

Paraboard™ HD

Commercial Product Data Sheet

Description:

Paraboard HD is a factory laminated panel designed for use as the cover board and base sheet layers of a multi-ply modified bitumen roofing system. Paraboard HD consists of a polyester reinforced SBS modified bitumen base sheet factory laminated to a high density closed cell polyisocyanurate insulation board.

Contact Siplast for information on approved product uses.

Uses:

Coverboards

Standards:	CSA A123.23-15 Type B, Grade 3 ASTM D6164 Type 1, Grade S ASTM C 1289 Type II, Class 4 Grade 1 (80 psi)
Panel Dimensions:	3 ft. x 8 ft. (0.91 m x 2.43 m)
Panel Weight	Avg: 25.5 lb. (14.5 kg)
Thickness	3/5 in. (15.2 mm)

Application Method:

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Paraboard HD is lapped 3.5 inches (90 mm) side.



Adhered



Mechanical

Storage and Handling:

All Siplast insulation roofing products should be stored on a clean, flat surface at least 4 inches above the ground. Upon delivery, the factory packaging should be removed or slit on all four vertical sides to allow for ventilation and to prevent the accumulation of condensation. All roofing products should be stored in a dry, well-ventilated place out of direct exposure to the elements when storing for more than 14 days prior to installation. Pallets should be covered with a breathable, waterproof covering and stored on a finished surface rather than on dirt or grass to avoid upward evaporation/transpiration of moisture.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Packaging:

- Pallet: 40 in. x 97 in. (102 cm x 246 cm) wooden pallet
- Boards Per Pallet: 72
- Pallets Per Truckload (Typical): 24
- Minimum Weight: 1913 lb. (868 kg)

Listing, Approvals & Certifications:



Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.

POLYISO PROPERTIES		
Nominal Thickness	Thermal Value (R-value)*	Thermal Value (RSI)**
1/2 in. (12.7 mm)	2.5	0.44

*Calculated using ASTM C518 at 75°F mean temperature.

**RSI is the metric expression of thermal value ($\text{m}^2 \times \text{K/W}$).

Property (As Manufactured)	Value/Units	Test Method
Dimensional Stability*	< 0.5%	ASTM D2126
Compressive Strength	Grade 1 (80 psi)	ASTM D1621
Water Absorption	< 3%	ASTM C209
Tensile Strength	≥ 2000 psi (95 kPa)	ASTM D1623
Service Temperature	-100°F - 250°F	N/A
Mold Resistance	Pass	ASTM D3273

*Percentage change (7 days at 158°F [70°C] 97% RH).

MEMBRANE PROPERTIES						
Property (As Manufactured)		CSA A123.23 Requirement	Tested Value			
Thickness, min. – mm (mils)		2.2 (85)	2.4 (95)			
*Selvage Thickness, min. – mm (mils)		2.2 (85)	2.4 (95)			
Mass Per Unit Area, min. – kg/m^2 (lbs./100 ft. ²)		2.6 (53)	2.9 (60)			
Back Surface Coating Thickness, min. – mm (mils)		1.0 (40)	1.0 (40)			
			Before Heat Conditioning MD/XD		After Heat Conditioning MD/XD	
Strain Energy, min. – $\text{kN/M}\backslash\text{m}$ (lbf/in.)	@23 \pm 2°C (73.4 \pm 3.6°F)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)
	@-18 \pm 2°C (-0.4 \pm 3.6°F)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)
Peak Load, min. – kN/m (lbf/in.)	@23 \pm 2°C (73.4 \pm 3.6°F)	See Tested Value	16.8 (96)	10.2 (58)	18.6 (106)	9.6 (55)
	@-18 \pm 2°C (-0.4 \pm 3.6°F)		21.4 (122)	13.3 (76)	22.1 (126)	13.0 (74)
Elongation @Peak Load, %	@23 \pm 2°C (73.4 \pm 3.6°F)	See Tested Value	50	53	43	43
	@-18 \pm 2°C (-0.4 \pm 3.6°F)		39	39	40	38
Ultimate Elongation @ 23 \pm 2°C (73.4 \pm 3.6°F), %		See Tested Value	62	70	45	47
Dimensional Stability, max., %		1.0	0.3	0.0	0.3	0.0
Low Temperature Flexibility, max. –°C (°F)		-18 (-0.4)	-18 (-0.4)	-18 (-0.4)	-18 (-0.4)	-18 (-0.4)
Low Temperature Weathered Flexibility, max. –°C (°F)		N/A	N/A			
Compound Stability, min. –°C (°F)		102 (215)	102 (215)	102 (215)	102 (215)	102 (215)
Resistance to Puncture		N/A	N/A			
Granule Loss (Grade 1 only), max. –g (oz)		N/A	N/A			

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

*Measured on the selvage edge excluding the granule surfacing