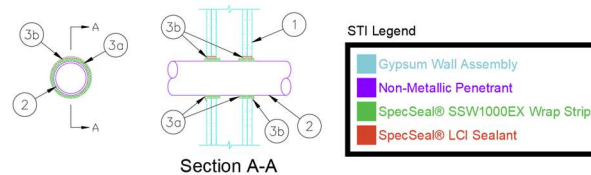


**QAI DESIGN F505-D-8 – SPECIFIED TECHNOLOGIES INC. (STI)**

**CAN/ULC S115 - WALL DESIGN**

| PENETRATION TYPE                                           | SPECSEAL®<br>LCI DEPTH | RATING MINUTES        |    |     |     |
|------------------------------------------------------------|------------------------|-----------------------|----|-----|-----|
|                                                            |                        | CAN/ULC S115 (2.5 Pa) |    |     |     |
|                                                            |                        | F                     | FH | FT  | FTH |
| 2(a) 4" CPVC or<br>Aquarise CPVC or<br>Schedule 80 PVC     | 16 mm (5/8")           | 60                    | 0  | 60  | 0   |
| 2(b) Max 3" CPVC or<br>Aquarise CPVC or<br>Schedule 80 PVC | 16 mm (5/8")           | 60                    | 0  | 30  | 0   |
| 2(a) 4" CPVC or<br>Aquarise CPVC or<br>Schedule 80 PVC     | 32 mm (1-1/4")         | 120                   | 0  | 45  | 0   |
| 2(b) 3" CPVC or<br>Aquarise CPVC or<br>Schedule 80 PVC     | 32 mm (1-1/4")         | 120                   | 0  | 120 | 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:                 | Max 140 mm (5.5 in.) diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2   | Penetration     | Approved Penetrations:   | CPVC SDR11 Pipe or Schedule 80 – Open System<br>CPVC Aquarise SDR11 Pipe – Open System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|     |                 | Penetration Size:        | Maximum 102 mm (4 in.) diameter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|     |                 | Installed Annular Space: | (a) For 102 mm (4 in.) pipes, 10 mm (3/8 in.) minimum and 16 mm (5/8 in.) maximum.<br>(b) For 76 mm (3 in.) pipes (or smaller), 5 mm (3/16 in.) minimum and 8 mm (5/16 in.) maximum.                                                                                                                                                                                                                                                                                                                                                                                                                                |
|     |                 | Installation:            | Penetrant to be installed within the opening. Penetrant required to be rigidly supported on both sides of the wall assembly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3   | Firestop System | Approved Firestop:       | (a) SpecSeal® SSW1000EX Wrap Strip<br>(b) SpecSeal® LCI Sealant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |                 | Installation:            | SpecSeal® SSW1000EX wrapped around pipe and held in place with tape. Wrap strip to protrude 6 mm (1/4 in.) past the surface of the wall on both sides of the wall.<br>For 102 mm (4 in.) pipes - 2 layers of SpecSeal® SSW1000EX<br>For 76 mm (3 in.) pipes (or smaller) – 1 layer of SpecSeal® SSW1000EX<br>SpecSeal® LCI Sealant is installed into the opening filling the gap around the penetrant on both sides of the wall. Sealant applied at min 16 mm (5/8 in.) depth for a 1-hour rating or 1-1/4 in. for a 2-hour rating. 6 mm (1/4 in.) diam bead of sealant installed at wrap strip and wall interface. |

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.