

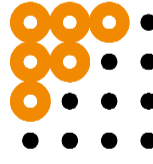


- HEATING SERVICES NOTES:

- CONTRACTOR TO SUBMIT DESIGN HEAT OUTPUT CALCULATIONS FOR THE UFH.
2. ALL PRIMARY HEATING PIPEWORK SHALL BE INSTALLED IN COPPER PIPEWORK TO BS EN 1507-R250 WITH CAPILLARY FITTINGS AND INSULATED WITH CLOSED CELL FLEXIBLE POLYETHYLENE COMPLETE WITH PROPRIETARY FORMED BENDS.
3. EXTERNAL HEATING PIPEWORK SHALL BE INSULATED USING CLOSED CELL ARMAFLEX TUFFCOAT OUTDOOR PIPE INSULATION.
4. ALL SERVICES SHALL BE CONCEALED WHERE POSSIBLE. WHERE EXPOSED SERVICES SHALL BE AS UNOBTRUSIVE AS POSSIBLE INCLUDING ANY VISIBLE SUPPORTS.
5. PIPEWORK AND COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS FOR EASE OF MAINTENANCE. VALVES AND VENTS SHALL BE LOCATED FOR EASE OF SAFE ACCESS AND TO PREVENT ANY UNDUE RELEASE OF WATER.
6. NO DIAGONAL PIPEWORK RUNS SHALL BE PERMITTED IN WALLS.
7. EXPOSED UNINSULATED PIPEWORK SHALL BE GLOSS PAINTED WHITE.
8. SYSTEM MAXIMUM WORKING PRESSURE TO BE 3.0BAR
9. FIRST FIX PRESSURE TESTING: PIPEWORK AND FITTINGS ONLY. TEST WITH WATER AT A MAXIMUM 20C USING TEST PRESSURE OF 4.5BAR APPLIED FOR 1 HOUR IN ACCORDANCE WITH BS6700 & BS EN 806.
10. ALL ISOLATION VALVES TO BE QUARTER TURN WITH BUTTERFLY HANDLES.
11. DRAIN COCKS SHALL BE FITTED AT ALL LOW POINTS AND AIR VENTS AT HIGH POINTS.
12. PROGRAMMABLE ROOM HEATING CONTROLLERS TO BE LOCATED ADJACENT ASSOCIATED ROOM LIGHT SWITCH. PROGRAMMABLE HOT WATER CONTROLLER TO BE WITHIN CYLINDER CUPBOARD.

- NOTES:

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH MECHANICAL, ELECTRICAL & PUBLIC HEALTH DRAWINGS, SPECIFICATIONS & SCHEDULES.
4. THIS DRAWING SHALL NOT BE RELIED UPON BY THE CONTRACTOR AS A DESIGN DRAWING. THIS DRAWING HAS BEEN PRODUCED FOR DESIGN INTENT PURPOSES ONLY. ANY PROCUREMENT OR INSTALLATION BASED ON THIS DRAWING IS AT THE CONTRACTORS RISK.
5. THE LOCATION/POSITION OF ALL PLANT AND ASSOCIATED SERVICES SHALL BE FULLY CO-ORDINATED WITH THE ARCHITECT/INTERIOR DESIGNER, STRUCTURAL & OTHER SPECIALIST/TRADES DRAWINGS.
6. ALL SERVICES SHALL BE INSTALLED NEAT & LEVEL PARALLEL TO ADJACENT SURFACES, IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES & SHALL TAKE DUE ACCOUNT OF THE STRUCTURE.
7. ALL PLANT LOCATIONS AND SERVICE ROUTES ARE INDICATIVE AND SHALL NOT BE RELIED UPON. ALL PLANT LOCATIONS & SERVICE ROUTE SETTING OUT, LEVELS & DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO ORDERING AND MANUFACTURE/FABRICATION OF ALL PLANT AND SERVICES.
8. INTUMESCENT SEALS & FIRE DAMPERS ETC. SHALL BE PROVIDED AS REQUIRED TO ALL PIPEWORK & DUCTWORK SERVICES WHICH PASS THROUGH ROOF/CEILING/WALLS/FIRE COMPARTMENTS & SHALL BE FIRE STOPPED TO MAINTAIN THE FIRE INTEGRITY OF THE STRUCTURE.
9. ALL PLANT & EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILING & ADEQUATELY SUPPORTING/FIXING ALL PLANT & ASSOCIATED SERVICES.
11. ADEQUATE ACCESS AND/OR ACCESS PANELS SHALL BE PROVIDED FOR TESTING, SERVICING AND MAINTENANCE OF ALL BUILDING SERVICES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

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<b>Engineering Sustainability</b>		
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