

Trisotech® HD Cover Board FR

FEATURES

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Manufactured in accordance with ASTM C1289, Type II, Class 4, Grade 1 (80 psi (551 kPa)) minimum, up to 110 psi (758 kPa) compressive strength) and CAN/ULC-S704 Type 4, Class 3.

BENEFITS

Tremco Fasteners and Discs are recommended where mechanical attachment of the insulation is specified over steel and wood decks.

Manufactured and tested for use in new and re-roofing applications.

Hot asphalt may also be used to adhere coverboards over Trisotech® HD FR Insulation.

DESCRIPTION:

Fire-rated closed-cell polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers (CGF) on both sides. Available in 0.625" thick 4ft x 8ft (1220mm x 2440mm) and 0.625" 4ft x 4ft (1220mm x 1220mm) panels. Manufactured in accordance with ASTM C1289, Type II, Class 4, Grade 1 (80 psi (551 kPa)) minimum, up to 110 psi (758 kPa) compressive strength).

BASIC USES:

Manufactured and tested for use in new and re-roofing applications. Trisotech HD CoverBoard FR is used in mechanically attached single-ply, fully adhered single-ply, and self-adhered roofing systems. These roofing systems depend on proper installation for successful performance. Refer to the roof cover manufacturer, FM Approvals® RoofNav and UL Product iQ® for additional application details.

SIZES:

- 0.625" thick 4ft x 8ft
- 0.625" thick 4ft x 4ft

APPLICATION:

Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based on the condition of your roof.

STRUCTURAL DECKS:

Must be properly designed and structurally sound.

DRAINAGE:

Ponding conditions are unacceptable and will adversely affect the performance of any roofing system. If positive drainage does not exist, water removal from the roof surface must be facilitated by lowering drains, and/or installing additional drains, or Tremco approved cellular concrete system.

INSULATION STORAGE:

Insulation must be dry and kept dry. When stored outdoors, stack insulation on pallets at least 4 inches (100mm) above ground level. Upon receipt of insulation on the job site, remove the factory plastic packaging. Cover the top and sides of the insulation with waterproof tarpaulin (not polyethylene) and secure. Do not stack more than two pallets high.

INSTALLATION:

MULTIPLE LAYERS:

The use of two separate layers of insulation is recommended, but required over steel decks. After securing the first layer of insulation, install the additional layer(s) with the board joints offset a minimum 6 inches (150mm) from the joints of the preceding layer. Two layers, with board joints offset, can minimize stress on the roof membrane which results from thermal movement of the deck.

ADHESIVE APPLICATION:

Tremco Fas-n-Free, Tremco Low Rise Foam Adhesive, and Tremco Low Rise Foam Adhesive Green are recommended for use with Trisotech HD Coverboard FR. Obtain and read the Specification Data Sheets for adhesive products prior to use.

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BITUMEN APPLICATION:

Hot applied asphalt can be used to adhere Trisotech HD Coverboard FR to concrete decks, to base sheets which are mechanically attached to wood or gypsum decks, and to insulation layer(s) previously secured. Hot asphalt may also be used to adhere coverboards over Trisotech HD Coverboard FR Insulation. Concrete decks should be primed with Tremprime WB and allowed to thoroughly dry. Adhere insulation to substrate in a full coverage of hot applied bitumen, at a coverage rate of 30 lbs. per 100 sq. ft. (1.5 kg/ m²) ± 20%. Place insulation immediately into the hot bitumen and step into place to achieve a solid bond.

MECHANICAL FASTENER APPLICATION:

Tremco Fasteners and Discs are recommended where mechanical attachment of the insulation is specified over steel and wood decks. Do not mix fasteners and discs of different brands unless the combination has been specifically tested and approved by Tremco. Fasteners must be driven perpendicular to the deck. Do not overdrive the fastener, as the insulation may fracture and become susceptible to loss of attachment. Fastener should be driven tight enough so that the disc will not turn.

LIMITATIONS:

- Not intended for use under ponding conditions. Positive drainage is required.
- Not to be exposed to solvents, oils or other contaminants harmful to polyisocyanurate foam insulation.
- Insulation stops are required on roofs with slopes of 2:12 (2" per foot) or greater.
- Not for use directly under hot applied roof membranes. A wood fiber or gypsum cover board is required prior to the application of a hot applied roof membrane.
- For adhered systems where a cover board is not specified, multiple layers of Trisotech HD must be used when the total insulation thickness is 3.0" or greater.
- For adhered single ply systems when a cover board is not specified, the maximum thickness for the top layer of Trisotech HD Coverboard FR is 2.7".

PHYSICAL PROPERTIES:

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TRISOTECH HD COVERBOARD-FR MEETS OR EXCEEDS THE FOLLOWING PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	ASTM C1289 OR CAN/ULC S704 (MIN REQUIREMENTS)
DIMENSIONAL STABILITY	ASTM D2126	<0.5%
COMPRESSIVE STRENGTH	ASTM D1621	¹ Grade 1
WATER ABSORPTION	ASTU C209	<4.0%
	ASTM C1763	<4.0%
	ASTM 02842	<3.5%
WATER VAPOR TRANSMISSION	ASTM E96	<1.5 perm (85.8ng/(Pa•s•m ²))
FLAME SPREAD	ASTM E84/UL723	² <75
SMOKE DEVELOPMENT	ASTM E84/UL723	² <450
TENSILE STRENGTH	ASTM D1623	>2000 psf (95 kPa)
SERVICE TEMPERATURE	-	-100°to +250°F

¹80 psi (551 kPa) minimum, up to 110 psi (758 kPa)

²Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of <75 and smoke development <450 meet code requirements for foam plastic roof insulation. Physical properties listed above are presented as typical average values as determined by referenced ASTM text methods and are subject to normal manufacturing variation.

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MAINTENANCE:

Your local Tremco Roofing Sales Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS:

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT:

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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