

# VERAL ALUMINUM



## Commercial Product Data Sheet

### Product Description

Veral Aluminum is a high performance, foil clad, modified bitumen finish ply designed for use in multi-layer modified bitumen roof systems. Veral Aluminum 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 aluminum foil facing.

### Product Uses

Veral Aluminum 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 Aluminum is the standard flashing sheet in all guaranteed Siplast Roof Systems. Veral Aluminum 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 Aluminum 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 Aluminum 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.

Veral meets or exceeds the requirements of ASTM D 6298 for SBS-modified bituminous sheet materials using foil facing.

Veral Aluminum is certified by the U.S. EPA as an ENERGY STAR<sup>®</sup> Roof Product.

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

### COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square	(9.3 m <sup>2</sup> )	
Coverage Weight Per Square:	Min: 96 lb	(4.6 kg/m <sup>2</sup> )	
Roll Length:	Min: 33.5 ft	(10.21 m)	
Roll Width:	Avg: 3.28 ft	(1.00 m)	
Thickness:	Avg: 150 mils	(3.8 mm)	
	Min: 146 mils	(3.7 mm)	
Selvage Surfacing:	Release Tape		
Top Surfacing:	Continuous Aluminum Foil		
Back Surfacing:	Silica Parting Agent		

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright on the selvage edge on pallets cushioned with corrugated cardboard and are adhered with adhesive at the labels. The top of the palletted rolls is covered with Kraft paper. The palletted 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: 23  
Number Pallets Per Truckload: 18  
Minimum Roll Weight: 96 lb (43.5 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)	146 mils (3.7 mm)	ASTM D 5147 section 6	Thickness (minimum)	3.7 mm (146 mils)
Thickness (average)	150 mils (3.8 mm)	ASTM D 5147 section 6	Thickness (average)	3.8 mm (150 mils)
<sup>1</sup> Peak Load @ 73°F (23°C) (average)	85 lbf/inch (15.0 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load 23°C (73°F) (average)	15.0 kN/m (85 lbf/inch)
<sup>1</sup> Peak Load @ 0°F (-17°C) (average)	180 lbf/inch (31.7 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load @ -17°C (0°F) (average)	31.7 kN/m (180 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)	4.6 kg/m <sup>2</sup> (96 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.