



FlexShield 918 **Polyester Ply**

Product Information and Technical Data

FlexShield 918 Polyester Ply is a unique thermally bonded, spun laid, nonwoven, roofing ply that is made from bicomponent filaments with a polyester core and polyamide skin. GlobalShield polyester roofing plies represent the highest available technology in built-up roofing ply sheets. Finish membrane assemblies provide high strength and long-term performance, while demonstrating superior elongation and recovery properties. Excellent for use with cold process or hot built-up modified bitumen systems.

Uses

#918 Polyester Ply may be used as a high performance ply sheet for use in cold process, and hot process modified bitumen roof systems. May be used as a component in high performance flashing systems.

Advantages

- Uniform Open Structure
- Isotropic characteristics
- Dimensionally stable
- High affinity to coatings
- Moldable
- High tensile strength per mass unit
- High tear resistance
- Thermally stable
- Good adhesion to bitumen
- No chemical binder
- Non-fraying

Installation

Coverage

Product is packaged in 10 square rolls (39" x 333'). Coverage will vary depending on existing project conditions that create waste and the project specifications.

Application

Surfaces must be clean and dry. Install specified perimeter flashing systems and/or base flashing system. Complete all specified carpentry and metal work before starting to install the GlobalShield System at least throughout the anticipated working area each day. Prepare the surface to be covered as specified. Replace areas of wet insulation, deteriorated deck and wood components, etc. Install roof insulation or protection course, etc. Plan the placement of the GlobalShield System to ensure that as water drains from the roof area it will run over or along, but not against shingle lap seams. Starting at the low point of the roof, apply a uniform application of the specified GlobalShield Adhesive. Use 13, 26, and 39 inch wide plies to start and finish 3 ply membranes along roof edges and terminations. Install three plies of #918 Polyester Ply shingle fashion, overlapping each ply 27-1/3 inches. Place ply sheets to ensure water will flow over or parallel to, but, never against exposed edges. Embed each ply in a uniform and continuous application of the specified GlobalShield Adhesive. Interply application rate to be a minimum of 3 gallons per 100 s.f. (24 pounds). Ply shall never touch ply, even at roof edges, laps, tapered edge strips, and cants. Lightly broom plies to assure complete adhesion. Overlap previous days work 24 inches. Lap ply sheet ends six inches. Stagger end laps 12 inches. Avoid walking on plies until adhesive has set. Surface the installed roofing plies as specified.

See GlobalShield Specifications for additional information.

Precautions

#918 Polyester Ply is not a coated fabric, therefore, uniformity of the interply application of adhesives is essential for the performance of the installed membrane. When being installed with hot adhesives, the maximum temperature allowable at the point of application is 400°F. Avoid point loading on installed plies until interply adhesives have set. Flashings: the porosity of #918 Polyester Ply must be satisfied with proper amounts of adhesive. Organic felt or GlobalShield Coated Base Sheet should be used for envelopes.

SPECIFICATIONS

Mass per unit area g/m ²	180
Thickness	40.4 mils (0.65 mm)
Grab tensile strength	76 lbf. (616 N)
Resistance to tearing	57 lbf. (250 N)
Strain	38%

PACKAGING INFORMATION

Product Number	Size	Quantity	Weight
918-100	10 square roll	12 rolls/pallet	26 lbs.

Availability and Costs:

Availability: Products are immediately available from GlobalShield, Inc. throughout the United States.

Cost: Cost data is available from your local GlobalShield representative.

Technical Services: GlobalShield Technical Services Department provides problem analysis and assistance in developing recommendations for special applications. Warranty systems require inspection by GlobalShield prior to installation. Progress and final inspections are also required.

Statement of Policy and Responsibility:

GlobalShield takes responsibility for the furnishing of quality materials, and providing specifications and recommendations for their proper installation. GlobalShield does not, either itself or through its representative, practice architecture or engineering. GlobalShield offers no opinion on and expressly disclaims any responsibility for, the structural soundness of any substrate on which its products may be applied. Opinions of competent structural engineers should be obtained by the owner as to the structural soundness of the substrate, or its ability to properly support the contemplated installation. GlobalShield accepts no liability for any failure of the substrate or resultant damages, and no GlobalShield representative is authorized to vary this disclaimer.



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