

Insert Cast-in-Place and Cored Hole Penetration Sleeves for A, B, and C Systems



ProSet Systems, Inc. was the first company to test a firestop device at Underwriters Laboratories in accordance with U.L. #1479 and ASTM E-814 fire test standards. The tests were conducted in May of 1982 making ProSet the most experienced provider of unique firestop sleeve devices.

ProSet's complete line of "Firestop Penetrators" equals or surpasses all of the current building and life safety codes. In addition to being fire rated, our "Penetrators" are water resistant when set in the concrete pour and after the piping is installed.

Our penetrators also allow pipe expansion and contraction and reduce pipe noise. ProSet firestopping is accomplished by simply installing pipe, fittings and hangers, and the fire ratings are completed at the same time the pipe is installed! This contributes significantly to improved scheduling and productivity and allows the piping trades to take care of their own fire rated penetrations.



THE PROSET FIRESTOP MANUAL

ProSet has a "Firestop Manual" showing detailed drawings and installation instructions which are in full compliance with Warnock Hersey ASTM E-814 and Can S-115 third party fire testing.

The manual has "Firestop Penetrators Matrix Guides" listing common types of pipes and openings passing through different fire rated floors and walls.

The matrix guides you to the desired detail drawing. The drawings include a complete Warnock Hersey design number firestop assembly, showing an exploded view with component parts and the Warnock Hersey design listing number.

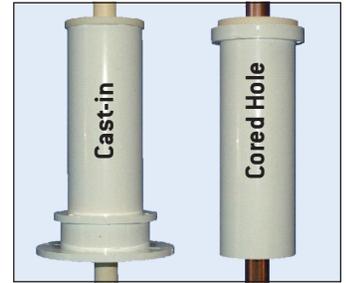
ProSet has developed three systems of firestopping: Systems "A", "B" and "C". Each system is unique in the method it uses for penetrating floor & wall construction assemblies.

System "A" Penetrators

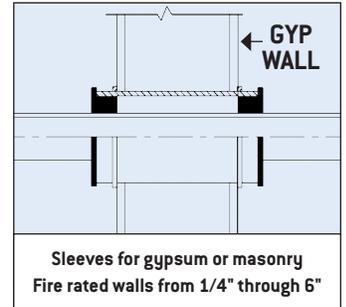
For Water, Electrical or Other Pass-Through Piping Cast-In Place or Through Cored Holes

System "A" is used mainly for pressure-type piping such as water, gas or electrical.

Blanks to 1-1/2" pipes pass through the plug & sleeve. The split ProSeal Plug driven into the top side of the sleeve will complete the securing and the firestopping of the pipe. That's it! You're done!



The same process is used with pipes 2" through 10" except, instead of using the ProSeal Plug, a ProSet Riser Clamp is used. The system can be used with insulated pipe by using an intumescent strip around the bottom of the sleeve.



ADVANTAGES

Provides a secure, water, smoke, and fire resistant penetration
Allows for pipe expansion and contraction
Eliminates clumsy riser clamps
Reduces pipe noise through the penetration
Simple system for a pipe mechanic to properly install
Both metallic and non-metallic pipe.

APPLICATIONS

- Water Heating cooling
- Fire standpipe Sprinkler lines
- Temperature control
- Electrical conduit
- Condensate drains
- Glass acid waste pipe

System "B" Penetrators

For No-Hub Cast Iron DWV Pipe Cast-In Place or Through Cored Holes

System "B" Penetrations are for cast iron. There are many variations depending on how you want to connect the piping to the sleeve couplings. Choices are usually based upon pipe fabrications and ease of installation. Whatever approach



you use, ProSet has a specifically designed penetration sleeve, eliminating the time and nuisance of jury-rigging. Firestopping is accomplished by simply connecting to the sleeve coupling or running the pipe through the sleeve. The penetrations can be used through floors or walls.

By using the ProSet sleeves, the piping is much easier to install. All the openings are connected at the same piping the system. There is no go-back work.

ADVANTAGES

Provides a water, smoke and fire resistant penetration Secures the entire DWV stack & branch piping Has a "Fixed Point" fabrication system Allows an easy one-man installation There is no other firestopping required Installs easily, costs less, and produces a much better job.

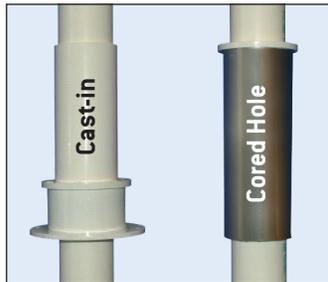
APPLICATIONS

- Cast iron no-hub, copper or steel DWV piping
- All types of plumbing floor fixture openings

System "C" Penetrators

For Combustible Plastic and DWV Piping Cast-In Place or Through Cored Holes

System "C" Penetrators for combustible piping are fire protected with a built-in intumescent wrap strip in the bottom portion of the mounting flange.



The sleeve coupling extends up from the mounting flange to fit flush with the concrete. They can be used through floors and walls.

By using the ProSet sleeves, the piping is much easier to install. As with System "B", all the openings are connected at the same time you are piping the system. There is no go-back work.

ADVANTAGES

Provides for water, smoke and fire resistant penetrations Eliminates normal pipe expansion and contraction problems Secures the entire DWV stack and branch piping Has a "Fixed Point" fabrication system Allows for an easy, one-man installation There is no other firestopping required Installs easily, cost less, and produces a much better job.

APPLICATIONS

- Combustible DWV piping
- P.P. Acid waste and vents
- All types of floor type plumbing openings

Sleeve-supported Piping

Each ProSet penetration opening supports the pipe and serves as a hanger. Generally there are no hangers needed to support the branch piping to the openings unless the length exceeds the recommended spacing. Only



Easy one man installation

then should an additional hanger be required.

For System "B", pass through system, the ProSet Riser support is part of the firestop system and eliminates the need for the old-fashioned riser clamp.

For System "C", each solvent-cemented joint acts as a hanger. The Stack is supported by using a solvent cement dauber to swab around the pipe and the sleeve. This secures the pipe; there is no need for a riser support. When contractors break down the cost of installing DWV piping in a building, they realize that at least 75% of their time is used for supporting and securing the piping system.

Contractors with know how to use the ProSet System enjoy savings of about 50% on their labor costs.

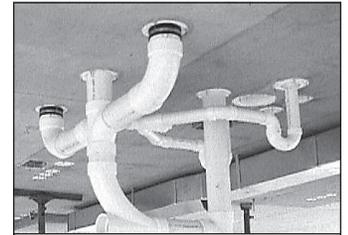
Water Closets

The Sleeve coupling can convert to water closet openings by using a ProSeal closet flange with a built in elastomeric seal. This replaces the wax ring, which can get distorted after a period of time and leak sewer gas or water waste.

System "C" sleeve couplings (for plastic pipe) can be converted to water closet openings without using wrap strips.

Bathtubs

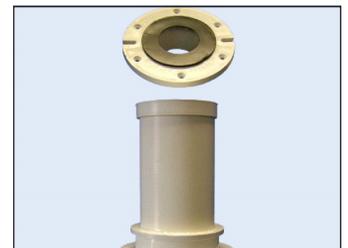
Bathtubs are connected using our tub box: a rectangular box with a knockout in it for testing purposes; and a sleeve coupling at the bottom to connect the branch piping. For System "C" (plastic piping), the sleeve coupling does not require a wrap strip.



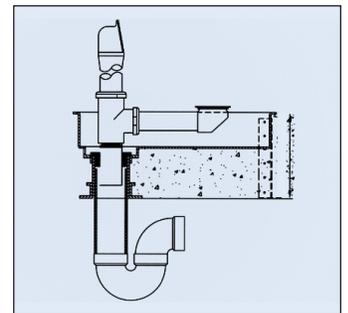
Prefabricated PVC Piping



Swab stack to sleeve:
No riser supports



Cast-in or cored cast iron closet
Opening with proseal closet flange



This provides a key benefit: the ability to connect the branch pipe to the tub box coupling while installing the rest of the piping. There is no reason to return to connect the tub, which saves time and money.

Drains

We provide penetrations for all types of drains and other openings — made with the sleeve coupling connection to the drain top. It makes setting the drain much easier. It comes complete with a mounting flange for securing to the wood form and a sleeve extension to match the elevation of the finished floor. No more jury-rigging the drains to secure them into the pour.



For System “B” piping, firestopping is accomplished simply by connecting the drains to the cast iron or other metallic branch pipes. The bottom connects to a P90 pipe nipple out of the sleeve coupling to a transitional no-hub coupling to the branch trap.

Waterproofing

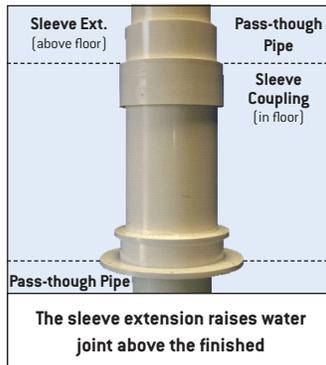
ProSet provides penetrations with multiple levels of water resistance and waterproofing.

The regular ProSet sleeves that have been used for years can be made water tight. However, many people find it difficult to install the penetration joint so that it is waterproof. Human caulking error during installation can lead to leakage through the inside of the sleeve.

Water Guard “C” Sleeve Protection

When the penetration must be water resistant

The other issue with the waterproofing of penetrations is associated with the expansion and contraction of rigid plastic water stops and the concrete that surrounds them. The sleeve will expand and contract, depending on the temperature at the time of the pour and the internal temperature of the uncured concrete. The concrete will always contract during the curing process. The combination of these forces can cause cracking around the water stop and the concrete. This leads to leakage on the outside of the sleeve through the concrete floor.



ProSet’s Water Guard C will provide a higher level of water resistance. The Extension Coupling will allow additional sleeving to be solvent cemented to the “C” Coupling so that it extends above any expected emergency water levels.

This eliminates the most common human error: not properly caulking the pipe joint passing through the sleeve. Testing shows that approximately 85% of Water Guard “C” penetrations will not leak, while the remainder will only leak minimally.

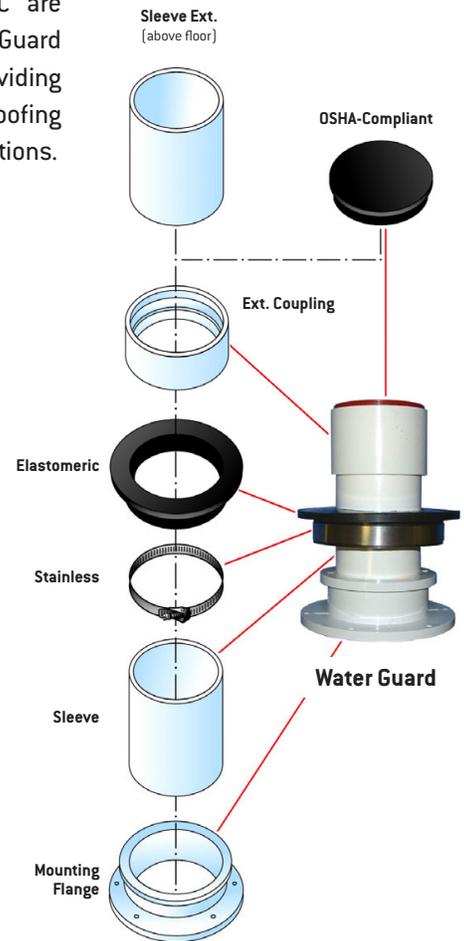
Water Guard “CR” Sleeve Protection

When the penetration must be 100% waterproof

ProSet has developed the new Water Guard “CR” penetration, which has been successfully water tested with a 36” head of water for 72 hours with no leaks.

In addition to the sleeve extension, the Water Guard “CR” has a large, flexible Elastomeric water stop ring around the middle of the sleeve that adjusts to the expansion and contraction of the sleeve and the contraction of the concrete. This prevents the cracking that can occur with a rigid water stop.

Systems A, B and C are available with Water Guard “C” and “CR” parts, providing very reliable waterproofing for all types of penetrations.



Exploded view of Water Guard

