

GENFLEX HD COMPOSITE ISO

Item Description

High Density Cover Board

Grade 1 (109 psi max.):

4' x 4' (1.22 m x 1.22 m)

4' x 8' (1.22 m x 2.44 m)

Grade 2 (139 psi max.):

4' x 4' (1.22 m x 1.22 m)

4' x 8' (1.22 m x 2.44 m)

Item Description Composite Board

Combined High Density Composite Board

Thickness Range:

1.5" to 4" (38.1 mm to 101.6 mm)



Product Information

Description

GenFlex HD Composite ISO consists of a closed-cell polyiso foam core laminated to ½" (12.7 mm) high density HD Composite board. It resists hail damage and foot traffic while providing outstanding thermal performance. GenFlex HD Composite ISO board is suitable for use with most commercial roofing systems.

All GenFlex polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material.

Typical Properties

Property		ASTM Standard	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.
	ISO Core		20 psi (≥ 827 kPa)
Density		D1622	2 pcf (32 kg/m³)
Dimensional Stability		D2126	< 2%
Moisture Vapor Transmission		E96	< 1.0 Perm (<5735 ng/(Pa•s•m²))
Water Absorption		C209	< 1%
Service Temperature		---	-100 to 250 °F (-73 to 121 °C)

Installation

1. Insulation shall be neatly fitted to all roof penetrations, projections, and nailers.
2. 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.
3. GenFlex HD Composite ISO may be installed using: GenFlex Fasteners and Plates or GenFlex Approved Insulation Adhesives:
 - a. GenFlex ISO Bond Insulation Adhesive
 - b. Quick Dual™
 - c. GenFlex One Step Insulation Adhesive

Product Data

Thickness**	LTTR* (R-Value)	Max Flute Span	Total Recycled Content %	% Post Industrial	% Post Consumer
1.5" (38.1 mm)	8.2	4.375" (111.1 mm)	44	15	29
2" (50.8 mm)	11.1	4.375" (111.1 mm)	39	15	24
2.5" (63.5 mm)	13.9	4.375" (111.1 mm)	35	15	18
3" (76.2 mm)	16.9	4.375" (111.1 mm)	32	15	17
3.5" (88.9 mm)	19.9	4.375" (111.1 mm)	30	15	15
4" (101.6 mm)	20.5	4.5" (114.3 mm)	29	15	14

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

**Other thicknesses available upon request

*LEED® Information

ASTM C1289, Type IV

UL Classified

FM Global Class 1 Approved

FM Global approved for Class 1 insulated steel deck construction.

Foamed Plastic classified by UL as a roof deck construction material with resistance to internal fire exposure for use in construction numbers 120 and 123 (tested to UL 1256).

Available Sizes: 4' x 4' (1.22 m x 1.22 m)

4' x 8' (1.22 m x 2.44 m)

Manufacturing Location: Youngwood, PA

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

Storage

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

Precautionary Data

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

Acceptable Substrates

Substrate	NOTE
Structural Concrete, 3000 psi (New & Existing)	Please consult Membrane Design Guides online at www.genflex.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. ½"	
Gypsum, min. 2"	Do not use hot asphalt to adhere ½" HD ISO cover boards. GenFlex ½" HD ISO cover board is not suitable as an immediate substrate for a ballasted roof system.
NOT ACCEPTABLE	

*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 Quality Building Services Technical Department at 1-800-443-4272 option 1, for further information.

This sheet is meant to highlight GenFlex products and specifications and is subject to change without notice. GenFlex takes responsibility for furnishing quality materials which meet published GenFlex product specifications. Neither GenFlex nor its representatives practice architecture. GenFlex offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. GenFlex 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 GenFlex representative is authorized to vary this disclaimer.