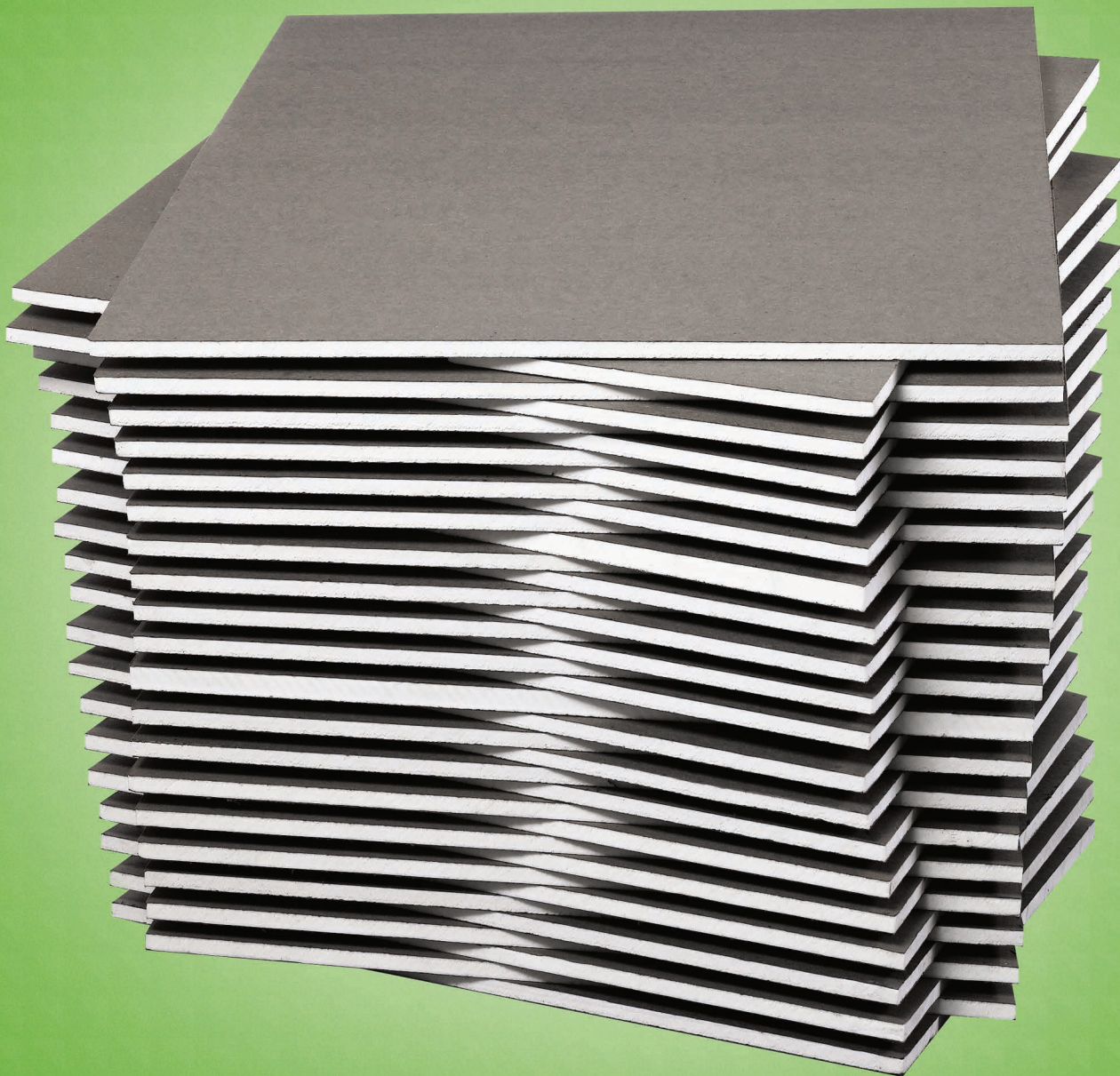# POLYISO
Polyisocyanurate Roofing Insulation

GENFLEX™
Roofing Systems

Above all.

WHEN YOU NEED A GO-TO PRODUCT, STOP RIGHT HERE

Polyiso is one of the most effective and economical insulation products in the roofing industry. GenFlex Polyiso goes above and beyond. Our highly efficient thermal insulation board options – which include GenFlex Polyiso, Tapered Polyiso, Coated Glass Facer, Composite Polyiso, Nailbase Polyiso and HD ISO – combine unmatched reliability with impact resistance, energy savings, fire resistance and ease of handling and installation. Plus it's affordable. So why go anywhere else?

ROOFING CHALLENGES ARE NEVER OVER OUR HEADS.

At GenFlex, we live to tackle – and solve – the toughest challenges in roofing. The result is a full line of proven, durable roofing systems and components that provide you with quality, ease of installation and complete warranty coverage. It's that simple. Listening and responding to the needs of our customers has kept GenFlex at the forefront of new roofing products and technologies for over 30 years. And that's experience you can rely on.

FEATURES AND BENEFITS

- Higher R-value per inch than some other insulations
- Environmentally sound choice
- HCFC Free for no ozone depletion
- Proven fire resistance
- Superior strength
- Meets building code requirements
- Compatible with GenFlex EPDM and EZ TPO

SUPERIOR PACKAGING

Polyiso is wrapped to ensure the integrity of the product during shipping.

- Heavy-duty shrink wrap packaging provides a durable protective covering
- Does not require tarping for transportation
- Makes bundles easier to handle

GENFLEX POLYISO

GENFLEX POLYISO

Perfect for use with virtually all membrane roofing systems, GenFlex Polyiso is a highly efficient thermal insulation board with a polyisocyanurate foam core bonded to fiber-reinforced facers. It is approved for new construction and reroofing over virtually all roof deck types.

- ▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid
- ▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.43 m)
- ▼ **Thickness*:** 1.5" (38.1 mm) to 4.0" (101.6 mm)

GENFLEX TAPERED POLYISO

Tapered to provide a sloping surface, it promotes positive drainage for roofing applications. Approved for new construction and reroofing over steel, wood, noncombustible and certain types of nailable roof decks. GenFlex roof estimating services can design a custom tapered system for any building.

- ▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid
- ▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m)
- ▼ **Thickness*:** 1/2" (12.7 mm) min. to 4 1/2" (114.3 mm) max.
- ▼ **Slope per foot:** 1/16" (.5%), 1/8" (1%), 1/4" (2%) and 1/2" (4%)
- ▼ **Availability:** Available with coated glass facer

GENFLEX NAILBASE POLYISO

Combines nailable oriented strand board (OSB) and thermally efficient polyiso insulation protecting against accidental puncture, hail up to two inches in diameter and 100 mph winds. It's also suitable for use with single-ply or asphalt membranes, metal roofing and shingles.

- ▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid
- ▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.43 m)
- ▼ **Thickness*:** 1.5" (38.1 mm) to 4.0" (101.6 mm)

GENFLEX HD POLYISO

GenFlex HD ISO Cover Board is a high-density polyiso insulation designed for use anywhere a cover board is required. This high-density polyiso product incorporates several next generation features that result in a lightweight, yet extremely strong roof insulation.

- ▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid
- ▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.43 m)
- ▼ **Thickness*:** ½"-thick (12.7 mm)
- ▼ **Weight:** 11 lb. per 4' x 8'

COATED GLASS FACER

GenFlex Coated Glass Facer ISO Insulation is a closed cell polyisocyanurate foam core, bonded chemically to a heavy duty, dimensionally stable, inorganic, double coated glass facer. It is compatible with GenFlex EPDM and GenFlex EZ TPO Membranes.

- ▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid
- ▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.43 m), flat or selected tapered
- ▼ **Thickness*:** 1" (25.4 mm) min. to 4" (101.6 mm), flat or selected tapered

* Consult your territory sales representative for availability.
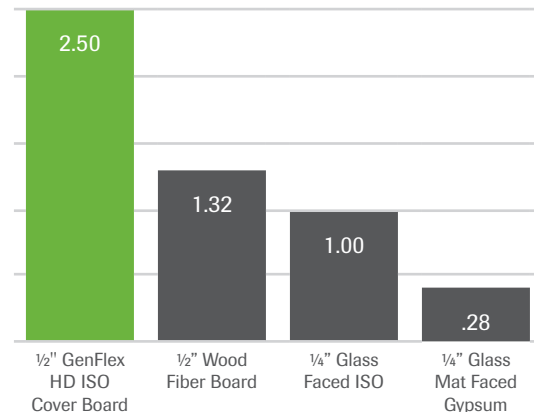
GENFLEX COMPOSITE POLYISO

Combines 1/2" of GenFlex HD ISO with GenFlex Polysio. It's factory laminated in a reliable, in-line manufacturing process. These two proven products offer higher performance and energy efficiency for modified bitumen, BUR and single-ply applications, while saving installation time and labor.

▼ **Installation methods:** Insulation adhesive, mechanically attached and loose laid

▼ **Standard size:** 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.43 m)

▼ **Thickness*:** 1.5" (38.1 mm) min. to 4" (101.6 mm)

HD ISO PRODUCT DATA

▼ **Lightweight** – At only 11 lb. per 4' x 8' board and 23 pieces per bundle, HD ISO is easier to handle than other cover boards, with less weight and more square feet per pallet.

▼ **Strong** – At 120 psi compressive strength, HD ISO is up to six times stronger than standard ISO. It can actually add strength to the roofing system. It also provides significantly more resistance to the effects of hail, rooftop traffic and other potentially damaging loads.

▼ **Energy Efficient** – With an R-Value of 2.5, HD ISO provides higher thermal performance than any ½" wood fiber board, ¼" glass faced ISO, or ¼" glass mat-faced gypsum board.

▼ **Workable** – It is easy to cut, meaning quicker installation time, less labor and less waste.

▼ **Moisture and Mold Resistant** – Because of its inorganic facer and closed cell foam core construction, HD ISO is inherently moisture resistant and mold resistant according to ASTM D3273.

▼ **Versatile** – HD ISO is available in 4' x 4' or 4' x 8' boards and is compatible with GenFlex EPDM and EZ TPO fully adhered and mechanically attached systems, as well as many other roof system types.

▼ **Wind Resistant** – HD ISO provides superior wind-uplift performance, requiring only 12 fasteners and plates per 4' x 8' board for fully adhered systems to meet FM Global 1-90 Rating.

▼ **Fire Resistant** – HD ISO can enhance and provide greater UL fire ratings.

▼ **Weatherproof** – HD ISO comes from our factories in Tuff Wrap™ packaging, one of the industry's best, most weatherproof covering.

▼ **Convenient** – HD ISO may be combined with other flat or tapered GenFlex ISO products for shipments from any of our seven manufacturing/distribution facilities nationwide. GenFlex ISO products may provide LEED® credits for utilizing regional materials.

COMPARATIVE R-VALUES

2.50	1.32	1.00	.28
½" GenFlex HD ISO Cover Board	½" Wood Fiber Board	¼" Glass Faced ISO	¼" Glass Mat Faced Gypsum

GenFlex HD ISO Cover Board has been given a Severe Rating by Factory Mutual (FM) Global. HD ISO has also received approvals for 2.5" diameter hail with mechanically attached .060" EZ TPO with a kinetic energy of 57.48 ft-lb. and 2.0" diameter hail with mechanically attached .045" EPDM with a kinetic energy of 23.65 ft-lb. (Source: National Bureau of Standards 23)

POLYISO ACCESSORIES

FASTENERS AND ACCESSORIES

No roofing system is complete without fasteners and accessories. That's why GenFlex offers a complete line of fasteners and accessories designed to maximize the performance of GenFlex Polyiso roofing installations. For specific applications, see the product data sheets at GenFlex.com.

#12 Insulation Fastener
- For steel and wood roof decks
- Conforms to FM Spec #4470
- Lengths from 1 5/8" – 8" (41.3 mm – 203 mm)

#14 Fastener
- For steel and wood roof decks
- Lengths from 1 1/4" – 14" (31.7 mm – 355.6 mm)

#12 Preassembled Screws and Plates
- For steel and wood roof decks
- Lengths from 2 1/4" – 8" (57 mm – 203 mm)

NTB Fastener and Plates
- For cementitious wood fiber or gypsum decks
- Excellent pull-out and back-out resistance
- Fastener lengths from 2 1/2" – 10" (63.5 mm – 254 mm)

CD10 Concrete Fastener
- Designed to secure insulation to structural concrete
- Lengths from 2" – 12" (50.8 mm – 305 mm)

Lite Deck Fastener and Plates
- For use on cementitious wood fiber decks or gypsum or lightweight concrete
- Fastener lengths from 3" – 12" (76.2 mm – 305 mm)

Vapor Shield Vapor Barrier
- Quick installtion
- Excellent roof protection
- Ideal for weather proofing new construction and re-roof projects

Insulation Plate
- Recessed plates for use with polyisocyanurate and wood fiberboard
- Flat plates for use on gypsum board and OSB
- 3" (76.2 mm) square shape
- .018" – .021" (.45 mm – .53 mm) thickness

One-Step Insulation Adhesive
- Highly elastic, two-component chemical-curing
- Part A (isocyanurate) and Part B (Polyol)
- 1.5 L cartridges; 4/case with 8 mixing wands

Low-Rise Insulation Adhesive
- For bonding deck, base sheets, insulation boards and smooth built-up roof
- 3 gal. (11.4 L) pails

GenFlex ISO Bond Insulation Adhesive
- Two-component, lowrise polyurethane insulation adhesive
- Use PaceCart 2™ dispenser
- Part 1 and part 2 are each packaged in separate 5 gallon (19L) containers

GenFlex One Step™ Insulation Adhesive
- Highly elastic LVOC two component chemical curing insulation
- Adheres various roof insulations to approved decks
- Extruded during application through static mixer which blends two components into a bead

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FLEXIBLE PRODUCTS.
SOLID REPUTATION.

At GenFlex, we understand the challenges you face. You've got to stay on top of the latest products and installation methods to stay ahead of the competition. That's why GenFlex offers comprehensive classroom and hands-on training programs. And we can bring it to you anywhere, anytime. Our team has the knowledge and expertise to demonstrate the most efficient, quality roofing installation methods to keep you out in front.

We also offer an extensive library of videos on our website. Visit us online for the latest information on our products, system specifications, technical information, detail drawings, SDS and product data sheets, plus details on GenFlex training programs. You can also order GenFlex samples and literature. Learn more at GenFlex.com

Warranties and Code Requirements

A full array of warranties, including full system coverage of membrane, insulation and accessories, is available. Warranted installations are inspected by QBS Technical Representatives, ensuring that the roofing system meets all warranty requirements. GenFlex has systems that have achieved Underwriters Laboratories™ (UL) classifications and Factory Mutual (FM) approvals. GenFlex systems are also listed by the Florida Building code and Miami Dade County. Refer to the appropriate agency publication for other listings, or contact the GenFlex Roofing Systems technical department at 1-800-443-4272.