

Technical Information Sheet



ISOGARD™ HD COVER BOARD (GRADE 1 OR GRADE 2)

Item Description	Item Number
Grade 1 (109 psi max.):	
4' x 4' (1.22 m x 1.22 m)	W848CC050I
4' x 8' (1.22 m x 2.44 m)	W848CC050H
Grade 2 (139 psi max.):	
4' x 4' (1.22 m x 1.22 m)	W84HCC050I
4' x 8' (1.22 m x 2.44 m)	W84HCC050H

Meets or exceeds performance requirements and recommendations of ASTM C 1289, Type II, Class 4

DESCRIPTION

Elevate™ ISOGARD HD Cover Board is a 1/2" (12.7 mm) thick polyiso with insulating properties. It has a high density, closed cell, polyisocyanurate foam and coated glass facers. Elevate ISOGARD HD Cover Board provides a high thermal performance when compared to other high-density insulations or cover boards.

All Elevate polyisocyanurate insulations use EPA accepted blowing agents. Elevate ISOGARD HD Cover Board with ISOGARD foam technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone layer (ODP-free).

ISOGARD HD is a mold resistant material per ASTM D3273.

CODE APPROVALS

FM4470, UL 790, UL Classified

METHOD OF APPLICATION

- Insulation shall be neatly fitted to all roof penetrations, projections, and nailers. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.
- Elevate ISOGARD HD Cover Board can be applied over: existing roof surfaces, under fully adhered or mechanically attached Single-Ply, Modified Bitumen systems applied in Multi-Purpose MB Cold Adhesive and BASEGARD™ SA base sheets with a torch applied cap or SBS sand backed cap sheet in hot asphalt.
- Elevate HD Cover Board must be installed using Elevate Fasteners and Plates or one of the following Elevate insulation adhesives:
 - I.S.O. Twin Pack™
 - I.S.O. Spray™ R
 - Approved Hot Asphalt*
 - Twin Jet
 - I.S.O. Stick™

STORAGE

- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.

PRECAUTIONS

- Combustible. Refer to the Safety Data Sheet (SDS) for more information.
- Do not install over wet, damp, or uneven substrates.
- Do NOT install material when wet.
- Do NOT torch apply membranes to ISOGARD HD cover boards.
- Do NOT use hot asphalt to apply asphalt roofing systems to ISOGARD HD cover boards.

LEED® INFORMATION

Recycled Content: Approximately 9%*

*Contains Post Industrial recycled content.

Manufacturing Location: Corsicana, TX Youngwood, PA Jacksonville, FL
 De Forest, WI Florence, KY Bristol, CT



Manufactured in an ISO 9000 Registered Facility

FM Global Approved when applied with the fastening pattern shown.

NOTE: LEED® is a registered trademark of the U.S. Green Building Council

TYPICAL PROPERTIES				
Property		ASTM Test	Typical Performance	
Compressive Strength	Grade 1: per C1289: (80 psi) min. (551.58 kPa)	D1621	109 psi (751.53 kPa) max.	
	Grade 2: per C1289: (110 psi) min. (758.42 kPa)		139 psi (958.37 kPa) max.	
Weight	Grade 1	---	<u>4' x 4' (1.2 m x 1.2 m)</u> 5.5 lb (2.5 kg)	<u>4' x 8' (1.2 m x 2.4 m)</u> 11 lb (5 kg)
	Grade 2		6 lb (2.7 kg)	12 lb (5.4 kg)
Thermal Resistance		C518	2.5 R	
Dimensional Stability		D2126	<0.50%	
Water Absorption		C209	<3% by Volume	
Service Temperature		---	-100 to 250 °F (-73 to 121 °C)	
Resistance to mold		D3273	Pass	
Flute Span over metal decks		---	2.625" (66.7 mm)	
Flame Spread		E84	50	
Smoke Developed		E84	160-180	

ACCEPTABLE SUBSTRATES	
Property	NOTE
Structural Concrete, 3000 psi (new & existing)	Please consult Membrane Design Guides online at www.elevatecommercialbp.com to review specific information regarding fastener types appropriate for the type of deck and insulation in use.
Steel, min. 22 gauge	
Lightweight Concrete*	
Plywood and OSB, min. 1/2"	
Gypsum, min. 2"	
NOT ACCEPTABLE	Do not use hot asphalt to adhere membrane to ISOGARD HD cover boards. Elevate ISOGARD HD cover board is not suitable as an immediate substrate for a ballasted roof system.

* A vapor retarder is required to be installed under systems with insulation. A properly prepared, existing, dry and sound, uninsulated built-up roof system (all splits and blisters repaired) can be used as a vapor retarder.

Please contact Elevate Technical Services at 800-428-4511 for further information.

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