

HOT AND COLD WATER SERVICES INSTALLATION NOTES

STANDARD 2.1.14 - OPENINGS AND SERVICE PENETRATIONS - WHERE PIPEWORK PASSES FROM ONE FIRE PROTECTED ZONE TO ANOTHER, THE PIPEWORK SHALL BE SLEEVED USING PVC PIPE. THE ANNULAR SPACE BETWEEN THE PIPEWORK AND THE SLEEVE SHALL BE SEALED AT BOTH ENDS WITH A FLEXIBLE FIRE RESISTANT COMPOUND. FURTHERMORE, UPON INITIATION OF THE FIRE ALARM SYSTEM, ALL PLANT SHALL CEASE TO FUNCTION IMMEDIATELY. THE PLANT SHALL REMAIN INOPERATIVE UNTIL THE RESETTING OF THE FIRE ALARM SYSTEM.

STANDARD 4.9.4 - DISCHARGE FROM UNVENTED HOT WATER STORAGE SYSTEMS -DISCHARGE FROM PRESSURE AND TEMPERATURE RELIEF VALVES SHALL BE IN ACCORDANCE WITH THIS STANDARD.

STANDARD 4.9.5 - HOT WATER DISCHARGE FROM SANITARY FITTINGS - THE HOT WATER SUPPLY TEMPERATURE AT HOT WATER OUTLETS IN THE DISABLED W.C. SHALL BE RESTRICTED TO A 'SAFE TEMPERATURE' BY THE USE OF THERMOSTATIC MIXING VALVES IN ACCORDANCE WITH BS EN 1111 (1999). 'SAFE' HOT WATER TEMPERATURES SHALL BE IN ACCORDANCE WITH NHS ESTATES HEALTH GUIDANCE NOTE "SAFE' HOT WATER AND SURFACE TEMPERATURES'. FURTHERMORE, ALL HOT AND COLD WATER INSTALLATIONS SHALL COMPLY FULLY WITH THE WATER BYELAWS 2000 (SCOTLAND); BS 6700 AND 'HSE APPROVED CODE OF PRACTICE AND GUIDANCE L8 - THE CONTROL OF LEGIONELLA BACTERIA IN WATER SYSTEMS' TO MINIMISE THE RISK OF CONTAMINATION BY LEGIONELLA.

STANDARD 6.3.8 - DOMESTIC HOT WATER HEATING CONTROLS - THE HOT AND COLD WATER SERVICES INSTALLATION SHALL HAVE CONTROLS IN ACCORDANCE WITH THIS STANDARD AND C.I.B.S.E GUIDE H - BUILDING CONTROL SYSTEMS.

STANDARD 6.4.1 - INSULATION OF PIPES AND DUCTS - ALL PIPEWORK AND DOMESTIC WATER STORAGE VESSELS SHALL BE INSULATED THERMALLY IN ACCORDANCE WITH BS 5422 (2009). ALL INSULATION TO ONLY BE APPLIED TO DRY PIPEWORK AND TO ITSELF BE COMPLETELY DRY. THE INSULATION SHALL BE SECURELY ATTACHED TO PIPEWORK WITH AN APPROVED ADHESIVE.

STANDARD 6.4.2 - INSULATION OF VESSELS - THE HOT WATER STORAGE VESSEL SHALL BE INSULATED TO PREVENT HEAT LOSS IN ACCORDANCE WITH THIS STANDARD.

STANDARD 6.7.1 - INSPECTION AND COMMISSIONING - PRIOR TO COMMISSIONING, THE HOT AND COLD WATER SERVICES INSTALLATION SHALL BE FLUSHED THROUGH IN ACCORDANCE WITH THE GUIDANCE PROVIDED IN B.S.R.I.A APPLICATION GUIDE 1/2001.1. THE HOT AND COLD WATER SERVICES INSTALLATION SHALL BE COMMISSIONED IN ACCORDANCE WITH B.S.R.I.A APPLICATION GUIDE AG 2/89.3 -COMMISSIONING WATER SYSTEMS AND C.I.B.S.E COMMISSIONING CODE W.

STANDARD 6.8.1 - LOGBOOK INFORMATION - ON COMPLETION OF THE WORKS, THE OCCUPIER SHALL LEFT WITH 1NO. COPY OF ALL MANUFACTURERS OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH

ITEM OF EQUIPMENT INSTALLED DURING THE WORKS. ALL OPERATION AND MAINTENANCE MANUALS RELEVANT TO THE HOT AND COLD WATER SERVICES INSTALLATION SHALL BE COMPILED AND HANDED OVER TO THE OCCUPIER ON COMPLETION OF ALL COMMISSIONING. THE CONTENTS AND ITS PRESENTATION SHALL BE IN ACCORDANCE WITH C.I.B.S.E TM31.

GENERALLY:

- ALL PIPEWORK SHALL HAVE IDENTIFICATION BANDS AND DIRECTIONAL ARROWS IN ACCORDANCE WITH BS 1710 (1984).
- ALL SERVICE ROUTES TO BE CONCEALED WITHIN BUILDLING FABRIC UNLESS AGREED WITH THE CA.
- FINAL SPECIFICATION AND POSITIONS OF ALL EQUIPMENT AND SANITARY WARE TO BE CONFIRMED BY CA.
- FINAL SERVICE ROUTES TO BE CONFIRMED BY CA.
- VISIBLE TAILS FROM SANITARY WARE TO BE KEPT TO A MINIMUM LENGTH. • PIPEWORK RUNNING IN VOIDS OUT WITH THE INSULATION ENVELOPE TO BE TRACE HEATED TO PREVENT FREEZING.



TYPICAL THERMOSTATIC MIXING VALVE (TMV) INSTALLATION 15mm connections MCWS unless otherwise THWS stated HWR –10°0 WHB o RV HWR connection to be within 0.5m of TMV

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RAWING LEGEND		
		PIPEWORK WITHIN CEILING VOID
- · ·	· · <u> </u>	HIGH LEVEL PIPEWORK
		LOW LEVEL PIPEWORK
		PIPEWORK WITHIN FLOOR VOID
		CHANGE IN PIPEWORK LEVEL
		MAIN COLD WATER SUPPLY (MCWS)
		BOOSTED / TANK COLD WATER SUPPLY (BCWS / TCWS)
		HOT WATER SUPPLY (HWS)
		HOT WATER RETURN (HWR)
		TMV WATER SUPPLY
区		ISOLATION VALVE (IV) / REGULATION VALVE (RV) THERMOSTATIC MIXING
		NON RETURN VALVE (NRV)
		DOUBLE CHECK VALVE (DCV)
Χ		PRESSURE REDUCING VALVE (PRV)
x ₹		DRAINCOCK TEMPERATURE & PRESSURE RELIEF VALVE (T&PRFV)
		CIRCULATING PUMP
P		PRESSURE GAUGE
- 2		DOUBLE REGULATION VALVE (DRV)
W		FLEXIBLE CONNECTION
P		TEMPERATURE SENSOR
þ		AUTOMATIC AIR VENT (AAV)
		PLANT
-	•	BCWS / TCWS OUTLET
	•	HWS OUTLET
-	•	MCWS OUTLET
-	•	TMV OUTLET
RTA		RISE TO ABOVE
RFB		RISE FROM BELOW
DTLL		DROP TO LOW LEVEL
DFA		DROP FROM ABOVE

