



VERAL ALUMINUM

Commercial Product Data Sheet

Veral Aluminum is a foil clad, modified bitumen finish ply. Designed as a finish ply and flashing sheet 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.

Contact Siplast for information on approved product uses.

USES: FINISH PLY FLASHING SHEET

PRODUCT INFORMATION

Application

Refer to the applicable Siplast Technical Guide for detailed application information and slope limitations. Veral Aluminum 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

Pallet: 41 in x 48 in (104 cm x 122 cm x 98 cm) wooden pallet
Rolls Per Pallet: 23
Pallets Per Truckload: 18
Minimum Roll Weight: 96 lb (43.5 kg)
Max Pallet Weight (Typical): 2369 lb (1075 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.

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 / Units	Test Method
Thickness (minimum)		146 mils (3.7 mm)	ASTM D5147 Section 6
Thickness (average)		150 mils (3.8 mm)	ASTM D5147 Section 6
*Peak Load	@ 73.4°F (23°C) (average)	85 lbf/inch (15 kN/m)	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	180 lbf/inch (31.7 kN/m)	
*Elongation @ Peak Load	@ 73.4°F (23°C) (average)	5%	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	4%	
*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)		0.4 °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 above properties have been validated by PRI and are under continuous surveillance. The product has been validated to meet ASTM D6298.

CANADIAN TEST STANDARDS

Property (as Manufactured)		Units	CSA A123.23 Requirement	Test Method	Test Performance
Thickness (minimum)		mm (mils)	2.0 (80)	ASTM D5147	3.7 (146)
Selvage Thickness (minimum)		mm (mils)	2.0 (80)	ASTM D5147	3.3 (130)
Mass Per Unit Area (minimum)		kg/m ² (lb/100 ft ²)	2.2 (45)	ASTM D5147	4.6 (94)
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)	kN/m (lbf/in)	See Tested Value	CSA A123.23	>5.5 (> 31)
	@ -18 ± 2°C (-0.4 ± 3.6°F)				> 3.0 (>17)
*Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	kN/m (lbf/in)	5.3 (30)	ASTM D5147	> 14 (>80)
	@ -18 ± 2°C (-0.4 ± 3.6°F)		12.3 (70)		>30 (>171)
*Elongation @ Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	%	2	ASTM D5147	>4
	@ -18 ± 2°C (-0.4 ± 3.6°F)		1		>3
*Ultimate Elongation (Before and After Heat Conditioning), @ 23 ± 2°C (73.4 ± 3.6°F)		%	3	ASTM D5147	>44
Dimensional Stability (maximum)		%	0.5	ASTM D5147	0.2
Low Temperature Flexibility (maximum)		°C (°F)	-18 (-0.4)	ASTM D5147	-18 (-0.4)
Low Temperature Weathered Flexibility (maximum)		°C (°F)	-12 (10)	ASTM D5147	-12 (10)
Compound Stability (minimum)		°C (°F)	91 (195)	ASTM D5147	106 (223)
Resistance to Puncture		N/A	N/A	CSA A123.23	N/A
Granule Loss		g (oz)	N/A	ASTM D5147	N/A

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.

**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.