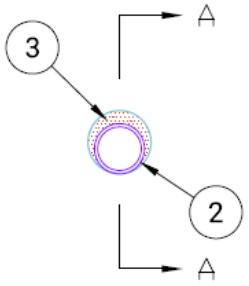
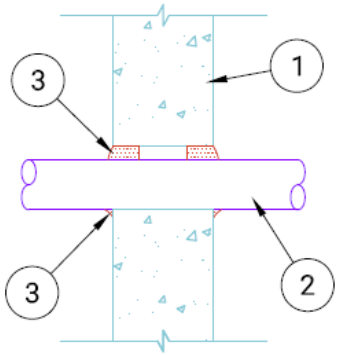
QAI DESIGN F505-A-4 – SPECIFIED TECHNOLOGIES INC. (STI)

CAN/ULC S115 / ASTM E814 - WALL DESIGN

PENETRANT 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





Section A-A



No.	COMPONENT	DESCRIPTION	
1	Substrate	Type:	Minimum 127 mm (5 in.) thickness reinforced concrete wall, or concrete block wall designed and installed in accordance with the applicable code.
		Opening:	2(a,b,c,d,e,g) Maximum 76 mm (3 in.) diameter 2(f) Maximum 64 mm (2.5 in.) diameter
2	Penetrant	Approved Penetrants:	(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)
		Penetrant 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 (0.87 in.) (g) 0 mm (0 in., point contact) to 21 mm (0.83 in.)
		Installation:	Penetrant to be installed eccentrically or concentrically within the openings. Penetrant is required to be rigidly supported on both sides of the wall assembly.

No.	COMPONENT	DESCRIPTION	
3	Firestop System	Approved Firestop:	SpecSeal® LCI Sealant.
		Installation:	SpecSeal® LCI Sealant is applied at minimum 32 mm (1-1/4 in.) depth installed into the opening filing 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.
4	Packing Material (Optional Not Shown)	Type:	Polyethylene backer rod, mineral wool, glass fiber batt or ceramic fiber.
		Installation:	Packing material is approved for friction fit into annular space.

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.