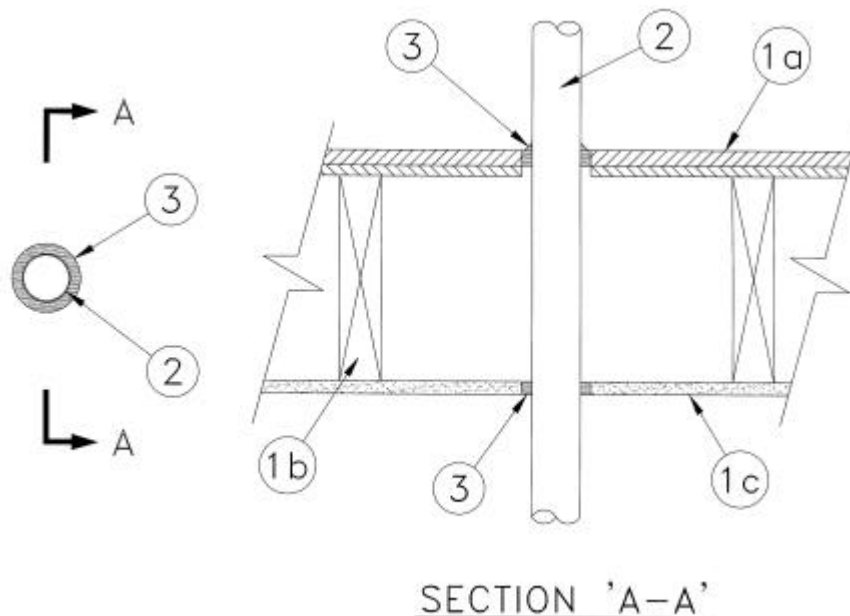


**ULC SYSTEM No. SP969
(For Horizontal Separations)**

F, FH, FT and FTH Ratings – 1 h



1. Floor-Ceiling Assembly – The 1 h fire rated wood joist, floor-ceiling assembly shall be constructed of materials and in the manner specified in the ULC List of Equipment and Materials, Fire Resistance. The general construction details of the floor-ceiling assembly shall include the following:

(a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or floor topping mixture, as specified in the individual Floor-Ceiling Design. Maximum diameter of floor opening is 74 mm.

(b) Wood Joist – Nominal 50 by 250 mm lumber joist spaced 406 mm OC with nominal 25 by 75 mm lumber bridging and with ends firestopped.

(c) Wallboard, Gypsum – Nominal 1219 mm wide by 16 mm thick as specified in the individual Floor-Ceiling Design. Maximum diameter of ceiling opening is 74 mm.

1.1 Chase Wall (Not shown, optional) – The through penetrant (Item 2) shall be routed through a fire-rated single, double, or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual Wall and Partition Designs in the ULC List of Equipment and Materials, Fire Resistance, and shall include the following construction features:

(a) Studs – Nominal 50 mm x 152 mm or double nominal 50 mm x 102 mm lumber studs.

(b) Sole Plate – Nominal 50 mm x 152 mm or parallel 50 mm x 102 mm lumber studs. Maximum diameter of opening is 74 mm.

(c) Top Plate – The double top plate shall consist of two nominal 50 mm x 152 mm or two sets of parallel 50 mm x 102 mm lumber. Maximum diameter of opening is 74 mm.

(d) Wallboard, Gypsum – Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design. When double stud construction is used, each

stud cavity containing a pipe (Item 2) shall be lined with wallboard such that the pipe is surrounded on four sides by wallboard.

2. Non-Metallic Pipe – Intended for use in closed (process or supply) piping systems. The following types and sizes of non-metallic pipes may be installed in the through-opening. Size of opening to be such that an annular space around the penetrating item is maximum 12 mm.

(a) Polyvinyl Chloride (PVC) Pipe – Nominal 60 mm OD (or smaller) Schedule 40 solid core PVC pipe installed with a minimum annular space of 2 mm.

(b) Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nominal 60 mm OD (or smaller) Schedule 40 solid core CPVC pipe installed with a minimum annular space of 2 mm.

(c) Acrylonitrile Butadiene Styrene (ABS) Pipe – Nominal 60 mm OD (or smaller) Schedule 40 solid core ABS pipe installed with a minimum annular space of 2 mm.

• **3. Firestop System Components** – (Guide No. 40 U19.13). "A/D FIREBARRIER Intumescent Caulk" applied within the annular space between pipe and floor to a minimum depth of 19 mm. Caulk applied within annular space between pipe and ceiling assembly to a minimum depth of 16 mm. Additional material installed to form a crown bead of minimum 3.2 mm around perimeter of pipe at floor assembly.

A/D FIRE PROTECTION SYSTEMS INC.