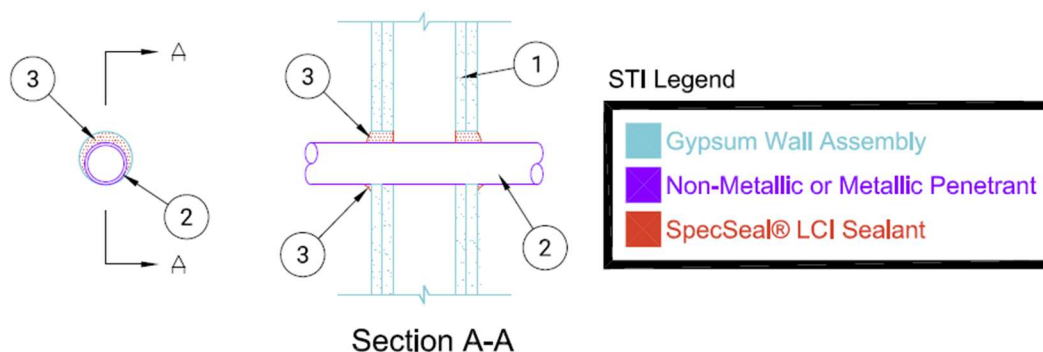


QAI DESIGN F505-D-4 – SPECIFIED TECHNOLOGIES INC. (STI)

CAN/ULC S115 / ASTM E814 - WALL DESIGN

PENETRATION TYPE	RATING MINUTES					
	ASTM E814		CAN/ULC S115 (2.5 Pa)			
	F	T	F	FH	FT	FTH
2(a) Sch 40 PVC	120	15	120	120	15	15
2(b) Sch 40 XFR PVC	120	15	120	120	15	0
2(c) Sch 40 NAPSYS-HR PVC	0	0	120	0	60	0
2(d) SDR 11 Aquarise CPVC	120	120	120	120	120	120
2(e) SDR 11 CPVC	120	120	120	120	120	120
2(f) SDR 9 PEX	0	0	120	0	15	0
2(g) Aluminum EMT	0	0	120	0	0	0



No.	COMPONENT	DESCRIPTION
1	Substrate	Type: 2-hour wood or steel stud and gypsum wall assembly designed and installed in accordance with the applicable code.
		Opening: 2(a,b,c,d,e,g) Max 76 mm (3 in.) diameter 2(f) Max 64 mm (2.5 in.) diameter
2	Penetration	Approved Penetrations: (a) Schedule 40 Polyvinyl Chloride (PVC) Pipe – Open System (b) Schedule 40 XFR Polyvinyl Chloride (PVC-XFR) Pipe – Open System (c) Schedule 40 NAPSYS-HR Polyvinyl Chloride (PVC-HR) Pipe – Open System (d) SDR11 Aquarise Chlorinated Polyvinyl Chloride (CPVC) – Open System (e) SDR11 Chlorinated Polyvinyl Chloride (CPVC) – Open System (f) SDR 9 Cross Linked Polyethylene (PEX) Tubing – Open System (g) Aluminum Electrical Metallic Tubing (EMT)
		Penetration Size: Maximum 51 mm (2 in.) diameter.
		Installed Annular Space: (a,b,c,d,e) 0 mm (0 in., point contact) to 16 mm (0.63 in.) (f) 0 mm (0 in., point contact) to 22 mm (0.88 in.) (g) 0 mm (0 in., point contact) to 21 mm (0.83 in.)
		Installation: Penetration to be installed eccentrically or concentrically within the openings. Penetration is required to be rigidly supported on both sides of the wall assembly.
3	Firestop System	Approved Firestop: SpecSeal® LCI Sealant.
		Installation: SpecSeal® LCI Sealant is applied at min 32 mm (1-1/4 in.) depth installed into the opening filling the gap around the penetrant and built up to a nom 6 mm (1/4 in.) past the surface of the wall on both sides of the wall. 6 mm (1/4 in.) diam bead of sealant installed at point contact locations.

Note: Installation is to be in accordance with the above design listing, the applicable code, and the manufacturer's installation instructions for ensuring ratings noted are achieved.