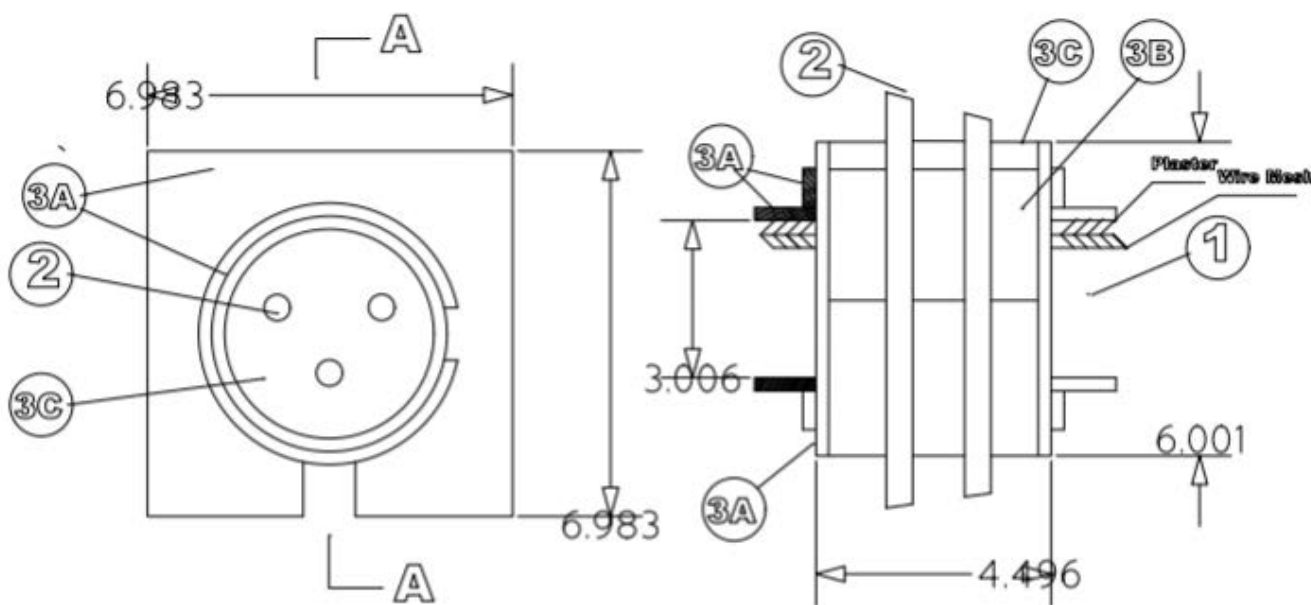




Unique Fire Stop Products

UL XHEZ. System #F-A-3019
Unique Fire Stop Products - Split Sleeve / Threaded Firestop



1. Floor Assembly — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory:

- A. Concrete Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete.
- B. Welded Wire Fabric w/masonry 6 x 6 - W1.4 x W1.4
- C. Steel Floor and form Units* Composite or noncomposite 3 in. deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor (5 inch's)

2. Cables — Aggregate cross-sectional area of cables within opening to be min 8 percent to max 48 percent of the aggregate cross-sectional area of the opening.

Cables to be rigidly supported on both sides of floor assembly. Any combination of the following types and sizes of cables may be used:

- A. Max 200 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
 - B. Max 1/C - 750 kcmil power cable with copper conductors and cross-linked polyethylene (XLPE) jacketing.
 - C. Max 3/C No. 3/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacketing.
 - D. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors and PVC insulation and jacketing.
 - E. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE or PVC jacket.
 - F. Max RG/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
 - G. Max 62.5/48 fiber optic cable with PVC insulation and jacketing.
 - H. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar insulation and jacketing.
- Cable types are a representation of common cables.

Firestop System — The firestop system shall consist of the following:

A. **Firestop Device*** — Threaded steel halves incorporating split nuts and split washers sized to fit the specific diam of the opening. Device shall be installed around cables in accordance with the accompanying installation instructions. Device provided in nom 1, 2 and 4 in. (25, 51 and 102 mm) sizes. Max diam of opening in floor for nom 1, 2 and 4 in. (25, 51 and 102 mm) size device is 1-1/4, 2-7/16 and 4-1/2 in. (32, 62 and 114 mm), respectively.

UNIQUE FIRE STOP PRODUCTS INC — Split Sleeve

3. A1. **Firestop Device*** — (Not Shown) - As an alternate to Item 3A, threaded steel sleeve device incorporating flat washers secured by threaded couplers. Device shall be installed in accordance with the accompanying installation instructions. Device provided in nom 1, 2 and 4 in. (25, 51 and 102 mm) sizes. Max diam of opening in floor for nom 1, 2 and 4 in. (25, 51 and 102 mm) size device is 1-1/4, 2-7/16 and 4-1/2 in. (32, 62 and 114 mm), respectively.

UNIQUE FIRE STOP PRODUCTS INC — Threaded Firestop

B. **Packing Material** — Min 4 pcf (64 kg/m³) mineral wool batt insulation compressed and tightly packed to fill device to min 3 in. (76 mm) depth with a min 2 in. (51 mm) of the depth within the confines of the floor thickness. Packing material recessed from top edge of device as required to accommodate fill material (Item 3C).

C. **Fill, Void or Cavity Material* - Putty** — Min 1/2 in. (13 mm) thickness of fill material applied within annulus, flush with top edge of steel sleeve.

STI-SSP series

HILTI INC — CP 618

RECTORSEAL — FSP 1000 Putty. F rating is 2 Hr when this material is used.
Bearing the UL Classification Mark

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only Products which bear UL's Mark are considered as Classified, Listed, or Recognized.

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