

3M Fire Protection Products  
Full Line Brochure



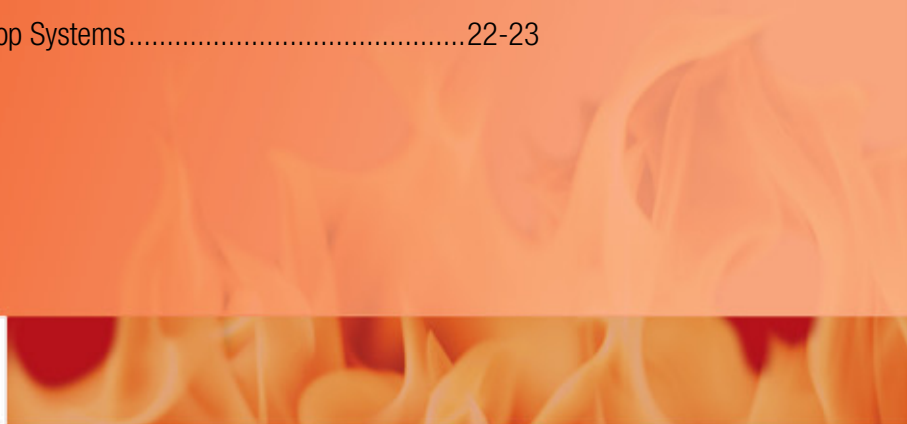
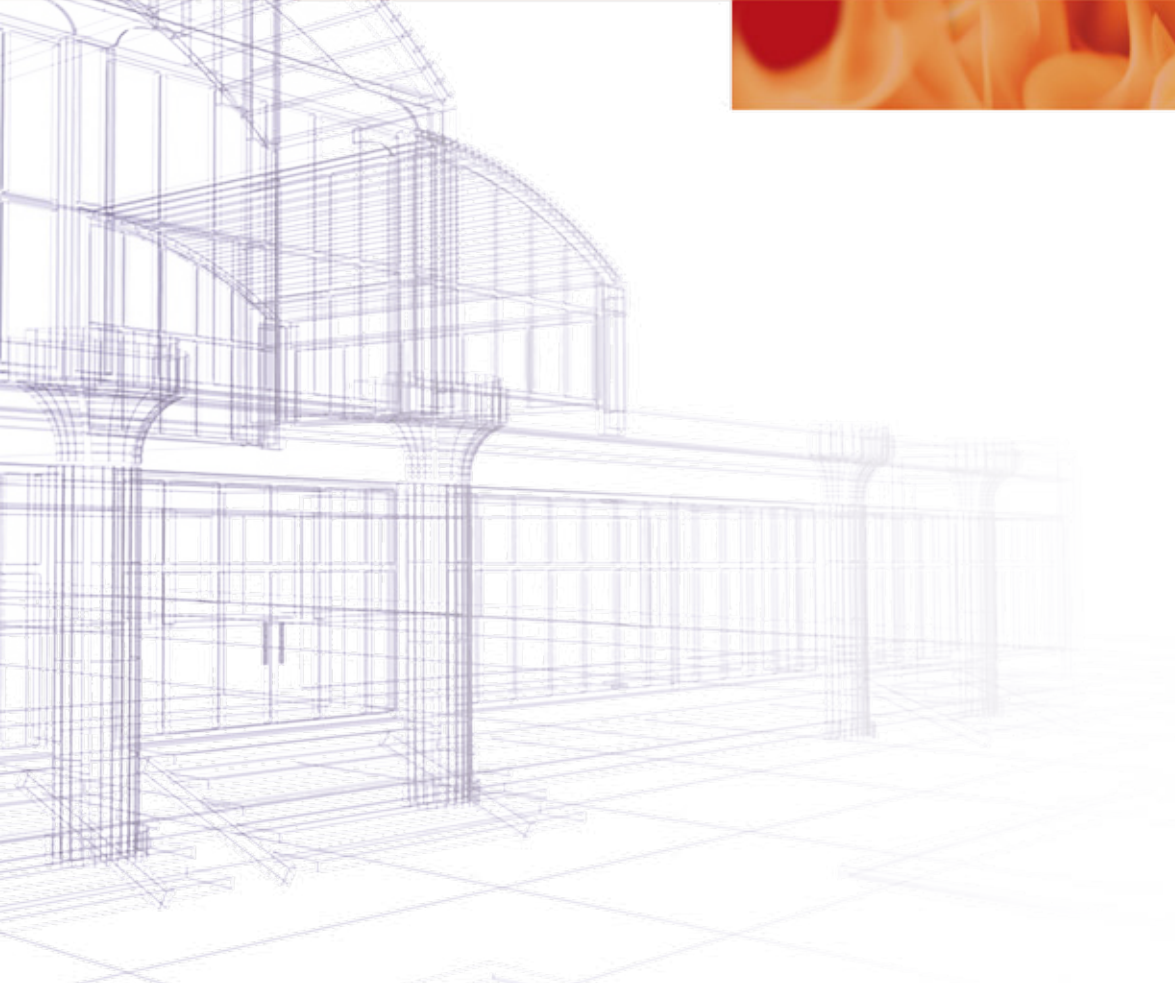
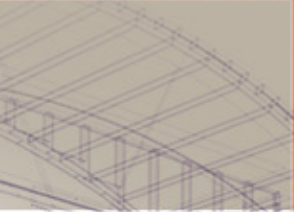
Trust &  
Confidence  
Even Under Fire





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## Protecting lives for more than 30 years

In 1974, the movie *Towering Inferno* sparked the imagination of Richard Licht, a 3M product developer who passionately believed 3M technologies could be used to improve the safety of multi-story buildings. Several devastating fires – including the 1980 MGM Grand Hotel fire that killed 84 people and injured 679 – inspired Licht to develop the first firestop products based on existing 3M intumescent technology.

Recognized by many as “The Father of Firestopping,” Licht also helped develop some of the first firestop requirements in commercial building codes. He worked tirelessly to make the codes more demanding to improve the safety of all buildings.

# 3M Firestopping Progress and Trends

As an industry leader, 3M drives technologies that enable lower cost building solutions. For instance, 3M intumescent technology enabled the use of plastic pipes that were originally banned in commercial buildings due to their combustible nature – providing a cheaper, easy-to-install solution for electrical conduits and plumbing lines.

## 3M gains reputation for leadership and earns the industry’s trust:

| 1980   | 1981   | 1982  | 1990  | 1994  | 1997   | 2003  | 2004  | 2006   |
|--|--|---|---|---|--|---|---|--|
| 3M™ Fire Barrier FS-195 Wrap/Strip introduced. | 3M helps write the first specific test standard for firestop systems (ASTM E 814). | 3M™ Fire Barrier CP25 Caulk, 3M™ Fire Barrier Putty 303 and 3M™ Interam Mat introduced. | 3M develops an industry milestone with reformulated, water-based 3M™ Fire Barrier CP25WB Caulk – easier to clean and less environmentally impactful than most solvent based caulks. | 3M introduces fire protection wraps for grease, air, fume and plenum ducts. This established 3M as a full service fire protection provider for through penetrations, construction joints and now protective insulative wraps. | 3M introduces Firedam Spray for construction joints to meet ASTM 1399 test criteria. | 3M launches first firestop sealants to meet new UL Water Leakage Test, W Rating-Class 1 requirements. | 3M named #1 brand preferred by installers of firestop products. | 3M develops e-Train, a comprehensive on-line firestop program that has become the industry benchmark for training. |

## Leadership you can trust

3M is proud to be the industry leader in firestopping. Our dedication to stringent testing and code developments help make buildings safer today than they were even 10 years ago. And when that dedication is backed by a brand as powerful as 3M, you get what you would expect – proven reliability and outstanding service.

The construction industry is increasingly moving toward easy-to-use firestop solutions. That's why 3M, in its leadership role, provides cutting-edge and fully integrated systems. These systems are designed to help you efficiently build safer buildings that protect lives and property.

The majority of 3M's firestopping innovations are tested on-site in the company's own UL and Intertek certified fire-test center. By testing these systems in job-specific conditions, we help you with high-quality, effective firestopping solutions.

*Comprehensive fire protection includes fire detection, fire containment and fire suppression. 3M Fire Protection Products address fire containment and are an integral part of a well designed fire protection system. Our understanding of the spread of fire, smoke, and toxic gases helps us continue to create preventative and affordable firestopping solutions.*

*Building designs and uses continue to evolve, and so too must 3M firestop technology. For example, in buildings where telecommunication cables are constantly being upgraded, the 3M™ Fire Barrier Pass-Through Device allows for re-enterability and helps keep cables organized and protected (for more information see page 8).*

*From time-tested fire barrier sealants to today's innovative firestop devices and duct wraps, 3M scientists work to develop solutions to firestop virtually anything on a building site. With over 100 products and over 1000 tested approved systems, 3M has the most complete program for all your firestopping needs.*

## Partners in protecting lives

Being the fire protection leader goes beyond selling innovative products. We partner with you from the start – providing a comprehensive line of products and systems, excellent technical services, and the superior training you need to enhance your firestopping capabilities.

We meet with you to discuss your application to help you select the best firestopping solutions. To ensure your inspection process goes smoothly, we work directly with building inspectors. By continuing to work closely with you throughout a building's life – including retrofit and maintenance activities – we support you as you work to ensure your building's firestopping is being properly managed.

## Risk management

3M's Firestop Risk Management Program is a comprehensive approach to helping you manage the complexities of project firestopping. From helping you define your initial needs to helping manage your firestopping throughout a building's life, we walk you through the decisions and steps required to keep your project on time, in budget and code-compliant.

*For more information on the 3M Firestop Risk Management Program, contact your local 3M Fire Protection Sales Representative or call: 1.800.328.1687 (option 6).*



# 3M Firestopping Partnership,

## Choosing a system

The easy-to-use, on-line 3M Firestop Systems Selector helps you choose the firestop solution best suited to your application. To learn more, and to see the latest in firestopping solutions, visit [www.3M.com/firestop](http://www.3M.com/firestop)



## Training with the best

People expect more from 3M, and when it comes to training and product testing, 3M delivers. We provide comprehensive firestop training on-line through our exclusive e-Train program, so you can train when it's most convenient, 24/7.

e-Train provides a wealth of information – from firestopping basics and system nomenclature to detailed installation techniques. The program's high-quality videos highlight proper installation techniques in a broad range of systems for through-penetrations, construction joints and flexible wrap systems.

Over the last 10 years, 3M has provided detailed, hands-on firestop training for more than 5,000 code officials, architects, contractors and firestop professionals at our on-site fire-test center. Plus, 3M offers job-site and on-location training by our qualified sales representatives.



# Training and Testing

## 3M Test Center

For more than 20 years our fire-test center has ensured quality results, and it's been qualified under UL and OPL/Intertek guidelines for their Witnessed Test Data Programs. Extensive product testing, on-line and hands-on training are just a few more ways 3M partners with you to help keep people safe.





# 3M Fire Barrier Devices

Fire barrier devices offer an effective one-piece solution for the firestopping of penetrating items through rated walls and floors. During a fire, these devices intumesce to form a seal, which helps protect against the spread of fire, smoke and toxic gases.

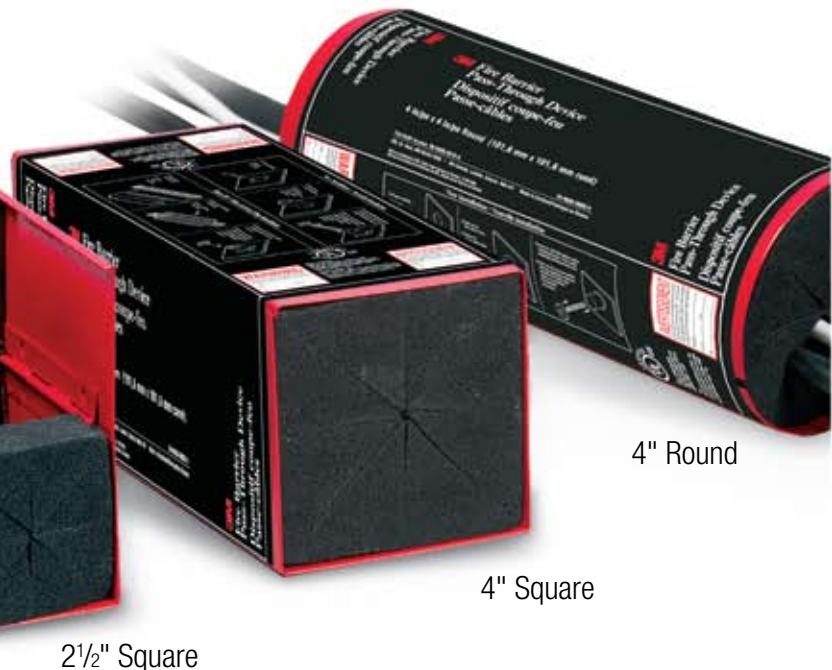


2" Round

Fire barrier devices are easy to install and are designed to take the guess work out of firestopping. 3M offers pass-through options for walls and floors, as well as, cast-in place options for poured concrete floors. 3M Fire Barrier Devices offer a simple, and in a majority of cases caulk-free, code compliant alternative to complicated caulk systems. Plus, some have the added benefit of retrofit firestop capabilities, which means fewer hassles after buildings are occupied.

## Pass-Through Devices

*Code-compliant devices designed for easy installation and re-entrability – perfect for firestopping structures where electrical, data and communication cables or plumbing pipes pass through fire-rated floors and walls.*



2 1/2" Square

4" Square

4" Round

## 3M™ Fire Barrier Pass-Through Devices

Re-entrable and caulk-free.

- Available in 2" round, 2 1/2" square, 4" round and 4" square sizes
- UL classified L rating, Hot and Cold Smoke Seal
- Stackable for penetrant versatility
- Hinged for easy retrofit installation around cables
- UL classified 1, 2 and 3 hour fire (F) and temperature (T) ratings
- Provides up to a 3-hour F&T rating when tested by UL/Intertek in accordance with ASTM E814 (UL1479)

# Through Penetration

## Pass-Through Devices

### 3M™ Fire Barrier Pass-Through Mounting Brackets

Use for wall or floor mounting applications.

- Mounting brackets available for wall or floor mounting of 3M Fire Barrier Pass-Through Devices:
  - Single mounting bracket available for all devices
  - Triplex and Sixplex mounting brackets available for square devices



### 3M™ Fire Barrier Pass-Through Stud Brackets

Use for stud mounting applications.

- Allows for stud mounting of 3M Fire Barrier Pass-Through Devices during construction



# Through Penetration

## Devices



### Cast-In Devices

These firestop devices are designed to make firestopping through concrete easy and affordable. With models available to accommodate plastic or metallic pipe, 3M™ Fire Barrier Cast-In Devices are installed prior to the concrete pour (attaching directly to the wood forms) and can be adjusted to various concrete depths.

### 3M™ Fire Barrier Cast-In Device

Firestop devices used with metal and plastic pipes.

- Attach directly to wood forms before concrete is poured, penetrating item is passed through device after the concrete cures
- Easily adjustable bodies that can be adapted to concrete height (from 2½" up to 8")
- Models available for metallic or non-metallic penetrating items allowing metallic, nonmetallic, cables and insulated penetrants.
- Available in 2", 3", 4" and 6" diameter by 8" height
- Provides up to a 3-hour fire rating



Metallic Pipe Devices

Plastic Pipe Devices

### 3M™ Fire Barrier Cast-In Metal Deck Adapter

A one-piece plastic body assembly to accommodate fluted metal decks.

- Use in conjunction with 3M Fire Barrier Cast-in Devices
- Available for use with 2", 3" and 4" 3M Fire Barrier Cast-In Device



### 3M™ Fire Barrier Cast-In Device Height Adapter

A one-piece plastic body assembly allows 3M Fire Barrier Cast-in Devices to be used in up to 12" concrete thickness.

- Designed to accommodate pipe sizes from 1½" to 4"
- Easily snaps into place – no additional fastening required
- Available for use with 2", 3" and 4" 3M Fire Barrier Cast-In Device



### 3M™ Fire Barrier Cast-In Tub Box Assembly

Fastens to a 2" metallic 3M Fire Barrier Cast-In Device and creates a void for plumbing access.

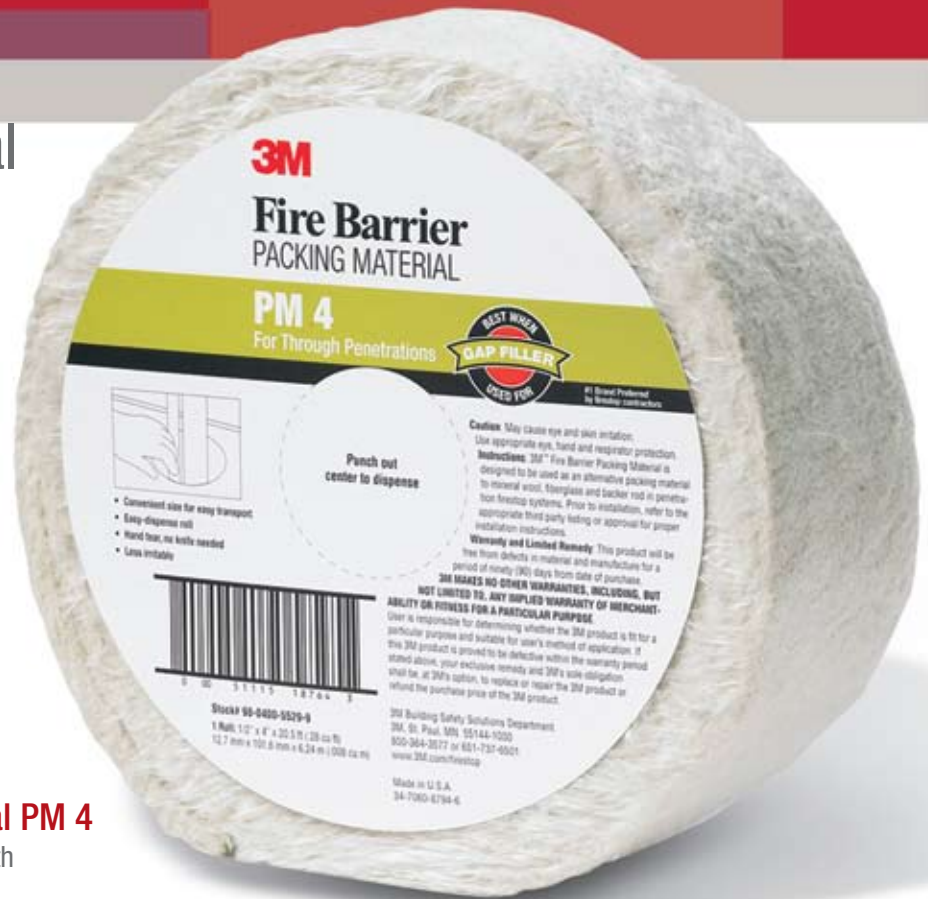
- Available with 2" or 3" foam insert depending on desired depth of access void
- Easily snaps into place and then attaches directly to wood forms
- Accommodates 1½" and 2" pipe



# Packing Material

A light-weight packing material approved for use in all of 3M's UL listed through-penetration firestop systems. The 20' roll is convenient to transport and features quick and easy hand-tear dispensing.

3M™ Fire Barrier Packing Material is ideal for use around metallic, nonmetallic, insulated pipe, HVAC and power and communication cable penetrants – a long-awaited alternative to mineral wool, fiberglass or backer rod.



## 3M™ Fire Barrier Packing Material PM 4

Lightweight packing material to be used with through-penetration firestops. Approved for use in up to 4 hour firestop systems.

- Convenient, hand-tear dispensing
- For almost any through-penetration firestop project
- Approved for use in all of 3M's UL listed through-penetration firestop systems
- Less irritating to skin than competitive products



# Through Penetration

## Fire Barrier Sealants

### 3M™ Fire Barrier CP 25WB+ Sealant

Our most popular firestop sealant approved up to 4 hours when used with most plastic and metal pipes.

- Provides up to 4-hour F-rating
- Expanded UL Classified fire protection systems
- Superior adhesion – bonds to concrete, metals, wood, plastic and cable jacketing
- Meets ASTM E 814 Fire Test, tested under positive pressure
- Intumescent – expands when heated to seal around items consumed by fire
- Low VOC

\*Check UL directory. Not approved for use with CPVC pipes made using Noveon® resins.



### 3M™ Fire Barrier IC 15WB+ Sealant

Affordable UL tested, general-purpose sealant approved up to 2 hours when used with plastic and metal pipes.

- Provides up to 2-hour F-rating
- CPVC compatible
- Expanded UL Classified fire protection systems
- Superior adhesion – bonds to concrete, metals, wood, plastic and cable jacketing
- Meets ASTM E 814 Fire Test, tested under positive pressure
- Intumescent – expands when heated to seal around items consumed by fire
- Low VOC

**FGG = BM =**  
SYSTEM COMPATIBLE

### 3M™ FireDam™ 150+ Sealant

Tested and approved for single metallic pipe penetrations.

- Water-based for easy installation, cleanup and disposal
- Endothermic fillers absorb heat and release chemically-bound water
- High-solids formula means no shrinkage
- Multiviscosity grade offers excellent caulking properties
- Low VOC



# Fire Barrier Watertight Sealants

*Achieve the benefits of firestopping and a watertight seal in one application!*

- Meets UL Water Leakage Test, W Rating – Class 1 requirements for systems tested and listed in accordance with ANSI/UL 1479.
- Provides excellent adhesion on most construction surfaces, including: concrete, gypsum, metal, plastic, wood and insulation
- Ideal for the following interior construction voids: blank openings, metallic pipes, non-metallic pipes, cables, cable trays, insulated pipes, busways, HVAC vents and ducts, combos, bottom of wall construction joints
- Low VOC

## 3M™ Fire Barrier Watertight Silicone 3000 WT Sealant

High-performance intumescent silicone achieves the benefits of a firestop and watertight seal.

- Provides up to 4-hour F-rating
- Excellent weatherability – ideal for fast-track construction
- Cures upon exposure to atmospheric humidity
- Re-enterable and repairable



## 3M™ Fire Barrier Watertight Sealant 1000 NS

Non-slumping silicone with up to 3-hour fire protection.

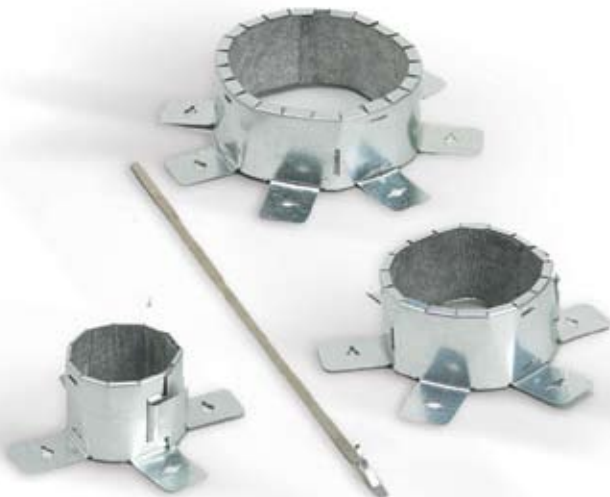
## 3M™ Fire Barrier Watertight Sealant 1003 SL

Self-leveling silicone with up to 3-hour fire protection.

# 3M Fire Barrier Specialty Products

*From wrap strips and restricting collars to 3M Fire Barrier Mortar, these code approved, UL listed products help round out 3M's comprehensive offering of through-penetration firestops. Additionally, 3M offers a residential fire block designed to resist high temperatures and help prevent smoke passage in non-rated residential and combustible construction.*

## Wrap Strips & Restricting Collars



### 3M™ Fire Barrier Ultra RC Pack

A one-piece metal collar assembly encasing 3M's heat expanding 3M™ Interam™ Ultra GS intumescent material.

- Provides up to 2-hour F-rating
- Ultra fast anchoring system secures the device to most substrates without the use of power tools
- Used for firestop penetrating items such as plastic pipe and cables, in new and retrofit installations
- One-piece construction makes installation easy
- Proven technology – intumescent action quickly seals off the penetrating item in a fire
- Available in 2", 3" and 4" sizes



### 3M™ Fire Barrier Ultra Plastic Pipe Device

Use for firestopping penetrating items such as plastic pipe and cables in new and retrofit installations.

- Ultra-fast anchoring system secures the device to most substrates without power tools
- One-piece construction makes installation easy
- Proven technology – intumescent action quickly seals off the penetrating item in a fire
- Can be used to seal the following plastic pipes: ccPVC, PVC, CPVC, FRPP, PVDF, ccABS and ABS
- Available in 1½", 2", 3", 4" and 6" sizes
- Provides up to a 3-hour fire rating



### 3M™ Ultra Fast Anchors

The quickest, easiest way to install 3M Plastic Pipe Devices.

- Unique anchor straps replace the need for power tools, mounting screws, washers and other fasteners – all you need are pliers (a great alternative to bolting)
- 16" Anchors for use in up to 12" concrete or 12" gypsum walls
- Allows for the installation of a 3M Plastic Pipe Device in less than one minute!



# Through Penetration Specialty Products



## 3M™ Interam™ Ultra GS

Flexible intumescent mat expands when exposed to high temperatures.

- Excellent weatherability
- For use in drain, waste, vent or closed pipe systems
- Easily cut and shaped with common tools
- Used to seal the following plastic pipes: ccPVC, PVC, CPVC, FRPP, PVDF, ccABS and ABS
- Provides a smoke seal when used in conjunction with 3M™ Fire Barrier Sealant CP 25WB+ or 3M™ Fire Barrier Moldable Putty MP+
- Provides up to a 3-hour fire rating in tested & listed systems

## 3M™ Fire Barrier RC-1 Restricting Collar

Works in conjunction with 3M FS-195+ Wrap/Strip or 3M Interam Ultra GS to firestop plastic pipes up to 10 inches in diameter.



- 28-gauge steel
- Convenient 25-foot roll – cut only what you need



## 3M™ Fire Barrier FS-195+ Wrap/Strip

A one-part, intumescent and elastomeric strip with foil on one side.

- Can be cut to fit irregular shapes
- Used with the 3M Fire Barrier RC-1 Restricting Collar or with caulk for “in-hole” applications
- 24" x 2" strips
- Provides up to a 4-hour fire rating in tested & listed systems
- Use for firestopping metallic and non metallic pipes, insulated pipes and cable bundles

# Through Penetration



## Fire Barrier Pillows

*Self-contained, highly intumescent pillows are designed to firestop a wide variety of through-penetrations including cable trays, conduit and blank openings.*

### 3M™ Fire Barrier Self-Locking Pillows

Interlocking strips hold pillows securely together yet release easily for retrofit or reuse – just remove and replace pillows as needed.

- No wire mesh reduces safety issues
- Easy to install, easy to remove and reuse
- No cutting and no mess – just lock pillows together, compress and place (use 3M™ Fire Barrier Moldable Putty+ around edges to ensure proper seal)
- No graphite
- Excellent aging properties
- Available in 2" x 4" x 9" (small), 2" x 6" x 9" (medium) and 3" x 6" x 9" (large) pillow sizes
- Provides up to 3-hour UL listed systems (in up to a 1,080 square inch opening)
- Low VOC



### 3M™ Fire Barrier Pillows

Stackable and conformable firestop pillows for new and retrofit projects.

- No wire mesh or graphite
- Excellent aging properties
- Available in 2" x 4" x 9" (small), 2" x 6" x 9" (medium) and 3" x 6" x 9" (large) pillow sizes
- Provides up to 3-hour UL Listed systems (in up to a 1,080 square inch opening)
- Low VOC

# Specialty Products

## 3M™ Fire Barrier CS-195+ Composite Sheet

Ideal for fire-stopping blank openings and through-penetrations of multiple cables, pipe ducts, buss ducts and cable trays.

- No mixing or damming required
- Easy to install using common trade tools
- Easy to fasten, bolt punch or drill through and use self-tapping screws or anchor bolts
- Re-enterable
- Bottom-of-floor applications available
- Available in the following sizes: 16" X 28" (bulk and boxed), 36" X 24" (bulk and boxed), 36" X 36" (bulk and boxed), 36" X 41" (bulk and boxed) and 28" x 52" (bulk only)
- Provides up to a 4-hour fire rating
- Low VOC



## 3M™ Fire Barrier Moldable Putty MP+ Sticks & Pads

Designed to firestop a wide variety of through penetrations, including: cable, conduit, insulated pipe and metal pipe.

- Pliable – can form into almost any desired shape
- Will not dry out or crumble – can be sealed for reuse
- Available in 1/8" thick pads: 4" x 8", 7" x 7" and 9.5" x 9.5" sizes
- Available in 1.4" x 6" and 1.4" x 11" stick sizes
- Provides up to a 3-hour fire rating with tested and listed systems
- Low VOC



# Through Penetration Specialty Products

## 3M™ Fire Barrier 2000 NS Silicone Sealant

Non-slump silicone sealant bonds to most common construction materials.

- Superior adhesion
- Class 25 sealant, per ASTM 920
- Re-enterable/repairable
- One-part silicone elastomer—cures upon exposure to atmospheric humidity
- Excellent weatherability, remains elastomeric upon curings
- Compression/extension recovery rate up to  $\pm$  nominal joint width
- Provides up to 4-hour fire-rating
- Low VOC



## Foams



## 3M™ Fire Barrier 2001 Silicone RTV Foam

This two-component silicone foam is designed to seal large and/or complex openings such as cable bundles, cable trays, and conduit banks.

- Expands to seal complex penetrations
- Cures in less than 5 minutes to form an elastomeric compression seal
- Re-enterable and repairable
- Excellent sound barrier properties
- No ampacity derating of cables when installed properly
- Easily mixes by hand or by automated mixing/dispensing equipment
- Provides up to a 3-hour fire rating with tested and listed systems
- Low VOC



# Specialty Products



## Mortar

### 3M™ Fire Barrier Mortar

Unlike common mortar, which shrinks when exposed to fire, 3M Fire Barrier Mortar slightly expands (intumesces) to help protect against the spread of fire, smoke and toxic gases.

- Variable mix ratio permits self-leveling and no-sag application consistencies
- Re-enterable
- Bonds to itself – proven prior to and during fire testing
- Pumpability allows for faster installation
- Contains no asbestos
- Non-shrinking, non-load bearing formula
- 44 lbs. bag (yields a minimum 2 ft. sq. of opening area at a 4" depth)
- Low VOC

## Residential Fire Protection

### 3M™ Fire Block Sealant FB 136

Lightweight cementitious sealant with excellent adhesion – bonds to concrete, metals, wood, plastic and cable jacketing.

- Easy clean up with water
- No special handling, routine disposal
- Thixotropic: Will not sag or run in vertical or overhead applications
- Halogen-free
- Tack free in approximately 15 minutes
- Gray color
- High caulk rate
- Low VOC
- Meets ASTM E136 test standard





# Construction Joint Firestop Solutions

Whether you are a drywaller, carpenter, caulker, waterproofer, glazer or masonry contractor, one thing you know is construction joints move. When construction joints require firestopping, you need a tested product that can meet the demands of expanding and contracting joints day in and day out.

That's why 3M Fire Protection Products developed fire barrier sealants and sprays. They meet the movement needs of head of wall, wall to wall, bottom of wall and perimeter joints. These products undergo stringent building movement testing prior to firestop testing and are designed to meet the challenges of firestopping construction joints for many years.



## 3M™ FireDam™ 200 Spray

This sprayable coating is a quick and easy method for firestopping fire rated construction joints, including: head-of-wall, wall-to-wall, floor-to-floor and perimeter joints.

- High coverage rate reduces installation time
- Fast-dry, low-sag formula
- Gray color blends well with both concrete and gypsum
- Applies with conventional airless spray equipment
- Paintable when cured
- Elastomeric – forms a flexible seal with compression/extension of up to  $\pm 25\%$  of nominal joint width
- Applies as  $1/8$ " wet coating, dries to  $1/16$ "
- Easy clean-up with water
- Available in 5 gallon pails
- Provides up to a 4-hour fire rating with tested and listed systems
- Low VOC

# Construction Joint Sprays and Sealants



## 3M™ FireDam™ 150+ Sealant

Tested and approved for single metallic pipe penetrations and construction joints.

- Water-based for easy installation, cleanup and disposal
- Endothermic fillers absorb heat and release chemically-bound water
- High-solids formula means no shrinkage
- Multiviscosity grade offers excellent caulking properties
- Available in blue or limestone color
- Provides up to a 3-hour fire rating with tested and listed systems
- Excellent movement capabilities
- Low VOC



## 3M™ Fire Barrier 2000 Silicone Sealant

- 2000 is great for top-of-wall/head-of-wall joints
- Accommodates vibration from normal building movement
- Maximum pipe size of 24 inches (609 mm)
- Compression/extension recovery of  $\pm 31\%$  of original joint width

## 3M™ Fire Barrier 2000+ Silicone Sealant

Bonds to most common construction materials to form a flexible seal.

- Superior adhesion
- Remains elastomeric and is weather resistant
- Provides up to a 4-hour fire-rating
- Compression/extension recovery of  $\pm 15\%$  of original joint width

# Flexible Wrap Systems

## 3M Flexible Wrap Systems

3M Flexible Wrap Systems address a variety of application needs including air ducts, grease ducts, chemical exhaust ducts, plenum, and electrical raceways. They are also excellent for oil and gas refineries and other industrial applications. The insulative properties help keep heat, fire and smoke contained.



### 3M™ Fire Barrier Plenum Wrap 5A

Patented inorganic blanket encapsulated with a scrim-reinforced foil. 3M Fire Barrier Plenum Wrap provides a flexible, non-combustible enclosure for cables and pipes in return air plenums.

- Tested to UL 910 flammability test and UL 1887
- Strong, lightweight and flexible material for easy installation
- Foil encapsulated scrim
- Available in 1/2" thick x 48" width x 25 ft length and 1/2" thick x 24" width x 50 ft length rolls



### 3M™ Interam™ Aluminum T-49 Tape

Interam tape is an adhesive-backed aluminum foil tape which is designed to seal the cut edges of 3M Duct Wrap and Interam mats to complete the total encapsulation.

- 3-mil. aluminum foil
- Acrylic adhesive
- Tensile Strength: 30 lbs./in. width (525N/100 mm)

### 3M™ Fire Barrier Duct Wrap 15A and 20A

Patented inorganic blanket encapsulated with a scrim-reinforced aluminum foil. Use to fire rate commercial kitchen grease, air and chemical exhaust ducts.

- A proven alternative to 1- or 2-hour fire resistant rated shaft enclosures
- Zero clearance to combustibles along the entire surface
- High flexibility and strength for easy installation
- Foil encapsulated scrim
- Stitched for easier handling and no slumping
- Available in 1 1/2" x 48" width x 25" length and 2" thick x 24" width x 25" length.

### 3M™ Interam™ E-5A-4 Mat

Resists heat and fire to protect structural steel and provide electrical circuit protection around cables, cable trays and conduits.

- Endothermic — releases chemically bound water to cool the outer surface when exposed to high temperatures
- Made of a combination of ceramic fibers and inorganic endothermic material
- Easily cuts to size and flexible
- 2/5" thick x 24 1/2" width x 20 ft length roll size
- Provides up to 3-hours of electrical circuit protection





CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
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