

## STI THERMAL BARRIER WRAP

*A flexible protective wrap material for electrical circuits and membrane penetrations*



### PRODUCT DESCRIPTION

STI Thermal Barrier Wrap is a protective wrap material that, when exposed to elevated temperatures during fire conditions, releases chemically bound water to have a cooling effect along with superior high temperature insulation performance. It is used to protect mission critical electrical components for up to 2 hours. It can also be used to provide equal F and T Ratings for membrane penetrations of larger utility boxes in gypsum board/stud wall assemblies.

### APPLICATIONS


- Protecting electrical circuits including cables, conduits, cable trays
- Membrane penetrations of utility boxes including electrical panels, medical gas boxes, elevator call boxes

### FEATURES & BENEFITS

- Up to 2 hour fire ratings for circuit protection applications
- Flexible material easy to install even on small diameter conduits
- Does not contain refractory ceramic fiber (RCF)

### TESTING & APPROVALS

Performance Criteria	Standards	Values
Thermal Barrier & Circuit Integrity Protection	ASTM E1725, UL1724	1 and 2 Hour Ratings
Membrane Penetrations of Fire Rated Walls	ASTM E814, ANSI/UL1479, CAN/ULC S115	1 and 2 Hour F & T Ratings



ELECTRICAL CIRCUIT PROTECTIVE MATERIALS FOR USE IN ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS. SEE UL® FIRE RESISTANCE DIRECTORY

FILL, VOID OR CAVITY MATERIALS FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE UL® FIRE RESISTANCE DIRECTORY

### PHYSICAL PROPERTIES

<b>Color:</b>	Silver
<b>Encapsulation:</b>	3 ply aluminum foil scrim reinforced polypropylene facing
<b>Thickness:</b>	0.4 in. (10 mm)
<b>Dimensions:</b>	34x72 in. sheets (86 x 183 cm)
<b>Weight:</b>	0.55 lbs/sq.ft. (0.23 kg/m <sup>2</sup> )
<b>Density:</b>	16 PCF (256.3 kg/m <sup>3</sup> )
<b>Wrap Area/Sheet</b>	17 sq.ft. (1.58 m <sup>3</sup> )
<b>Thermal Conductivity at 75F:</b>	0.20 BTU-in/hr·ft <sup>2</sup> ·°F (0.029 W/m·°C)
<b>Loss on Ignition:</b>	<1% at 400°F (149°C), <20% at 1850°F (1,010°C)
<b>Tensile Strength:</b>	150 osi (1.03 Mpa)
<b>Shelf Life:</b>	Unlimited (when stored properly)

### INSTALLATION INFORMATION

Typical tools required include razor knives, aviation snips or electric cutting shears, measuring and marking implements, 3 mil aluminum foil tape, No. 18 AWG steel tie wire.

Refer to 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.

### 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.

### 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 UL design listing.

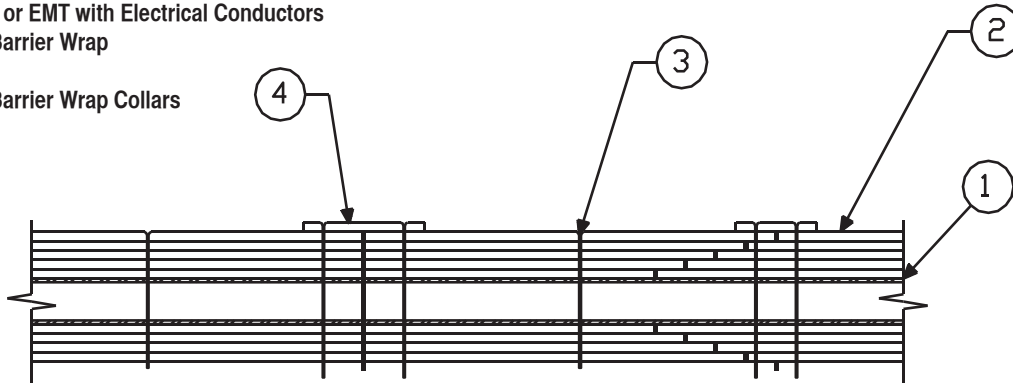


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ORDERING INFORMATION

UPC# 730573	Cat. No.	Description	Case Qty.	Weight
35001	TBW36	34" x 72" (86 x 183 cm) Protective Wrap Material	5	10 lbs (4.5 kg)

1. Steel Conduit or EMT with Electrical Conductors
2. STI Thermal Barrier Wrap
3. Steel tie wire
4. STI Thermal Barrier Wrap Collars



WARRANTY INFORMATION

LIMITED WARRANTY: STI warrants that its products will be free of defects for one year from the date of purchase. In the event a product does not conform to this warranty, the sole and exclusive remedy is, at STI's option, replacement of the product or refund of the purchase price. The warranty provided herein shall be void and of no effect in the event that the product is not installed in accordance with STI's published instructions, listed systems and applicable building and safety codes. THIS WARRANTY IS IN LIEU OF ALL OTHER REPRESENTATIONS AND EXPRESSED OR IMPLIED WARRANTIES (including the implied warranties of merchantability or fitness for a particular use) AND UNDER NO CIRCUMSTANCES SHALL STI BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING, WITHOUT LIMITATION, ANY LOSS OF REVENUE, PROFIT OR USE. Prior to use, the user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability for subsequent use. No person other than an officer of STI is authorized to bind STI to any other warranty for any product for which this warranty is issued.



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