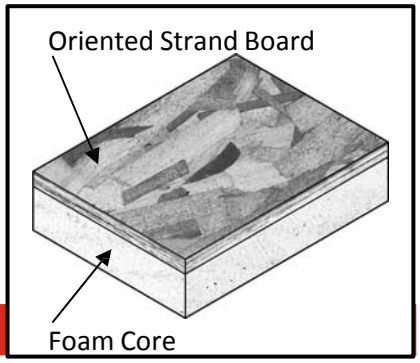
HailGard™ Composite Board

Item Description

Available Sizes: 4' x 4' (1.2 x 1.2 m)
4' x 8' (1.2 x 2.4 m)

Thickness ranging: 1.5" to 4.0" (38.1 to 101.6 mm)



Product Information

Description:

Firestone HailGard 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 HailGard 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 HailGard insulation with 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 completed before the end of each day's work or before the onset of inclement weather.
4. Firestone HailGard Composite Board may be installed using:
    - Fasteners and plates
    - HD HailGard Fasteners (required for steel, wood and concrete decks)
5. **Firestone HailGard 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 ISO 95+™ 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

*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 (32kg/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)	Weight	
In	mm	ft^{2}h° FR/Btu in	lb/ft^2	kg/m^2
1.50	38.10	6.3	1.60	7.68
2.00	50.80	9.2	1.69	8.11
2.50	63.50	12.0	1.77	8.5
3.00	76.20	15.0	1.85	8.88
3.50	88.90	18.0	1.93	9.26
4.00	101.60	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 Department at 1-800-428-4511 for further information.