

GenFlex HD ISO (Grade 1 or 2)

Item Description

Grade 1 (109 psi max.):

4' x 4' (1.2 m x 1.2 m)

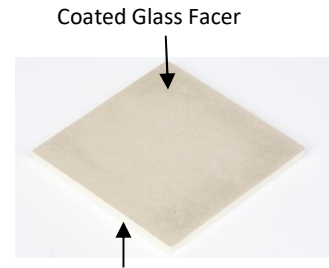
4' x 8' (1.2 m x 2.4 m)

Grade 2 (139 psi max.):

4' x 4' (1.2 m x 1.2 m)

4' x 8' (1.2 m x 2.4 m)

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



Product Information

Description

GenFlex HD ISO is a half-inch (13 mm) thick polyiso insulation designed for use as a cover board. It is a high density, closed-cell, polyisocyanurate foam core that has been manufactured with a coated glass facer. GenFlex HD ISO provides high thermal performance.

All GenFlex polyisocyanurate insulations use EPA accepted blowing agents and incorporate an HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-Free).

Code Approvals

FM4470, UL 790, UL Classified

Installation

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.

GenFlex HD ISO 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

GenFlex HD ISO Cover Board must be installed using GenFlex Fasteners and Plates or one of the following GenFlex insulation adhesives:

- GenFlex ISO Bond
- GenFlex One Step

Storage

Keep insulation dry at all times.

Precautionary Data

- Elevate insulation above the deck or ground.
- Combustible. Refer to SDS for more information.
- Do not install over wet, damp or uneven substrates.
- Do NOT install when wet.
- Do NOT torch apply membranes to GenFlex HD ISO cover boards
- Do NOT use hot asphalt to attach or apply asphalt roofing systems to GenFlex HD ISO cover boards

*LEED® Information

Recycled Content: approximately 9%*

*Contains post industrial recycled content.

Manufacturing Location: Corsicana, TX Youngwood, PA Jacksonville, FL

DeForest, WI Florence, KY Bristol, CT

Manufactured in an ISO 9000 Registered Facility

FM Global Approved when applied with the fastening pattern shown.



ASTM C1289 Type II, Class 4

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.	
Weight	Grade 1 Grade 2	---	<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)
			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 Development		E84	160 - 180	

Acceptable Substrates	
Substrate	NOTE
Structural Concrete, 3000 psi (New & Existing)	Please consult Membrane Design Guides on line 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"	
NOT ACCEPTABLE	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.

*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 Technical Services 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.