

LEGEND :

-----	Heating flow line (from copper and steel pipe)
-----	Heating falling line (from copper and steel pipe)
22-600/1800 1/2"(4744W)	Steel heater, 1500 mm - length, 600 mm - height and two columns with angle valve, (1/2" diameter) turn-return, total thermal power loss (normal conditions) 4.744 W
DM	Manual deaeration outfit, mounted on the heater, Ø1/2"
RAA 1/2"	Automatic valve for deairation, assembled on the uprisers end, Ø 1/2"
RT	Angle control valve, assembled on the heater, on flow line Ø 1/2"
RR	Angle valve, simple ajustement, assembled on the heater's return line, Ø 1/2"
RG 3/8"	Hose bib cock, Ø 3/8"
RSS 11/4"	Globe valve, for deviding, Ø 11/4"
RRP 3/4"	Automatic valve for pressure ajustement, 3/4"
RSF100	Separating sluice valve with flanges, ND 100, NP 6 bar
GR	Delivery side hole
C	Water collector
D	Water distributor

LEGENDA:

-----	Conducta incalzire, tur (teava de cupru si teava de otel)
-----	Conducta incalzire, retur (teava de cupru si teava de otel)
22-600/1800 1/2"(4744W)	Radiator din otel, cu lungime de 1800mm, inaltimea de 600mm si doua coloane, cu ventil de diametru 1/2" (tur/retur), putere totala cedata in conditii nominale 4744W
DM	Dispozitiv manual de aerisire montat la radiator, Ø1/2"
RAA 1/2"	Robinet automat de aerisire, montat la capatul coloanei, H=2,5 m, Ø 1/2"
RTS	Robinet de trecere cu sfera, montat la radiator pe conducta de tur, Ø1/2"
RR	Robinet coltar, simplu reglaj montat la radiator pe conducta de retur, Ø1/2"
RG3/8"	Robinet cu racord portfurtun, pentru golire Ø 3/8"
RSS 11/4"	Robinet de sectionare cu sfera, Ø 11/4"
RRP 3/4"	Robinet automat de reglare a presiunii, Ø 3/4"
RSF100	Robinet de sectionare cu setar si flanse, Dn 100, pn 6 bari
GR	Gura de refulare
C	Colector
D	Distributor

- * Radiatoarele se vor alege in functie de debitul termic pe care trebuie sa il asigure in incaperea respectiva si de caracteristicile comunicate de furnizor, pentru inaltimea impusa de proiectant (H = 600 mm).
- * Inaltimea de montare a radiatoarelor va fi de **150 - 200 mm de la pardoseala incaperii** pana la partea inferioara a corpului de incalzire.
- * Racordarea la coloane se va realiza numai **"in cruce"**, pentru obtinerea unei eficiente maxime, in conformitate cu detaliul alaturat.
- * Se va respecta - cu strictete - modul de racordare la coloana : pentru **conducta de tur, panta ascendenta de 2 ‰ spre coloana** iar pentru **conducta de retur panta descendenta de 2 ‰ catre coloana**.
- * Robinetele automate de aerisire se vor monta la inaltimea de **2,80 m fata de cota pardoselii** etajului respectiv. Conductele de aerisire vor fi prinse in suport, tip bratara, in apropierea robinetului de aerisire.
- * Conductele de distributie, din subsol vor fi asamblate **prin fittinguri filetate pana la diametrul de 1" si prin sudura cu flacara oxiacetilenica peste acest diametru**.
- * Izolarea conductelor de distributie se va face numai **dupa executarea probelor de etanseitate si dilatare-contractare "la cald"** si grunduirea, in doua straturi a acestora.
- * Pe exteriorul stratului de protectie a termoizolatiei se vor inscrie **tipul conductei si sensul de curgere al fluidului**.




- * The steel-heaters will be selected according to the thermal flow that has to be respected for the room's characteristics and to the height requirements imposed by the designer (H=600 mm) and the technical data provided by the supplier.
- * The steel-heaters will comply with a fitting height of **(150 - 200) mm from the floor of the room** up the inferior part of heating device.
- * The steel-heater will be connected to the pipeline only through a **"cross pattern"** in order to obtain maximum efficiency, according to the attached detail drawing.
- * The method of connection to the pipeline will be strictly observed: **for the flow line - gradient of 2‰, ascending towards the pipeline and for the falling line - gradient of 2‰, descending towards the pipeline**.
- * The automatic valves for deairation will be fitted at a height of 2,80 m from the quota of the floor present on the respective level. The ventilation ducts will be fixed with support devices, bracket like, near the deairation valve.
- * The distribution ducts from the basement will be fitted **with the help of threaded adapting pieces, up to 1" in diameter and with the help of oxyacetylene welding for diameters above this value**.
- * The distribution ducts will be insulated only **after** they are varnished with two layers of paint and **the sealing and diltation-contraction tests are performed**.
- * **The type of the duct and the flow direction of the liquid** will be marked on the exterior protection layer of thermo-insulation.

NOTE :

* The present drawing will be consulted together with the following drawings : B - T/V - 001, B - T/V - 002 and GE 004 - S - 001

NOTA :

* Prezentul se va consulta impreuna cu planurile : B - T/V - 001,B - T/V - 002 si GE 004 - S - 001

VERIFICATOR M.L.P.A.T.	NUME NAME	SEMNATURA SIGNATURE	CERINTA REQUIREMENT	REFERAT / EXPERTIZA NR. / DATA REPORT / TECHNICAL EXPERTISE / DATE	
PROJECT DESIGN COORDINATOR: COORDINATOR PROJECT:			 THE LOUIS BERGER GROUP, INC		
BUCHAREST SCHOOLS INFRASTRUCTURE REHABILITATION / REABILITAREA INFRASTRUCTURII EDUCATIONALE IN MUNICIPIUL BUCURESTI					
DESIGNER/PROIECTANT:		M4			
		M3			
		M2			
		M1			
Modif		Data/Data	DESIGNED BY/PROIECTAT	VERIFIED BY/VERIFICAT	PROJ. DIR./SEF PROJECT
BENEFICIARY/BENEFICIAR	MUNICIPALITY OF BUCHAREST PRIMARIA MUNICIPIULUI BUCURESTI				
		SCHOOL NAME/ NOME SCOLA	General School no. 310 / Scoala Generala nr. 310 SPORT HALL / SALA DE SPORT		
DESIGNED BY PROIECTAT	NAME/ NOME	SIGNAT/SEMNATURA	TYPE OF WORKS/ LUKORNE	HEATING AND VENTILATION DESIGN / INSTALATIE DE INCALZIRE SI VENTILATIE	
VERIFIED BY VERIFICAT	ing. Florian DUTĂ			UPRISES SCHEME SCHEMA COLOANELOR	
PROJ. DIR. SEF PROIECT	enr. Sorin ICHIM		TITLE/ PLANSA		
DATE/ DATA	02/2007	SCALE/ SCALA	1 : 50	EXEMPLAR NR.	PROJ. PHASE/FAZA PROIECT Detailed Design Proiect tehnic
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B-T/V - 003