

GenFlex ½" 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)



Product Information

Description

GenFlex ½" -HD ISO is a half-inch (12.7 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 ½" 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 ½" 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 ½" 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 ½" HD ISO cover boards
- Do NOT use hot asphalt to attach or apply asphalt roofing systems to ½" 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	Units	Value	Units	Value
Compressive Strength:					
Grade 1	D1621	psi	≥ 80	kPa	≥ 551
Grade 2	D1621		≥ 120		≥ 827
Dimensional Stability	D2126	%	<0.5	%	<0.5
Water Absorption	C209	% by volume	<3	% by volume	<3
Service Temperature	---	°F	-100 to 250	°C	-73 to 121
Resistance to Mold	D3273	--	pass	---	pass
Flute Span over metal decks	---	inches	2.625		
Flame Spread	E84	index	50		
Smoke Development	E84	index	160 – 180		---

Product Data

Property	Thickness inches (mm)	R-Value
Thermal Resistance	0.5 (12.7)	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 ½" HD ISO cover boards. GenFlex ½" 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 Quality Building Services Technical Department at 1-800-443-4272 option 1, for further information.

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