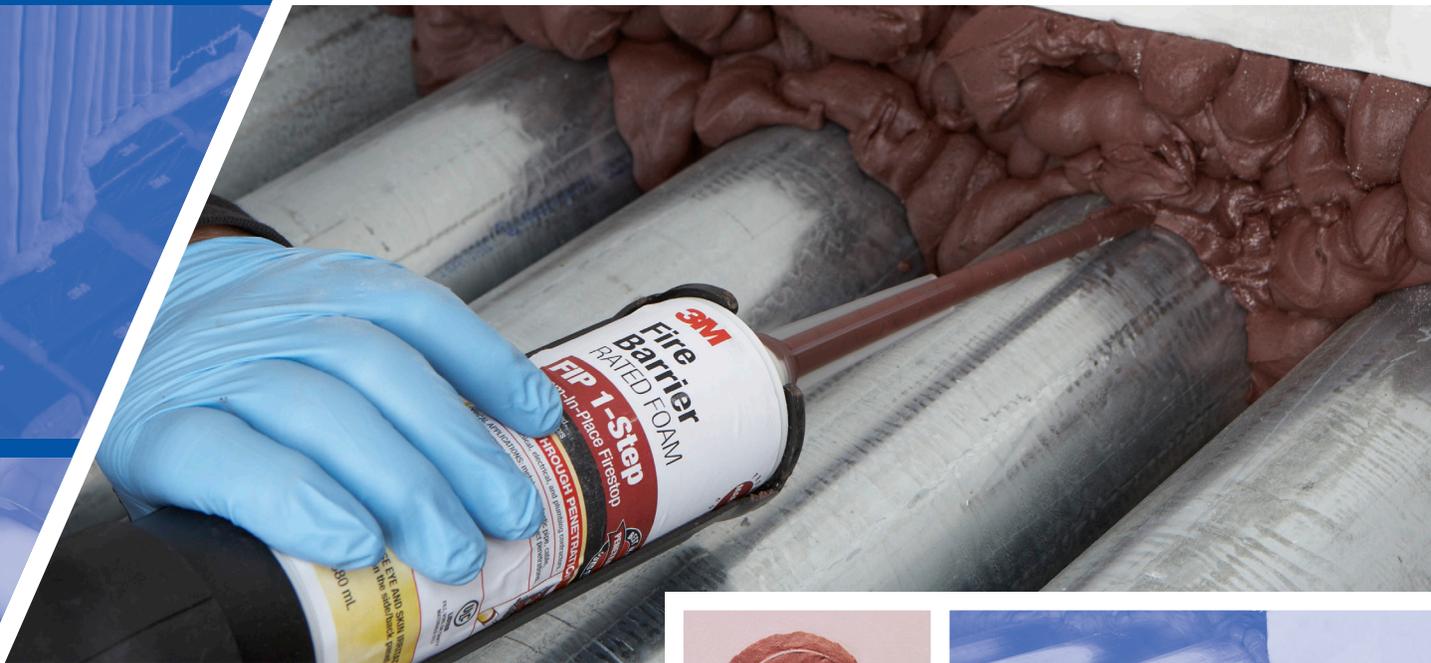


FIRESTOP GUIDE

3M™ Fire Protection Products



INSIDE

- Devices & Kits
- Firestop Training
- Flexible Wrap Systems
- Residential & Non-Rated Fireblocks
- Sealants & Foam
- Specialty Products
- Typical Applications Guide
- Water Tight Sealants



FIRESTOP GUIDE

3M™ Fire Protection Products



Products & Services to Keep You Safe

Werner Electric Supply is dedicated to maximizing safety. We help you support safety through product selection, best practices solutions, and by implementing training programs. In your company, the most important commodity is your employees. Without them your business simply wouldn't be successful. Our goal is to help you keep your people safe and productive.

Connecting with you Since 1948.

At Werner Electric Supply, we have grown and continue to grow to serve the needs of our customers and valued partners. We provide diverse, high quality products and services from our eleven locations throughout Wisconsin and Michigan's Upper Peninsula.

We offer convenient access to over \$30 million in inventory, consisting of more than 24,000 SKUs in our state-of-the-art, 250,000 square-foot warehouse and headquarters. We strive to be a key partner to our customers by providing service which goes above and beyond expectations.

Werner Electric Supply provides everything you need including automation, electrical, and data communication products, custom services, network and process control solutions and 200+ training sessions annually. Our goal is to serve our wide range of industrial, commercial, and construction customers and support their success.

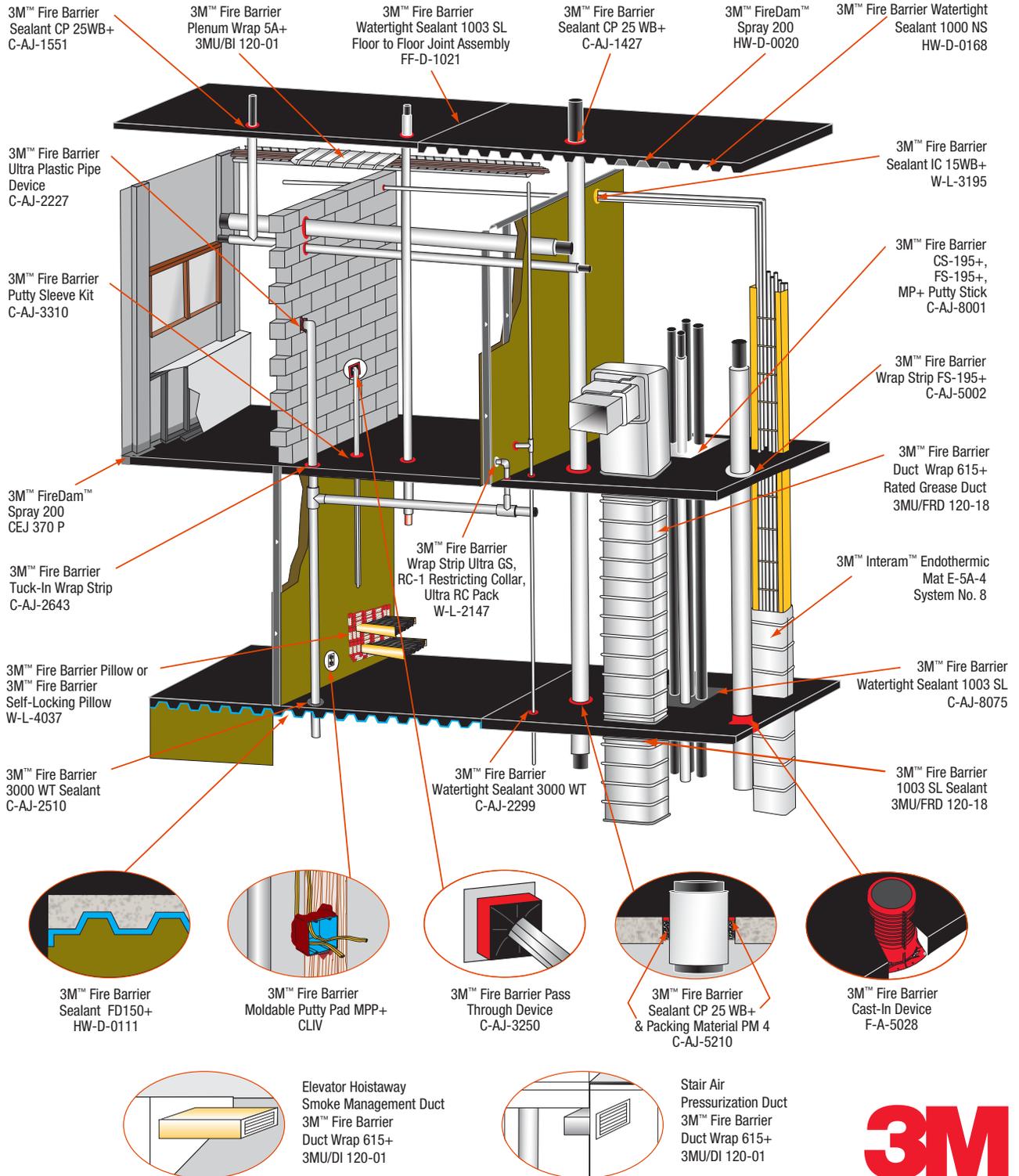
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3M™ Application Guide

Typical Applications – Commercial Construction



Caulks

3M™ Fire Barrier Sealant IC 15WB+



A latex sealant designed for use as a one-part fire, smoke, toxic gas sealant.

- 3 hour rated fire barrier sealant
- Acoustic barrier: STC-rating of 54 when tested in a STC 54-rated wall assembly
- Provides L-rating smoke seal
- Intumescent: expands when heated to seal around items consumed by fire

Product Description	Werner Part No.
10.1 oz. Tube	.1334297
20.0 oz. Sausage	.1333484

3M™ Fire Barrier Sealant CP 25WB+



A high-performance, intumescent latex-based sealant offering outstanding fire performance plus a non-halogen formula.

- 4 hour rated fire barrier sealant
- Acoustic barrier: STC-rating of 54 when tested in a STC 54-rated wall assembly
- Provides L-rating smoke seal
- Intumescent: expands when heated to seal around items consumed by fire
- Over 600 tested and listed UL systems

Product Description	Werner Part No.
10.1 oz. Tube	.353
20.0 oz. Sausage	.247609

3M™ Fire Barrier Water Tight Sealant 3000 WT



This high-performance sealant helps prevent water and moisture intrusion while protecting buildings and their occupants by preventing the spread of fire, smoke and toxic gas.

- 4 hour rated fire barrier water tight sealant
- Meets UL Water Leakage Test, W Rating: Class 1 requirements for systems tested in accordance with ANSI/UL 1479
- Helps prevent moisture and water migration through a building
- Excellent weather properties
- Ideal for fast-track construction

Product Description	Werner Part No.
10.1 oz. Tube	.3787489
20.0 oz. Sausage	.4104981

3M™ Fire Block Foam FB-Foam



Combines the high-speed application properties of foam and the long-lasting protection of caulk.

- Fire block expandable foam – not fire rated
- Ready-to-use – no mixing required
- Expands up to 200% in volume to quickly and effectively seal openings
- Heat-resistant up to 240° F
- Draftstop – helps reduce air infiltration
- Residential use only

Product Description	Werner Part No.
12.0 oz. Aerosol Can	.3920737

3M™ Fire Barrier Sealant FD 150+



Used to firestop metal pipes or cables through concrete or gypsum, and in dynamic head-of-wall systems.

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479)
- Fire Resistive Joint System tested up to 4 hours in accordance with ASTM E 1966 (UL 2079)
- Water based acrylic latex
- Available in limestone gray, blue and red

Product Description	Werner Part No.
10.1 oz. Tube	.3953006
28.0 oz. Cartridge	.4052370

3M™ Smoke and Sound Sealant SS 100



Elastomeric sealant that dries to form a monolithic flexible seal that helps prevent unwanted noise infiltration and mitigates the spread of smoke and toxic gas during a fire.

- An effective draftstop
- Re-enterable/repairable
- Sag-resistant formula
- Paintable

Product Description	Werner Part No.
20.0 oz. Sausage	.4166461

FIP 1-Step

3M™ Fire Barrier Rated Foam FIP 1-Step



Designed to expand up to 5 times in volume after dispensing, FIP 1-Step is a two-part urethane, smoke, sound and firestopping foam. This intumescent foam can be used to fill the annular space created by pipes and cables penetrating through fire-rated construction.

- Firestop tested and rated up to 2 hours in accordance with ASTM E 814 (UL 1479) and CAN/ULC S115
- Sag resistant, quick curing formula that expands up to 5 times in volume during installation
- Re-enterable and repairable foam remains pliable after installation

Product Description	Werner Part No.
12.85 oz. Cartridge	.4001916
Replacement Nozzles 12/pack	.4063448

3M™ FIP 1-Step Automatic Caulk Gun



The 18-volt cordless model E18C380X4(FIP) gun will effortlessly dispense up to 60 cartridges in a mix ratio of 5:1 on a single charge. With a full barrel to limit cartridge swelling under pressure, this tool eliminates the messy leakage or "blow-by" caused by other guns.

- Kit includes gun, charger, battery, and bag
- Powered by Milwaukee® RED-LITHIUM™ battery technology
- Fast, 30 minute charge
- Variable speed trigger
- Packed safely in a heavy duty nylon carrying bag

Product Description	Werner Part No.
Automatic Caulk Gun Kit	.4249183

3M™ Fire Barrier Blocks, Plugs and Planks



Pre-formed foam units designed for easy installation to effectively seal medium to large openings in wall and floor through-penetrations against smoke, toxic gas and flame.

- Firestop tested and rated up to 2 hours in accordance with ASTM E 814 (UL 1479)
- Can be repaired and reused as needed, saving time and labor
- Can be sealed with 3M™ Fire Barrier Rated Foam FIP 1-Step and other 3M Fire Barrier Sealants (sold separately)
- Installation requires no special tools

Product Description	Werner Part No.
5" x 5" x 8" Block	.4137215
2" Plug	.4175847
4" Plug	.4135502
2" x 5" x 40" Plank	.4137216

3M™ FIP 1-Step Manual Caulk Gun



This high-thrust manual model B26C380X4(FIP) tool will easily dispense thick materials through a static mixing nozzle. Dual gripping plates provide no-slip reliability and long life. All steel construction.

- Easily dispense thick materials through a static mixer
- Adjustment screw to eliminate wasted motion
- Dual Gripping plates doubles life of rod
- Packed safely in a heavy duty nylon carrying bag

Product Description	Werner Part No.
Manual Caulk Gun	.4238006

FIP AUTOMATIC & MANUAL CAULK GUNS AVAILABLE FOR RENT

Contact John Casper at 920-858-7934 or jcasper@wernerelectric.com

Through Penetration

3M™ Fire Barrier Pass-Through Devices



A line of integrated firestopping devices that create a fire-proofed dedicated space for voice, data, telecom wires and pipes.



- One-piece, hinged metal enclosure makes installations fast and easy
- Red color: easy to identify as fire rated device during inspection
- Stackable for multiple penetrations (square devices)
- Re-enterable for additional and removal of penetrants



Product Description	Werner Part No.
2" Round PT2RD	.3775868
4" Round PT4RD	.2312779
4" Square PT4SD	.2324087

All brackets sold separately due to gangable options

3M™ Fire Barrier Putty Sleeve Kits



Ready-to-install kit with all items needed for a complete cable or blank firestop installation.



- One-piece, hinged metal enclosure makes installation fast and easy
- Two-piece split/hinged design for easy retrofit installation on existing cables
- Suitable for installation in gypsum wallboard and concrete walls or floors



Product Description	Werner Part No.
1" DT100	.3916396
2" DT200	.3916397
4" DT400	.3916398

3M™ Fire Barrier Moldable Putty Stix MP+



A one-part, ready-to-use, re-enterable, intumescent putty that can be easily formed to firestop through penetrations and blank openings in fire-rated assemblies.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479)
- Helps reduce noise transfer (STC-rating of 56 when tested in STC 56-rated wall assembly)
- Provides draft and cold smoke seal
- Will not dry out or crumble, re-enterable

Product Description	Werner Part No.
1.4" x 11"	.1332858

3M™ Fire Barrier Cast-In Devices for Metallic Pipe



These devices are installed prior to the concrete pour (attaching directly to the wood forms or fluted metal decking) and can be adjusted to various concrete depths.



- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479)
- Metal and height adaptors are available
- Annular space allows for easier pipe installation
- Pipe installation from top or bottom of floor
- Easily adjustable bodies can be adapted to concrete height from 2 ½" to 8" (thicker pours can be accommodated with height adapter)



Product Description	Werner Part No.
2" 2MCID	.1334850
3" 3MCID	.1333138
4" 4MCID	.1334494
6" 6MCID	.4052364

Height, metal deck & aerator devices sold separately

3M™ Fire Barrier Packing Material PM4



Designed to be used as an alternative packing material to mineral wool, fiberglass, and backer rod in through penetration firestop systems.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479)
- Asbestos-free, that is mold and fungi resistant in accordance with ASTM C 1338
- Smooth textured woven material can be torn by hand, eliminating the need for a knife

Product Description	Werner Part No.
4" x 20.5'	.3776331

3M™ Fire Barrier Moldable Putty Pads MPP+



A one-part firestop material used in various fire-rated assemblies, such as electrical box protection and wall openings.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479)
- Provides draft/cold smoke seal, helps reduce noise transfer
- Will not dry out or crumble, re-enterable

Product Description	Werner Part No.
4" x 8"	.425
7" x 7"	.427
9.5" x 9.5"	.226458

Wrap Strips

3M™ Fire Barrier Wrap Strip FS-195+



Firestops difficult through penetrations such as plastic pipe, insulated pipe and cables. When exposed to heat, it expands up to ten times its original volume, forming a very hard char to prevent the migration of fire, smoke and toxic gas.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479)
- One-part, graphite-free, fire-resistive strips with foil on one side
- Versatile, can be cut to fit irregular shapes
- Re-enterable, no special tools required
- Applications include telephone cable, metal pipe, plastic pipe, conduit, insulated metal pipe and cable trays

Product Description	Werner Part No.
2" x 24" Strip	.389

3M™ Fire Barrier Ultra GS 40 Wrap Strip



Graphite-based, largely inorganic, flexible, fire resistive, intumescent wrap designed to firestop plastic pipe penetrations in fire-rated walls, floors and floor/ceiling assemblies.

- Flexible and versatile
- Thermal insulator and smoke seal
- UL approved for up to 3 hour fire ratings when tested in accordance with ASTM E 814 (UL 1479)

Product Description	Werner Part No.
2" x 40' Roll	.4052375

3M™ Fire Barrier RC-1 Restricting Collar



Works in conjunction with 3M™ Fire Barrier Wrap Strip FS-195+ and 3M™ Fire Barrier Wrap Ultra GS to close an opening left by a burned away plastic pipe.

Product Description	Werner Part No.
2" x 25'	.248500

For use with FS-195+ and GS-40 for pipes over 4"

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



Designed for use with plastic pipe penetrations through floors and walls.

- Flexible intumescent strip wraps around the pipe and easily slides into the annular space
- Designed for improved top-side concrete floor installations
- Eliminates need for steel retaining collars and most other bottom-side installation equipment

Product Description	Werner Part No.
2"	.4011934
3"	.4052380
4"	.4052381
100" Roll	.4065231

3M™ Fire Barrier Plastic Pipe Devices



One-piece metal collar assemblies encasing heat expanding 3M™ Ultra GS (intumescent) materials.

- Firestop tested up to 3 hours in accordance with ASTM E814 (UL 1479)
- Firestop ccPVC, PVC, CPVC, FRPP, PVDF, ccABS and ABS pipes, cables or combos
- Ideal for applications in drain, waste and vent or closed pipe systems
- One-piece assembly for quick and easy installation
- Used for new and retrofit installations

Product Description	Werner Part No.
1.5"	.4052376
2"	.4052377
3"	.4052378
4"	.4052379
6"	.4052373

Pillows

3M™ Fire Barrier Pillows



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

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479)
- Easy retrofit: remove/reuse pillows as needed
- Can be cut/re-taped with box sealing tape for odd-sized gaps

Product Description	Werner Part No.
2" x 4" x 9"	.228783
2" x 6" x 9"	.243307
3" x 6" x 9"	.246754

3M™ Fire Barrier Self-Locking Pillows



Interlocking strips hold pillows securely together yet release easily for retrofit or reuse.

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479)

- Easy retrofit: remove/reuse pillows as needed
- Interlocking strips lock pillows together
- Can be cut/re-taped with box sealing tape for odd-sized gaps

Product Description	Werner Part No.
2" x 4" x 9"	.1566917
2" x 6" x 9"	.1566912
3" x 6" x 9"	.1566924

Additional Products

3M™ Fire Barrier Duct Wrap 615+



Flexible solutions for the protection of grease ducts, ventilation air ducts, return air plenums, emergency circuits, structural steel and more. Ideal for a wide variety of commercial/ industrial applications.

- Lighter weight for easier installation (nom. 1-1/2 in. thick, 6 pcf density)
- Zero clearance to combustible throughout entire enclosure system
- Widest range of duct penetration firestop systems

Product Description	Werner Part No.
24" x 25' Roll	.4257883
48" x 25' Roll	.4257884

3M™ Fire Barrier Plenum Wrap 5A+



Fire-resistant wrap encapsulated with scrim-reinforced foil.

- A flexible, non-combustible enclosure for cables/pipes in return air plenums
- Non-asbestos wrap with a safer fiber construction
- Installs easily because of high flexibility and strength

Product Description	Werner Part No.
24" x 50' Roll	.4057194
48" x 25' Roll	.4257882

Additional Products (continued)

3M™ Interam™ Endothermic Mat E-5A-4

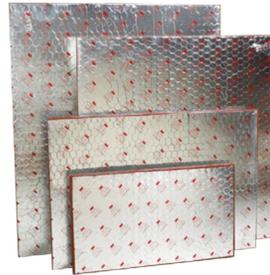


Provides a uniform covering that, when exposed to high temperatures, releases chemically-bound water to cool the outer surfaces of the protected item and significantly retard heat transfer.

- Provides protection against large hydrocarbon pool fires in line with ASTM E 1529 (UL 1709)
- Applied to back/sides of metallic utility boxes
- Easily applied to complex shapes and around corners
- Outstanding performance in high-intensity fires
- Re-enterable for effective maintenance and inspection

Product Description	Werner Part No.
25" x 20' Roll	.4052367

3M™ Fire Barrier Composite Sheet CS-195+



Intumescent sheet used to firestop large openings with applications including blank openings, through penetrations of multiple cable, pipe ducts, bus ducts and cable trays. Bonded on one side to a layer of 28-gauge galvanized steel.

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479)
- Applications include through-penetration firestop, heat shield and firebreak protection
- Lightweight, easy to handle, just cut and form to desired shape
- Re-enterable for new or retrofit installations
- Thermally conductive allowing unwanted heat buildup to escape

Product Description	Werner Part No.
36" x 24"	.226033
28" x 52"	.3807478
16" x 28"	.3861833
36" x 41"	.3815062
36" x 36"	.230908

3M™ Firestop Training

Every year, firestop system testing becomes more rigorous, and building codes more demanding. You can't afford to be uninformed. Let 3M help you become a firestop installation expert. Whether you're new to firestopping or a seasoned pro, 3M has training designed for your needs.

Topics Include

- Life/Safety code compliance
- How to choose properly tested designs
- Learn proper installation techniques designed to save money
- Classroom and hands-on sessions

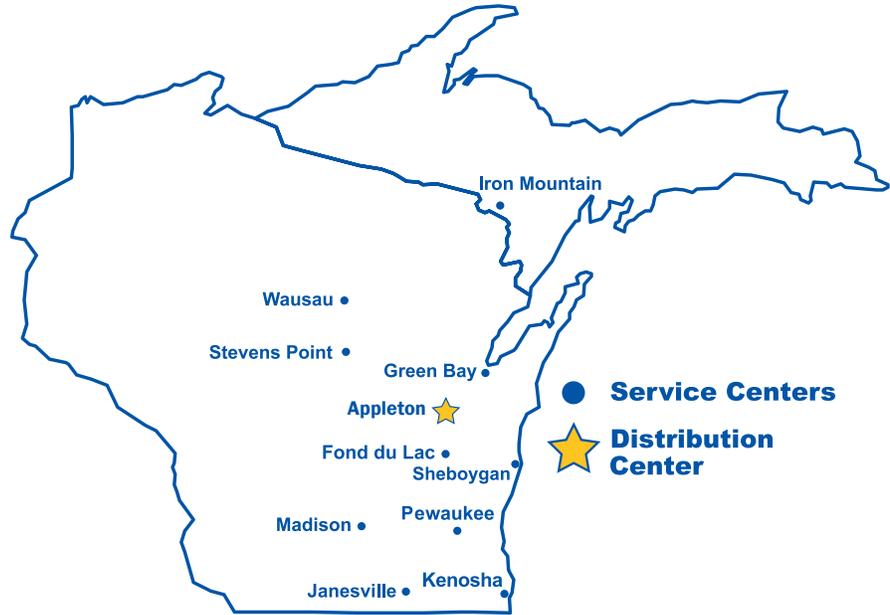
Contact John Casper, Werner Electric Supply's 3M Product Specialist, at 920-858-7934 or jcasper@wernerelectric.com to set up customized training.



Werner Electric Supply Locations

Werner Electric Supply is dedicated to continual improvement in the distribution of quality products and services resulting in the long-term trust, profitability, and success of our employees, customers, vendors, and the communities we serve.

ISO 9001:2015 CERTIFIED



West and Northeast Werner Electric Branches

Appleton - Headquarters

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Fond du Lac, WI 54937
Phone: 920-924-4500
Fax: 920-924-4510

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Green Bay, WI 54304
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Fax: 920-337-6710

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Fax: 920-694-3301

* Not all products are available in each location. Please contact your local Werner Electric Supply Representative for product availability.



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