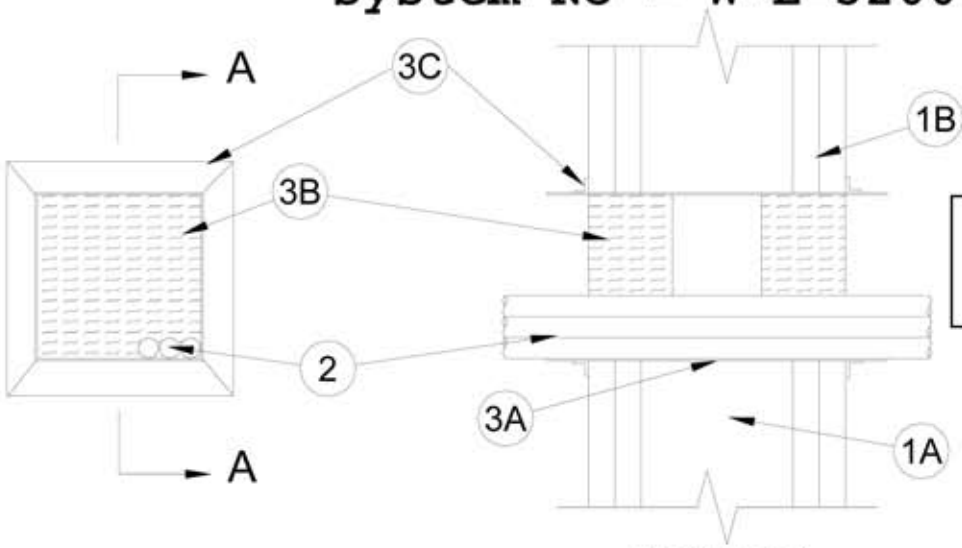
Through-Penetration Firestop System

System No - W-L-3260



SECTION A-A

F Rating - 1 & 2 Hr

T Rating - 0 Hr

1. **Wall Assembly** – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** – Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.

B. **Gypsum Board*** – Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual design. Max dimensions of opening are 4 in. by 4 in.

The hourly F Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Cables** – Aggregate cross-sectional area of cables in opening of firestop device (see item 3A) to be max 5 percent of the aggregate cross-sectional area of the device opening. Cables to be installed either concentrically or eccentrically within the device openings. The annular space shall be min 0 in. (point contact) to max 3-1/2 in. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:

A. Max 12/C No. 18 AWG (or smaller) cable with PVC insulation and jacket.
B. Max 3/C No. 12 AWG (or smaller) with PVC insulation and jacket.
C. Max 4 pair No. 24 AWG (or smaller) data cable with PVC insulation and jacket.
D. Max 3 pair No. 2 AWG (or smaller) with PVC jacket and insulation.

3. **Firestop System** – The firestop system shall consist of the following:

A. **Firestop Device*** – Galvanized steel cable transit interior-lined with an intumescent material sized to fit specific size of the opening installed in accordance with accompanying installation instructions.

ABESCO LTD – CT120 Transit

B. **Packing Material** – Min 2 in. thickness of nom 4.0 pcf mineral wool batt insulation firmly packed into the annulus between the cables and the transit flush with both surfaces of wall.

C. **CT Mounting Flange** – CT Mounting flange factory fabricated from min 5/8 in. by 5/8 in. min 20 gauge galv steel. CT Mounting Flange to be secured around the Firestop device on both sides of the wall by friction fitting using nut and bolt provided with flange.

*Bearing the UL Classification Mark