

TECHNICAL INFORMATION SHEET

ISOGARD™ HG Composite

Available Sizes

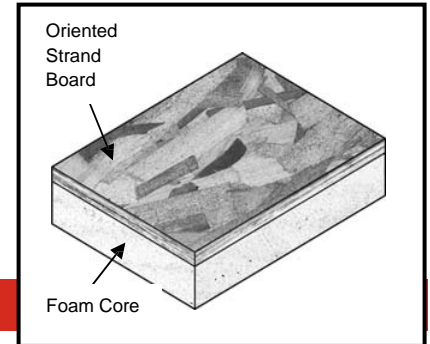
- 4' x 4' (1.2 m x 1.2 m)
- 4' x 8' (1.2 m x 2.4 m)

Item Number

Various

Thickness Ranging: 1.5" to 4" (38 to 102 mm)

Meets or exceeds performance requirements and recommendations of ASTM C 1289, Type V



Product Information

Description:

Firestone ISOGARD HG Composite Board roof insulation consists of a closed-cell polyisocyanurate foam core laminated to a black glass reinforced mat facer on one side and 7/16" (11.1 mm) oriented strand board on the other side. It provides outstanding thermal performance and was designed as a component of the Firestone Platinum System. Firestone ISOGARD HG Composite Board is suitable for use with other types of commercial roofing systems.

All Firestone polyisocyanurate foam insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Firestone ISOGARD HG insulation with ISOGARD GL or ISOGARD Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

Method of Application:

1. Follow APA recommendations for use of OSB products.
2. Insulation shall be neatly fitted to all roof penetrations, projections, and nailers.
3. No more insulation shall be installed than can be covered with membrane and complete before the end of each day's work or before the onset of inclement weather.
4. Firestone ISOGARD HG Composite Board may be installed using:
 - Fasteners and Plates
 - Heavy Duty HailGard™ Fasteners (required for steel, wood and concrete decks)
5. **Firestone ISOGARD HG Composite Board is not suitable as an immediate substrate for ballasted systems.**

Storage:

- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.

Precautions:

- 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.
- Insulation products are non-structural, non-load-bearing materials that should be protected from roof traffic with proper walkway materials.
- When used with hot bitumen, the bitumen temperature should not exceed 450 °F (232 °C).
- Use in accordance with Firestone ISOGARD GL insulation Specifications and NRCA recommended procedures.

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LEED® Information:

ISO Post-Consumer Recycled Content: Average 19%
ISO Post Industrial Recycled Content: Average 15%
OSB Post-Consumer Recycled Content: 0%
OSB Post Industrial Recycled Content: 0%
Manufacturing Locations: Youngwood, PA; Corsicana, TX; DeForest, WI
*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

Specification Compliance:

- ASTM C1289, Type V
- Oriented Strand Board (OSB) APA rated exposure 1
- Manufactured in an ISO 9001 Registered Facility
- CAN/ULC-S704

Typical Properties

Property	ASTM Test	Typical Performance
Compressive Strength	D 1621	*20 psi (138 kPa)
Density	D 1622	2 pcf (32 kg/m ³)
Dimensional Stability	D 2126	< 2%
Water Vapor Transmission	E 96	< 1.0 Perm (< 57.5 ng/(Pa•s•m ²))
Water Absorption	C 209	< 1% by Volume
Service Temperature	----	-100 to 250 °F (-73 to 121 °C)

*25 psi (172 kPa) available upon request.

Product Data

Thickness*		LTTR** (R-Value) ft ² h° FR/Btu in	Weight	
in	mm		lb/ft ²	kg/m ²
1.5	38	6.3	1.60	7.68
2.0	51	9.2	1.69	8.11
2.5	64	12.0	1.77	8.5
3.0	76	15.0	1.85	8.88
3.5	89	18.0	1.93	9.26
4.0	102	21.1	2.02	9.70

* Other thicknesses available upon request.

** Long Term Thermal Resistance (LTTR) values provide a 15-year time-weighted average in accordance with CAN/ULC S770.

Please contact Firestone Technical Services at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone 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 Firestone representative is authorized to vary this disclaimer.



**Firestone Building
Products Company, LLC**
200 4th Avenue South
Nashville, TN 37201

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Firestone Building Products has always prided itself in being an industry leader. Whether that means introducing new products and services to the industry, or pioneering breakthrough technologies upon which new ideas or testing methods are built.

Continuing in that tradition, we are pleased to announce the launch of our ISOGARD™ 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 that we have successfully sold for over 30 years.

As specs are being updated and plants and distribution facilities deplete inventory, there is the possibility of having ISOGARD bundles on a roof specified as ISO 95+™ GL. The below substitutions are permissible and meet the same performance and approval requirements for the intended systems.

ISO 95+ GL → ISOGARD GL

RESISTA™ → ISOGARD CG

HAILGARD™ → ISOGARD HG

This notice serves as confirmation of the acceptability of the ISOGARD series of products as replacement for those listed above.

Thank you for supporting Firestone Building Products.