

# HPR® SA FR Base Sheet



## OVERVIEW & FEATURES

HPR SA FR Base Sheet is an SBS (Styrene-Butadiene-Styrene), fiberglass reinforced, self-adhering, modified bitumen underlayment for the StressPly® SA FR Mineral roofing system. The top surface of the base sheet has an adhesion promoting polyolefin film. The bottom has an adhesive backing with a peel-off release film.

**Security in Multi-Ply Construction** - HPR SA FR Base Sheet is the interply layer in a multi-ply roof system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems.

**Superior Strength** - The HPR SA FR Base Sheet is reinforced with fiberglass, providing superior strength that surpasses traditional roofing underlayments. This translates to long-term resistance to splits and tears in the completed StressPly SA FR Mineral roofing system.

**Superior Fire Resistance** - The HPR SA FR Base Sheet contains a fire retardant that is added to the compound during the manufacturing process. Garland offers "Class A" fire rating for approved assemblies.

**Advanced Adhesive Technology** - The HPR SA FR Base Sheet incorporates the latest in asphalt adhesive technology to ensure excellent adhesion of the completed StressPly SA FR roofing system.

## APPLICATION

To the approved roof board that has been primed with SA Primer™, install one (1) or two (2) plies of HPR SA FR Base Sheet shingled uniformly. For a two-ply system, use a 19" (48.26 cm) starter strip followed by a full 39" (99.06 cm) wide sheet.

Starting at the low point of the roof, unroll self-adhering base sheets in the desired position. Fold the membrane length-wise back onto itself, remove the split back release film from the exposed side and gradually push the membrane into place. Apply even pressure along the entire length of the membrane from the center to outer edges to avoid air pockets or wrinkles.

Repeat for the other side. Firmly apply pressure with a suitable weighted roller to ensure 100% adhesion. The base sheets are installed in shingle fashion throughout the prepared substrate.

### Application of nailable substrate

Beginning at the low point of the roof, install one ply of HPR SA FR Base Sheet with the white release film facing upwards. Start with an appropriate roll width (1/3 or 1/2 roll width) to accommodate offsetting of side laps of subsequent layers of HPR SA FR Base Sheet and/or StressPly SA FR Mineral cap sheet. Install so that no side laps are against the flow of water. Fasten HPR SA FR Base Sheet with a minimum fastening pattern of every 9" o.c. on side laps and every 18" o.c. in two staggered rows in the field of the sheet. Overlap base sheet side laps 4" and end laps 8". Offset end laps a minimum of 3 feet. Prior to installing additional plies HPR SA FR Base Sheet remove the white release film. Additional plies HPR SA FR Base Sheet are to be installed as specified in the section above.

HPR SA FR Base Sheet rolls are individually boxed. Store rolls in these closed containers until ready for installation. Apply when the ambient air temperature, roll temperature and substrate temperature are all 50°F (10°C) or above. Application in cool temperatures will negatively affect adhesion.

NOTE: Do not leave installed base exposed; cover in the same day with HPR SA FR Base Sheet and/or StressPly SA FR Mineral cap sheet.

NOTE: Sweep or blow away any dust, dirt or sand particles that could interfere with adhesion between each layer step.

See StressPly® SA System Application Guide for full list of approved roof boards and detailed instructions.

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Technical Data	HPR SA FR Base Sheet
<b>Tensile Strength</b> ASTM D 5147	MD 60 lbf./in. (10.5 kN/m) XD 39 lbf./in. (6.8 kN/m)
<b>Tear Strength</b> ASTM D 5147	MD 100 lbf. (445 N) XD 95 lbf. (422.7 N)
<b>Elongation</b> ASTM D 5147	MD 4.0% XD 4.0%
<b>Low Temperature Flex</b> ASTM D 5147	-10°F (-23°C)

Finished membrane meets and/or exceeds ASTM D 6163, TYPE I.

Test Method ASTM D 5147 is tested at:

2 in/min @ 0 ± 73.4 ± 3.6°F

(50 mm/min @ 23 ± 2°C)

Roll Dimensions	HPR SA FR Base Sheet
<b>Width</b>	3 ft. 3 in. (1 m)
<b>Length</b>	51 ft. (15.5 m)
<b>Weight</b>	88 lbs. (40 kg)
<b>Nominal Thickness</b>	80 mils (2032 microns)
<b>Net Coverage</b>	150 sq. ft. (13.94 m²)
<b>Packaging</b>	20 rolls/pallet (Individually boxed)

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)

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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. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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