STRESSBASE®

Base & Ply Sheets
StressBase 80 | StressBase 120

OVERVIEW

StressBase sheets are high-strength, puncture and fatigue resistant, rubber-modified roofing membranes that consist of fiberglass reinforcement sandwiched by Styrene-Butadiene-Styrene (SBS) rubber in a high penetration index asphalt mixture.

StressBase sheets can be used as a nailable base sheet over approved substrates, as a base flashing for hot- and cold-applied roof systems, or as an interply in Garland's hot- or cold-applied systems. StressBase is typically used in two (2) or three (3) ply modified systems and also can be used in three (3) or four (4) ply built-up roofs (BURs).

Advanced Rubber Technology – The modifier utilized in StressBase sheets is SBS (Styrene-Butadiene-Styrene). When the SBS rubber is properly dispersed throughout the high penetration asphalt, the rubber provides increased thermal shock resistance, UV penetration, heat resistance, elongation, and low temperature flexibility. To ensure proper dispersion, a special high shear mixer is used in manufacturing.

High Strength – The StressBase membranes are reinforced with fiberglass. The high-strength provided by the fiberglass scrim resists the movement created by today's modern buildings. In addition, the fiberglass scrim in StressBase membranes provide adequate tensile strength in the machine and cross machine direction. This translates to long-term resistance to splits and tears in the modified roof system.

Security in Multi-Ply Construction – StressBase sheets are the base component of a multi-ply roof system. They combine the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems. This unique combination minimizes dependence on perfect workmanship, contact adhesive seaming, etc.

APPLICATION

Garland's StressBase sheets can be used in conjunction with Weatherking® and Green-Lock® to make up a cold-applied system. StressBase sheets can also be used with hot asphalt or Garlastic® as a multi-ply BUR, as the underlayment for Garland's HPR® roof systems or as a base flashing ply for hot-and-cold applied roof systems. Specifications for nailing to various decks are also available.

NOTE: All rolls must be cut in 18 ft. (5.5 m) lengths and allowed to relax prior to application.

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since 1895

Technical Data	StressBase 80	StressBase 120
Tensile Strength	MD 100 lbf./in. (17.5 kN/m) XD 100 lbf./in. (17.5 kN/m)	MD 100 lbf./in. (17.5kN/m) XD 100 lbf./in. (17.5 kN/m)
Tear Strength	MD 110 lbf. (489 N) XD 100 lbf. (444 N)	MD 100 lbf. (444 N) XD 85 lbf. (378 N)
Elongation	MD 4% XD 4%	MD 4% XD 4%
Low Temperature Flex	Passes -40°F (-40°C)	Passes -40°F (-40°C)

Finished membrane meets and/or exceeds the performance criteria of ASTM D 6163, TYPE I.

Test Method ASTM D 5147 is tested at:
0.08 in/min @ 0 ± 3.6°F
(2.0 mm/min @ -18 ± -3°C)

Roll Dimensions	StressBase 80	StressBase 120
Width	3 ft. 3 in. (1 m)	3 ft. 3 in. (1 m)
Length	52 ft. (15.85 m)	34 ft. 8 in. (10.60 m)
Weight	100 lbs. (45.36 kg)	85 lbs. (38.55 kg)
Nominal Thickness	90 mils (2,286 microns)	120 mils (3,048microns)
Net Coverage	150 ft^2 (13.93 m^2)	100 ft^2 (9.29 m^2)
Packaging	24 rolls / pallet	24 rolls / pallet

Eco-Facts	StressBase 80	StressBase 120
Recycled Content		
Pre-Consumer	27%	24%
Post-Consumer	-	-

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.
Installation of this product with hot oxidized asphalt may result in exposure to hazardous chemicals. Special care and attention for proper product installation must be followed in all cases. For specific details refer to the NIOSH safe handling practices in publication No. 2003-107, as well as OSHA standard 1910.134 for further exposure precautions.

ACCREDITATIONS

UL ENVIRONMENTAL CLAIMS VALIDATION — StressBase® 80 contains an average of 27% post-consumer recycled content

UL ENVIRONMENTAL CLAIMS VALIDATION — StressBase® 120 contains an average of 24% pre-consumer recycled content

MIAMI-DADE COUNTY APPROVED

INTERTEK C Warnock Hersey US

FM APPROVED

This product meets the requirements of CSA 123.23.

Garland Greenhouse

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

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