PARATECH GLASS BASE SA 2.5

Commercial Product Data Sheet

Paratech Glass Base SA 2.5 is the modified bitumen base ply of the Paratech two-ply modified bitumen roof system. Designed for use in homogeneous multi-layer modified bitumen roof membrane systems, Paratech Glass Base SA 2.5 consists of a lightweight random fibrous glass mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The top surface is covered with a mineral parting agent the back surface is coated with a self-adhesive bitumen layer and is lined with a high-strength polyolefin release film. Approved for use as a protection course in the PA-750 Hot Applied Rubberized Asphalt system.

Contact Siplast for information on approved product uses.

USES:
BASE PLY

Standards	ASTM D6163 Type I, Grade S; CSA A123.23-15 Type A, Grade 3
Roll Length	Avg: 49.18 ft (15.0 m)
Roll Width	Avg: 39.4 in (1.0 m)
Coverage Per Roll (Typical with 3" Side & End Laps)	1.5 Square (148.3 ft²) (13.8 m²)
Coverage Weight Per Square (nominal)	64 lb (3.1 kg/m²)
Top Surfacing	Mineral Parting Agent
Back Surfacing	Polyolefin Release Film

PRODUCT INFORMATION

Application

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Paratech Glass Base SA 2.5 is lapped 3 inches (76.2 mm) side and end.

Storage and Handling

All Siplast roll roofing products should be stored on end on a clean, flat surface. Rolls should not be dropped on ends or edges or stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing products should be stored in a dry place out of direct exposure to the elements and should not be double stacked. Material should be handled so that it remains dry prior to and during installation.

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

Packaging

Roll Weight (Nominal): 100 lb (45.3 kg)
Rolls Per Pallet: 25
Pallets Per Truckload (Typical): 19
Max Pallet Weight (Typical): 2575 lb (1168 kg)

Listings, Approvals, & Certifications

FM APPROVED

FM Approved - Refer to RoofNav.com for specific assemblies.
Meets or Exceeds CSA A123.23.

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Physical and Mechanical Properties

siplast With you every step of the way

U.S. TEST STANDARDS

Property (as Manufactured)		Values / Units	Test Method
Thickness (average)		98 mils (2.5 mm)	ASTM D5147 Section 6
*Peak Load	@ 73.4°F (23°C) (average)	30 lbf/inch (5.3 kN/m)	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	75 lbf/inch (13.2 kN/m)	
*Elongation @ Peak Load	@ 73.4°F (23°C) (average)	3%	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	3%	
*Ultimate Elongation @ 23°C (73.4°F) (average)		30%	ASTM D5147 Section 7
Tear Strength (average)		40 lbf (0.18 kN)	ASTM D5147 Section 8
Water Absorption (maximum)		1%	ASTM D5147 Section 10
Low Temperature Flexibility (maximum)		-0.4°F (-18°C)	ASTM D5147 Section 12
Dimensional Stability (maximum)		0.1%	ASTM D5147 Section 11
**Compound Stability (minimum)		250°F (121°C)	ASTM D5147 Section 16
Cyclic Fatigue		Paratech Glass Base SA 2.5 bonded to an acceptable Paratech finish ply, with an approved method of attachment, passes ASTM D5849 both as manufactured and after heat conditioning, according to ASTM D5147.	

CANADIAN TEST STANDARDS

Property (as Manufactured)		CSA A123.23 Requirement	Tested Value			
Thickness – mm (mils)		2.0 (80)	2.3 (90.6)			
***Selvage Thickness – mm (mils)		2.0 (80)	2.2 (87)			
Mass Per Unit Area – kg/m^2 (lbs/100 ft^2)		2.2 (45)	2.0 (78)			
Back Surface Coating Thickness, min. – mm (mils)		1.0 (40)	3.2 (65)			
			Before Heat Conditioning MD/XD		After Heat Conditioning MD/XD	
Strain Energy, min. – kN/m (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	1.3 (7.4)	1.2 (6.9)	0.5 (2.9)	0.5 (2.9)
	@ -18 ± 2°C (-0.4 ± 3.6°F)		0.6 (3.4)	0.5 (2.9)	0.5 (2.9)	0.4 (2.3)
Peak Load, min. – kN/m (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	5.3 (30)	9.5 (54)	7.7 (44)	10.3 (59)	8.7 (50)
	@ -18 ± 2°C (-0.4 ± 3.6°F)	5.3 (30)	15.9 (91)	14.5 (83)	14.3 (82)	14.6 (83)
Elongation @ Peak Load, %	@ 23 ± 2°C (73.4 ± 3.6°F)	2	5	4	4	4
	@ -18 ± 2°C (-0.4 ± 3.6°F)	1	6	5	4	4
Ultimate Elongation @ 23 ± 2°C (73.4 ± 3.6°F), %		3	11	21	5	8
Dimensional Stability, max., %		0.5	0.2	0.2	0.2	0.2
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)		91 (195)	91 (195)	91 (195)	91 (195)	91 (195)
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.
*The value reported is the lower of either MD or XD.
**The high temperature stability of the self-adhesive bitumen coating is 100°C (212°F).
***Measured on the selvage edge excluding the granule surfacing.

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