

NON-METALLIC CAST-IN-PLACE SLEEVE PS SERIES (PS-NP, PS-CP & PS-CN)

For use in Concrete floor assemblies with flat form decks and dust and fiber free environments such as hospitals, computer centers and laboratories

Product Description

- HydroFlame sleeves offer fire and water protection for a variety of pipe sizes and types that pass through concrete floors in multi-story buildings.
- These sleeves are delivered to the job site completely assembled and need only be fastened to the form deck for final installation.
- HydroFlame sleeves appreciably reduce job time and material expenses by not requiring additional steps, such as cutting and caulking.
- OSHA compliant safety cap

Nonmetallic Through Penetrants

½" - 6" pipe sizes: ABS, ccABS, PVC, CPVC, ccPVC, RNC & PEX

Product Feature & Benefits

- Simple and quick installation
- Snug fit holds pipe in place
- Helps prevent water, fire, smoke, moisture & mold intrusion
- Reduces time to finish building by allowing dry in of bottom floors faster
- Helps eliminate rework due to water damage
- Sleeves are pre-cut at the factory to your specified height

Not for use in Walls

Safety & Precautions

- Keep this device out of reach of children and read the Material & Safety Data Sheet

Storage of Device

- Store in a covered or closed area protected from weather
- Do not stack devices on top of one another other than how they are shipped from manufacture



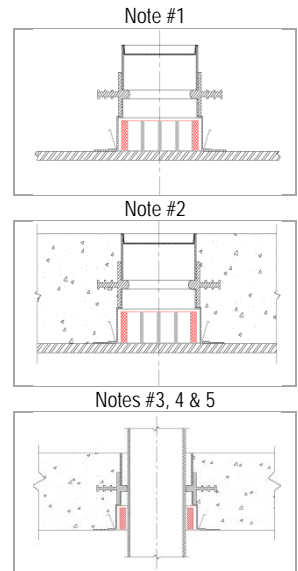
| Technical Data for HYDROFLAME Firestop Device | |
|--|--------------------------------------|
| Physical Properties | |
| Color: Gray/Black | |
| Heat Expansion (Intumescence) | |
| Expansion begins: | 410°F (210°C) |
| Significant expansion: | 555°F (290°C) |
| Free expansion: | 25 times (5 min @ 662°[350°C]) |
| Weatherability (Tested to ASTM G23 and G53) | |
| Test Condition | Temperature/Humidity 90°F (32°C)/90% |
| Time | 120 Days |
| After Exposure | No change in expansion |
| Surface Burning Characteristics (ASTM E84, UL 723) | |
| Flame spread index: 0 | |
| Smoke development index: 5 | |
| Testing Data | |
| UL Fire Tested & Listed to UL 1479 (ASTM E814) Standards | |
| L Rating UL | |
| W Rating UL | |
| F Rating UL – 3 Hours | |

Installation Instructions

- Select the correct sleeve for pipe type, size and concrete thickness. Align the hatch marks on lower base to layout lines on form deck to center the sleeve for the pipe that will penetrate through. Attach sleeve to deck with nails through the nail slots provided in the lower base. A minimum of four nails should be used when nailing down the device to form deck. Make sure the protective cap is securely inserted in the sleeve top before pouring concrete. **Note: It is recommended to use 6 penny nails through the nail slots to secure device to the deck. You may use appropriate staples to secure the device to form deck by straddling the nail slots on the edge of the base. DO NOT USE SCREWS TO SECURE THE DEVICE TO FORM DECK BECAUSE THE FORM DECK OR DEVICE COULD BE DAMAGED.** A Minimum of 4 holes should be used for nailing the sleeve to the wood form deck. Make sure the protective cap is securely inserted in the sleeve top before pouring concrete.
- Pour the concrete slab around the device to the appropriate slab thickness.
- As the form deck is removed after the appropriate concrete curing time has been accomplished, the nails can be pulled through the nail slots on the base, as designed. Remove the protective cap from the top portion of the device before inserting pipe.
- Prior to installation, thoroughly clean the outside of the pipe to be inserted through the sleeve. The pipe must be free of concrete, dirt, paint, rust or anything protruding from the outside of pipe including burrs of pipe material. Make sure the mid-body seal membrane is clean of all debris, dirt, concrete or anything that might have gotten on the mid-body seal membrane during or after construction that could damage the sealing surface of the mid-body seal membrane when the pipe is inserted through the mid-body seal. Failure to perform proper cleaning could damage the mid-body seal membrane of the sleeve when the pipe is installed.
- After cleaning the debris from the surface of the pipe, it can now be inserted through the device.

Recommendations:

 - Insert the pipe of choice up through the bottom of the device. Note: If circumstances arrive in the field, you may insert the pipe of choice down through the top of the device. Care should be taken to avoid coming in contact with the top of the fire ring tabs that hold the fire material in place in the lower section of the device.
 - Use of the factory beveled end of the cast iron or steel pipe should be inserted through the device, if not, cast iron or steel pipe shall have a slight bevel applied to the end of pipe being inserted through the device to ease installation and minimize the possibility of damaging the mid-body seal membrane.
 - Use a compatible soap solution or other recommended compatible lubricant to ease installation and further minimize the possibility of damaging the mid-body seal membrane. Lightly coating the mid-body seal center sealing surface will ease the insertion of pipe.
- To ensure that the water-tight feature of the W-Rated sleeving systems perform as required, it is recommended that piping be confirmed to be within manufacturer's specified dimensional tolerances, prior to installing the penetrating pipe into the sleeve systems. For no-hub cast iron pipe, where a water-tight seal is required and 1) the pipe outer surface is very rough or irregular, or 2) the pipe O.D. is in excess of 25/1000 inch (0.025") smaller than pipe manufacturer's nominal O.D. specification, it may be necessary to add a bead of compatible silicone sealant around pipe for a fully water-tight seal. Also, due to its smaller O.D. specification, a water-tight seal cannot be guaranteed without using silicone sealant on service weight cast iron pipe. Be sure to use a sealant that is compatible with both the PVC sleeve riser and the penetrating pipe.



| Product Submittal | | | |
|--------------------|------------------|--------------|-------|
| Job Name: | Architect/Owner: | | |
| Date: | Contractor: | | |
| Part#: | Qty: | Notes: | |
| | | | |
| spec_HFWDS-NM_RevH | | 800-321-0316 | 760-7 |

Note: HOLDRITE HYDROFLAME is not responsible for sleeve performance when installation instructions are not followed and will not be liable for damage to property or persons due to improper installation of materials or through attempts to utilize the material under conditions which exceed the designed capacities. Purchaser agrees to indemnify and hold HOLDRITE harmless for any and all claims, liabilities, damages, costs and expenses asserted against HOLDRITE or incurred by us because of injuries to persons or damages to property resulting from the improper installation or misuse of the material. For additional warranty limitations, refer to HOLDRITE's Limited Warranty dated 1/15/13.



**System No. F-A-2035
XHEZ.F-A-2035
Through-penetration Firestop Systems**

[Page Bottom](#)

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 Certified 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 Certified.
-

XHEZ - Through-penetration Firestop Systems

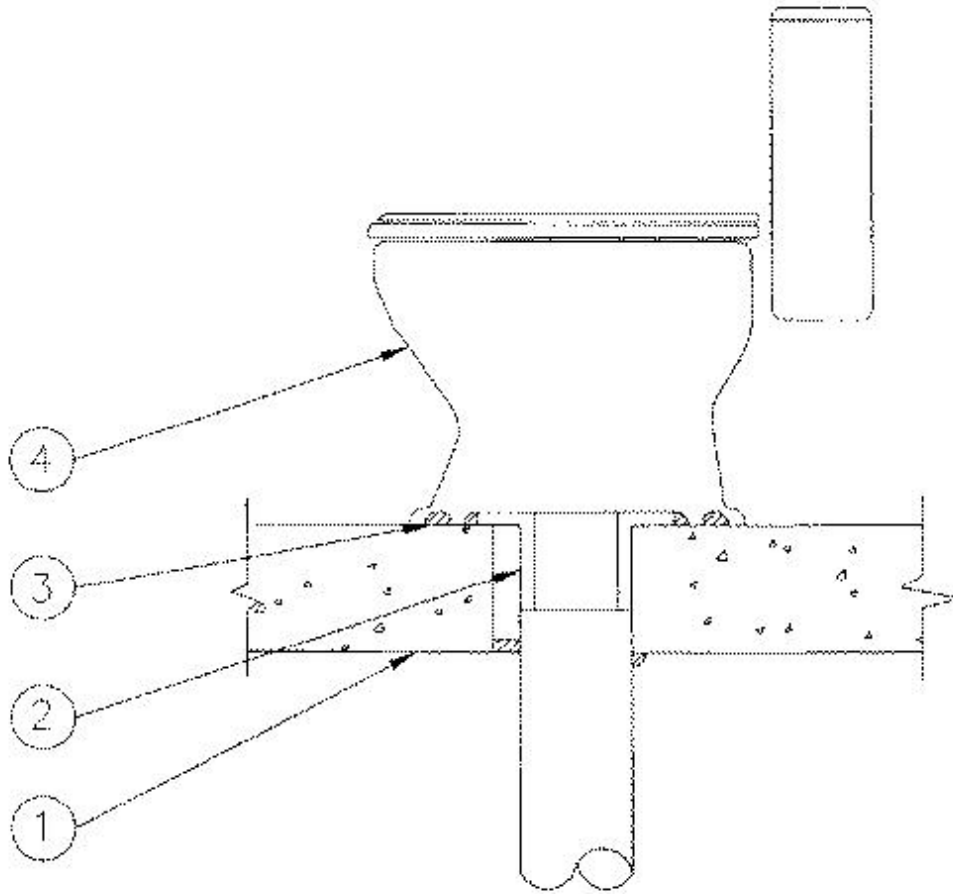
[See General Information for Through-penetration Firestop Systems](#)

System No. F-A-2035

December 07, 2002

F Rating — 2 Hr

T Rating — 2 Hr



1. **Floor Assembly** — Min 4-1/2 in. thick lightweight or normal weight concrete (100-150 pcf). Max diam of opening is 6 in.

2. **Nonmetallic Pipe** — One nonmetallic drain pipe with max 4 in. diam toilet flange installed either concentrically or eccentrically within the firestop system. The annular space between drain pipe and periphery of opening shall be min 0 in. (point contact) to max 1-1/2 in. Pipe to be rigidly supported on lower side of floor assembly. The following types and sizes of nonmetallic pipes, fittings and flanges may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in vented (drain, waste or vent) piping system.

B. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 cellular core or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.

3. **Fill, Void or Cavity Material* — Sealant** — Min 1 in. thickness of fill material applied within the annulus, flush with bottom surface of floor. At point contact location between concrete and pipe, a min 1/2 in. diam bead of fill material shall be applied at the pipe/concrete interface on bottom surface of floor assembly. A min 1/2 in. diam bead of fill material shall also be applied around top edge of toilet flange. Prior to placement of water closet, a min 1/2 in. diam bead of fill material shall be applied to the bottom surface of the outer rim of the water closet.

PASSIVE FIRE PROTECTION PARTNERS — 3600EX, 4800 DW

4. **Water Closet** — Floor mounted vitreous china water closet.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2002-12-07

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

© 2017 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-

System No. F-A-2176 XHEZ.F-A-2176 Through-penetration Firestop Systems

[Page Bottom](#)

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 Certified 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 Certified.
-

XHEZ - Through-penetration Firestop Systems

[See General Information for Through-penetration Firestop Systems](#)

System No. F-A-2176

August 19, 2009

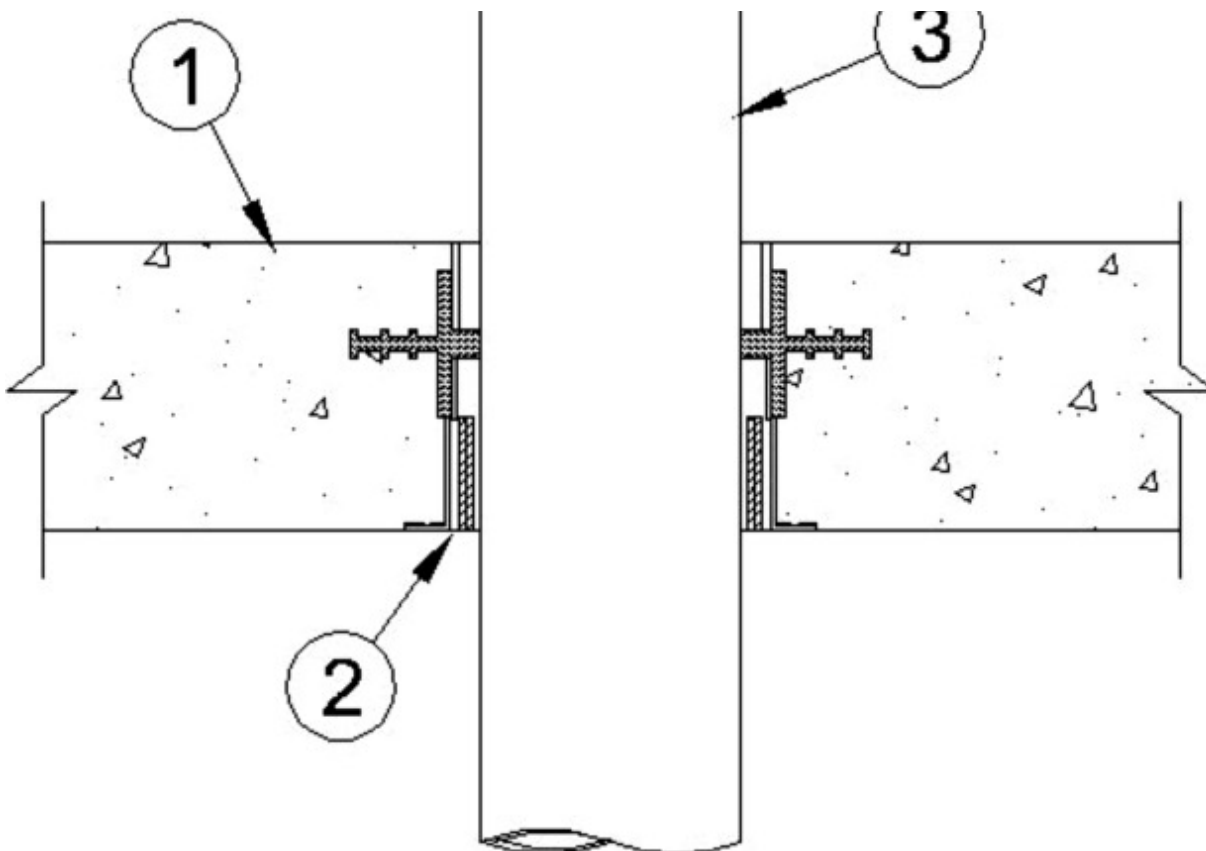
F Rating — 3 Hr

T Ratings — 0 and 3 Hr (See Item 3)

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400°F — Less Than 1 CFM/sq ft

W Rating — Class 1



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

2. **Firestop Device*** — Cast in place firestop device permanently embedded during concrete placement in accordance with accompanying installation instructions. The device shall be installed flush with top and bottom surfaces of floor.

SECURUS INC, DBA HOLDRITE — HydroFlame PS-CP, PS-NP

3. **Through Penetrant** — One nonmetallic pipe or conduit to be installed within the firestop device. Pipe or conduit to be installed in accordance with firestop device installation instructions and rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:

A. **Polyvinyl Chloride (PVC) Pipe** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Rigid Nonmetallic Conduit+** — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 (or heavier) or Schedule 40 CPVC pipe for use in closed (process or supply) piping systems.

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

E. **Cross-Linked Polyethylene (PEX) Tubing** — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.

When Item 3D is used, T rating is 0 Hr. Otherwise, T Rating is 3 hr.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

+Bearing the UL Listing Mark

Last Updated on 2009-08-19