

E-Wrap® Endothermic Wrap

E-Wrap® Endothermic Wrap is a protective wrap designed for fire protection of critical circuits and infrastructure such as fire pumps, signaling equipment, elevators, alarms, process control equipment, or emergency responder communications enhancement systems (ERCES). E-Wrap is also used for fuel oil pipe protection. When installed around Electrical Metallic Tubing (EMT), conduits, cable trays, or pipes, E-Wrap® releases chemically bound water to have a cooling effect providing up to 2 hours of circuit integrity ensuring continued operation under fire conditions.

Applications

Protecting circuits including cables, Electrical Metallic Tubing (EMT), conduits, or cable trays. Also used to protect fuel oil piping.

Specifications

The approved protective wrap product shall be a flexible, endothermic insulative wrap for the protection of electrical systems such as Electrical Metallic Tubing (EMT), conduits, cable trays, or pipes for up to 2 hours. The approved protective wrap shall be capable of being installed in layers and secured with minimum 16 GA (1.3 mm) steel tie wire to protect encapsulated items against the effects of fire and heat. The product shall be capable of providing equal F & T Ratings when applied to membrane penetrations of utility boxes. The approved protective wrap shall be certified by UL and Intertek. The approved product shall be STI E-Wrap® Endothermic Wrap.

Specified Divisions

Section 07 80 00	Fire and Smoke Protection
Section 07 84 00	Firestopping
Section 26 01 00	Operation & Maintenance of Electrical Systems
Section 27 20 00	Data Communications

Installation Information

Typical tools required include razor knives, aviation snips or electric cutting shears, measuring and marking implements, aluminum foil tape, No. 16 AWG steel tie wire or stainless steel banding straps.

Refer to Intertek or UL System and determine required number of layers. Follow design listing requirements for joints, seams, and overlaps. Mechanically restrain protective wrap with appropriate steel tie wire or stainless steel banding straps.

Features & Benefits

- Flexible material - easy to install, even on small diameter conduits
- Fewer layers required for protection - better coverage per roll
- Tested with Electrical Metallic Tubing (EMT) and heavier conduits or pipes
- Endothermic - releases chemically bound water to have a cooling effect
- Low density - weighs less than competing wraps
- May be used to achieve equal F&T Ratings on Penetration Firestop Systems
- Tested to ASTM E1725 for circuit integrity
- Tested to UL1489 for fuel oil pipe protection



TESTING & APPROVALS

Criteria	Circuit Integrity	Fuel Oil	Utility Box
Standard	ASTM E1725	UL1489	ASTM E814/UL1479
Values	1, 2 Hour	1, 2 Hour	1, 2 Hour



Listed C5013598
Refer to Intertek's
Directory of
Building Products
For Detailed
Information.

PHYSICAL PROPERTIES

Color	Silver
Facing	Aluminum Foil Scrim
Dimensions	2 ft (61 cm) x 20 ft (610 cm)
Thickness	0.5 in (13 mm)
Roll Weight	54.2 lbs (24.6 kg)
Density	32 PCF (512.59 kg/cu m)
Wrap Area	40 sq ft (3.72 sq m)
Shelf Life	Unlimited (when stored properly)

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Storage Information

Material to be stored in floored, covered warehouse and protected from rain, water, other liquids, and inclement weather where moisture and dampness may deteriorate product. Direct liquid contact will be detrimental and destructive to insulating and physical properties. Store on pallets, timber or concrete blocks to prevent moisture absorption from the ground. Do not stack pallets to prevent compression of insulation.

Limitations

This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

Maintenance

No maintenance is ordinarily needed. If foil scrim is damaged, repair with aluminum foil tape and maintain min. 2 in. (51 mm) overlap. For more extensive damage, remove and repair as per original design listing.

System Selection

To find your firestop system or create a submittal, visit <https://systems.stifirestop.com/> to use System Search & Submittal Builder. You may also visit the [UL Online Certifications Directory/UL Product iQ™](#) for complete listings. (Firestop Systems).

Technical Service

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL System designs suitable for submittal or specification purposes are available on request. A complete library of technical information is provided at the company's website www.stifirestop.com including Safety Data Sheets (SDS's).

Availability

E-Wrap® Endothermic Wrap is available from Specified Technologies Inc. (STI) authorized distributors. For additional purchasing and technical information or for the names and locations of the nearest representative and/or distributor, regarding this and other Specified Technology products, please call 1-800-992-1180 or visit www.stifirestop.com.

ORDERING INFORMATION

Catalog Number	UPC Number	Description	(UOM) Qty.	Case Quantity	Weight (Each)
EW2420	730573350065	20' (6.1 m) L x 24" (610 mm) W x 0.50" (13 mm) T 40 sq ft (3.72 sq m) roll	1	1	54.20 lbs (24.58 kg)

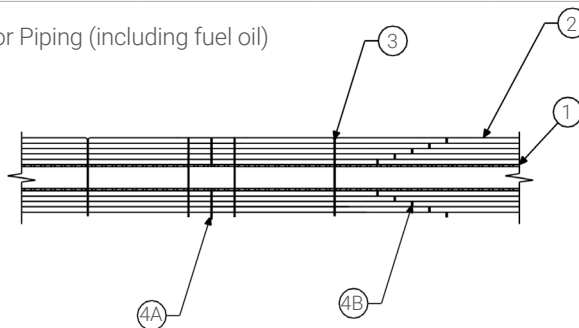
1. Electrical Metallic Tubing (EMT) or Steel Conduit with Electrical Conductors or Piping (including fuel oil)

2. E-Wrap® Endothermic Wrap

3. Steel tie wire or stainless steel banding straps

4A. Overlapping seams between E-Wrap® sections/layers sealed with SpecSeal® LCI Sealant

4B. Telescoping Seams between E-Wrap® sections/layers



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.

STI TYPICALLY WARRANTIES ITS PRODUCTS FOR ONE FULL YEAR. FOR COMPLETE DETAILS OF OUR STANDARD WARRANTY, PLEASE VISIT WWW.STIFIRESTOP.COM/LEGAL/WARRANTY

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