



**USES:
FINISH PLY
FLASHING SHEET**

PARATECH 180 CAP FR

Commercial Product Data Sheet

Paratech 180 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 180 Cap FR consists of a 180-gram polyester mat impregnated and coated with a styrene-butadiene-styrene (SBS) modified bitumen blend and is surfaced with roofing granules.

Contact Siplast for information on approved product uses.

PRODUCT INFORMATION

Application

Refer to the Siplast specifications for detailed application information and slope limitations. Paratech 180 Cap FR is lapped 3 inches (76 mm) side and end.



Storage and Handling

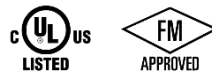
All Siplast roll roofing products should be stored on end on a clean flat surface. Rolls should not be dropped on ends or edges or stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing products should be stored in a dry place out of 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.

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

Packaging

Roll Weight (Nominal): 114 lb (51 kg)
Rolls Per Pallet: 23
Pallets Per Truckload (Typical): 15
Max Pallet Weight (Typical): 2820 lbs (1279 kg)

Listings, Approvals, & Certifications



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.

Standards	ASTM D6164 Type I, Grade G; CSA A123.23-15 Type B, Grade 1
Roll Length (nominal)	32.6 ft (10 m)
Roll Width (nominal)	39.4 in (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)	104.1 lb (5.1 kg/m ²)
Selvage Width (nominal)	3.25 in (83 mm) Line Color: White
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

Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at www.siplast.com
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U.S. TEST STANDARDS

Property (as Manufactured)	Values / MD	Values / XMD	Test Method
Thickness (average)	153 mils (3.9 mm)		ASTM D5147
Peak Load @ 73.4°F (23°C) (average)	85 lbf/in	65 lbf/in	ASTM D5147
Peak Load @ 0°F (-18°C) (average)	115 lbf/in	90 lbf/in	ASTM D5147
Elongation @ Peak Load 73.4°F (23°C) (average)	40%	50%	ASTM D5147
Elongation @ Peak Load 0°F (-18°C) (average)	35%	40%	ASTM D5147
Ultimate Elongation 73.4°F (23°C)	55%	60%	ASTM D5147
Tear Strength (average)	125 lbf	85 lbf	ASTM D5147
Water Absorption (maximum)	1%		ASTM D5147
Low Temperature Flexibility (maximum)	-15°F (-26°C)	-15°F (-26°C)	ASTM D5147
Dimensional Stability (maximum)	<0.5%	<0.5%	ASTM D5147
Compound Stability (minimum)	240°F (116°C)		ASTM D5147
Granule Embedment	1.5 grams per sample Max. avg. loss		ASTM D5147
	2.0 grams per sample Max. individual loss		
Cyclic Fatigue	Paratech 180 Cap FR bonded to an acceptable Paratech base sheet, 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)	Units	CAS A123.23 Requirement	Test Method	Test Performance
Thickness (minimum)	mm (mils)	3.3 (130)	ASTM D5147	3.7 (145)
Selvage Thickness (minimum)	mm (mils)	2.2 (85)	ASTM D5147	2.5 (98)
Mass Per Unit Area (minimum)	kg/m ² (lb/100 ft ²)	3.7 (75)	ASTM D5147	5.1 (105)
Back Surface Coating Thickness (minimum)	mm (mils)	1.0 (40)	ASTM D5147	1.0 (40)
*Strain Energy (Before After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	5.5 (31)	CSA A123.23	>5.5 (>31)
	@ -18 ± 2°C (-0.4 ± 3.6°F)	3.0 (17)		>3.0 (>17)
*Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	ASTM D5147	>11 (>63)
	@ -18 ± 2°C (-0.4 ± 3.6°F)			>15 (>86)
*Elongation @ Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	ASTM D5147	>54
	@ -18 ± 2°C (-0.4 ± 3.6°F)			>34
*Ultimate Elongation, (Before and After Heat Conditioning), @ 23 ± 2°C (73.4 ± 3.6°F)	%	See Tested Value	ASTM D5147	>39
Dimensional Stability (maximum)	%	1.0	ASTM D5147	1.0
Low Temperature Flexibility (maximum)	°C (°F)	-18 (-0.4)	ASTM D5147	-26 (-15)
Low Temperature Weathered Flexibility (maximum)	°C (°F)	-12 (10)	ASTM D5147	-12 (10)
Compound Stability (minimum)	°C (°F)	102 (215)	ASTM D5147	116 (240)
Resistance to Puncture	N/A	Pass	CSA A123.23	Pass
Granule Loss	g (oz)	2.0 (0.07)	ASTM D5147	<2.0 (<0.07)

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.

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.