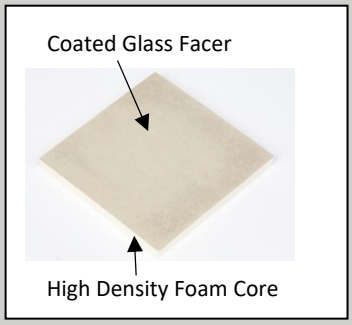
Product Data Sheet



GenFlex ½" HD ISO

Item Description	
Grade 1 (109 psi max.):	**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)	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

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

FM4470, UL 790, UL Classified

Method of Application

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.

Precautions

- Elevate insulation above the deck or ground.
- Combustible.
- 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
- Refer to Safety Data Sheets (SDS) for additional safety information.

LEED® Information

Post-Consumer Recycled Content: 9%
*Contains post-industrial recycled content
Manufacturing Location: Corsicana, TX • Youngwood, PA
Jacksonville, FL • DeForest, WI
Florence, KY • Bristol, CT

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

Typical Properties

Property		ASTM Standard	Typical Performance	
Compression 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	---	4' x 4' (1.2 m x 1.2 m) 5.5 lb (2.5 kg)	4' x 8' (1.2 m x 2.4 m) 11 lb (5 kg)
	Grade 2		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 Spam over metal decks		---	2.625" (66.7 mm)	
Flame Spread		E84	50	
Smoke Development		E84	160-180	

Acceptable Substrates

**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.*

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"	
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.