PARATECH GLASS CAP FR

Commercial Product Data Sheet

Paratech Glass Cap FR is a modified bitumen finish ply of the Paratech two-ply modified bitumen roof system. Designed for use in homogeneous multi-layer modified bitumen roof membrane systems, Paratech Glass Cap FR consists of a lightweight random fibrous glass mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen blend and is surfaced with roofing granules. 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:
FINISH PLY

Standards	ASTM D6163 Type I, Grade G; CSA A123.23-15 Type A, Grade 1
Roll Length (nominal)	32.6 ft (10 m)
Roll Width (nominal)	3.28 ft (1.0 m)
Coverage Per Roll (Typical with 3" Side & End Laps)	0.986 Squares (98.6 ft^2) (9.2 m^2)
Coverage Weight Per Square (nominal)	97.9 lb (4.8 kg/m^2)
Selvedge Width (nominal)	3.23 in (82 mm)
Top Surfacing	Roofing Granules
Back Surfacing	Mineral Parting Agent
Granule Colors	White A-720, White I-720, Bright White (BW), Gray A-9, Gray I-760

PRODUCT INFORMATION

Application

Refer to the Siplast specifications for detailed application information and slope limitations. Paratech Glass Cap FR is lapped 3 inches (76 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.

Packaging

Roll Weight (Nominal): 96 lb (44 kg)

Max Pallet Weight (Typical): 3060 lbs (1388 kg)
Pallets Per Truckload (Typical): 16

Listings, Approvals, & Certifications

c UL us LISTED FM APPROVED

Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.
FM Approved - Refer to RoofNav.com for specific assemblies.
Meets or Exceeds CSA A123.23.

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PARATECH GLASS CAP FR

Physical and Mechanical Properties

siplast® With you every step of the way

U.S. TEST STANDARDS

Property (as Manufactured)	Values / MD	Values / XMD	Test Method
Thickness (average)	140 mils (3.5 mm)		ASTM D5147
Peak Load @ 73.4ºF (23ºC) (average)	50 lbf/in (8.8 kN/m)	40 lbf/in (7 kN/m)	ASTM D5147
Peak Load @ 0ºF (-18ºC) (average)	115 lbf/in (20.1 kN/m)	100 lbf/in (17.6 kN/m)	ASTM D5147
Elongation @ Peak Load 73.4ºF (23ºC) (average)	5%	5%	ASTM D5147
Elongation @ Peak Load 0ºF (-18ºC) (average)	4%	4%	ASTM D5147
Ultimate Elongation 73.4ºF (23ºC)	25%	35%	ASTM D5147
Tear Strength (average)	40 lbf (0.18 kN)	40 lbf (0.18 kN)	ASTM D5147
Water Absorption (maximum)	1%		ASTM D5147
Low Temperature Flexibility (maximum)	0ºF (-18ºC)	0ºF (-18ºC)	ASTM D5147
Dimensional Stability (maximum)	0.2%	0.2%	ASTM D5147
Compound Stability (minimum)	225°F (107°C)		ASTM D5147
Granule Embedment	1.5 grams per sample Max. avg. loss		ASTM D5147
	2.0 grams per sample Max. individual loss		

CANADIAN TEST STANDARDS

Property (as Manufactured)		CSA A123.23 Requirement	Tested Value			
			Before Heat Conditioning MD/XD		After Heat Conditioning MD/XD	
Thickness – mm (mils)		2.4 (95)	3.4 (134)			
*Selvage Thickness – mm (mils)		2.0 (80)	2.2 (87)			
Mass Per Unit Area – kg/m^2 (lbs/100 ft^2)		3.2 (65)	4.8 (98)			
Back Surface Coating Thickness, min. – mm (mils)		1.0 (40)	1.0 (40)			
Strain Energy, min. – kN/m (lbf/in)	@ 23 ± 2˚C (73.4 ± 3.6˚F)	See Tested Value	0.5 (2.9)	0.5 (2.9)	0.5 (2.9)	0.5 (2.9)
	@-18 ± 2˚C (-0.4 ± 3.6˚F)		0.3 (1.7)	0.3 (1.7)	0.3 (1.7)	0.3 (1.7)
Peak Load, min. – kN/m (lbf/in)	@ 23 ± 2˚C (73.4 ± 3.6˚F)	5.3 (30)	13.5 (77)	9.5 (54)	88 (503)	62 (354)
	@-18 ± 2˚C (-0.4 ± 3.6˚F)	5.3 (30)	22.2 (127)	14.2 (81)	23.8 (136)	16.6 (95)
Elongation @ Peak Load, %	@ 23 ± 2˚C (73.4 ± 3.6˚F)	2	4	4	3	3
	@-18 ± 2˚C (-0.4 ± 3.6˚F)	1	4	4	5	4
Ultimate Elongation @ 23 ± 2°C (73.4 ± 3.6°F), %		3	41	44	9	11
Dimensional Stability, max., %		0.5	0.5	0.5	0.5	0.5
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)		-12 (10)	-12 (10)	-12 (10)	-12 (10)	-12 (10)
Compound Stability, min. – °C (°F)		91 (195)	91 (195)	91 (195)	91 (195)	91 (195)
Resistance to Puncture		N/A	Pass			
Granule Loss (Grade 1 only), max. – g (oz)		2.0 (0.07)	1.9 (0.07)			

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.

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SOLAR REFLECTANCE / THERMAL EMITTANCE

Property (as Manufactured)	Values	Test Method
**Solar Reflectance (avg.)	0.74	ASTM C1549
**Thermal Emittance (avg.)	0.91	ASTM C1371
**Solar Reflectance Index (avg.)	92	ASTM E1980

**Only applies to Bright White (BW) granule surfaced rolls.