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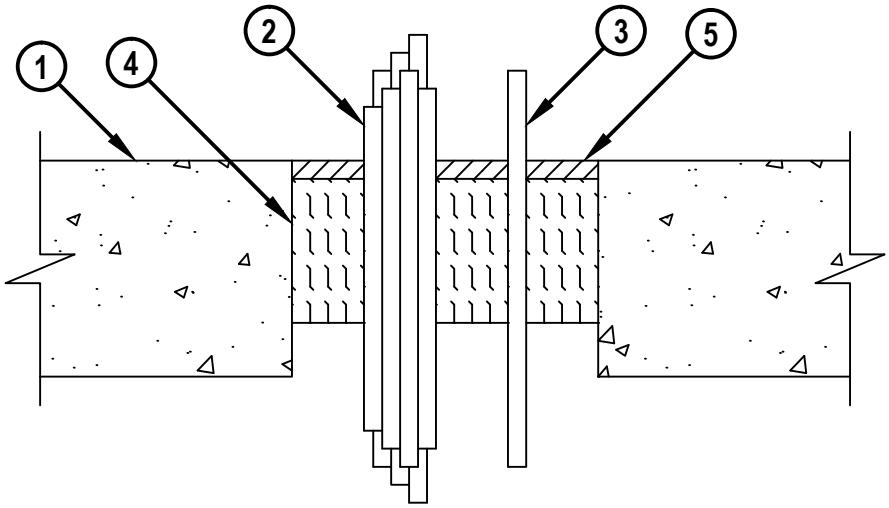
ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : ADDISON PLACE
CONTRACTOR : POWER DESGIN
F-RATING = 2-HR.

CROSS-SECTIONAL VIEW



1. CONCRETE FLOOR ASSEMBLY (MINIMUM 6" THICK) (2-HR. FIRE-RATING).
2. ONE OR MORE MAXIMUM 2" DIAMETER CABLE BUNDLE OR INDIVIDUAL CABLES CONSISTING OF ANY OF THE FOLLOWING :
   - A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   - B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET (COPPER CONDUCTOR).
   - C. MAXIMUM 350 KCMIL POWER CABLE WITH PVC JACKET (ALUMINUM OR COPPER CONDUCTOR).
   - D. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   - E. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER).
   - F. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
   - G. MAXIMUM 3/C (+GROUND) 2/0 AWG COPPER CONDUCTOR SER CABLE WITH PVC JACKET.
   - H. MAXIMUM RG/U COAXIAL CABLE WITH FLUORINATED ETHYLENE JACKET.
   - I. MAXIMUM 3/C NO. 6 AWG CABLE WITH PVC JACKET.
   - J. SER CABLES.
   - K. ANY CABLES, METAL-CLAD CABLES, OR ARMORED CABLES CURRENTLY LISTED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
3. ONE OR MORE MAXIMUM 3/4" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE SEALANT.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.

NOTES : 1. MAXIMUM SIZE OF OPENING = 36" x 6".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 5".

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED.
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-8143, C-AJ-8099 & C-AJ-3095)

HILTI Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000 *Designed by* Dakota Reid	*Sheet* 1 of 1 *Scale* 3/16" = 1" *Date* Nov. 08, 2018	*Drawing No.* 314044a

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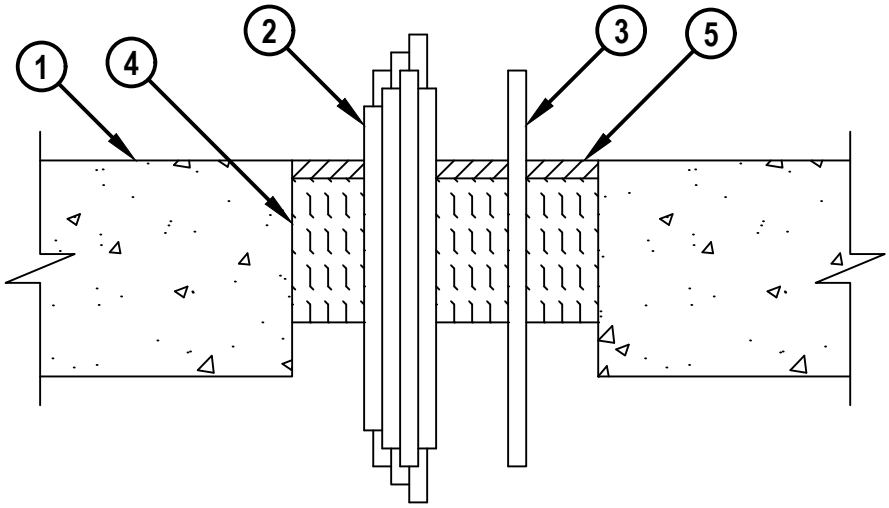
ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : ADDISON PLACE
CONTRACTOR : POWER DESGIN
F-RATING = 2-HR.

CROSS-SECTIONAL VIEW



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ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : ADDISON PLACE
CONTRACTOR : POWER DESGIN
F-RATING = 2-HR.

1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. FIRE-RATING) :
   - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   - B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 5" THICK).
   - C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. ONE OR MORE MAXIMUM 2" DIAMETER CABLE BUNDLE OR INDIVIDUAL CABLES CONSISTING OF ANY OF THE FOLLOWING :
   - A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   - B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET (COPPER CONDUCTOR).
   - C. MAXIMUM 350 KCMIL POWER CABLE WITH PVC JACKET (ALUMINUM OR COPPER CONDUCTOR).
   - D. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   - E. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (24 FIBER).
   - F. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
   - G. MAXIMUM 3/C (+GROUND) 2/0 AWG COPPER CONDUCTOR SER CABLE WITH PVC JACKET.
   - H. MAXIMUM RG/U COAXIAL CABLE WITH FLUORINATED ETHYLENE JACKET.
   - I. MAXIMUM 3/C NO. 6 AWG CABLE WITH PVC JACKET.
   - J. SER CABLES.
   - K. ANY CABLES, METAL-CLAD CABLES, OR ARMORED CABLES CURRENTLY LISTED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
3. ONE OR MORE MAXIMUM 3/4" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE SEALANT.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.

NOTES : 1. MAXIMUM SIZE OF OPENING = 36" x 6".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 5".
3. FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF WALL ASSEMBLY.

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED.
(REFERENCE : UL/cUL SYSTEM NO. C-AJ-8143, C-AJ-8099 & C-AJ-3095)

HILTI Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000 *Designed by* Jaeger Cyz	*Sheet* 2 of 2 *Scale* - *Date* Nov. 14, 2018	*Drawing No.* 314472a

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Specified Technologies Inc.

210 Evans Way
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Fax: (908) 231-8415
Toll Free: (800) 992-1180
Email:techserv@stifirestop.com
Website: www.stifirestop.com

REF: L33418001

November 30, 2018

Mr. Tyler Babb
Territory Manager
Specified Technologies, Inc.
P. 561-729-7600
E. tbabb@stifirestop.com

Dear Mr. Babb:

This letter is in response to the firestopping application you described below:

Project Name: Addison Place Building 1,2,3,4 & 5, Naples, FL

Contractor: All Fireshield and Insulation

Penetrating Item(s): Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

Assembly Penetrated: Roof-ceiling assembly (UL P522 Design)

Opening Size: Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

Hourly F Rating: 1 Hr

Annular Space: Per UL System Nos. Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

Special Conditions: Roof-ceiling assembly (UL P523 Design). Penetrants only penetrate celing.

SpecSeal® Firestop Product(s): Per UL System Nos. Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

Application Details: To firestop this application, follow the parameters of UL System Nos. Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

The described firestop design should achieve the stated rating when tested to ASTM E 814 (UL1479). This engineering judgment firestop system is based upon the testing that resulted in the

UL System(s): Per UL System Nos. F-C-2253, F-C-2032, F-C-2321, F-C-2004, F-C-2252 & F-C-1074

Prepared by:

Kevin Lang (Ext. 1006)
Advanced Applications Engineer