



VERAL STAINLESS STEEL

Commercial Product Data Sheet

Veral Stainless Steel is a 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 316L laboratory grade stainless steel foil facing.

Contact Siplast for information on approved product uses.

USES: FINISH PLY

PRODUCT INFORMATION

Roll Length	Min: 25 ft (7.70 m)
Roll Width	Avg: 3.28 ft (1.00 m)
Coverage	0.75 Square (7.0 m ²)
Coverage Weight Per Square	Min: 109 lb (5.3 kg/m ²)
Selvage Width	Avg. 2.75 in (70 mm)
Selvage Surfacing	Burn-off Film
Top Surfacing	Continuous Stainless Steel Foil 316 L Laboratory Grade
Back Surfacing	Polypropylene Film

Application

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Veral Stainless Steel 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

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

Listings, Approvals, & Certifications



U.S. TEST STANDARDS

Property (as Manufactured)	Values / Units	Test Method
Thickness (minimum)	130 mils (3.5 mm)	ASTM D5147 Section 6
Thickness (average)	142 mils (3.6 mm)	ASTM D5147 Section 6
*Peak Load @ 73.4°F (23°C) (average)	110 lbf/inch (19.4 kN/m)	ASTM D5147 Section 7
*Peak Load @ 0°F (-18°C) (average)	200 lbf/inch (35.3 kN/m)	ASTM D5147 Section 7
*Elongation @ Peak Load 73.4°F (23°C) (average)	5%	ASTM D5147 Section 7
*Elongation @ Peak Load 0°F (-18°C) (average)	4%	ASTM D5147 Section 7
*Ultimate Elongation @ 73.4°F (23°C) (average)	45%	ASTM D5147 Section 7
*Tear Strength (average)	120 lbf (0.54 kN)	ASTM D5147 Section 8
Water Absorption (maximum)	1%	ASTM D5147 Section 10
Dimensional Stability (maximum)	0.2%	ASTM D5147 Section 11
Low Temperature Flexibility (maximum)	0°F (-18°C)	ASTM D5147 Section 12
Compound Stability (minimum)	225°F (107°C)	ASTM D5147 Section 16
Coating Thickness – Back Surface	≥ 40 mils (1 mm)	ASTM D5147 Section 17
**Thermal Shock Resistance (maximum)	0.2%	ASTM D6298

*The value reported is the lower of either MD or XD.

**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.

CANADA TEST STANDARDS

Property (as Manufactured)	Values / Units	Test Method
Thickness (minimum)	3.5 mm (130 mils)	CSA A123.23-15
Thickness (average)	3.6 mm (142 mils)	CSA A123.23-15
*Peak Load @ 23°C (73.4°F) (average)	19.4 kN/m (110 lbf/inch)	CSA A123.23-15
*Peak Load @ -18°C (0°F) (average)	35.3 kN/m (200 lbf/inch)	CSA A123.23-15
*Elongation @ Peak Load 23°C (73.4°F) (average)	5%	CSA A123.23-15
*Elongation @ Peak Load -18°C (0°F) (average)	4%	CSA A123.23-15
*Ultimate Elongation @ 23°C (73.4°F) (average)	45%	CSA A123.23-15
Dimensional Stability	0.2%	CSA A123.23-15
Low Temperature Flexibility (maximum)	-18°C (-0°F)	CSA A123.23-15
Compound Stability (minimum)	107°C (225°F)	CSA A123.23-15
Coating Thickness – Back Surface	1 mm (≥ 40 mils)	CSA A123.23-15
**Thermal Shock Resistance (maximum)	0.2%	CSA A123.23-15
Mass Per Unit Area	109 lb/sq (5.3 kg/m ²)	CSA A123.23-15

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