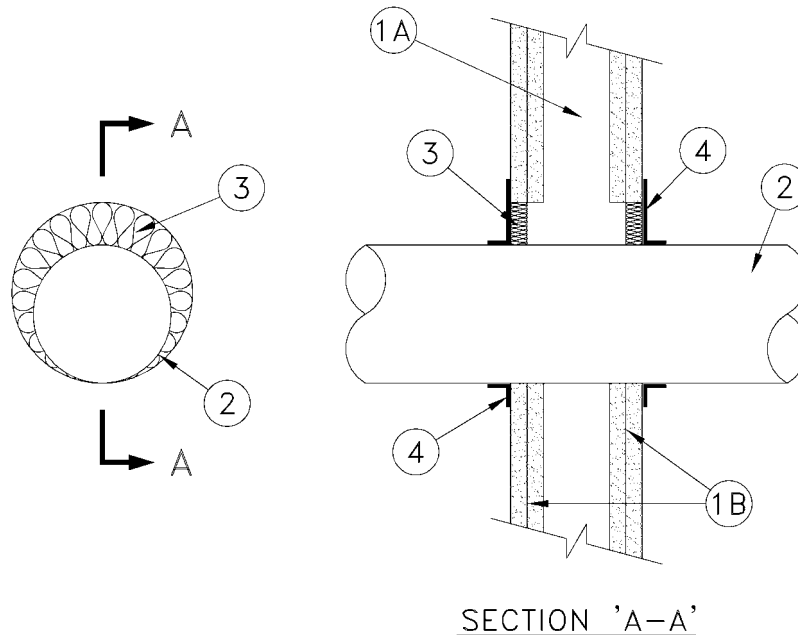


**ULC SYSTEM No. SP1080  
(For Vertical Separations)**

**F Ratings** - 1 and 2 h (See Item 1)  
**FH, FT and FTH Ratings** - 0 h



**1. Wall Assembly** – The 1 or 2 h fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual Wall or Partition designs in the Underwriters' Laboratories of Canada Fire Resistance Directory and shall include the following construction features:

**(a) Studs** – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 50 mm by 102 mm lumber spaced 405 mm OC. Steel studs to be minimum 92 mm wide and spaced maximum 600 mm OC. When steel studs are used and the diameter of the opening exceeds the width of the stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 100 to 150 mm wider and higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 50 to 75 mm clearance is present between the penetrating item and the framing on all four sides.

**(b) Wallboard, Gypsum** – Nominal 16 mm thick, 1220 mm wide with square or tapered edges. The gypsum wallboard type, fastener type and sheet orientation shall be as specified in the individual wall or partition design. Maximum diameter of opening is 635 mm for steel stud walls. Maximum diameter of opening in wood stud walls is 368 mm.

**2. Metal Pipe or Conduits** – One pipe to be installed either concentrically or eccentrically with the firestop system. The annular space shall be minimum 0 mm (point contact) to maximum 25.4 mm. The following types and sizes of pipes, conduits or tubing may be used:

**(a) Steel Pipe** – Nominal 600 mm diameter (or smaller) Schedule 10 (or heavier) steel pipe.

**(b) Iron Pipe** – Nominal 600 mm diameter (or smaller) cast or ductile iron pipe.

**(c) Conduit** – Nominal 150 mm diameter (or smaller) steel electrical metallic tubing or steel conduit.

**(d) Copper Pipe or Tubing** – Nominal 150 mm diameter (or smaller) Type L (or heavier) copper tubing.

**3. Batts and Blankets** – Mineral wool insulation, Type "A/D FIREBARRIER Mineral Wool", compressed 50% and installed to a minimum thickness of 16 mm flush with the outside surface of the wall. The insulation is installed on both sides of the wall.

• **4. Firestop System Components** – XHJZC (Guide No. 40 U19.13). Type "A/D FIREBARRIER Seal NS" applied to top of mineral wool insulation to a minimum wet depth of 3.2 mm. Additional material applied to overlap gypsum wall and pipe surface by 13 mm. Sealant to be applied on both sides of wall.

A/D FIRE PROTECTION SYSTEMS INC.