

GenFlex HD ISO

Item Description

ASTM C1289 Type II, Class 4, Grade 1

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

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

ASTM C1289 Type II, Class 4, Grade 2

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

FM 4450, 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

Property	ASTM Standard	Typical Values
Compressive Strength:		≥ 80 psi (≥ 551 kPa)
Grade 1	D1621	
Grade 2	D1621	≥ 120 psi (≥ 827 kPa)
Dimensional Stability	D2126	<0.5%
Water Absorption	C209	<3%
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

Product Data

Property	Thickness inches (mm)	R-Value
Thermal Resistance	0.5 (13)	2.5

Typical Properties

Property	NOTES
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 ¹	
Plywood and OSB, min. ½"	
Gypsum, min. 2"	
NOT ACCEPTABLE	Do not use hot asphalt to adhere GenFlex HD ISO. GenFlex HD ISO cover board is not suitable as an immediate substrate for a ballasted roof system.

¹ 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.

NOTE: Be sure to use the required fastener for an FM approved system.

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.



November 2019

GenFlex is pleased to announce a new family of polyiso insulation. This new line of insulation maintains current thermal performance characteristics at 110 °F and 75 °F but increased lower temperature performance to 6.2R/in at 40 °F to meet both ASTM required and recommended standards. All mechanical performance characteristics, codes, look and feel, packaging, and installation requirements remain the same as the former product offering.

As specs are being updated and plants and distribution facilities deplete inventory, there is the possibility of having mixed bundles on a project. The below substitutions are permissible and meet the same performance and approval requirements for the intended systems.

GENFLEX POLYISO → GENFLEX GL ISO

COATED GLASS FACER → GENFLEX CG ISO

GENFLEX HD POLYISO → GENFLEX HD ISO

GENFLEX COMPOSITE POLYISO → GENFLEX HD COMP ISO

GENFLEX NAILBASE ISO → GENFLEX NB ISO

This notice serves as confirmation of the acceptability of the new GENFLEX line of polyiso as replacement for those listed above.

Thank you for supporting GenFlex