



## HailGard (Nailbase)

**DESCRIPTION:**

Firestone HailGard roof insulation consists of a closed-cell polyiso foam core laminated to a black glass reinforced mat facer on one side and 7/16 inch (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 is suitable for use with other types of commercial roofing systems.

All Firestone polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Firestone HailGard with IsoGard Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

**ADVANTAGES:**

1. Outstanding thermal performance.
2. Compatible with fully adhered and mechanically attached single-ply, modified bitumen and built-up roofing systems.
3. Available in 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.44 m) boards and in thickness ranging from 1.5" (38.1 mm) to 4.0" (102.0 mm).

**SPECIFICATION COMPLIANCE:**

ASTM C1289, Type V  
Oriented Strand Board (OSB) APA rated exposure 1  
Manufactured in an ISO 9000 Registered Facility  
CAN/ULC-S5704

**METHOD OF APPLICATION:**

Follow APA recommendations for use of OSB products.

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.

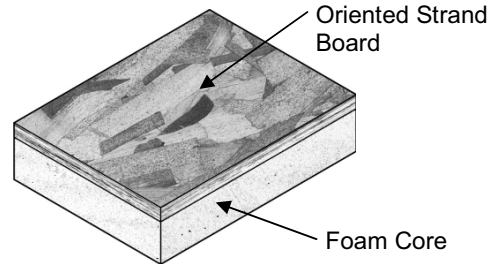
Firestone HailGard may be installed using:  
Fasteners and Plates  
HD HailGard Fasteners (required for steel, wood and concrete decks)  
Hot asphalt or Firestone approved insulation adhesives.

**Firestone HailGard is not suitable as an immediate substrate for a ballasted system.**

**STORAGE AND PRECAUTIONS:**

1. Keep insulation dry at all times.
2. Elevate insulation above the deck or ground.
3. Combustible. Refer to MSDS for more information.
4. Do not install over wet, damp or uneven substrates.

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### PRODUCT DATA

Thickness*		LTTR**	Weight	
Inches	mm	ft <sup>2</sup> h° F/Bt in	lb/sf	kg/m <sup>2</sup>
1.5	38	6.6	1.60	7.68
2.0	51	9.6	1.69	8.11
2.5	64	12.7	1.77	8.50
3.0	76	15.9	1.85	8.88
3.5	89	19.1	1.93	9.26
4.0	102	22.3	2.02	9.70

\* Other thickness' available upon request.  
\*\* Long Term Thermal Resistance (LTTR) values provide a 15-year time-weighted average in accordance with CAN/ULC S770.

### POLYISO PHYSICAL PROPERTIES

Physical Property	ASTM Test	English Values	Metric Values
Compressive Strength	D 1621	20 psi	138 kPa
Density	D 1622	2 pcf	32 kg/m <sup>3</sup>
Dimensional Stability	D 2126	<2%	<2%
Water Vapor Transmission	E 96	<1 Perm	<57. ng/(Pa·s·m <sup>2</sup> )
Water Absorption	C 209	<1% by Volume	<1% by Volume
Service Temperature		-100° to 250° F	-73° to 121° C

**LEED INFORMATION:**

ISO Post Consumer Recycled Content: Average 19%  
OSB Post Consumer Recycled Content: 0%  
ISO Post Industrial Recycled Content: Average 15%  
OSB Post Industrial Recycled Content: 0%  
Manufacturing Locations: Aurora, CO  
Youngwood, PA

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