

# POLYFRESKO® G SBS SA FR

## HIGHLY REFLECTIVE WHITE SELF-ADHERED SBS (ELASTOMERIC) CAP SHEET

### PRODUCT DESCRIPTION

Polyfresko G SBS SA FR is a self-adhered SBS (elastomeric) granulated cap sheet, with fire retardant additives, for use in low-slope roofing. Polyfresko G SBS SA FR is manufactured using Polyglass' patented ADESO® Dual-Compound Self-Adhered Technology. With this technology, a "true" elastomeric compound is applied to the top of the membrane and an aggressive, proprietary, self-adhesive compound is applied to the bottom. Polyfresko G SBS SA FR is constructed with a superior non-woven polyester reinforcement that provides flexibility and dimensional stability as well as excellent tear and puncture resistance.

Polyfresko G SBS SA FR membrane features CURE Technology® - an innovative thin film technology attributing to exceptional granule retention, minimal staining, scuff resistance and UV stabilization for long term durability and performance.

Polyfresko G SBS SA FR cap sheet also features SEAllap® ULTRA, side lap with self-adhesive compound for an instant bond, tested stronger than all other application methods and FASTlap®, granule free end lap. Each of these patented features provide for greater ease of application as well as improved long-term performance.

Polyfresko G SBS SA FR membrane can be used as part of a Polyglass warranted multi-ply system, when combined with Elastoflex SA V PLUS base/interply sheets or other approved Polyglass base sheets.

### TYPICAL APPLICATIONS

- Selfadhered cap sheet and flashing membrane on standard new construction and re-roofing applications.
- Self-adhered directly over an acceptable substrate or as part of a multi-ply system.
- Job sites with limited access for special installation equipment or where using a propane torch, hot asphalt or adhesives is undesirable.

### FEATURES AND BENEFITS

- Suitable for most cool roof specifications; Solar Reflectance Index (SRI) Initial: 96, Weathered: 83.
- Demonstrated to maintain exceptional reflectivity over time.
- Premium membrane construction for superior durability and puncture resistance.
- Resistance to discoloration and scuffing.
- Exceptional granule retention; 0.11 g loss vs. ASTM max 2.0 g.
- FASTlap granule free end lap provides faster, stronger seams.
- SEAllap ULTRA granule free selvage edge now with self-adhesive compound for an immediate, long-term monolithic seam.

### TECHNICAL DESCRIPTION\*

Physical Properties	ASTM Method	ASTM Value	Typical Performance
Peak Load at 0°F [-18°C]	D5147	70 lbf/in [12.3 kN/m]	131 lbf/in [22.9 kN/m] - MD 88 lbf/in [15.4 kN/m] - XMD
Elongation at Peak Load at 0°F [-18°C]	D5147	20%	56% - MD 64% - XMD
Peak Load at 73°F [23°C]	D5147	50 lbf/in [8.8 kN/m]	76 lbf/in [13.3 kN/m] - MD 51 lbf/in [8.9 kN/m] - XMD
Elongation at Peak Load at 73°F [23°C]	D5147	35%	50% - MD 66% - XMD
Ultimate Elongation at 73°F [23°C]	D5147	38%	58% - MD 82% - XMD
Tear Strength at 73°F [23°C]	D5147	55 lbf [246 N]	122 lbf [543 N] - MD 92 lbf [409 N] - XMD
Dimensional Stability [maximum]	D5147	1%	0% - MD 0.5% - XMD
Low Temperature Flexibility [maximum]	D5147	0°F [-18°C]	pass
Compound Stability [maximum]	D5147	215°F [102°C]	pass
Granule Embedment [maximum loss]	D5147	2 g	0.11 g
Adhesion to Plywood [min at 40°F]	D1970	2.0 lbf/ft	4.0 lbf/ft
Adhesion to Plywood [min at 75°F]	D1970	12.0 lbf/ft	25.0 lbf/ft

\*The properties in this table are "as manufactured" unless otherwise noted

### AVAILABLE COLORS

Highly Reflective White

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### PRODUCT DATA\*\*

Coverage (Approx).....	100 sq ft (9.3 m <sup>2</sup> )
Weight (Approx).....	88 lbs (40 kg)
Thickness (Nominal).....	142 mils (3.6 mm)
Roll Size.....	32'10" x 39 3/8" (10 m x 1 m)
Rolls/Pallet.....	20

\*\*All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D6164, Type I, Grade G
- UL Classified
- Factory Mutual Approved
- ICC ESR-2018
- Miami-Dade County Approved
- Texas Department of Insurance
- CRRC Listed
- ENERGY STAR® Certified



### PRODUCT CODES

- ESAF35KC



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### APPLICATION INSTRUCTIONS

Polyfresko G SBS SA FR is intended to be used as the uppermost layer of a multi-ply roof system in new or re-roof low-slope applications when applied over Elastoflex SA V Plus or other approved base/interply sheets. Polyfresko G SBS SA FR may also be applied directly to approved wood deck substrates of non-occupied spaces such as carports, sheds, canopies, etc.

For additional substrate requirements and information refer to Polyglass published "Suitable Substrates for Self-Adhered (SA) Membranes."

- Apply Polyfresko G SBS SA FR membrane only in dry weather and when air and surface temperatures are 40°F (5°C) and rising.
- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with PG 100 Fast-Drying Asphalt Primer or WB-3000 Water-Based Primer. Consult Polyglass Technical Service if alternate primer is allowed.
- All substrates shall be designed with proper expansion devices.
- Wood decks shall have all joints cross blocked and/or properly supported.
- Installation of Polyfresko G SBS SA FR should not adversely affect the ventilation of existing construction.
- Do not apply directly to existing shingles or other unacceptable roof coverings.
- While installing Polyfresko G SBS SA FR:
  1. Start at the low point of the roof.
  2. Unroll the material and allow to relax.
  3. Start by removing the first 18–24" of release film.
  4. Press the membrane into place with firm and even pressure. Roll the edges with a silicone hand roller to ensure complete adhesion.
  5. Gradually remove the remaining release film applying pressure from the center to the edges as you go.
  6. Position successive rolls using the 5" FASTLap at the endlap and 3" SEALLap granule free side lap. Ensure a watertight seal.
  7. After installation of the entire roof surface, roll with an 80# split-face linoleum roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment.
- Details and flashing may be installed with a hot air welder or with PG 500 Roof Cement or PolyPlus 50 Premium Modified Wet/Dry Cement. Refer to manufacturer's published details for proper design and installation of detail work.
- Use Polyglass' CURE Technology Detail and Repair Finish to treat seams on Polyfresko G SBS SA FR cap sheet. For more information, refer to CURE Technology Detail and Repair Finish Product Data Sheet.
- For detailed drawings and recommended installation procedures of typical roof segments, such as drip edge and T-joint conditions, please refer to our website at, [www.polyglass.us](http://www.polyglass.us).

### MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

### CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.  
1111 West Newport Center Drive  
Deerfield Beach, FL 33442

[www.polyglass.us](http://www.polyglass.us)

General Line: (888) 410-1375  
(954) 233-1330


Customer Service: (800) 222-9782  
Technical Service: (866) 802-8017

**Questions?** [technical@polyglass.com](mailto:technical@polyglass.com)

**Product Disclaimer:** Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 5 years.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data and warranty information, visit [www.polyglass.us](http://www.polyglass.us)

	Initial	Weathered
 <b>RAPID RATINGS</b>	<b>Solar Reflectance 0.77</b>	<b>0.68</b>
	<b>Thermal Emittance 0.90</b>	<b>0.88</b>
	Rated Product ID	0616-0011a
	Licensed Manufacturer ID	0616
	Classification	Production Line

\*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced by the measured three-year aged values upon completion of the weathering process. Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effects of solar reflectance and thermal emittance on building performance may vary.  
Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

**Solar Reflectance Index (SRI) – Initial: 96 • Weathered: 83**

