

PRO BASE TS SA



Commercial Product Data Sheet

Product Description

Pro Base TS SA is a high performance, self-adhesive, SBS-modified bitumen base ply designed specifically for use in Parapro and Paraflex Roof Membrane Systems. Pro Base TS SA consists of a lightweight random fibrous glass mat impregnated and coated with an elastomeric styrene-butadiene-styrene (SBS) modified bitumen. The unique top surface is factory coated with a proprietary acrylic coating. The back surface design consists of factory-applied self-adhesive stripes with a proprietary, acrylic coating between the stripes, which provides for uniform bonding of approximately 50% of the total surface area of the sheet.

Pro Base TS SA is available with Siplast RoofTag RFID roof asset technology on a Special-Made-To-Order basis. See RoofTag Commercial Product Data Sheet for more information.

Product Uses

Pro Base TS SA is the first ply of all semi-adhered Siplast Pro Base TS SA/Parapro and Paraflex Roof Systems. It is lapped 3 inches (7.6 cm) on sides and ends. End laps require heat welding. Pro Base TS SA is designed for direct application to approved insulations, DensDeck Prime®, primed structural concrete decks, and other approved substrates. Pro Base TS SA can only be used as a self-adhesive base ply in Parapro Roof Membrane and Paraflex Liquid Membrane assemblies. Pro Base products are approved for a maximum 14 days of exposure prior to Parapro application. The laps of the Pro Base TS SA must be heat welded when the material is left exposed 1-14 days prior to application of the specified Parapro or Paraflex Roof Membrane. Contact Siplast for specific approval on other product uses.

Product Approvals

Pro Base TS SA is approved by FM Approvals for use as a base ply in Siplast Pro Base TS SA/Parapro Class 1 insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Contact Siplast for specific information regarding FM Class 1 windstorm resistance classifications.

Pro Base TS SA is listed by Underwriters Laboratories for use in cUL_{us} Classified Siplast Pro Base/Parapro and Pro Base/Paraflex Roof Systems.

Pro Base TS SA meets or exceeds the requirements for ASTM D 6163 Type I, Grade S and CSA A123.23-15 Type A, Grade 1 for SBS modified bituminous sheet materials using glass fiber reinforcements.

Siplast Roof Systems have also received the approval of many regional and local code authorities. Contact Siplast for more information.

COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square	(9.3 m ²)	
Coverage Weight Per Square:	Min:	73 lb	(3.6 kg/m ²)
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:*	Avg:	98 mils	(2.5 mm)
	Min:	94 mils	(2.4 mm)
Selvage Width:	Avg:	N/A	N/A

Selvage Surfacing: Polyolefin release tape

Top Surfacing: Acrylic coating

Back Surfacing: Adhesive stripes, acrylic coating between the stripes, and Polyolefin Release Film

Lines: A laying line is placed 3 in (76 mm) from the selvage edge side of the material. The line color for this material is blue.

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright on pallets cushioned with corrugated cardboard and are adhered with adhesive at the labels. The top of the palleted rolls is covered with Kraft paper. The palleted material is protected by a heat shrink polyethylene shroud.

Pallet: 41 in X 48 in (104 cm X 122 cm) wooden pallet
Number Rolls Per Pallet: 25
Number Pallets Per Truckload: 20
Minimum Roll Weight: 73 lb (33.1 kg)

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

* Thickness measurement does not include the thickness of the adhesive stripes.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Physical and Mechanical Properties

UNITED STATES TEST STANDARDS			CANADA TEST STANDARDS	
Property (as Manufactured)	Values/Units	Test Method	Property (as manufactured)	Test Method CSA A123.23-15 Values/Units
Thickness (minimum)	94 mils (2.4 mm)	ASTM D 5147 section 6	Thickness (minimum)	2.4 mm (94 mils)
Thickness (average)	98 mils (2.5 mm)	ASTM D 5147 section 6	Thickness (average)	2.5 mm (98 mils)
¹ Peak Load @ 73°F (23°C) (average)	30 lbf/inch (5.3 kN/m)	ASTM D 5147 section 7	¹ Peak Load 23°C (73°F) (average)	5.3 kN/m (30 lbf/inch)
¹ Peak Load @ 0°F (-17°C) (average)	70 lbf/inch (12.3 kN/m)	ASTM D 5147 section 7	¹ Peak Load @ -17°C (0°F) (average)	12.3 kN/m (70 lbf/inch)
¹ Elongation @ Peak Load, 73°F (23°C) (average)	3%	ASTM D 5147 section 7	¹ Elongation @ Peak Load, 23°C (73°F) (average)	3%
¹ Elongation @ Peak Load, 0°F (-17°C) (average)	3%	ASTM D 5147 section 7	¹ Elongation @ Peak Load, -17°C (0°F) (average)	3%
¹ Ultimate Elongation @ 73°F (23°C) (average)	70%	ASTM D 5147 section 7	¹ Ultimate Elongation @ 23°C (73°F) (average)	70%
¹ Tear Strength (average)	40 lbf (0.18 kN)	ASTM D 5147 section 8	N/A	N/A
Water Absorption (maximum)	1%	ASTM D 5147 section 10	N/A	N/A
Dimensional Stability (maximum)	0.1%	ASTM D 5147 section 11	Dimensional Stability (maximum)	0.1%
Low Temperature Flexibility (maximum)	-15°F (-26°C)	ASTM D 5147 section 12	Low Temperature Flexibility (maximum)	-26°C (-15°F)
Compound Stability (minimum)	250°F (121°C)	ASTM D 5147 section 16	Compound Stability (minimum)	121°C (250°F)
Coating Thickness - Back Surface	≥ 40 mils (1 mm)	ASTM D 5147 section 17	Coating Thickness - Back Surface	1 mm (≥ 40 mils)
Cyclic Fatigue	Pro Base TS SA, bonded to Parapro Roof Membrane, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D 5147.		Mass Per Unit Area (minimum)	3.6 kg/m ² (73 lb/sq)

1. Thickness measurement does not include the thickness of the self-adhesive stripes or release film.
2. The value reported is the lower of either MD or XD.
3. The High Temperature Stability of the self-adhesive bitumen coating is 212°F (100°C).