**GENFLEX**™

## GENFLEX GL ISO
## (Flat and Tapered Polyiso Boards)

Cellulosic Glass
Reinforced Facer
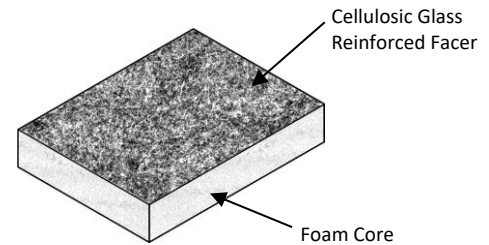
Foam Core

(Flat ISO only shown)

Meets or exceeds performance requirements and recommendations of ASTM C 1289, Type II, Class 1

# Product Information

## Description

GenFlex GL ISO flat and tapered roof insulation consists of a closed-cell polyiso foam core laminated to a black glass reinforced mat facer on both major surfaces. Flat and tapered GenFlex insulation provides outstanding thermal performance on commercial roofing applications, while providing positive rooftop drainage to help eliminate ponding water when tapered GenFlex insulation is used.

All GenFlex polyisocyanurate foam insulations use EPA accepted blowing agents. GenFlex GL ISO incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone layer (ODP-free).

| Typical Properties | | |
|---|---|---|
| **Property** | **ASTM Test Method** | **Typical Values** |
| Thermal Resistance | C518 | 40 °F (4.4 °C) 6.2 R/in |
| | | 75 °F (23.9 °C) 5.7 R/in |
| | | 110 °F (43.3 °C) 5.0 R/in |
| Dimensional Stability | D 2126 | <2% |
| Compressive Strength* | D 1621 | 20 psi (138 kPa) |
| Water Absorption | C 209 | < 1% by volume |
| Moisture Vapor Transmission | E 96 | < 1 perm (57.5 ng/(Pa*s*m²)) |
| Product Density | D 1622 | 2.0 pcf (32 kg/m³) |
| Service Temperature | n/a | -100 to 250 °F (-73 to 122 °C) |
| Smoke Development | E 84 | Index 160 – 180 |
| Flame Spread | E 84 | Index 50 |

* 25 psi (172 kPa) available by special order

## Installation

1. Insulation shall be neatly fitted to all roof penetrations, projections and nailers.
2. 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.
3. GenFlex GL ISO board may be installed using:
   - GenFast™ fasteners and plates
     **NOTE**: For ballasted systems, the top layer of GenFlex insulation may not be mechanically attached.
   - Hot asphalt (requires a cover board)
   - Quick Dual™ Insulation Adhesive

## Product Data

| Property | Typical Values | |
|---|---|---|
| Available Sizes | Flat ISO | 4' x 4' (1.2 m x 1.2 m)<br>4" x 8' (1.2 m x 2.4 m) |
| | Tapered ISO | 4' x 4' (1.2 m x 1.2 m) |
| Thickness | 0.5" to 4.5" (12.7 mm to 114.3 mm) | |
| Available Slopes | 1/16" – ½" per 12" (0.5% - 4%) | |

## *LEED® Information

See Recycled Content in table below.

Manufacturing Locations:
- Corsicana, TX
- Florence, KY
- Deforest, WI
- Salt Lake City, UT
- Bristol, CT
- Youngwood, PA
- Jacksonville, FL

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

## Specification Compliance:

ASTM C1289, Type II, Class 1
UL Classified UL1256
FM Class 1 Approved
Manufactured in an ISO 9001 Registered Facility

PIMA QualityMark℠
The Certified LTTR-value

FM APPROVED

CLASSIFIED
c UL us

## Storage and Precautionary Data

- Keep insulation dry at all times
- Elevate insulation above the deck or ground
- Cover insulation with waterproof tarps
- Polyiso foam will burn if exposed to a flame of sufficient heat and intensity. Keep away from heat, sparks, and open flames.
- Protect against dust that may be generated during installation.
- Refer to Safety Data Sheet (SDS) for additional information.
- Take care when transporting and handling GenFlex insulation to avoid physical damage.

## Thermal Values

| Thermal Properties | | | | | | | |
|---|---|---|---|---|---|---|---|
| Thickness | | R-Value* | Max Flute Span | | Approx. Recycled Content % | | |
| in | mm | | in | mm | Post-Consumer | Post Industrial | Total |
| 1.00 | 25.40 | 5.7 | 2.625 | 66.675 | 37 | 15 | 52 |
| 1.20 | 30.48 | 6.8 | 3.675 | 93.345 | 34 | 15 | 49 |
| 1.50 | 38.10 | 8.6 | 4.375 | 111.125 | 29 | 15 | 44 |
| 1.80 | 45.72 | 10.3 | 4.375 | 111.125 | 25 | 15 | 40 |
| 2.00 | 50.80 | 11.4 | 4.375 | 111.125 | 24 | 15 | 39 |
| 2.30 | 58.42 | 13.2 | 4.375 | 111.125 | 21 | 15 | 36 |
| 2.50 | 63.50 | 14.4 | 4.375 | 111.125 | 20 | 15 | 35 |
| 2.60 | 66.04 | 15.0 | 4.375 | 111.125 | 19 | 15 | 34 |
| 2.80 | 71.12 | 16.2 | 4.375 | 111.125 | 18 | 15 | 33 |
| 3.00 | 76.20 | 17.4 | 4.375 | 111.125 | 17 | 15 | 32 |
| 3.20 | 81.28 | 18.6 | 4.375 | 111.125 | 16 | 15 | 31 |
| 3.50 | 88.90 | 20.5 | 4.375 | 111.125 | 15 | 15 | 30 |
| 3.80 | 96.25 | 22.3 | 4.375 | 111.125 | 14 | 15 | 29 |
| 4.00 | 101.60 | 23.6 | 4.500 | 114.300 | 14 | 15 | 29 |
| 4.20 | 106.58 | 24.9 | 4.50 | 114.3 | 13 | 15 | 28 |
| 4.50 | 114.3 | 26.8 | 4.50 | 114.30 | 13 | 15 | 28 |
| *R-values provide a 15-year time-weighted average in accordance with CAN/ULC-S770. | | | | | | | |

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.*