



OVERVIEW & FEATURES

StressPly IV Plus membranes are a premier, rubber-modified roof cap sheet engineered for high-performance torch applications. These 180-195 mil membranes combine a high percentage of premium Styrene-Butadiene-Styrene (SBS) rubber with a dual-composition reinforcement of polyester and fiberglass. This synergistic blend delivers exceptional tensile strength and long-term durability for the most demanding building envelopes.

Superior Strength & Weatherability – Reinforced with a high-strength polyester/fiberglass scrim, StressPly IV Plus delivers tensile strength exceeding 300 lbf/in in both machine and cross-machine directions. This robust reinforcement provides unmatched resistance to splits and tears. Infused with elite SBS polymers, the membrane maintains superior low-temperature flexibility and elastomeric recovery throughout its service life.

Unmatched Reflectivity – The StressPly IV Plus UV Mineral variant utilizes our bright white Sunburst™ mineral. This advanced surfacing provides long-term UV protection and substantial energy savings by decreasing under-roof temperatures and preventing premature membrane aging.

High-Quality Burn-Backer Film – The specialized backing is optimized to melt in perfect synchronization with the compound's softening point. The Garland logo print provides the applicator with an immediate visual cue, ensuring a secure, monolithic bond to the substrate.

TripleBoost™ Protection – Our TripleBoost formula reduces viscosity during manufacturing, allowing for greater surface exposure and superior mineral retention. Integrated UV stabilizers and antioxidants further fortify the membrane against the elements, extending the life cycle of the roof.

APPLICATION

StressPly IV Plus membranes are designed for high-performance multi-ply systems.

Approved Base Sheets

- HPR® Torch Base
- Ultra-Shield™ Torch Base
- SA Base IV (Self-Adhered)

System Configurations

Two-Ply Torch System: Apply a Garland-approved torch base to the substrate, followed by StressPly IV Plus membranes solidly torch-adhered to the base.

Note: Please refer to Application Guidelines for comprehensive application instructions for StressPly IV Plus membrane installation.

STORAGE

Store all roll goods in their original packaging, indoors on pallets protected from the elements. If stored on the roof, all product needs to be stored under a light colored, breathable tarp at all times. Rolls and containers that are improperly stored or have been warehoused for prolonged periods of time could potentially be damaged.

Technical Data	StressPly IV Plus	StressPly IV Plus Mineral	StressPly IV Plus UV Mineral
Tensile Strength	*MD310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m)	*MD310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m)	*MD310 lbf./in. (54.25 kN/m) *XD 310 lbf./in. (54.25 kN/m)
*Tear Strength	MD 510 lbf. (2269 N) XD 510 lbf. (2269 N)	MD 510 lbf. (2269 N) XD 510 lbf. (2269 N)	MD 510 lbf. (2269 N) XD 510 lbf. (2269 N)
*Elongation	*MD 9.0% *XD 8.0%	*MD 9.0% *XD 8.0%	*MD 9.0% *XD 8.0%
*Low Temperature Flex	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)

Finished membrane meets and/or exceeds ASTM D 6162, Type III

Test Method ASTM D 5147, tested at:

*2 in./min@73.4 ±3.6°F (50 mm.min @ 23± 2°C)

Roll Dimensions	StressPly IV Plus	StressPly IV Plus Mineral	StressPly IV Plus UV Mineral
Width	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)	3 ft. 3 in. (1m)
Length	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)	26 ft. 2 in. (7.98 m)
Weight	110 lbs. (49.9 kg)	125 lbs. (56.7 kg)	125 lbs. (56.7 kg)
Nominal Thickness	180 mils (4,572 microns)	195 mils (4,953 microns)	195 mils (4,953 microns)
Net Coverage	75 sq. ft. (6.96 m ²)	75 sq. ft. (6.96 m ²)	75 sq. ft. (6.96 m ²)
Packaging	20 rolls/pallet	20 rolls/pallet	20 rolls/pallet

Eco-Facts	StressPly IV Plus	StressPly IV Plus UV Mineral
Recycled Content		
Pre-Consumer	15%	–
Post-Consumer	0.5%	–
Reflectance	–	***0.67 / 0.61
Emittance	–	***0.90 / 0.90
SRI	–	***0.82 / 0.74

***Sunburst Mineral (0700-0029b) CRRG results / Rapid Ratings 3-year aging in process.

For specific application recommendations, 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.



0700-0029b
Sunbursts Mineral on
StressPly IV UV Mineral



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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.

StressPly is a registered trademark of The Garland Company, Inc.