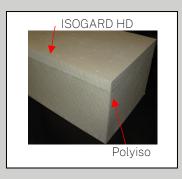


# **Technical Information Sheet**



# ISOGARD™ HD Composite

Item Description

High Density Composite Board

Meets or exceeds performance requirements and recommendations of ASTM C 1289, Type IV

#### Description

Elevate ISOGARD HD Composite roof insulation consists of a closed cell polyiso foam core laminated to ½" (13 mm) high density ISOGARD HD board, and coated glass facers. It resists hail damage and foot traffic while providing outstanding thermal performance and is suitable for use with most commercial roofing systems.

All Elevate polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Elevate ISOGARD HD Composite board with ISOGARD Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

ISOGARD HD Composite is a mold resistant material per ASTM D3273.

## Method of Application

- 1. 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
- 2. Elevate ISOGARD HD Composite Board may be installed using Elevate Fasteners and Insulation Plates or approved Elevate Insulation Adhesives:
  - I.S.O. Twin Pack™
  - I.S.O. Spray<sup>™</sup> R
  - I.S.O. FIX™ II
  - 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.

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#### **Precautions**

- Elevate ISOGARD HD Composite is not suitable as an immediate substrate for a ballasted roof system.
- Polyiso foam will burn if exposed to a flame of sufficient heat/intensity. Keep away from heat, sparks, and open flames.
- Protect against dust that may be generated during installation.
- Refer to Safety Data Sheet (SDS) for additional information.

#### **Specification Compliance**

ASTM C1289, Type IV

**UL** Classified

UL 723/ASTM E84 Flame Spread 50, Smoke Developed 160-180

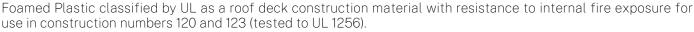
FM Global Class 1 Approved

Water Absorption by Volume

Service Temperature

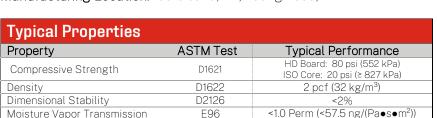
April 30, 2024

FM Global approved for Class 1 insulated steel deck construction.



APPROVED

Manufacturing Location: Corsicana, TX, Youngwood, PA



C209

<b>Product Data: Available Sizes:</b> 4' × 4' (1.22 m × 1.22 m), 4' × 8' (1.22 m × 2.44 m)						
Thickness inch/mm	<b>LTTR* (R-Value)</b> in ft² h °F	Max Flute Span inch/mm	Weight per 4'x 4' (1.2 m x 1.2 m) board	Total Recycled Content %	Post Industrial %	Post Consumer %
1.50 (38.1)	8.2	4.375 (111.1)	9.9 lb (4.5 kg)	44	15	29
2.00 (50.8)	11.1	4.375 (111.1)	11.2 lb (5 kg)	39	15	24
2.50 (63.5)	13.9	4.375 (111.1)	12.5 lb (5.7 kg)	35	15	18
3.00 ()76.2)	16.9	4.375 (111.1)	13.7 lb (6.2 kg)	32	15	17
3.50 (88.9)	19.9	4.375 (111.1)	15 lb (6.8 kg)	30	15	15
4.00 (101.6)	23.0	4.500 (114.3)	16.3 lb (7.4 kg)	29	15	14

<1% -100 to 250 °F (-73 to 121 °C)

\*Long Term Thermal Resistance (LTTR) in accordance with ASTM C 1303-11 and CAN/ULC-S770-09

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

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

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Holcim takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Holcim nor its representatives practice architecture. Holcim offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Holcim accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Holcim representative is authorized to vary this disclaimer.

Sales: (800) 428-4442 | Technical (800) 428-4511

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