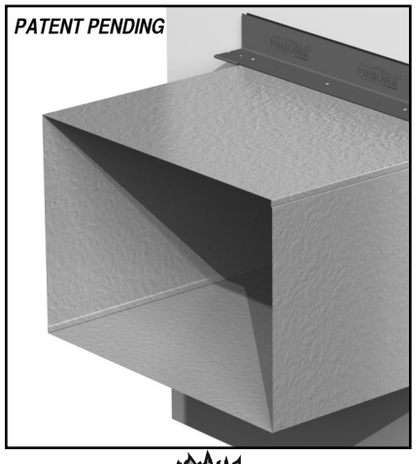
FYREFLANGE™ FIRESTOP ANGLE

APPLICATIONS

FyreFlange™ Firestop Angles are engineered for use with steel ducts up to 92" x 96" (234 x 244 cm) installed through barriers rated up to and including 2 Hrs. Tested designs include options for non-insulated duct as well as ducts insulated with up to 2" (51 mm) thick 3/4 pcf (12 kg/m^3) glass fiber duct wrap.



FYREFLANGE™ Firestop Angle

PRODUCT DESCRIPTION

FyreFlange™ Firestop Angles consist of galvanized steel retaining angles with a layer of bonded intumescent material designed to be installed around the perimeter of non-dampered square or rectangular steel ducts. Powder coated red for easy inspection and identification; FyreFlange™ Firestop Angles meet the exacting criteria of ASTM E814 (UL1479).

Unlike traditional duct firestopping methods utilizing backer or packing materials, sealants, and angles installed and inspected in stages, FyreFlange™ Firestop Angle can be installed as the duct is installed and inspected just once after the installation is complete.

In the event of fire, FyreFlange™ Firestop Angle prevents duct collapse and minimizes deflection. When exposed to temperatures in excess of 350°F (177°C), its intumescent gasketing system expands up to 15 times to form a dense insulative char that stops the spread of fire and minimizes heat transfer.

FEATURES

- **One step installation**
- **Economical - Saves labor**
- **Clearly marked for easy inspection**
- **Red color for easy identification**
- **No additional firestop or backing materials required**
- **Eliminates the need for multiple inspections**
- **Can be installed over or under duct insulation**

PERFORMANCE

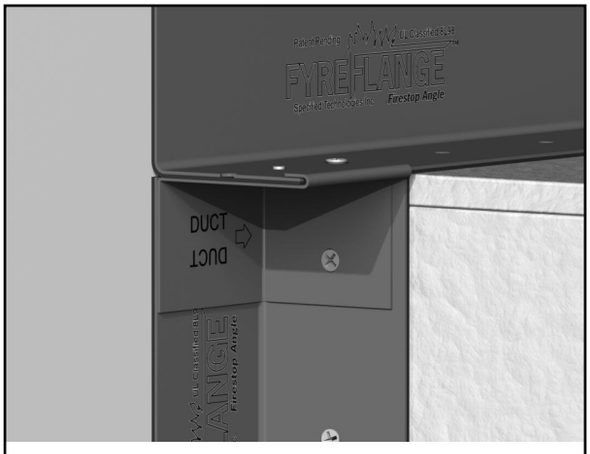
FyreFlange™ Firestop Angles are the basis for firestop systems for non-rated square or rectangular duct penetrations that meet the exacting criteria of ASTM E814 (ANSI/UL 1479). UL Systems have been tested for common forms of construction for up to 2 hours.

CLASSIFIED C UL US

Firestop device for use in through-penetration firestop systems. See UL Directory of Products Certified for Canada and UL Fire Resistance Directory.

PHYSICAL PROPERTIES

Properties	FyreFlange™ Firestop Angle
Dimensions:	2" x 2" x 96" (51 mm x 51 mm x 244 cm)
Metal Thickness:	0.035" (0.89 mm)
Weight:	4.1 lbs (1.9 kg)
Color:	Red
Expansion Begins:	350°F (177°C)
Expansion Range:	15X (Typical Free
Max. In Service Temperature:	130°F (54°C)
Radiation Exposure:	Unaffected
Shelf Life:	N/A
VOC Content:	N/A



PATENT PENDING

SPECIFICATIONS

The fire-rated retaining angles shall consist of powder coated galvanized steel angles with a bonded intumescent gasket and an integral corner clip assembly to join angle sections together. The fire-rated retaining angles shall provide a minimum 15x free expansion and shall contain no water soluble expansion ingredients. Fire-rated retaining angles shall be UL Classified and tested to the requirements of ASTM E814 (ANSI/UL 1479).

Division 7	07 84 13	Penetration Firestopping
Division 23	23 31 13	Metal Duct Fittings

INSTALLATION INSTRUCTIONS

NOTE: FyreFlange installation requires 2-1/4" (57 mm) of unobstructed space on the barrier surface on all sides of the duct . The maximum opening between the duct surface and the periphery of the barrier opening (annulus) is not to exceed 1" (25 mm) around all sides of the duct.

Where insulation is used, angle may be installed over compressed insulation and fastened through into the steel duct or insulation may be slit and angle may be attached directly to the duct. IMPORTANT: Where insulation is used, the maximum annulus noted above is measured from the duct surface and requires compression of the insulation where it passes through the barrier.

1. Using tin snips or saw with metal cutting blade, cut sections of FyreFlange™ Firestop Angles to length of top and bottom side of steel duct.
2. Cut FyreFlange™ Firestop Angles to length of each side of steel duct plus 4" (102 mm) to allow attachment of corner clips (Step 4).
3. Fasten FyreFlange™ Firestop Angles to steel duct by means of #10 x 1/2" (13 mm) steel sheet metal screws. Position screws 1" (25 mm) from each end and 6" (152 mm) center-to-center using pre drilled holes in angle.
4. Secure ends of FyreFlange™ Firestop Angles at each corner by means of integral corner clip system. Corner clips installed over flange section that terminates flush with the end of the duct trapping the perpendicular flange section extending past edge of duct. Corner clips secured by means of two #10 by 1/2" (13 mm) steel sheet metal screws. Note: Corner clips stenciled with positioning arrow pointing to duct.
5. FyreFlange™ System installed symmetrically on both sides of wall.

MAINTENANCE

No maintenance is ordinarily required with a product of this nature. Periodically inspect all fire-rated barriers to confirm that they are properly sealed.

TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets, and other technical information is available at the Technical Library at www.stifirestop.com.

PRECAUTIONARY INFORMATION

Wear appropriate safety equipment and exercise proper care when cutting metal. Cut edges may be sharp. Exercise care when handling.

AVAILABILITY

FyreFlange™ Firestop Angles are available from authorized STI distributors worldwide. Consult factory for names and locations of nearest sales representatives or distributors. Available sizes and additional SpecSeal® Products are listed below.

Part #	Description	Packaging	Size
FFA2208	FyreFlange™ Firestop Angle	6/Box	2" x 2" x 96" (51 x 51 mm x 244 cm)
FFC22	FyreFlange™ Corner Clips (8 per bag)	1 Bag	

CITY OF NEW YORK MEA 102-07-M

IMPORTANT NOTICE: All statements, technical information, and recommendations contained herein are based upon testing believed to be reliable, but the accuracy and completeness thereof is not guaranteed.

WARRANTY

Specified Technologies Inc. manufactures its goods in a manner to be free of defects. Should any defect occur in its goods (within one year), Specified Technologies Inc., upon prompt notification, will at its option, exchange or repair the goods or refund the purchase price.

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