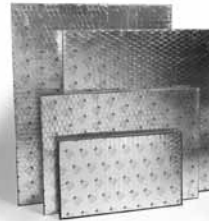## COMPOSITE SHEET
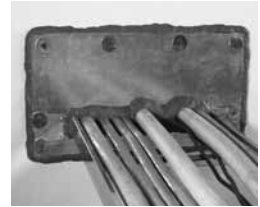
3M™ Fire Barrier Composite Sheet CS-195+

Intumescent sheet used to firestop large openings. Seals penetrations against flame spread, smoke and toxic gases. This composite sheet has multiple applications, including blank openings, through penetrations of multiple cable, pipe ducts, bus ducts and cable trays. The fire-resistive intumescent sheet is bonded on one side to a layer of 28-gauge galvanized steel. The other side is reinforced with hexagonal shaped steel-wire mesh and covered with an aluminum foil scrim.

FIRE BARRIER

UP TO **4** HOUR
Fire Protection

- Firestop tested for up to 4 hours in accordance with ASTM E 814 (UL 1479)
- Intumescent (expands with heat) to form a hard char that tightly seals penetrations against flame spread, smoke and toxic gases
- Multiple applications: through-penetration firestop, heat shield and firebreak protection
- UL-classified – meets all code requirements
- 100% solids
- Lightweight – easy to handle, just cut and form to desired shape
- Re-enterable for new or retrofit installations
- Easy to fasten – bolt-punch or drill-through
- No mixing or damming – installs easily with screws or anchor bolts
- Versatile – can be cut to fit irregular shapes
- Thermally conductive – allows unwanted heat buildup to escape
- Easy to install using common trade tools

FIRESTOP WRAPS

3M™ Fire Barrier Tuck-In Wrap Strips and Rolls

3M™ Fire Barrier Tuck-In Wrap Strips are designed for use with plastic pipe penetrations through floors and walls. Engineered for top-side firestop installations, the tuck-in wrap strip simplifies labor by helping to eliminate the need for retaining collars, concrete screws, ladders, etc. The flexible intumescent strip wraps around the pipe and easily slides into the annular space.

FIRE BARRIER

UP TO **3** HOUR
Fire Protection

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479)
- Designed for improved top-side concrete floor installations to 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 3/16" thick x 2-1/2" wide wrap strips—available in 8.2 ft. rolls or strips precut to length for 2 in., 3 in. and 4 in. non-metallic pipes
- Firestop up to 6* in. PVC pipe

  *6 in. Pipe installation requires 2-layers using 3M™ Fire Barrier Tuck-In Wrap Strip Roll

3M™ Fire Barrier Wrap Ultra GS

3M™ Fire Barrier Wrap Ultra GS is a graphite-based, largely inorganic, flexible, fire resistive, intumescent wrap. 3M™ Fire Barrier Wrap Ultra GS is designed to firestop plastic pipe penetrations in fire-rated walls, floors and floor/ceiling assemblies. The unique, intumescent property of this material means that as penetrating items such as plastic pipe are consumed by fire, 3M™ Fire Barrier Wrap Ultra GS expands to maintain a tight seal, preventing the spread of fire, deadly smoke, and other by-products of combustion.

SMOKE SEAL

L RATED
Meets Optional L Requirements

FIRE BARRIER

UP TO **3** HOUR
Fire Protection

- Intumescent: expands when heated to seal around items consumed by fire
- UL approved for up to 3 hour fire ratings when tested in accordance with ASTM E 814 (UL1479)
- Excellent flexibility and versatility
- Thermal insulator and smoke seal

Ordering Information

3M™ Fire Barrier Composite Sheet CS-195+

Product Number	Description	Size	Unit	Shipping Wt. Per Case	Billing UPC Number	Qty.	Price Unit
CS-195+ (non load-bearing) Openings up to 36 sq. ft.	Composite Sheet (Up to 4-hr Penetration Firestop)	36" x 24" (.303" thick nominal)	Sheet	18.6 lbs.	000-51115-07220-8	1/Cs	Each
	Composite Sheet (Up to 4-hr Penetration Firestop)	28" x 52" (.303" thick nominal)	Sheet	32.0 lbs.	000-51115-08260-3	1/Cs	Each
	Composite Sheet (Up to 4-hr Penetration Firestop)	16" x 28" (.303" thick nominal)	Sheet	10.6 lbs.	000-51115-07437-0	1/Cs	Each
	Composite Sheet (Up to 4-hr Penetration Firestop)	36" x 41" (.303" thick nominal)	Sheet	34.9 lbs.	000-51115-07224-6	1/Cs	Each
	Composite Sheet (Up to 4-hr Penetration Firestop)	36" x 36" (.303" thick nominal)	Sheet	30.2 lbs.	000-51115-07222-2	1/Cs	Each

3M™ Fire Barrier Wrap Strips FS-195+

Product	Product Number	Description	Size	Unit	Shipping Wt. Per Case	Billing UPC Number	Qty.	Price Unit
Wrap Strip	FS-195+	Intumescent wrap for most pipes and cables (Up to 4-hr Firestop)	2" x 24" (1/4" thick)	Strip	7.7 lbs.	000-51115-07115-7	10/Cs	Each

3M™ Fire Barrier Wrap Ultra GS

Product	Product Number	Description	Size	Unit	Shipping Wt. Per Case	Billing UPC Number	Qty.	Price Unit
Ultra GS	ULTRA-GS-40	Intumescent wrap for insulated pipes, plastic pipes and combos (Up to 4-hr Firestop)	2" x 40 ft. (1/8" thick)	Roll	29.0 lbs.	000-51115-16507-8	5/Cs	Each

3M™ Fire Barrier Tuck-In Wrap Strips

Product	Product Number	Description	Size	Unit	Shipping Wt. Per Case	Billing UPC Number	Qty.	Price Unit
Tuck-In Wrap Strips	WS 200	Intumescent wrap for 2" nominal plastic pipes (Up to 3-hr Firestop)	2-1/2" x 8-1/4" (3/16" thick)	Strip	3.9 lbs.	500-51115-18814-0	24/Cs	Each
	WS 300	Intumescent wrap for 3" nominal plastic pipes (Up to 3-hr Firestop)	2-1/2" x 11-1/2" (3/16" thick)	Strip	5.4 lbs.	500-51115-18815-7	24/Cs	Each
	WS 400	Intumescent wrap for 4" nominal plastic pipes (Up to 3-hr Firestop)	2-1/2" x 14-7/8" (3/16" thick)	Strip	7.0 lbs.	500-51115-18817-1	24/Cs	Each
	WS Roll	Intumescent wrap for plastic pipes (Up to 3-hr Firestop)	2-1/2" x 98.4" (3/16" thick)	Roll	15.9 lbs.	500-51115-18821-3	6/Cs	Roll

3M™ Fire Barrier Pillows

Product	Product Number	Description	Size	Unit	Shipping Wt. Per Case	Billing UPC Number	Qty.	Price Unit
Firestop Pillow	FB249	Re-enterable pillows (Up to 3-hr Firestop)	2" x 4" x 9" (Small)	Pillow	12.5 lbs.	000-51115-16530-6	24/Cs	Each
	FB269	Re-enterable pillows (Up to 3-hr Firestop)	2" x 6" x 9" (Medium)	Pillow	12.5 lbs.	000-51115-16531-3	16/Cs	Each
	FB369	Re-enterable pillows (Up to 3-hr Firestop)	3" x 6" x 9" (Large)	Pillow	15.8 lbs.	000-51115-16532-0	20/Cs	Each

Product Information

Tools for Application

1. **3M™ Fire Barrier CP 25WB+, IC 15WB+ , FireDam™ FD 150+ Sealant**

   Standard or Bulk Caulk Gun

   Standard Bulk Loader with Follower Plate

   Pump: 24:1 ratio, High Viscosity Pump

   Rechargeable Battery Powered Caulk Gun

   Trowel, Putty Knife or equivalent

   Clean Tools with water

   Damming: Backer Rod, Fiberglass Insulation, Mineral Wool, Ceramic Wool

2. **3M™ Moldable Putty+ Pads and Sticks**

   For Putty Installation: No Tools are required

3. **3M™ Fire Barrier 1000 NS, 2000+ NS, 1003 SL, 3000 WT Silicone Sealant**

   Standard or Bulk Caulk Gun.

   Standard Bulk Loader with Follower Plate.

   Pump: 40:1 ratio, High Viscosity Pump. Contact your local 3M™ Authorized Fire Protection Products Distributor for recommendations.

   Rechargeable Battery Powered Caulk Gun.

   Trowel, Putty Knife or equivalent.

   Clean Tools with MEK, Xylene or Mineral Spirits.

   Damming: Backer Rod, Fiberglass Insulation, Mineral Wool, Ceramic Wool (See specific system for damming requirements)

4. **3M™ Fire Barrier CS-195+ Composite Sheet**

   For Cutting: Saber Saw, Jig Saw, Hack Saw, Hole Saw, Nibbler

   For Bending: Hand or Power Break

   Fastening: Anchor Bolts, Self-Drilling or Tapping Screws, Powder Activated Fasteners, Concrete Nails. Always refer to 3M application drawings for exact fastening details. Fasteners must meet 75 lb/in. minimum pullout strength.

5. **3M™ Fire Barrier Pillows, Self-Locking Pillows**

   For Pillow installation: No Tools are required

6. **3M™ Fire Barrier Pass-Through Device**

   For Cutting Opening: Utility knife, Hole Saw

   Fastening: Screwdriver

7. **3M™ Fire Barrier Putty Sleeve Kits**

   For Cutting Opening: Utility knife, Hole Saw

   Fastening: Screwdriver

8. **3M™ Fire Barrier FS-195+, Interam™ Ultra GS, Tuck-In Wrap Strips**

   For Cutting: Utility Knife, Industrial Razor Blade, Heavy Shears (Scissors)

   For Application: Filament Tape, 3M Tape number 898 or its equivalent, used as a temporary restraint

9. **3M™ Fire Barrier Ultra PPD Plastic Pipe Device**

   Drill, Screwdriver

   Anchors: Concrete, Toggle, Powder Actuate

10. **3M™ Cast-In Device for Plastic or Metallic Pipes**

    For Cast-In installation: Pliers, Power Drill, Screws

11. **3M™ FireDam™ Spray 200**

    A 3000 psi, 1gpm Piston or Diaphragm Pump

    Recommended spray tip size: .019" to .031" orifice. To clean the spray equipment flush with a minimum of 5 gallons of clean water

    Paint brush for touch up

    Damming: Mineral Wool

12. **3M™ Fire Barrier Mortar**

    Buckets/Mixing Containers

    Power or Hand Mixing Tools, Stir Sticks, Trowel

    Rigid Damming

13. **3M™ Fire Barrier Duct Wrap 615+ or Plenum Wrap 5A+**

    1. Filament tape 3/4" min. width, manufactured by 3M Company. Tape number 898 or its equivalent, used as a temporary restraint

    2. Aluminum Foil Tape 2" wide min. width, for sealing cut edges of Foil-Faced Blankets. 3M™ FSK Facing Tape 3320 or equivalent.

    3. Banding Materials 1/2" min. width, 0.015" thick Carbon on Stainless Steel as a permanent restraint. A min. 16 gauge one Strand of Wire Carbon or Steel Tie Wire may be used as an alternative to the Banding.

    4. Hand Bander Tensioning Tool for Banding Equipment and Crimping Tool for Clip. Bands on wires may be hand tightened.

14. **3M™ Interam™ Endothermic Mat**

    1. Filament tape 3/4" min. width, manufactured by 3M Company. Tape number 898 or its equivalent, used as a temporary restraint

    2. 425 Tape 4" wide min. width, for sealing all mat seams

    3. Banding Materials 1/2" min. width, 0.015" thick Carbon on Stainless Steel as a permanent restraint. A min. 16 gauge one Strand of Wire Carbon or Steel Tie Wire may be used as an alternative to the Banding.

    4. Hand Bander Tensioning Tool for Banding Equipment and Crimping Tool for Clip. Bands on wires may be hand tightened.

Technical Documents

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3M Fire Protection Products
Through Penetrations Applicators and Specifiers Guide   www.3M.com/firestop 1-800-328-1687