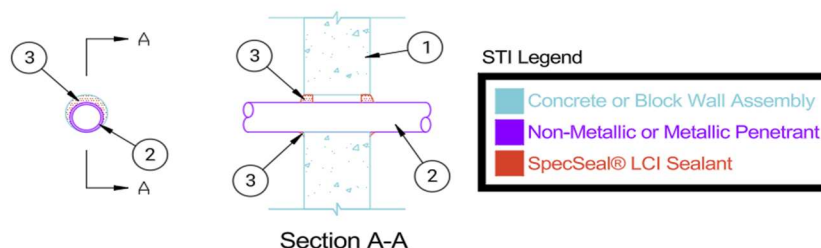


**QAI DESIGN F505-A-3 – SPECIFIED TECHNOLOGIES INC. (STI)**  
**CAN/ULC S115 - WALL DESIGN**

| PENETRATION TYPE          | RATING MINUTES        |    |    |     |
|---------------------------|-----------------------|----|----|-----|
|                           | CAN/ULC S115 (2.5 Pa) |    |    |     |
|                           | F                     | FH | FT | FTH |
| 2(a) Sch 40 PVC           | 60                    | 0  | 45 | 0   |
| 2(b) Sch 40 XFR PVC       | 60                    | 0  | 45 | 0   |
| 2(c) Sch 40 NAPSYS-HR PVC | 60                    | 0  | 15 | 0   |
| 2(d) SDR11 Aquarise CPVC  | 60                    | 0  | 45 | 0   |
| 2(e) SDR 11 CPVC          | 60                    | 0  | 45 | 0   |
| 2(f) SDR 9 PEX Tubing     | 60                    | 0  | 60 | 0   |
| 2(g) Aluminum EMT         | 60                    | 0  | 0  | 0   |



| No. | COMPONENT                                | DESCRIPTION              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Substrate                                | Type:                    | Min 127 mm (5 in.) thickness reinforced concrete wall, or concrete block wall designed and installed in accordance with the applicable code.                                                                                                                                                                                                                                                                                                                                 |
|     |                                          | Opening:                 | (a,b,c,d,e,g) Max 76 mm (3 in.) diameter<br>(f) Max 64 mm (2.5 in.)                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2   | Penetration                              | Approved Penetrations:   | (a) Schedule 40 Polyvinyl Chloride (PVC) Pipe – Open System<br>(b) Schedule 40 XFR Polyvinyl Chloride (PVC-XFR) Pipe – Open System<br>(c) Schedule 40 NAPSYS-HR Polyvinyl Chloride (PVC-HR) Pipe – Open System<br>(d) SDR11 Aquarise Chlorinated Polyvinyl Chloride (CPVC) – Open System<br>(e) SDR11 Chlorinated Polyvinyl Chloride (CPVC) – Open System<br>(f) SDR 9 Cross Linked Polyethylene (PEX) Tubing – Open System<br>(g) Aluminum Electrical Metallic Tubing (EMT) |
|     |                                          | Penetration Size:        | (a,b,c,d,e,g) Maximum 51 mm (2 in.) diameter<br>(f) Maximum 38 mm (1.5 in.) diameter                                                                                                                                                                                                                                                                                                                                                                                         |
|     |                                          | Installed Annular Space: | (a,b,c,d,e) 0 mm (0 in., point contact) to 16 mm (0.63 in.)<br>(f) 0 mm (0 in., point contact) to 22 mm (0.87 in.)<br>(g) 0 mm (0 in., point contact) to 21 mm (0.83 in.)                                                                                                                                                                                                                                                                                                    |
|     |                                          | Installation:            | Penetration to be installed eccentrically or concentrically within the openings.<br>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 16 mm (5/8 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.                                                                                                                                                                         |
| 4   | Packing Material<br>(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.

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