

# VERAL STAINLESS STEEL



## Commercial Product Data Sheet

### Product Description

Veral Stainless Steel is a high performance, foil clad, modified bitumen finish ply designed for use in multi-layer modified bitumen roof systems. Veral Stainless Steel consists of a fiberglass scrim/fiberglass mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen and surfaced with a protective stainless steel foil facing.

### Product Uses

Veral Stainless Steel is the finish ply of the Siplast Veral Roof System, and is lapped 3 inches (7.6 cm) side and end. The Siplast Veral System is preferably applied by torching but can be applied in approved Type IV asphalt subject to Siplast specifications and requirements. Siplast Veral Roof Systems are used over most roof decks with drainage.

Veral Stainless Steel can be used as a flashing sheet in all guaranteed Siplast Roof Systems. Veral Stainless Steel flashing sheets are cut to size off the end of the roll and applied vertically, always working to a selvage edge. Contact Siplast for specific approval on other product uses.

### Product Approvals

Veral Stainless Steel is approved by FM Approvals (FM Standard 4470) for use in Veral Class 1 insulated steel deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Veral Stainless Steel is classified by Underwriters Laboratories for use in cUL<sub>us</sub> Classified Siplast Veral Roof Systems. Siplast Veral Roof Systems have been classified by Underwriters Laboratories as Class A roofing systems over non-combustible, insulated non-combustible, combustible, and insulated combustible decks.

Siplast Roof Systems also have received the approval of many regional and local authorities. Please contact Siplast for specific information as required.

*Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at [www.Siplast.com](http://www.Siplast.com).*

### COMMERCIAL PRODUCT INFORMATION

Unit:	Roll	
Coverage:	0.75 Square	(7.0 m <sup>2</sup> )
Coverage Weight Per Square:	Min: 109 lb	(5.3 kg/m <sup>2</sup> )
Roll Length:	Min: 25 ft	(7.70 m)
Roll Width:	Avg: 3.28 ft	(1 m)
Thickness:	Avg: 142 mils	(3.6 mm)
	Min: 130 mils	(3.5 mm)
Selvage Width:	Avg: 2.75 in	(70 mm)
Selvage Surfacing:	Burnoff Film	
Top Surfacing:	Continuous Stainless Steel Foil 316 L Laboratory Grade	
Back Surfacing:	Polypropylene Film	

Packaging: Rolls are wound onto a compressed paper tube. The material is wound with a separator paper. The rolls are placed upright on the selvage edge inside wooden crates. The top of the crated rolls is covered with foiled Kraft paper. The crated material is protected by a heat shrink polyethylene shroud.

Crate: 38.5 in X 38.5 in X 38.5 in (98 cm X 98 cm X 98 cm) wooden crate  
Number Rolls Per Crate: 25  
Number Crates Per Truckload: 18  
Minimum Roll Weight: 82 lb (37.2 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.

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## 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)	130 mils (3.5 mm)	ASTM D 5147 section 6	Thickness (minimum)	3.5 mm (130 mils)
Thickness (average)	142 mils (3.6 mm)	ASTM D 5147 section 6	Thickness (average)	3.6 mm (142 mils)
<sup>1</sup> Peak Load @ 73°F (23°C) (average)	110 lbf/inch (19.4 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load 23°C (73°F) (average)	19.4 kN/m (110 lbf/inch)
<sup>1</sup> Peak Load @ 0°F (-17°C) (average)	200 lbf/inch (35.3 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load @ -17°C (0°F) (average)	35.3 kN/m (200 lbf/inch)
<sup>1</sup> Elongation @ Peak Load, 73°F (23°C) (average)	5%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, 23°C (73°F) (average)	5%
<sup>1</sup> Elongation @ Peak Load, 0°F (-17°C) (average)	4%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, -17°C (0°F) (average)	4%
<sup>1</sup> Ultimate Elongation @ 73°F (23°C) (average)	45%	ASTM D 5147 section 7	<sup>1</sup> Ultimate Elongation @ 23°C (73°F) (average)	45%
<sup>1</sup> Tear Strength (average)	120 lbf (0.54 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)	0.2%	ASTM D 5147 section 11	Dimensional Stability (maximum)	0.2%
Low Temperature Flexibility (maximum)	0°F (-18°C)	ASTM D 5147 section 12	Low Temperature Flexibility	-18°C (0°F)
Compound Stability (minimum)	225°F (107°C)	ASTM D 5147 section 16	Compound Stability (minimum)	107°C (225°F)
Coating Thickness - Back Surface	≥ 40 mils (1 mm)	ASTM D 5147 section 17	Coating Thickness - Back Surface	1 mm (≥ 40 mils)
<sup>2</sup> Thermal Shock Resistance (maximum)	0.2%	ASTM D 6298	<sup>2</sup> Thermal Shock Resistance (maximum)	0.2%
			Mass Per Unit Area (minimum)	5.3 kg/m <sup>2</sup> (109 lb/sq)

1. The value reported is the lower of either MD or XD.
2. This test is specifically designed for metal foil-clad materials. These materials include three different components: metal foil, glass scrim, and SBS-modified bitumen. Each of these materials has a different coefficient of expansion, and it is imperative that these individual components function harmoniously to avoid severe dimensional problems that can result in foil delamination, "creep", wrinkling, or even disbonding of the sheet from the substrate.