



PARADIENE® 30 FR BW

Commercial Product Data Sheet

Paradiene® 30 FR BW is the modified bitumen finish ply of the Paradiene 20/30 FR BW System. Designed for use in homogeneous multi-layer modified bitumen roof membrane systems, Paradiene 30 FR BW consists of a lightweight random fibrous glass mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen and is surfaced with highly reflective, white mineral granules.

Contact Siplast for information on approved product uses.

USES: FINISH PLY

PRODUCT INFORMATION

| | |
|----------------------------|---|
| Standards | ASTM D6163 Type I, Grade G; CSA A123.23-15 Type A, Grade 1 |
| Roll Length | Min: 33.5 ft (10.21 m) |
| Roll Width | Avg: 39.4 in (1.0 m) |
| Coverage | 1.0 Square (100.7 ft ²) (9.4 m ²) |
| Coverage Weight Per Square | Min: 80 lb (3.9 kg/m ²) |
| Selvage Width | Avg. 2.75 in (70 mm) Orange laying line is 3 in (76.2 mm) from the edge of the sheet. |
| Selvage Surfacing | Mineral Parting Agent |
| Top Surfacing | Bright White Mineral Granules |
| Back Surfacing | Mineral Parting Agent |
| Product Options | RoofTag |

Application

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Paradiene 30 FR BW is lapped 3 inches (76.2 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) wooden pallet
Rolls Per Pallet: 23
Pallets Per Truckload (Typical): 18
Minimum Roll Weight: 80 lb (36.3 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

U.S. TEST STANDARDS

| Property (as Manufactured) | | Values / Units | | Test Method |
|---|---------------------------|--|--|-----------------------|
| Thickness (average) | | 137 mils (3.5 mm) | | ASTM D5147 Section 6 |
| *Thickness at Selvage | | 110 mils (2.8 mm) avg. | 98 mils (2.5 mm) min. | ASTM D5147 Section 6 |
| **Peak Load | @ 73.4°F (23°C) (average) | 30 lbf/inch (5.3 kN/m) | | ASTM D5147 Section 7 |
| | @ 0°F (-18°C) (average) | 75 lbf/inch (13.2 kN/m) | | |
| **Elongation @ Peak Load | @ 73.4°F (23°C) (average) | 3% | | ASTM D5147 Section 7 |
| | @ 0°F (-18°C) (average) | 3% | | |
| **Ultimate Elongation @ 73.4°F (23°C) (average) | | 55% | | ASTM D5147 Section 7 |
| **Tear Strength (average) | | 40 lbf (0.18 kN) | | ASTM D5147 Section 8 |
| Water Absorption (maximum) | | 1% | | ASTM D5147 Section 10 |
| Dimensional Stability (maximum) | | 0.5% | | ASTM D5147 Section 11 |
| Low Temperature Flexibility (maximum) | | -15°F (-26°C) | | ASTM D5147 Section 12 |
| Granule Embedment | | 1.5 grams per sample Max. avg. loss | 2.0 grams per sample Max. individual loss | ASTM D5147 Section 15 |
| Compound Stability (minimum) | | 250°F (121°C) | | ASTM D5147 Section 16 |
| Coating Thickness – Back Surface | | 130 mils (3.3 mm) | | ASTM D5147 Section 6 |
| Cyclic Fatigue | | Paradiene 30 finish ply bonded to Paradiene 20 base ply, with an approved method of attachment, passes ASTM D5849 both as manufactured and after heat conditioning according to ASTM D5147. | | |
| | |  The above properties have been validated by PRI and are under continuous surveillance. The product has been validated to meet ASTM D6163-08, Type I, Grade G. | | |

CANADIAN TEST STANDARDS

| Property (as Manufactured) | | Units | CASA123.23 Requirement | Test Method | Test Performance |
|---|----------------------------|---|------------------------|-------------|------------------|
| Thickness (minimum) | | mm (mils) | 2.4 (95) | ASTM D5147 | 3.3 (130) |
| *Selvage Thickness (minimum) | | mm (mils) | 2.0 (80) | ASTM D5147 | 2.4 (94) |
| Mass Per Unit Area (minimum) | | kg/m ² (lb/100 ft ²) | 3.2 (65) | ASTM D5147 | 4.8 (98) |
| 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 | >0.5 (>2.9) |
| | @ -18 ± 2°C (-0.4 ± 3.6°F) | | | | >0.5 (>2.9) |
| **Peak Load (Before and After Heat Conditioning) | @ 23 ± 2°C (73.4 ± 3.6°F) | kN/m (lbf/in) | 5.3 (30) | ASTM D5147 | >6.6 (>38) |
| | @ -18 ± 2°C (-0.4 ± 3.6°F) | | 12.3 (70) | | >13 (>74) |
| **Elongation @ Peak Load (Before and After Heat Conditioning) | @ 23 ± 2°C (73.4 ± 3.6°F) | % | 2 | ASTM D5147 | >3 |
| | @ -18 ± 2°C (-0.4 ± 3.6°F) | | 1 | | >4 |
| **Ultimate Elongation (Before and After Heat Conditioning), @ 23 ± 2°C (73.4 ± 3.6°F) | | % | 3 | ASTM D5147 | >25 |
| Dimensional Stability (maximum) | | % | 0.5 | ASTM D5147 | 0.5 |
| Low Temperature Flexibility (maximum) | | °C (°F) | -18 (-0.4) | ASTM D5147 | -26 (-15) |
| Low Temperature Weathered Flexibility (maximum) | | °C (°F) | -12 (10) | ASTM D5147 | -12 (10) |
| Compound Stability (minimum) | | °C (°F) | 91 (195) | ASTM D5147 | 91 (195) |
| Resistance to Puncture | | N/A | N/A | CSA A123.23 | N/A |
| Granule Loss | | g (oz) | 2.0 (0.07) | ASTM D5147 | <2.0 (<0.07) |

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

*Measured on the selvage edge excluding the granule surfacing.

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

SOLAR REFLECTANCE / THERMAL EMITTANCE

| Property (as Manufactured) | Values | Test Method |
|--------------------------------|--------|-------------|
| Solar Reflectance (avg.) | 0.74 | ASTM C1549 |
| Thermal Emittance (avg.) | 0.91 | ASTM C1371 |
| Solar Reflectance Index (avg.) | 92 | ASTM E1980 |