


# 3M™ Fire Barrier Tuck-In Wrap Strips

## Product Data Sheet

FIRE BARRIER
UP TO 3 HOUR Fire Protection
CLASSIFIED UL

FILL, VOID OR CAVITY MATERIAL
FOR USE IN THROUGH-PENETRATION
FIRESTOP SYSTEMS SEE UL FIRE
RESISTANCE DIRECTORY
90G9

ULC LISTED
Firestop System
Components 90G9

## 1. Product Description

3M™ Fire Barrier Tuck-In Wrap Strips are designed to help prevent the passage of fire and smoke in new or existing non-metallic (e.g. plastic) pipe penetrations through wall or floor assemblies. 3M™ Fire Barrier Tuck-In Wrap Strips are engineered primarily for top-side firestop installations and help eliminate the need for retaining collars, concrete screws, ladders or most other material and equipment necessary for bottom-side installations. 3M™ Fire Barrier Tuck-In Wrap Strips come ready-to-install with an adhesive-backed closure label (excludes WS Roll). The wrap strips can be easily installed in both concrete floor and wall assemblies, as well as gypsum wallboard assemblies.



Ideal for top-side firestop installations in concrete floors.

### Product Features

- Firestop tested for up to 3 hours in accordance with ASTM E 814 (UL 1479)
- Top-side concrete floor installations help eliminate the need for steel retaining collars and most other bottom-side installation equipment and materials
- Adhesive-backed label for quick installation
- Ready-to-install wrap strip—precut to length for 2 in. (51 mm), 3 in. (76 mm) and 4 in. (102 mm) non-metallic pipes
- Firestop up to 6 in. (152 mm) PVC pipe (requires 2-layers using 3M™Fire Barrier Tuck-In Wrap Strip WS Roll)

## 2. Applications

3M™ Fire Barrier Tuck-In Wrap Strips are ideal for use when firestopping through penetrations in fire-rated concrete floor or wood floor/ceiling assemblies. The wrap strips also have the ability to be used within concrete and gypsum wallboard assemblies. Current non-metallic listed applications include PVC, ccPVC, RNC and FRPP piping systems. Can be used in conjunction with 3M™ Fire Barrier Pillows (standard or self-locking) or 3M™ Fire Barrier Mortar to firestop large openings penetrated by non-metallic pipe).

## 3. Specifications

To be used for penetrations through fire-rated construction with non-metallic penetrating items. 3M™ Fire Barrier Tuck-In Wrap Strips provide through-penetration firestop systems when used in conjunction with 3M™ Fire Barrier Sealants (e.g. 3M™ Fire Barrier Sealant IC 15WB+, 3M™ Fire Barrier Sealant CP 25WB+, 3M™ Fire Barrier Water Tight Sealant 3000 WT)*. When properly installed, these through-penetration firestops help resist the spread of fire, smoke and other gases and help maintain the original fire resistance rating of the construction assembly that has been penetrated. 3M™ Fire Barrier Tuck-In Wrap Strips shall be listed by independent test agencies such as UL, Intertek, or FM and shall be tested under the pass/fail requirements of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems. These through-penetration firestops meet the current requirements of the International Building Code (IBC) and National Fire Protection Association (NFPA 5000 and NFPA 101).

* Consult specific system details for approved firestop sealants.

**Typically Specified MasterFormat (2004)**

Section 07 84 00 – Firestopping
Section 07 84 13 – Penetration Firestopping
Section 22 00 00 – Plumbing

# 4. Performance & Typical Physical Properties

| | |
|---|---|
| **Color:** | Gray with Red Liner |
| **Fire Resistance:** | 1-3 Hours (wall- or floor-rating dependent) |
| **Activation Temperature:** | 550° F (288° C) |
| **Expansion Volume:** | 100x |

| Product Number | Thickness | Width | Length | Nominal Pipe Diameter | Installation Hole Size (max.) |
|---|---|---|---|---|---|
| WS 200 | 3/16 in. (5 mm) | 2-1/2 in. (64 mm) | 8-1/4 in. strip (210 mm) | 2 in. (51 mm) | 4 in. (102 mm) |
| WS 300 | 3/16 in. (5 mm) | 2-1/2 in. (64 mm) | 11-1/2 in. strip (292 mm) | 3 in. (76 mm) | 5 in. (127 mm) |
| WS 400 | 3/16 in. (5 mm) | 2-1/2 in. (64 mm) | 14-7/8 in. strip (378 mm) | 4 in. (102 mm) | 6 in. (152 mm) |
| WS Roll | 3/16 in. (5 mm) | 2-1/2 in. (64 mm) | 8.2 ft. roll (2.5 m) | up to 6 in. (152 mm)* | up to 8 in. (203 mm)* |

*Installation hole size can be up to two inches larger than nominal pipe diameter.

# 5. Packaging, Storage, Shelf Life

**Packaging** 3M™ Fire Barrier Tuck-In Wrap Strips (WS 200, WS 300, WS 400) are packed in a cardboard box containing 24 pre-labeled wrap strips. 3M™ Fire Barrier Tuck-In Wrap Strips WS Roll comes 6 individual rolls per case.

**Storage** 3M™ Fire Barrier Tuck-In Wrap Strips should be stored indoors in dry conditions.

**Shelf Life** 3M™ Fire Barrier Tuck-In Wrap Strips shelf life is indefinite when stored in original unopened packaging indoors.

# 6. Installation Techniques

*Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for applicable UL, or other third-party, drawings and system details.*

**Preparatory Work** The 3M™ Fire Barrier Wrap Strip should be sized appropriately for the penetrating item. The opening should be clean, dry, free of dust or debris. 3M™ Fire Barrier Wrap Strip WS Roll can be pre-cut to length (note: for a 6-inch pipe, wrap the roll around the pipe twice, mark the length and cut (approx. 44-1/4 in. +/- 1/4 in. (1.12 m +/- 6.4 mm)). 3M™ Fire Barrier Wrap Strip WS Roll can be secured around pipe by using glass-reinforced Scotch® Filament Tape, 3M Aluminum Foil Tape or similar.

**Installation Details** Install the correct 3M™ Fire Barrier Tuck-In Wrap Strip and 3M™ Fire Barrier Sealant as detailed within the applicable UL, or other third-party, system for the assembly and required system rating(s).

**Limitations** This product is not acceptable for use with chlorinated polyvinyl chloride (CPVC) pipes.

# 7. Maintenance

No maintenance should be required when installed in accordance with the applicable independent test agency's listed system and 3M™ Fire Barrier Tuck-In Wrap Strip Installation Guide. Once installed, if any portion of the 3M™ Fire Barrier Tuck-In Wrap Strip is damaged, the entire damaged wrap strip should be removed and re-installed with a new 3M™ Fire Barrier Tuck-In Wrap Strip and new 3M™ Fire Barrier Sealant as detailed within the applicable Listed System.

# 8. Availability

3M™ Fire Barrier Tuck-In Wrap Strips are available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Tuck-In Wrap Strips are available for the following nominal pipe diameters: 2 in. WS 200 (51 mm), 3 in. WS 300 (76 mm), 4 in. WS 400 (102 mm) and up to 6 in. WS Roll (152 mm). For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit www.3m.com/firestop.

# 9. Safe Handling Information

*Consult applicable country-of-use Material Safety Data Sheet (MSDS) of any 3M™ Fire Barrier Sealant, Mortar or Pillows used in conjunction with 3M™ Fire Barrier Tuck-In Wrap Strips prior to handling and disposing of that product.*

**Important Notice to User:**

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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