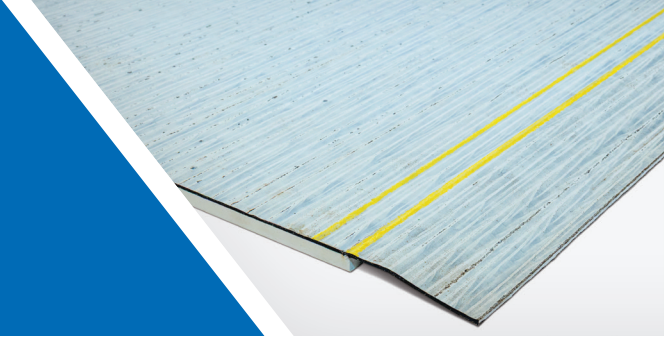
Paraboard™ HD Pro

Commercial Product Data Sheet



Description:

Paraboard™ HD Pro is a factory-laminated panel designed for use as the coverboard and base sheet layer of a multi-ply modified bitumen roofing system. Paraboard™ HD Pro consists of a polyester reinforced SBS-modified bitumen base sheet coated with a proprietary Syntan® acrylic coating factory-laminated to a high-density, closed-cell polyisocyanurate insulation board. The Syntan® coated surface is ideal for use with liquid-applied and self-adhered cap sheets.

Contact Siplast for information on approved product uses.

Uses:

Coverboard & SBS Base Ply

Standards	CSA A123.23-15 Type B, Grade 3 ASTM D6164 Type I, Grade S ASTM C1289 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:

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

Adhered Mechanically Attached

Storage and Handling:

Paraboard HD Pro is a non-structural, non-load bearing material. It is not designed for direct traffic usage unless adequately protected. As unprotected polyisocyanurate will burn, fire safety precautions should be observed whenever insulation products are used. Refer to PIMA Technical Bulletin No 109 Storage and Handling recommendations at www.polyiso.org

All Siplast insulation roofing products should be stored on a clean, flat surface at least 4 in. 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)

Paraboard™ HD Pro

Physical Properties

Polyiso Properties		
Property (As Manufactured)	**Test Method**	**Values**
Compressive Strength	ASTM D1621	80 psi min. (551 kPa) up to 109 psi max. (751 kPa)
Dimensional Stability*	ASTM D1626	< 1% linear change
Flue Spanability	ASTM E661	3.75 in. (93.5 mm)
Flexural Strength	ASTM C203	400 psi min. (2750 kPa)
Tensile Strength	ASTM D1623	2000 psi min. (95 kPa)
Water Absorption (percent by volume)	ASTM C209	4% max.
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max. (85.8 ng/Pa•s•m^2
Service Temperature†		260°F (126.7 °C) or less
Mold Resistance‡	ASTM D3273	Pass (10)
R-value	ASTM C518	2.5

*Stated dimensional stability tolerance; board thickness shall not diminish by more than 4% max (at -40°F or 200°F at ambient RH) or by more than 4.5% max (158°F & 97% RH).

† These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

† Siplast warranties and guarantees do not provide coverage against mold or other biological growth. Refer to Siplast.com for more information on warranty and guarantee coverage and restrictions.

Membrane Properties						
Property (as Manufactured)		**CSA A123.23 Requirement**	**Tested Value**			
			Before Heat Conditioning MD/XD		**After Heat Conditioning MD/XD**	
Strain Energy, min. – kNm (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)
	@ -18 ± 2°C (-0.4 ± 3.6°F)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)
Peak Load, min. – kNm (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	16.8 (96)	10.2 (58)	18.6 (106)	9.6 (55)
	@ -18 ± 2°C (-0.4 ± 3.6°F)		21.4 (122)	13.3 (76)	22.1 (126)	13.0 (74)
Elongation @ Peak Load, %	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	50	53	43	43
	@ -18 ± 2°C (-0.4 ± 3.6°F)		39	39	40	38
Ultimate Elongation @ 23 ± 2°C (73.4 ± 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.