



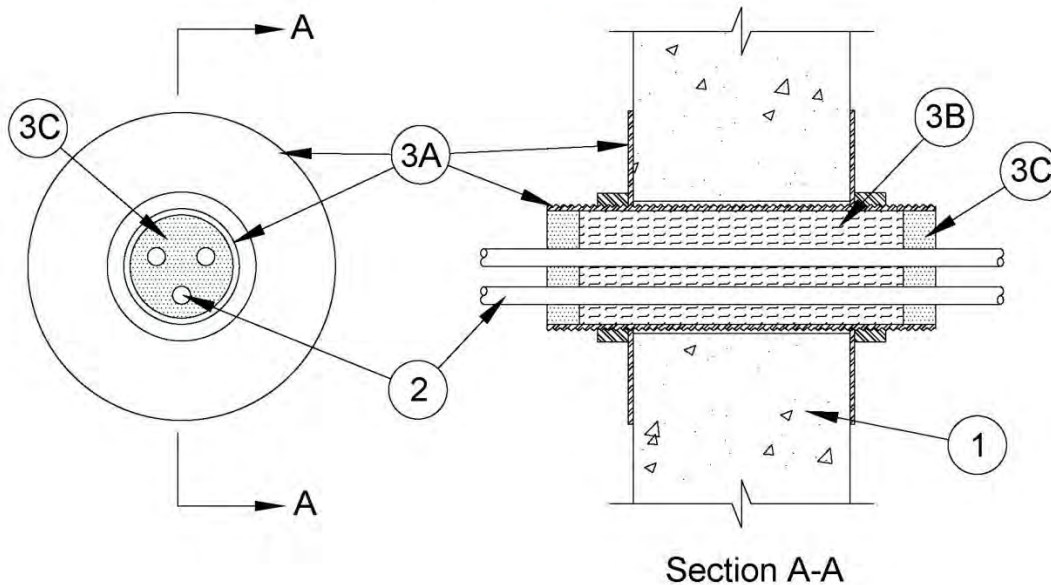
Unique Fire Stop Products

UL XHEZ.W-J-3112
Concrete 4 Hr. Through-Firestop System
using Unique Fire Stop Products - Threaded Firestop / Split Sleeve

Guide XHEZ
Through-Firestop Systems

April 26, 2006

System No. W-J-3112
F Rating - 4 Hr
T Rating - 0 Hr



1. **Wall Assembly** — Min 7-5/8 in. (194 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any nom 8 in. (203 mm) thick (or thicker) UL Classified **Concrete Blocks*** with Classification B-4.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cables** — Aggregate cross-sectional area of cables in sleeve to be min to 8 max 34 percent of the cross-sectional area of the sleeve. Cables to be tightly bundled. The annular space shall be min 1/4 in. (6 mm) to max 1-1/4 in. (32 mm) Cables to be rigidly supported on both surfaces of the wall assembly. Any combination of the following types and sizes of cables may be used:

- A. Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
- B. Max 62.5/48 fiber optic cable with PVC insulation and jacket.
- C. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC insulation and jacketing.

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

A. **Firestop Device*** — Threaded steel sleeve device incorporating flat washers secured by threaded couplers. 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 wall for 1, 2 and 4 in. (25, 51 and 102 mm) size devices are 1-1/4, 2-7/16 and 4-1/2 in. (32, 62 and 114 mm) respectively.

UNIQUE FIRE STOP PRODUCTS INC — Threaded Firestop

A1. **Firestop Device*** — (Not Shown) — As an alternate to the threaded sleeve device in Item 3A, threaded steel sleeve halves incorporating split nuts and split washers sized to fit the specific diam of the opening may be used. 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 wall for 1, 2 and 4 in. (25, 51 and 102 mm) size devices are 1-1/4, 2-7/16 and 4-1/2 in. (32, 62 and 114 mm) respectively.

UNIQUE FIRE STOP PRODUCTS INC — Split Sleeve

B. **Packing Material** — Min 4 pcf (64 kg/m³) mineral wool batt insulation firmly-packed into opening as a permanent form through full length of steel sleeve except for recess at each end of device to accommodate the required thickness of fill material.

C. **Fill, Void or Cavity Materials* - Putty** — Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with both ends of firestop device. Allowable fill materials: Hilti CP 618 Putty / Specified Technologies Inc. Spec Seal Putty / Rectorseal Metacaulk

HILTI INC — CP 618

RECTORSEAL-FSP 1000 putty. F rating is 2 HR when this material is used.

STI-SSP series

* 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.

Reprinted from the UL Online Certification Directory with permission from Underwriters Laboratories Inc.

Copyright © 2011 Underwriters Laboratories Inc. ®

Last Update: 2011-06-22