

Product Data Sheet



GenFlex HD Composite ISO

Item Description	Item Number Composite Board
High Density Cover Board	Combined High Density Composite 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)	Thickness Range: 1.5" to 4" (38.1 mm to 101.6 mm)
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)	

Description

GenFlex HD Composite ISO consists of a closed cell polyiso foam core laminated to 1/2" (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.

Method of Application

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:
 - GenFlex ISO Bond Insulation Adhesive
 - Quick Dual™
 - GenFlex One Step Insulation Adhesive

Storage

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

Precautions

- 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.
- Use in accordance with GenFlex Specifications.
- Refer to Safety Data Sheets (SDS) for additional safety information.

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

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/m ³)
Dimensional Stability		D2126	<2%
Moisture Vapor Transmission		E96	<1.0 Perm (<5735 ng/(Pa•s•m ²))
Water Absorption		C209	<1%
Service Temperature		---	-100 to 250 °F (-73 to 121 °C)

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

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

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