectionării pieselor, sau a pieselor gata confectionate, inclusiv pierderile tehnologice și material mărunț necesare conexiunii și montării - procurare materiale necesare confectionării dispozitivelor de susținere și ancorare - transportul auto la locul de punere în operă - manipulare materiale - manoperă confectionare și montare canal,cos de fum,cutie metalica,suporti sustinere si ancorare (sau numai montare în cazul procurării pieselor gata confectionate). <hr/> <ul style="list-style-type: none"> - supply materials for manufacturing the fittings, or workshop made fittings, including the technological losses and small ancillary material; - supply materials for manufacturing the support and anchorage elements; - transporting the materials to the place of mounting; - handling the materials; - manufacturing and/or mounting channel, chimney, metallic box). 	
Codul normei Norm Code	V032	Montare rama cu jaluzele fixe, montate in zid, avand dimensiunile ____, conform proiect
Unitate de masura Measuring Unit	buc/piece	Installing frame with fixed blinds, mounted in the wall with dimensions ____, as per Detail Design
Descriere: Description:	<ul style="list-style-type: none"> - procurare materiale - transportul auto la locul de punere în operă - manipulare si montaj. <hr/> <ul style="list-style-type: none"> - supply materials; - transporting the materials to the place of mounting; - handling and mounting. 	

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Codul normei Norm Code	V033	Montare rama cu plasa de sarma	Mounting frame w/mesh:
Unitate de masura Measuring Unit	buc/piece	a) 400-2500 mm, montata pe zidarie b) 400-500 mm, montata pe canal c) 2500-4500 mm, montata pe zidarie d) 2500-4500 mm, montata pe canal e) 4500-600 mm, montata pe zidarie f) 4500-6000mm, montata pe canal g) 6000-8000 mm, montata pe zidarie h) 6000-8000 mm, montata pe canal	a) 400-2500 mm, mounted on the wall b) 400-500 mm, mounted on the ducts c) 2500-4500 mm, mounted on the wall d) 2500-4500 mm, mounted on the ducts e) 4500-600 mm, mounted on the wall f) 4500-6000mm, mounted on the ducts g) 6000-8000 mm, mounted on the wall h) 6000-8000 mm, mounted on the ducts
Descriere: Description:	<p>Pentru montarea pe zidarie</p> <ul style="list-style-type: none"> - procurarea materialelor si transportul lor; - trasarea si taierea tablei; - executarea indoiturilor; - confectionarea ramei; - trasarea si taierea plasei de sarma; - fixarea plasei de sarma pe laturile ramei si incheierea lor; - trasarea si ajustarea golului de montaj; - executarea golurilor in zidarie; - prepararea mortarului de ciment; - asezarea la pozitie si verificarea. <p>Pentru montarea pe canal</p> <ul style="list-style-type: none"> - procurarea materialelor si transportul lor; - trasarea si taierea tablei; - executarea indoiturilor; - confectionarea ramei; - trasarea si taierea plasei de sarma; - fixarea plasei de sarma pe laturile ramei si incheierea lor; - trasarea golului pe canal pentru decupare; - taierea si ajustarea golului; - executarea gaurilor de prindere inclusive trasarea lor; - montarea ramei. 		

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<p>For mounting on the wall</p> <ul style="list-style-type: none"> - supply materials and transporting; - pegging and cutting sheet; - bending sheet; - manufacturing frame; - pegging and cutting the mesh; - fixing the mesh on the frame ; - pegging the hole on duct for cutting; - cutting and matching the hole; - execution the mounting holes; - mounting the frame. <p>For mounting on the duct</p> <ul style="list-style-type: none"> - supply materials and transporting; - pegging and cutting the sheet; - bending the sheet; - manufacturing frame; - pegging and cutting the mesh; - fixing the mesh on the side frame and its closing; - pegging the hole on the duct for cut; - cutting and matching the hole; - execution the mounting hole, including its pegging; - mounting the frame. 			
Codul normei Norm Code	V034	Deflector circular: a) pana la 900 mm, b) 900-1600 mm, c) 1600-2500mm , d) 2500-3200 mm, e) 2500-4500 mm	Circular baffle a) up to 900 mm, b) 900-1600 mm, c) 1600-2500mm , d) 2500-3200 mm, e) 2500-4500 mm
Unitate de masura Measuring Unit	buc/piece		
Descriere: Description:	<ul style="list-style-type: none"> - procurarea materialelor si transportul lor; - trasarea si taierea tablei; - confectionarea corpului deflectorului; - trasarea si taierea elementelor de prindere si sustinere; - confectoinarea clapetei de inchidere deschidere; - incheierea partilor componente; - ajustarea golului pentru montarea deflectorului; - grunduirea la interior a deflectorului - rasarea flanselor de prindere; - montarea flanselor de prindere; - asezarea provizorie a deflectorului pe pozitie; - verificarea pozitiei si montarea definitive a deflectorului; - confectionarea si montarea sistemului de reglare; - verificarea functionarii sistemului de reglare. 		

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<ul style="list-style-type: none"> - supply materials and transporting; - pegging and cutting the sheet; - manufacturing the body of baffle; - pegging and cutting the restraint and support elements; - manufacturing the clack valve for input and output; - joining the component parts; - matching the holes for mounting the baffle; - inside baffle painting; - pegging the restraint flanges; - mounting the restraint flanges; - temporary fixing for baffle; - checking the position and finally baffle mounting; - manufacturing and/or mounting the adjustment system; - testing the adjustment system work. 			
Codul normei Norm Code	V035	Hota de uz general	General use suction hood
Unitate de masura Measuring Unit	m²	a) tabla neagra de 0.5 mm grosime b) tabla zincata sau aluminium de 0.5 mm grosime c) tabla neagra de 0.8 mm grosime d) tabla zincata sau de aluminium de 0.8 mm grosime	a) steel sheet de 0.5 thickness; b) galvanized steel sheet or aluminium 0.5 mm thickness; c) steel sheet de 0.8 thickness; d) galvanized steel sheet or aluminium 0.8 mm thickness;
Descriere: Description:		<ul style="list-style-type: none"> - procurarea materialelor si transportul lor; - trasarea si taierea tablei; - executarea falturilor; - fasonarea tubului de racord; - trasarea si taierea profilelor si a flansei de racord; - incheierea partilor componente; - strapungere în perete pentru țeava de evacuare - executarea flansei si montarea ei; - trasarea pozitiei de montare a hotei - trasarea gaurilor si executarea lor; - exectarea filetului interior la gauri; - montarea consolelor sau a dispozitivelor de sustinere; - fixarea hotei. 	
		<ul style="list-style-type: none"> - supply materials and its transporting; - pegging and cutting the sheet; - bending the sheet; - matching the connector tube; - pegging and cutting heavy sections and connector flange; - assembling the component parts; - penetration in the wall for installing the exhaust pipe - manufacturing the flange and mounting; - pegging the position for mounting of the suction hood; - pegging the holes ,execution inside threading; - mounted the bracket or support apparatus; - fixing the suction hood. 	

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Codul normei Norm Code	IZ0001	Izolarea canalelor din tablă zincată cu izolanț adeziv (spumă alveolară) cu grosimea de : a) 20 mm b) 30 mm
Unitate de masura Measuring Unit	m²	Insulating the ducts made of galvanized steel sheet with insulation adhesive (cell foam) with thickness: a) 20 mm b) 30 mm
Descriere: Description:	<ul style="list-style-type: none"> - procurare material pentru izolare, inclusiv pierderi tehnologice și material mărunț pentru montaj; - transport și manipulare; - montare. <hr/> <ul style="list-style-type: none"> - supply the materials for insulating, including the technological losses and small ancillary materials - transporting and handling, insulation works. 	

10. INSTALATII ELECTRICE – ELECTRICAL INSTALLATIONS

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

10.1. RETELE INTERIOARE / INTERIOR NETWORK			
10.1.1 DEMONTARE / DISMANTLING			
Codul normei Norm Code	RpIE01	Demontare tub, teava de protectie.	Dismantling the protection conduit pipe.
Unitate de masura Measuring Unit	m		
Descriere Description	<div><div><div><div><div>- scoaterea de sub tensiune a instalatiei;</div><div>- executarea santului pentru dezvelirea tubului;</div><div>- scoaterea tubului si a dozelor de ramificatie;</div><div>- transport in depozit;</div><div>- astuparea santurilor si a gaurilor din ziduri.</div></div></div><div><div>- switching the power off;</div><div>- uncovering of the pipe ;</div><div>- taking out pipes and connection boxes;</div><div>- transportation into the storage;</div><div>- filling the trenches and the holes in the walls.</div></div></div></div>		
Codul normei Norm Code	RpIE02	Demontare conductor montat in tuburi de protectie.	Dismantling the conductor mounted in protection conduit.
Unitate de masura Measuring Unit	m		
Descriere Description	<div><div><div><div><div>- scoaterea de sub tensiune a instalatiei;</div><div>- desfacerea legaturilor si conexiunilor;</div><div>- scoaterea conductoarelor.</div></div></div><div><div>- switching the power off;</div><div>- dismantling the joints and connections;</div><div>- taking out the conductors.</div></div></div></div>		
Codul normei Norm Code	RpIE03	Demontare corp de iluminat.	Dismantling the luminaries fixture.
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<div><div><div><div><div>- scoaterea de sub tensiune a instalatiei;</div><div>- desfacerea legaturilor si conexiunilor;</div><div>- demontarea corpului de iluminat;</div><div>- demontarea elementelor de fixare si sustinere;</div><div>- astuparea santurilor si gaurilor.</div></div></div></div></div>		

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<ul style="list-style-type: none">- switching the power off;- dismantling the joints and connections;- dismantling the light unit;- dismantling the fixing and supporting elements;- filling of the trenches and holes.			
Codul normei Norm Code	RpIE04	Demontare intrerupator, comutator, priza, sonerie, buton	Dismantling the switch, socket outlet, bell, button
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<ul style="list-style-type: none">- scoaterea de sub tensiune a instalatiei;- desfacerea legaturilor si conexiunilor;- demontarea aparatului;- scoaterea dozelor de aparat;- astuparea santurilor si gaurilor. <hr/> <ul style="list-style-type: none">- switching the power off;- dismantling the joints and connections;- dismantling the device;- taking out the device sockets;- filling of the gutters trenches and holes.		
Codul normei Norm Code	RpIE05	Demontare cablu electric.	Removing electric cable.
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none">- scoaterea de sub tensiune a instalatiei;- desfacerea legaturilor si conexiunilor;- scoaterea cablului;- demontarea dozelor;- demontarea tevilor de protectie;- demontarea diblurilor, scoabelor, consolelor, podurilor de cabluri;- astuparea santurilor si gaurilor din ziduri. <hr/> <ul style="list-style-type: none">- switching the power off;- dismantling the joints and connections;- pulling out the cable;- dismantling the connection boxes;- dismantling the protection pipes;- dismantling the wall dowels, braces, brackets, cable bridges;- filling of the trenches and of the holes in the walls.		

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Codul normei Norm Code	RpIE06		
Unitate de masura Measuring Unit	buc/piece	Demontare electromotor.	Dismantling electric engine.
Descriere Description	<ul style="list-style-type: none"> - scoaterea de sub tensiune a instalatiei; - demontarea capacului de la cutia de borne; - desfacerea legaturilor si conexiunilor. <hr/> <ul style="list-style-type: none"> - switching the power off; - dismantling the top cover of the terminal box; - dismantling the joints and connections. 		
Codul normei Norm Code	RpIE07		
Unitate de masura Measuring Unit	buc/piece	Demontare tablou electric	Dismantling the electric panel
Descriere Description	<ul style="list-style-type: none"> - scoaterea de sub tensiune a instalatiei; - desfacerea legaturilor electrice de la bornele de intrare si iesire; - desfacerea conductei de protectie; - scoaterea de pe pozitii a tabloului; - transportul tabloului in depozit; - scoaterea elementelor de fixare; - astuparea santurilor si gaurilor din ziduri. <hr/> <ul style="list-style-type: none"> - switching the power off; - dismantling the electric connections - inlet and outlet terminals; - dismantling the protection pipe; - dismantling panel and storing; - transportation of the panel into the storage; - removing the fixing elements; - filling of the trenches and holes in the walls. 		

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10.1.2 MONTARE / INSTALLATION			
(CURENTI DE JOASA TENSIUNE,CURENTI SLABI / LOW VOLTAGE)			
Codul normei Norm Code	IE 01	Montare tub de protectie din material plastic montat ingropat, tip conform liste de cantități	Mounting the PVC protection conduit, under plaster, type as per B.o.Q.
Unitate de masura Measuring Unit	m		
Descriere Description	<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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<ul style="list-style-type: none">- supply of pipe, connection boxes, fittings;- transportation to the work place;- pegging out the installation;- execution of the penetrations in the walls for crossings;- installing of wall dowels, brackets for the support of the pipes- installing of pipes / tubes;- introducing wire into the pipes, for further pulling out the conductors;- execution of joints between the pipes/tubes;- installing of connection boxes and of the fittings;- Impermeability test of the pipes installed in explosion risk areas.			
Codul normei Norm Code	IE 03	Montare plinta din PVC montata aparent, tip conform liste de cantități	Mounting PVC cable trunking, surface mounted, type as per B.o.Q
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none">- procurarea plinta, piese speciale;- transportul pana la locul de montare;- asezarea la pozitie a tronsoanelor liniare;- imbinarea tronsoanelor;- fixarea pe zid cu ajutorul diblurilor. <hr/> <ul style="list-style-type: none">- supply of skirting, special pieces;- transportation to the work place ;- lining the linear sectors;- fitting the linear parts;- fixing to the walls with plastic plugs.		
Codul normei Norm Code	IE 04	Montare conductor electric in tuburi si tevi de protectie, tip conform liste de cantități	Mounting the wiring in protection conduit and pipes, type as per B.o.Q
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none">- procurarea conductoare;- transportul pana la locul de montare;- verificarea vizuala a integritatii izolatiei conductoarelor precum si a accesoriilor acestora;- introducerea conductoarelor in tuburi sau tevi de protectie gata montate;- executarea legaturilor electrice in doze;- verificarea circuitelor. <hr/> <ul style="list-style-type: none">- supply of conductors;- transportation to the installing place ;- visual checking of the integrity of the conductors insulations, and accessories;- inserting conductors in protection tubes or pipes;- execution of electric connections in connection boxes;- testing the circuits.		

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Codul normei Norm Code	IE 05	Montare cablu electric, tip conform liste de cantități	Mounting the electric cable, type as per B.o.Q
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none"> - procurare cablu; - transportul pana la locul de montare; - trasarea instalatiei; - montarea diblurilor sau montarea consolelor, dupa caz, pentru sustinerea cablurilor; - montarea scoabelor; - executarea strapungerilor in ziduri, pentru treceri; - verificarea inainte de montaj a continuitatii conductoarelor, a rezistentei de izolatie intre conductoare si in raport cu mantaua metalica a cablului, precum si pregatirea fiecarui capat de conductor pentru executarea legaturilor; - identificarea fazelor la ambele capete; - montarea cablului; - montarea dozelor de derivatie si executarea legaturilor in doze - formare de capete terminale si presarea papucilor. 		
	<ul style="list-style-type: none"> - supply cables; - transportation to the installing place; - pegging out of the installation; - mounting of wall dowels or brackets, by case, for supporting the cables; - execution of penetrations in the walls, for crossings; - checking before installing of the conductors continuity, of the insulation resistance between the conductors and in proportion with the metallic mantle of the cable, and also the preparation of every conductor end for connecting; - identification of the phases at both ends; - mounting of the cable; - mounting of the connecting boxes and the execution of connections inside - preparing of cable ends and pressing the clips. 		

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<p>Codul normei Norm Code</p>	<p align="center">IE 06</p>	<p>Montare aparat electric a) priza 220V simpla b) intrerupator simplu c) priza 220V dubla d) priza pardoseala simpla e) intrerupator cap scara f) intrerupator cruce g) comutator h) priza trifazica i) unitate centrala j) sursa tensiune 24Vcc/5A k) detector adresabil de fum l) detector de gaz metan m) buton avertizare incendiu n) hupa de alarmare incendiu interior o) sirena de exterior cu flash p) acumulator 12V/18Ah r) microfon electric cu brat flexibil s) semnale alarmare t) CD player u) tuner v) difuzor dreptunghiular 6W x) amplificator linie 2 iesiri w) splitter 1 intrare 8 iesiri z) splitter 1 intrare 6 iesiri a') splitter 1 intrare 4 iesiri b') priza televiziune comerciala c') patch panel 24 porturi d') patch cord e') priza simpla UTP Rj45 cat 5e f') cutie pardoseala g') switch 24 porturi h') computer - server i') priza bipolara j') intrerupator pachet k') contactor 10A l') programator orar digital m') traductor nivel n') buton sonerie o') sonerie p') sirena cu clopot r') rack 19" si H=1.5m s') centrala telefonica t') centrala avertizare incendiu u') nivostat v') buton comanda z') senzor de miscare w') contact magnetic a") difuzor 30W exterior</p>	<p>Mounting the electric device a) single socket 220V b) single switch c) double socket 220V d) single socket flooring e) terminal limit switch f) cross switch g) collector h) three phase socket i) central unit j) supply source 24Vcc/5A k) smoke detector l) gas detector m) fire allarm button n) fire alarm horn o) siren with flash p) battery 12V/18Ah r) microphone with flexible support s) alarm signs t) CD player u) tuner v) rectangular loudspeaker 6W x) amplifier with 2 input/output w) splitter 1 input 8 output z) splitter 1 input 6 output a') splitter 1 input 4 output b') commercial TV socket c') patch panel 24 ports d') patch cord e') single socket UTP Rj45 cat 5e f') floor box g') switch 24 ports h') computer - server i') bipolar socket j') package switch k') relay contact 10A l') digital timetable programming unit m') level traductor n') bell button o') bell p') siren with bell r') rack 19" si H=1.5m s') phone unit t') fire detection/allarming unit u') nivostat v') command button z') movement sensor w') magnetic contact a") exterior loudspeaker 30W type</p>
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Unitate de masura Measuring Unit	buc/piece	b'') difuzor bidirectional 6W c'') unitate centrala sonorizare d'') centrala efracție e'') intrerupator etans f'') comutator capat scara g'') priza aparenta cu contact protectie	b'') bidirectional loudspeaker 6W type c'') power audio amplifier unit d'') efraction unit e'') sealed circuit breaker; f'') switch for staircase g'') socket with contact protection
Descriere Description	<ul style="list-style-type: none"> - procurare aparat; - transportul pana la locul de montare; - pregatirea pentru montaj a aparatului; - realizarea golurilor, montarea diblurilor; - montarea dozei de aparat; - instalarea aparatului in doze, pe dibluri sau pe console; - montarea tuburilor la racordurile aparatului; - racordarea aparatului la instalatie; - reglarea releelor la intrerupatorul automat; - legarea conductorului de protectie; - probe de funcționare. 		
	<ul style="list-style-type: none"> - supply of devices; - transportation to the installing place; - preparing the device for the installing; - execution of the holes, mounting of the wall dowels ; - installing of the device socket; - installing the device in connection boxes, on wall dowels or on brackets; - installing of the tubes at the device connections; - connection of the device to the installation; - adjusting the relays at the automatic switch; - connecting the protective conductor; - tests. 		
Codul normei Norm Code	IE 07	Legarea electromotorului a) legarea unitate split unit b) legarea ventilator c) legarea chiller	Connection the electric engine a) connecting the split unit b) connection the ventilator c) connection the chiller unit
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<ul style="list-style-type: none"> - demontarea capacului de la cutia cu borne; - verificarea conexiunilor electrice; - taierea, dezizolarea, curatirea si executarea ochiurilor de legatura la conducte; - pregatirea si montarea tubului flexibil; - executarea legaturilor electrice; - matisarea cu banda izolatoare; - legarea conductei de protectie; - uscarea electromotorului; - probe de funcționare. 		

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<ul style="list-style-type: none">- opening the top cover of the terminal box;- testing the electric connections;- cutting, de-insulation, cleaning and connecting the conductors;- preparing and mounting the flexible conduit;- execution of the electric connections;- cable splicing with insulating tape;- binding the protection conductor;- drying off of the electric engine;- tests.			
Codul normei Norm Code	IE 08	Montare corp de iluminat, tip conform liste de cantitati	Mounting the light unit, type as per B.o.Q.
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<ul style="list-style-type: none">- procurare corp de iluminat complet echipat si a elementelor de fixare;- transportul pana la locul de montare;- pregatirea pentru montaj a corpului de iluminat;- montarea diblurilor;- montarea elementelor de fixare;- executarea legaturilor electrice si racordarea la instalatie;- asamblarea si montarea corpului de iluminat;- spalarea si montarea globurilor sau reflectoarelor la lampile fluorescente;- probe funcționare. <hr/> <ul style="list-style-type: none">- supply of fully equipped units and fixing elements;- transportation to the installing place;- preparing the unit for installing;- installing of wall dowels;- installing of fixing elements;- execution of the electric connections and the connection to the installation;- installing and installing of the lamp;- washing and installing of the globes/mirror of fluorescent lamps;- tests.		

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Codul normei Norm Code	IE 09	Montare tablou electric tablouri complet echipate	Mounting electric panel fully equipped board
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<ul style="list-style-type: none"> - procurarea tablou electric echipat conform specificatiei de operare; - transportul pana la locul de montare; - executarea golurilor in ziduri si montarea diblurilor si praznurilor de prindere; - presarea papucilor de cablu si izolarea acestora; - pregatirea capetelor terminale; - verificarea aparatajului electric aferent tabloului; - montarea tabloului; - montarea aparatajului si echipamentului demontat pentru transport; - verificarea circuitelor; - executarea legaturilor la bornele de intrare si iesire ale tabloului; - legarea conductorului de protectie. <hr/> <ul style="list-style-type: none"> - supply of the electric pannel equiped according to operating specfications; - transportation to the installing place; - execution of holes in the walls and installing of the wall dowels and of the fixing elements; - pressing of the cable clips and insulating; - preparing of the terminals; - checking the electric device corresponding to the pannel; - installing pannel; - installing devices and equipments - testing the circuits; - connecting input /output terminals in the pannel; - connecting the protective conductor. 		

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Codul normei Norm Code	IE 10	Montare constructii metalice prefabricate	Mounting the cable tray, metallic cable trunking
Unitate de masura Measuring Unit	kg	a) pana la 50 kg b) 50-100kg c) 100-200kg	a) up to 50 kg b) 50-100kg c) 100-200kg
Descriere Description	<ul style="list-style-type: none"> - procurarea elemente componente; - transportul pana la locul de montare; - asamblarea elementelor componente; - montarea diblurilor metalice pentru fixare pe elemente; - montarea la pozitie; - vopsirea constructiei metalice. 		
	<ul style="list-style-type: none"> - supply of the component elements; - transportation to the installing place; - installing the component elements; - installing of metallic wall dowells for fixing on elements; - installing in position; - painting metallic tray / trunk. 		

10.2. REȚELE EXTERIOARE / EXTERIOR NETWORK

10.2.1 INSTALAȚII PARATRĂSNET/LIGHTENING INSTALLATION

Codul normei Norm Code	IE 11	Montare conductor pentru legarea la pamant a receptoarelor sau aparatelor electrice platbanda OL Zn20x4 mm²	Mounting the conductor for additional earthing of electrical receivers flat galvanized steel Fe Zn 20x4 mm²
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none"> - procurarea conductorului si a clemelor de imbinare a suportului de fixare; - transportul pana la locul de montare; - montarea suportului conductorului de legare la pamant; - indreptarea si fasonarea conductorului; - montarea conductorului. 		
	<ul style="list-style-type: none"> - supply of the conductor and of the connection clips of the fixing support; - transportation to the installing place; - installing earthing conductor support; - straightening and bending of the conductor; - installing of the conductor. 		
Codul normei Norm Code	IE 12	Montare tija de captare pentru instalatia de protectie impotriva trasnetului, dispozitiv de amorsare tip prevelectron, conform liste echipamente	Mounting the lightning rod with seeding device prevelectron type, as per equipment list
Unitate de masura Measuring Unit	buc/piece		
Descriere Description	<ul style="list-style-type: none"> - procurare tija; - transportul pana la locul de montare; - montarea tijei; - grunduirea si vopsirea tijei;legarea tijei la instalatie - instalarea sistemului pentru paratrăznet tip Prevelectron - efectuarea testelor necesare 		
	<ul style="list-style-type: none"> - supply of the rod; - transportation to the installing place; - mounting of the rod; - primer painting and painting of rod; - connecting the rod to the installation - installing the lightning system prevelectron type - testing 		

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Codul normei Norm Code	IE 13	Montare conductor de captare pentru instalatia de protectie impotriva trasnetului montat pe acoperisuri a) platbanda OLZn 25x4 mm²	Mounting the collector conductor for lightening installation a) flat galvanized steel FeZn 25x4 mm²
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none"> - procurare conductor; - transportul pana la locul de montare; - confectionarea si montarea suporturilor si a pieselor de innadire si derivatie; - indreptarea, taierea si fasonarea conductorului de captare; - montarea conductorului; - verificarea continuitatii instalatiei; - vopsirea conductorului; - izolare hidrofuga la perforarile din acoperis. 		
	<ul style="list-style-type: none"> - supply of conductor; - transportation to the installing place; - execution and mounting of the supports and joining devices; - straightening, cutting and bending of the caption conductor; - installing of the conductor; - testing of the installation continuity; - painting the conductor; - waterproofing installation in roof penetrating areas. 		
Codul normei Norm Code	IE 14	Montare conductor de coborare pentru instalatia de protectie impotriva trasnetului a) platbanda OLZn30x3mm²	Down conductor for lightening installation a) flat galvanized steel FeZn 30x3mm²
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none"> - procurarea conductorului si a suportilor pentru fixare; - transportul pana la locul de montare; - indreptarea, taierea si fasonarea conductorului; - montarea suportilor pentru fixare; - montarea protectiei mecanice pentru conductor; - montarea conductorului de coborare; - legarea la instalatie; - vopsirea conductorului si protectiei; 		
	<ul style="list-style-type: none"> - supply of the conductor and of the fixing supports; - transportation to the installing place; - straightening, cutting and bending of the conductor; - installing of the fixing supports; - installing of the mechanical protection for the conductor; - installing of the down conductor; - connecting to the installation; - painting of the conductor and of the protection. 		

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Codul normei Norm Code	IE 15	Montare cutie cu eclisa de legatura pentru centura de impamantare	Monting earthing test joint box
Unitate de masura Measuring Unit	buc/piece	a) piesa de separatie	a) separating unit
Descriere Description	<ul style="list-style-type: none"> - procurarea cutie cu eclisa de legatura; - transportul pana la locul de montare; - fixarea cu dibluri; - vopsirea cutiei; - legarea la instalatie. 		
	<ul style="list-style-type: none"> - supply of the box with strap band; - transportation to the installing place; - fixing with wall dowels; - painting of the box; - connection to the installation. 		
Codul normei Norm Code	IE 16	Montare conductor pentru legare la pamant, montat in pamant in sant	Installing underground earthing conductor
Unitate de masura Measuring Unit	m	a) platbanda OLZn 40x4mm²	a) flat galvanized steel FeZn 40x4mm²
Descriere Description	<ul style="list-style-type: none"> - procurarea conductorului; - transportul pana la locul de montare; - indreptarea, taierea si fasonarea conductorului; - sapatura executare şanţ, pozarea in sant, astupare, compactare; - prinderea de electrod prin cleme de sudura; - verificarea rezistentei de dispersie a prizei de pamant; - legarea la cutia cu eclisa de legatura. 		
	<ul style="list-style-type: none"> - supply of the conductor; - transportation to the installing place; - straightening, cutting and bending of the conductor; - trench digging, placement of conductor, backfilling and compacting; - fixing on the electrode with welding clips; - checking of the dispersion resistance of the earthing socket; - connection to the box with strap band. 		

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Codul normei Norm Code	IE 17	Montare electrod, pentru priza de pamant, ingropat in pamant	Mounting the earthing rod
Unitate de masura Measuring Unit	m	a) 2 1/2" b) 2"	a) 2 1/2" b) 2"
Descriere Description	<ul style="list-style-type: none"> - procurare teava; - transportul pana la locul de montare; - pregatire electrod; - baterea electrodului in pamant. 		
	<ul style="list-style-type: none"> - supply of pipe; - transportation to the installing place; - preparing of pipe; - installing earthing electrode. 		
Codul normei Norm Code	IE 18	Montare cablu subteran, in sant, cablu tip conform lista cantități.	Installation of buried cable, cable type as per B.o.Q.
Unitate de masura Measuring Unit	m	a) sub 1,0 m latime si pana la 2,0 m adancime	a) under 1.0 m length till 2.0 m depth
Descriere Description	<ul style="list-style-type: none"> - sapatura de pamant manuala in spatii limitate (sub 1,0 m latime si pana la 2,0 m adancime); - strat de nisip si caramida pentru protectia cablului; - montare teava de protectie pentru cablu la subtraversari de drumuri si alei; - procurarea și montarea cablului; - verificarea si incercarea rețelei in cablu subteran; - montare folie avertizoare; - umplutura de pamant, executata in straturi orizontale de 20-30cm grosime, udata si compactată; - refacere pavaje. 		
	<ul style="list-style-type: none"> - manual excavation in limited spaces (less than 1,0 m wide and up to 2.0 m deep); - execution of sand/brick protective layer for the cable; - installing of the protection pipe for sub-crossings of roads and alleys; - supply and installing of the cable; - checking and testing underground net cables; - installing of warning stripe; - backfilling / compacting in horizontal layers of de 20-30cm thickness - remaking of pavement. 		

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10.2.2 ILUMINAT EXTERIOR / EXTERIOR LIGHTING			
Codul normei Norm Code	IE 19	Montare stalp și corp iluminat exterior, tip conform liste de cantități	Mounting the lighting support pole and light unit for outdoor, type as per B.o.Q
Unitate de masura Measuring Unit	buc/piece		
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Codul normei Norm Code	IE 21	Montare teava protectie in pamant, in sant a) teava PVC-G 40mm b) teava PVC-G 63mm	Mounting protection pipe in trench: a) pipe PVC-G 40mm b) pipe PVC-G 63mm
Unitate de masura Measuring Unit	m		
Descriere Description	<ul style="list-style-type: none"> - procurarea teava, transport; - săpare șanț, montare țevă, umplutură și compactare; - sarma pentru tragere. 		
	<ul style="list-style-type: none"> - supply and transport pipe; - trench excavation, pipe installing, backfilling and compacting - wire inserting for future pulling out the cables. 		

11. AMENAJARE INCINTA/GENERAL – EXTERIOR WORKS/GENERAL

DESCRIEREA ARTICOLELOR

ITEM DESCRIPTIONS

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11.1. LUCRĂRI PREGĂTITOARE / PRELIMINARY WORKS		
Codul normei Norm Code	GE0001	Pichetare de detaliu
Unitatea de masura Measuring Unit	h	Detailed pegging
Descriere Description:	<ul style="list-style-type: none"> - lucrari de topo pentru trasare, pichetare și nivelment; - curatarea suprafetelor metalice de impuritati si aderente in vederea aplicarii vopsitoriei; - executarea vopsitoriei la culoarea solicitata in proiect; - procurarea si montarea de tarusi din lemn ecarisat din brad; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - topographic works for pegging, pegging - out and surveying; - cleaning the metallic areas by impurities and adherences for painting; - paint execution according to the requested colour of the project; - supply and assembling the balk pickets; - checking the works execution. 	
Codul normei Norm Code	GE0002	Lucrări terasamente
Unitatea de masura Measuring Unit	m³	Embankments works
Descriere Description:	<ul style="list-style-type: none"> - sapatura de pamant pentru indepartarea stratului vegetal de 10 – 30 cm; - incarcare pamant vegetal; - sapatura in spatii limitate sub 1 m taluz vertical; - incarcarea auto a pământului rezultat din săpătură; - transport rutier al pământului in depozit; - împrăștierea pământului in depozit; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - soil excavation, removal of the topsoil of 10-30 cm ; - loading the topsoil; - excavation of spaces limited to less than 1m depth (vertical bank); - loading of the excess soil from the excavation; - vehicle transport of the soil to the authorised dumping area; - dispersing of the soil on the deposit site; - checking the works execution. 	

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Codul normei Norm Code	GE0002a	Lucrări amenajare infrastructura teren de sport si alei pietonale
Unitatea de masura Measuring Unit	m³	Arrangement works for sport field infrastructure for and footpath
<ul style="list-style-type: none"> - sapatura in depozit de pamant, cu excavatorul si incarcare direct in autobasculanta; - transport auto al pamantului din depozit la locul de punere in opera; - imprastiere manuala a pamantului (20%); - imprastiere mecanica cu buldozerul (80%); - compactare manuala (20%) si compactare mecanica cu cilindrul compactor (80%). 		
<ul style="list-style-type: none"> - excavation from soil stockpiles with excavator and direct loading onto skipper lorry; - transport of soil by vehicle to stockpile at work site; - manual spreading of soil (20%); - mechanical spreading with bulldozer (80%); - manual compaction (20%) and mechanical compaction with roller compactor (80%). 		
Codul normei Norm Code	GE0003	Teren de sport cu mixtura cauciucata pe fundatii din beton si strat de nisip
Unitatea de masura Measuring Unit	m²	Sport fields with asphalt covering on concrete foundations and sand layer
Descriere Description:	<ul style="list-style-type: none"> - realizare de fundație din beton de ciment pentru terenurile de sport; - procurare si transport auto beton de ciment; - procurare si transport auto nisip; - procurare si transport auto asfalt; - pregatire platforma pentru stratul izolator; - asternere strat izolator din nisip 10 cm grosime; - asternere imbracaminte din asfalt turnat; - procurare/instalare borduri mici pentru incadrare teren; - procurarea si asternerea covorului sintetic pentru terenuri sportive; - transportul auto al materialelor; - verificarea executiei lucrarilor. 	

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		<ul style="list-style-type: none"> - execution the cement concrete foundation layer; - supply and transport of the cement concrete; - supply and transport of the sand; - supply and transport of the asphalt mixture; - platform preparation for sand layer (sand bed); - laying sand layer 10cm thickness; - laying asphalt mixture layer; - supply/install small kerbs for field bordering; - supply and laying the synthetic carpet for the sport fields; - transport of materials to work site; - checking the works execution.
Codul normei Norm Code	GE0003a	Lucrari de betoane
Unitatea de masura Measuring Unit	m³	Concrete works
Descriere Description:	<ul style="list-style-type: none"> - procurare beton de ciment; - realizare de fundație din beton de ciment pentru terenurile de sport; - transport beton; - transportul auto al semifabricatelor (distanța reală); - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - supply of the cement concrete; - execution of cement concrete foundation for sport field; - transport of concrete; - vehicle transport of prefabs (real distance); - checking the works execution. 	
Codul normei Norm Code	GE0003b	Covor sintetic pentru terenuri de sport
Unitatea de masura Measuring Unit	m²	Synthetic carpet for sport fields
Descriere Description:	<ul style="list-style-type: none"> - procurarea si asternerea covorului sintetic pentru terenuri sportive; - transportul auto al materialelor; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - synthetic carpet supply and laying ; - vehicle transport of the materials; - checking execution works. 	

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Codul normei Norm Code	GE0003c	Porti, panouri, plane pentru jocuri sportive: handbal, fotbal, baschet, volei, tenis
Unitatea de masura Measuring Unit	buc/piece	Gates, bays, panels for athletic games: handball, football, basket, volley, tennis
Descriere Description:	<ul style="list-style-type: none"> - sapatura manuala pentru crearea fundatiilor stalpilor; - executarea fundatiilor stalpilor; - procurare panouri, porti si stalpi la terenurile de sport, porti de fotbal; - procurare panouri, porti si stalpi la terenurile de sport, stalpi din metal, fără scaun, la teren de volei; - procurare panouri, porți și stalpi la terenurile de tenis; - procurare panouri, porți și stalpi din metal, la teren de baschet; - procurare panouri, porți și stalpi la terenurile de handbal; - montare panouri, porti si stalpi; - vopsirea cu vopsea de ulei a elementelor metalice; - transport si manipulare materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - manual excavation for columns foundation; - execution of the foundations; - supply the panels, gates and pillars for the sport fields, football gates; - supply the panels, gates and pillars for the sport fields, metallic pillars, no chair, for the volley ball field - piece; - supply the panels, gates and pillars for the tennis fields – piece; - supply the panels, gates and pillars at handball terrains; - mounting the panels, gates and pillars; - painting of the metallic elements with oil paint; - transport and handling the materials on horizontal and vertical; - cleaning the site work and transport the rubbish resulted; - checking the materials quality and the works execution. 	
Codul normei Norm Code	GE0003d	Teren de sport cu imbracaminte din asfalt turnat
Unitatea de masura Measuring Unit	m²	Sport fields with asphalt covering
Descriere Description:	<ul style="list-style-type: none"> - pregatire platforma pentru stratul izolator; - procurare nisip; - procurare asfalt; - procurare borduri mici pentru incadrare teren; - transport auto al materialelor la locul de punere in opera; - transport cu roaba; - asternere strat izolator din nisip 10 cm grosime; - asternere imbracaminte din asfalt turnat; - procurare si turnare beton pentru fundatii borduri; - montare borduri; - verificarea calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> - platform preparation for sand layer (sand bed); - supply of sand; - supply of asphalt; - supply small kerbs for field bordering; - vehicle transport of materials to work site; - transport with wheel barrow; - laying sand layer 10cm thickness; - laying asphalt layer - supply and casting of concrete for kerbs foundations; - kerbs mounting; - checking the material quality and works execution. 		
Codul normei Norm Code	GE0004	Imprejmuire din plasa de sarma pe rame de otel cu stalpi metalici, H=4,00 m, inclusiv vopsitoria
Unitatea de masura Measuring Unit	m	Enclosure by wire mesh on steel frame with metallic poles, H = 4,00 m, including painting
Descriere Description:	<ul style="list-style-type: none"> - sapatura manuala pentru crearea fundatiilor stalpilor; - executarea fundatiilor stalpilor; - procurarea si montarea stalpilor pentru imprejmuire si a panourilor din plasa de sarma; - vopsirea elementelor metalice; - transportul si manipularea materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - manual excavation for poles foundation; - execution of poles foundations; - supply and assembling of the fencing posts and frames with the wire mesh; - painting of metallic elements; - horizontal and vertical transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the material qualities and the works execution. 	
Codul normei Norm Code	GE0005	Confectionat si montat porti metalice din otel profilat si plasa de sarma, inclusiv vopsitoria
Unitatea de masura Measuring Unit	m	Manufacturing and mounting of metal gates by steel profile and wire mesh, including painting
Descriere Description:	<ul style="list-style-type: none"> - procurarea si montarea portilor pentru imprejmuire; - vopsirea elementelor metalice; - transportul si manipularea materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - supply and install the gates for the fencing; - painting of metallic elements; - horizontal and vertical transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the material qualities and the works execution. 	

**11.2. ALEI PLATFORME CAROSABILE (fundatie drum) /
CARRIAGEWAYS PLATFORM ALLEYS (road foundation)**

Codul normei Norm Code	AP00001	Fundație drum
Unitatea de masura Measuring Unit	m²	Road foundation
Descriere Description:	<ul style="list-style-type: none"> - compactarea umpluturilor; - săpătura fundației chiunetă; - incarcare, transport si imprastiere in depozit a pamantului; - nivelarea și compactarea pământului în vederea așternerii straturilor rutiere; - udarea straturilor de pamant; - transport auto apa industrială; - așternerea si compactarea stratului de agregate naturale cilindrate; - așternerea si compactarea stratului rutier din materiale granulare stabilizate cu ciment; - prepararea amestecului pentru straturi stabilizate executate din balast; - transportul auto al materialelor gata de punere în operă, balast si nisip; - verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - compacting with vibratory plate the fillings; - the digging of the trapezoidal foundation; - the soil loading, transporting and dispersing inside deposit; - levelling and compacting the soil for coating the road asphalt layers; - watering the soil layers; - transport of industrial water by vehicle; - laying and compacting the layer of rolled natural aggregates; - laying and compacting of the road layer of granular materials, stabilized with cement; - preparing of the mixture for stabilized layers executed of ballast; - vehicle transport of the ready-mixed materials, ballast and sand; - checking the works execution. 	

11.3. SUPRASTRUCTURĂ DRUM / ROAD SUPERSTRUCTURE		
Codul normei Norm Code	RS00001	Straturi rutiere - mixturi asfaltice
Unitatea de masura Measuring Unit	m²	Road structure - asphalt mixtures
Descriere Description:	<ul style="list-style-type: none"> - amorsare cu suspensie de bitum filerizat a suprafeței stratului de bază sau îmbrăcămintă existentă în vederea aplicării stratului de mixtură asfaltică; - strat de bază mixturi asfaltice executate la cald, cu așternere și compactare mecanică; - preparare mixturi asfaltice pentru stratul de bază executate la cald; - curățirea suprafeței în vederea așternerii stratului suport; - amorsarea cu suspensie de bitum filerizat suprafeței stratului de bază sau îmbrăcăminții existente în vederea aplicării stratului; - îmbrăcămintă din beton asfaltic executat la cald în grosime de 4cm cu așternere; - preparare beton asfaltic, executată la cald cu bitum în instalații tip lpx; - procurare nisip bitumat; - transportul auto al materialelor; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - priming with slurry of filleded bitumen the surface of the primary layer or the existent coating in order to apply the layer of hydrocarbon pavement mixture; - hot executed base layer of asphalt pavement mixtures, mechanically laying and compacting ; - preparing asphalt pavement mixture for the base layer, hot laying; - cleaning of the surface before coating the support layer; - priming with slurry of filleded bitumen the surface of the primary layer or the existent coating in order to apply the layer; - asphalt concrete coating, hot executed, with a thickness of 4 cm with mechanically laying and compacting; - preparing asphalt concrete, hot executed – with bitumen, in installations lpx type; - supply of coated sand; - auto transport of materials; - checking the works execution. 	

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Codul normei Norm Code	RS00001a	Asternere beton asfaltic pe suport existent a. 4 cm grosime
Unitatea de masura Measuring Unit	m²	Asphalt concrete covering on existent support a. 4 cm thickness
Descriere Description:	<ul style="list-style-type: none"> - curatare suprafata existenta in vederea asternerii noi imbracaminti; - amorsarea cu suspensie de bitum filerizat, inclusiv procurare; - procurare, asternere și compactare mecanizată imbracaminte din beton asfaltic executat la cald; - procurare nisip bitumat; - transport auto materiale la locul de punere in opera; - imprastiere nisip bitumat; - verificarea calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - cleaning the existent area for spreading of a new covering; - priming with suspension of granular filler, including supply; - supply of asphalt concrete covering, mechanically laying and compacting; - supply of coated sand; - transport of the materials by vehicle to work site; - spreading the coated sand; - checking the materials quality and works execution. 	

11.4. REABILITAREA PLATFORMELOR CAROSABILE / CARRIAGEWAYS PLATFORMS REHABILITATION

Codul normei Norm Code	RPC00001	Beton asfaltic
Unitatea de masura Measuring Unit	m²	Asphalt concrete
Descriere Description:	<ul style="list-style-type: none"> - curatirea si inlaturarea stratului de noroi; - amorsare cu suspensie de bitum filerizat a suprafetei stratului de baza sau imbracaminte existenta; - asternerea mecanica a stratului de mixturi asflatice executate la cald; - preparare mixturi asfaltice pentru stratul de bază executate la cald; - curatirea suprafetei in vederea asternerii stratului suport; - amorsarea cu suspensie de bitum filerizat suprafetei stratului de baza sau imbracamintii existente în vederea aplicarii stratului; - asternerea si compactarea mecanica a imbracamintii din beton asfaltic executat la cald; - preparare beton asfaltic cu agregat mare, executată la cald; - procurare nisip bitumat; - transportul auto al materialelor; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - cleaning and removing of the mud/dirt layer; - priming the surface of the primary layer or the existent coating with slurry of bitumen-filled suspension; - hot executed base layer of asphalt pavement mixtures, with mechanic coating and compacting; - preparing asphalt pavement mixture for the base layer, hot laying; - cleaning of the surface before coating the support layer; - priming with slurry of filled bitumen the surface of the primary layer or the existent coating in view of applying the layer; - mechanic laying of the asphalt concrete coating, hot executed; - preparing asphalt concrete with big aggregates, hot executed; - supply of coated sand; - transport of materials by vehicle; - checking the works execution. 	

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11.5. ÎNCADRARE CU BORDURI / FOOTPATH		
Codul normei Norm Code	RAL001	Desfacerea trotuarelor si a bordurilor degradate, inclusiv transport moloz
Unitatea de masura Measuring Unit	m²	Footpath dismantling and deteriorated kerbs, including the rubbish transport
Descriere Description:	<ul style="list-style-type: none"> - desfacerea trotuarelor deteriorate si a bordurilor aferente; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - dismantling the footpath and deteriorated kerbs; - horizontal transport and handling of the material; - cleaning and transport of the debris from the work site; - checking the material quality and the works execution. 	
Codul normei Norm Code	RAL002	Refaceri trotuare si borduri conform configuratiei existente
Unitatea de masura Measuring Unit	m²	Remaking of the footpath and kerbs according to actual configuration
Descriere Description:	<ul style="list-style-type: none"> - repararea denivelarilor existente; - executarea trotuarelor noi din beton; - montarea bordurilor noi pe pozitia indicata in proiect; - turnarea asfaltului la trotuare; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - repair of existent dislevelments; - execution of new footpath by concrete; - new kerbs installation at the position indicated by the project; - casting of the asphalt at footpaths; - horizontal transport and handling of the material; - cleaning and transport of the rubbish from the work site; - checking the material quality and the works execution. 	

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Codul normei Norm Code	RAL003	Trotuar din placi de beton cu rosturile umplute cu mastic si borduri
Unitatea de masura Measuring Unit	m²	Footpath made of concrete slabs, with mastic-filled joints and kerbs
Descriere Description:	<ul style="list-style-type: none"> - trasarea trotuarului; - verificarea stratului suport al trotuarului, precum si a cotei de nivel; - procurarea materialelor pentru executia trotuarului; - executarea trotuarului din dale si borduri din beton; - umplerea rosturilor dintre dale cu mastic de bitum; - transportul si manipularea materialelor pe orizontala si verticala; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - footpath setting-out; - checking of the support layer and levels; - supply of materials for footpath execution; - footpath paving with p.c.c. slabs and concrete kerbs; - filling of joints between slabs with bitumen mastic; - horizontal and vertical transport and handling of the materials; - checking the material quality and the works execution. 	
Codul normei Norm Code	RAL004	Desfacere si refacere borduri la trotuare, alei, incadrare spatii verzi
Unitatea de masura Measuring Unit	m	Removing and remaking the kerbs for footpath, alleys, green spaces
Descriere Description:	<ul style="list-style-type: none"> - desfacere de borduri de beton de orice tip pe fundatie de nisip; - verificarea aliniamentului; - procurare borduri mari, prefabricate din beton pentru trotuare, asezate pe o fundatie de beton; - procurare borduri mici, prefabricate din beton, pentru încadrarea spațiilor verzi, trotuarelor, aleilor, așezate pe o fundație din beton; - pregatirea si turnarea betonului cu granulat, preparat cu ciment; - incarcarea, descarcarea si transportul auto al materialelor; - pozarea bordurilor; - verificarea calitatii lucrarilor. 	
	<ul style="list-style-type: none"> - removing the concrete kerbs different types on the sand foundation - - checking the alignment; - supply big kerbs, made of pre-cast concrete , placed on a concrete foundation; - supply small kerbs, pre-cast concrete , for bordering the green areas, footpathes, alleys, placed on a concrete foundation; - checking of the alignment; - preparing and casting of the concrete, prepared with cement; - transport by vehicle of the materials, loading and unloading; - laying of the kerbs; - checking the works quality. 	

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Codul normei Norm Code	RAL005	Trotuar nou
Unitatea de masura Measuring Unit	m²	New footpath
Descriere Description:	<ul style="list-style-type: none"> - verificarea aliniamentului; - strat de fundatie din piatra sparta pentru drumuri ,asternere, executat fara impanare si innoire; - prepararea suspensiei de bitum; - amorsare cu suspensie de bitum filerizat al suprafetei stratului de baza in vederea aplicarii covorului asfaltic - prepararea covorului asfaltic si turnare pe trotuare - incarcarea si transportul rutier al materialelor - verificarea calitatii lucrarilor. 	
	<ul style="list-style-type: none"> - checking the alignment; - foundation layer of crushed stone for roads, paving, executed without keying and renewal; - preparing the bitumen slurry; - priming with slurry of filled bitumen the surface of the primary layer in view of applying the layer of bituminous carpet coat; - preparing of the bituminous carpet coat and casting in sidewalks; - loading and road transport of materials; - checking the works quality. 	

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11.6. TERASAMENTE / EMBANKMENTS		
Codul normei Norm Code	T00001	Rigola din beton
Unitatea de masura Measuring Unit	m	Gutter of concrete
Descriere Description:	<ul style="list-style-type: none"> - sapatura santuri; - transport si imprastiere material rezultat din sapatura; - procurare materiale, transport la locul execuției - strat suport de nisip 10cm - cofraje pentru betoane in elevatii pentru elemente de rigola; - procurare, turnare beton; - transport beton si/sau prefabricate pe santier; - incarcare, descarcare, montarea elementelor prefabricate din beton armat; - procurarea si turnarea betonului simplu in completari, nivelari, de panta în straturi si a betonului de egalizare la fundația rigolei; - rost vertical de separatie, din carton bitumat; - măsuri de protecție pentru beton proaspăt turnat - verificarea calitatii lucrarilor. 	
	<ul style="list-style-type: none"> - digging ditches; - transporting and dispersing of the material resulted from the digging; - supply materials, transport to place of work - support layer made of sand 10cm thickness - formwork for concrete cast in elevation for gutter elements; - supply and casting of the concrete; - transporting of ready-mixed concrete/prefabs on site; - loading, unloading, mounting the reinforced concrete prefabs elements of reinforced concrete; - supply and casting the solid concrete in completions, levelling the slopes in layers and the concrete of equalization at the gutter foundation - vertical separation joint, made of bituminized cardboard - protection measures for concrete - checking the works quality. 	

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Codul normei Norm Code	T00002	Rigola cu grătar
Unitatea de masura Measuring Unit	m	Gutter with grating
Descriere Description:	<ul style="list-style-type: none"> - sapatura santuri; - transport si imprastiere material rezultat din sapatura; - procurare materiale, transport la locul execuției - strat suport de nisip 10cm - cofraje pentru betoane in elevatii pentru elemente de rigola; - procurare, turnare beton; - transport beton si prefabricate pe santier; - incarcare, descarcare, montarea elementelor prefabricate din beton armat; - procurarea si turnarea betonului simplu in completari, nivelari, de panta în straturi si a betonului de egalizare la fundația rigoleior; - rost vertical de separatie, din carton bitumat; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - digging ditches; - transporting and dispersing of the material resulted from the digging; - supply materials, transport to place of work - support layer made of sand 10cm thickness - formwork for concrete cast in elevation for gutter elements; - supply and casting of the reinforced concrete with heavy aggregates; - transporting of ready-mixed concrete to the site; - loading, unloading, mounting the reinforced concrete prefabs elements of reinforced concrete; - supply and casting the solid concrete in completions, levelling the slopes in layers and the concrete of equalization at the gutters' foundation - vertical separation joint, made of bituminized carbon; - checking the works execution. 	
Codul normei Norm Code	T00003	Pavele autoblocante prefabricate a) carosabile b) necarosabile
Unitatea de masura Measuring Unit	m²	Layer of interlocking prefab concrete pavers a) carriage ways b) walkways
Descriere Description:	<ul style="list-style-type: none"> - procurare materiale -nisip - turnarea stratului support nisip; - procurarea, transportul si pozarea pavele; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - supply materials-sand; - casting the support layer - sand; - supply, transport and laying pavers; - checking the works execution. 	

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Codul normei Norm Code	T00004	Groapa cu nisip
Unitatea de masura Measuring Unit	m²	Sand pit
Descriere Description:	<ul style="list-style-type: none"> - saparea gropilor pentru sarituri; - fasonarea si prinderea scandurilor cu panza de sac si prinderea lor; - protejarea gropii de nisip cu geotextil; - umplerea gropilor cu nisip; - confectionarea pragului de bataie, inclusiv transportul materialelor cu roaba in interiorul zonei de lucru; - transportul pamantului rezultat din sapatura; - imprastierea pamantului rezultat din sapatura; - protejarea gropii de nisip cu geotextil; - transport nisip, si geotextil; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - excavation of the sand pit for jumping; - installation of kerbs/edge boards, pinning with burlap; - protecting the sand pit with geo-textile; - filling the pits with sand; - executing the pounding sill, including the materials transportation with the wheelbarrow around the work area; - transporting of the excess soil from the excavation; - dispersing the soil resulted from digging; - protecting the sand pit with geo-textile; - transporting the sand, and the geo-textile; - checking the works execution. 	

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11.7. SPAȚIU VERDE / GREEN SPACE		
Codul normei Norm Code	V00001	Amenajarea terenului prin degajarea de corpuri straine, indepartarea ierbii si buruienilor si plantarea arborilor
Unitatea de masura Measuring Unit	buc/piece	Terrain arrangement by cleaning any undesirable matter, weeds, shrubs and trees and planting of the trees
Descriere Description:	<ul style="list-style-type: none"> - degajarea terenului de corpuri straine; - taierea manuala a arborilor degradati si depozitarea lor; - extragerea radacinilor si a tufelor de pe amplasament; - pregatirea sistemului radicular la arbori; - transplantari de arbori, puieti cu balot; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - cleaning the terrain from undesired matter; - manual cutting of deteriorated trees and depositing; - extraction of roots and of shrubs from the location; - preparation of root systems of trees for planting; - transplanting of trees, sapling with bale; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the material quality and the works execution. 	
Codul normei Norm Code	V00002	Gard viu
Unitatea de masura Measuring Unit	m	Hedge
Descriere Description:	<ul style="list-style-type: none"> - procurare si transport gard viu; - sapatura groapa pentru plantare; - transport si imprastiere pamant; - plantări pentru gard viu (buxus); - transportul, depozitarea, manevrarea gardului viu si a plantelor; - verificarea executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - supply and transporting of the hedge; - digging of the pit for planting; - transporting and dispersing the soil; - planting of the hedge (buxus); - transporting, depositing, handling the hedge and the plants; - checking the works execution. 	

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Codul normei Norm Code	V00003	Amenajarea terenului prin degajarea de corpuri straine, indepartarea ierbii si buruienilor si plantarea spatiilor cu gazon
Unitatea de masura Measuring Unit	m²	Clearing of the site from any undesirable matter, weeds and shrubs and re-planting with green sward (lawn)
Descriere Description:	<ul style="list-style-type: none"> - degajarea terenului de corpuri straine; - curatarea terenului de buruieni si iarba; - asternerea pamantului vegetal si aplicarea de ingrasaminte; - semanarea gazonului si udarea lui; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - terrain clearing from any undesired matter; - clearing of the terrain from shrubs and weeds; - spreading of arable topsoil and putting a fertilizer; - sward sowing and watering; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the material quality and the works execution. 	
Codul normei Norm Code	V00004	Amenajarea terenului prin degajarea de corpuri straine, indepartarea ierbii si buruienilor in vederea plantarii gardului viu si a plantelor perene
Unitatea de masura Measuring Unit	buc/piece	Clearing of the site from any undesirable matter, weeds and shrubs, in order to plant hedges and evergreen plants
Descriere Description:	<ul style="list-style-type: none"> - degajarea terenului de corpuri straine; - extragerea radacinilor si a tufelor de pe amplasament; - plantarea de gard viu din arbusti; - udarea plantatiei; - tunderea gardului viu; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - cleaning the terrain from any undesired matter; - roots and bushes extraction from location; - planting of hedge by small trees; - watering the plants; - cutting the hedge; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the material quality and the works execution. 	

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Codul normei Norm Code	V00005	Semănarea gazonului
Unitatea de masura Measuring Unit	m²	Sowing the lawn
Descriere Description:	<ul style="list-style-type: none"> - nivelarea si udarea terenului, in vederea semanarii; - semănarea gazonului; - transportul, depozitarea, manevrarea semintelor de iarba; - verificarea executiei lucrarilor. 	
	<ul style="list-style-type: none"> - levelling and watering of the soil, in order to enable sowing; - sowing the lawn; - transporting, depositing, handling the grass seeds; - checking the works execution. 	

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11.8. IMPREJMUIRE / FENCES		
Codul normei Norm Code	IM0001	Reabilitare imprejmuire: reparatii tencuieli la soclu, revizure si reparatii porti, curatarea vopsitoriei existente si revopsirea
Unitatea de masura Measuring Unit	m²	Enclosure rehabilitation: plaster repairs at base, revised and gates repairs, existing paint cleaning and repainting
Descriere Description:	<ul style="list-style-type: none"> - repararea tencuielilor de la soclul imprejmuirii; - revizuirea confectionei metalice a imprejmuirii; - repararea confectionei metalice si a portilor metalice; - curatarea vopselei vechi cu decapant si peria de sarma; - revopsirea elementelor metalice; - transportul si manipularea materialelor pe orizontala si verticala; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - enclosure base plasters repair; - control of the metallic confection of enclosure; - repairs of the metallic confection and of metallic gates; - old paint cleaning with mordant and wire brush; - repainting the metallic elements; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the quality materials and the works execution. 	
Codul normei Norm Code	IM0002	Demontarea gardului din fier forjat existent
Unitatea de masura Measuring Unit	m	Dismantling of existing iron fence
Descriere Description:	<ul style="list-style-type: none"> - demontarea si curatarea confectionei metalice existente; - demolarea fundatiilor stalpilor imprejmuirii; - transportul si manipularea materialelor intr-un depozit pe santier; - curatirea si transportul molozului de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - dismantling and cleaning of actual metal confection; - enclosure beams foundations demolition; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the quality materials and the works execution. 	

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Codul normei Norm Code	IM0003	Imprejmuire din fier forjat existent, revopsita, executata pe soclu din beton, finisat sclivisit
Unitatea de masura Measuring Unit	m	Fencing with existent iron, repainting, executed on polished concrete foundations
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor pentru realizarea imprejmuirii; - sapatura pentru executarea soclului din beton; - executarea soclului din beton; - revizuirea confectionei metalice a imprejmuirii; - repararea confectionei metalice si a portilor metalice; - curatarea vopselei vechi cu decapant si peria de sarma; - montarea in soclul din beton a confectionei si fixarea pe pozitie prin betonare; - finisarea soclului din beton cu tencuiala sclivisita; - revopsirea elementelor metalice; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul excesului de materiale de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - materials supply to manufacture the fence; - digging to execute the concrete foundations; - execution of the concrete foundations; - control of the metallic confection of enclosure; - repairs of the metallic confection and of metallic gates; - old dyeing cleaning with mordant and wire brush; - mounting of the confection and fixing it in through concreting; - finishing the concrete foundation with polishing plaster; - repainting of the metallic elements; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the quality materials and the works execution. 	
Codul normei Norm Code	IM0004	Imprejmuire din fier forjat nou, vopsita, executata pe soclu din beton, finisat sclivisit
Unitatea de masura Measuring Unit	m	Fencing with new wrought iron, painted, executed on polished concrete base
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor pentru realizarea imprejmuirii; - sapatura pentru executarea soclului din beton; - executarea soclului din beton; - montarea in soclul din beton a confectionei si fixarea pe pozitie prin betonare; - finisarea soclului din beton cu tencuiala sclivisita; - revopsirea elementelor metalice; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul exccsului de materiale de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	

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<ul style="list-style-type: none"> - materials supply to manufacture the fence; - digging to execute the concrete foundation; - execution of the concrete foundation; - mounting of the confection and fixing it in through concreting; - finishing the concrete foundation with polishing plaster; - repainting the metallic elements; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the materials quality and the works execution. 		
Codul normei Norm Code	IM0005	Reparare imprejmuire din caramida sau beton prin reparare tencuieli si vopsitorie cu vopsea lavabila de exterior
Unitatea de masura Measuring Unit	m²	Enclosure repair by brick or concrete through plaster repair and painting with exterior emulsion paint
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor pentru realizarea imprejmuirii; - revizuirea calitatii tencuielii existente a imprejmuirii; - repararea fisurilor in tencuiala si rectificarea generala a suprafetelor; - curatarea vopselei vechi; - revopsirea suprafetei cu vopsea lavabila de exterior; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul excesului de materiale de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. 	
	<ul style="list-style-type: none"> - materials supply for enclosure execution; - control of the existent plaster quality of the enclosure; - repairs of the plaster fissures and general adjustment of the surfaces; - removing the old paint; - repainting with exterior emulsion paint; - horizontal transport of the materials; - cleaning and transport of the rubbish from the work site; - checking the materials quality and works execution. 	

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Codul normei Norm Code	IM0006	Imprejmuire din zidarie, executata pe fundatie din beton, tenculala driscuita si vopsita cu vopsea lavabila de exterior
Unitatea de masura Measuring Unit	m	Enclosure by masonry, executed on concrete foundation, smoothing plaster painted with exterior emulsion paint
Descriere Description:	<ul style="list-style-type: none"> - procurarea materialelor pentru realizarea imprejmuirii; - sapatura pentru executarea fundatiei din beton; - executarea fundatiei din beton; - executarea zidariei din caramida, a tencuielii si a finisajului; - transportul si manipularea materialelor pe orizontala; - curatirea si transportul excesului de materiale de la locul de munca; - verificari ale calitatii materialelor si a executiei lucrarilor. <hr/> <ul style="list-style-type: none"> - materials supply to manufacture the enclosure; - digging to execute the concrete foundation; - execution of the concrete foundation; - masonry execution, plastering and finishing; - horizontal transport and handling of the materials; - cleaning and transport of the rubbish from the work site; - checking the materials quality and works execution. 	
Codul normei Norm Code	IM0007	Imprejmuire din sarma cu rame de otel pe stalpi metalici (Panouri de imprejmuire din sarma galvanizata montate pe rame din otel beton OB37, exclusiv stalpii imprejmuirii)
Unitate de masura Measuring Unit	m	Enclosure by mesh with steel frame on metallic columns (Enclosure panels from galvanic mesh mounted on OB37 steel frames, without enclosure columns)
Descriere Description:	<ul style="list-style-type: none"> - procurarea panourilor din sarma galvanizata montate pe rame de otel beton; - montarea panourilor pe stalpii metalici prin intermediul urechilor de prindere; - verificarea executiei montajului de panouri. <hr/> <ul style="list-style-type: none"> - supply of the galvanised mesh panels mounted on OB37 steel frame; - mounting of the panels on metallic columns through hangers; - checking the mounting and execution of the panels. 	