

GLACIER GUARD™ 300

High Temperature Roofing Underlayment

DESCRIPTION

Glacier Guard™ 300 is a high tensile strength rubberized asphalt underlayment specifically designed to withstand temperatures up to 250°F (121°C).

Glacier Guard 300 is a composite membrane that consists of rubberized asphalt laminated to an impermeable polyethylene film layer and provides dual-barrier moisture protection.

INSTALLATION

General Information: Glacier Guard roofing underlayments are applied when the roof deck is dry and the substrate temperature is 40°F (4.4°C) or higher. At temperatures below 40°F, nailing or priming should be used to temporarily hold the membrane in place while adhesion develops. Glacier Guard 300 is designed to be covered with the primary roofing system and should not be exposed to sunlight for more than 60 days. White underlayment offers exposure time of 120 days.

Moisture: Substrate must be free of any moisture. If moisture is present, it may inhibit adhesion.

New Construction: Prepare the roof deck by removing all loose objects, dirt, dust or debris.

Re-roofing: Remove all old materials from the roof deck in the area to be covered with Glacier Guard roofing underlayment. Replace water-damaged sheathing and sweep roof deck thoroughly.

Priming: Not required for attachment to wood surfaces. All concrete surfaces and polyisocyanurate insulation should be primed using the appropriate adhesive. Adhesives are required when temperatures are below 40 F.

Valleys, Hips & Ridges: Cut Glacier Guard 300 roofing underlayment into manageable lengths. Align over the center of the valley, hip or ridge. Remove release film. Press the middle of the membrane first before working toward the edges. For open valleys, cover Glacier Guard roofing underlayment with metal valley liners.

Eaves & Rakes: Cut Glacier Guard roofing underlayment into 10-15' pieces. Remove 2-3' of release film and align the edge of the membrane, sticky side down, so it overhangs the drip edge by 3/8" (10 mm). Continue to remove release film and press as you move across the roof. Use a hand roller and/or hand pressure to press into place. Overlap end laps a minimum of 6". Glacier Guard roofing underlayment should reach a point 2' inside the interior wall line. Local codes may require additional courses. If additional courses are required, the top lap must be at least 3.5".

Drip Edges: At the rake edge, apply Glacier Guard roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place Glacier Guard roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8" (10 mm).

Metal Roofing Underlayment: Under water-shedding metal roof systems or low-slope metal roofs with a minimum 1/2" slope, start at the low point and apply Glacier Guard 300 over the full surface of the roof deck. Review the metal roofing manufacturer's instructions for limitations and precautions. Beginning at the eaves, apply product from the low point to the high point of the roof, running the roll horizontally.

ADVANTAGES

Glacier Guard 300 will resist temperatures up to 250°F without degradation of the adhesive. Glacier Guard 300 underlayment provides immediate adhesion and a watertight seal around fasteners. Glacier Guard 300

membranes bond directly to the roof substrate for fast and easy installation without the need for additional adhesives. Glacier Guard 300 will not crack, dry out or rot and provides long-term waterproofing performance.

LIMITATIONS

Glacier Guard 300 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.4°C). Glacier Guard 300 should not be left exposed to sunlight for more than 60 days. (White underlayment up to 120 days.) Glacier Guard 300 membrane should not be folded over the roof edge unless protected by a gutter or other flashing materials. The primary roof system must be ventilated to prevent excessive moisture build-up in the interior structure. Use caution during the installation of the membrane as it may become slippery when wet or covered with frost. Glacier Guard 300 is not to be used in contact with flexible PVC material. Glacier Guard 300 roofing underlayment rolls should be stored on end, under cover and in areas where the temperature is between 40° and 100°F (4.4° and 38°C). Do not double-stack pallets.

PRODUCT SPECIFICATIONS

PRODUCT COMPONENTS			
Surface	Black/White Engineered Polyolefin Composite Film with Factory-applied Anti-skid Coating		
Membrane	Rubberized Asphalt		
PRODUCT CHARACTERISTIC		Units	Results
Length	feet		66
Width	inches		36
Weight	lbs.		55
Coverage/Roll	sq./ft.		200
PHYSICAL PROPERTIES		Units	Results
Thickness (D-1970)	mil.		40
Low Temperature Flexibility (D-1970)	°F		-40
Adhesion to Plywood at 75°F (D-1970)	lbs./ft.		35
Lap Seam Adhesion at 75°F (D-1970)	lbs./ft.		21
Sealability Around Nail (D-1970)			Pass
Slip Resistance (D-1970)			Pass
Thermal Stability (D-1970)			Pass
Moisture Vapor Permeance (D-1970)	Perms		0.02
Water Absorption (D-1970)	%		0.5%
Tensile Strength Machine Direction (D-412)	psi		1200
Tensile Strength Transverse Direction (D-412)	psi		1390
Elongation at Break Machine Direction (D-412)	%		490
Elongation at Break Transverse Direction (D-412)	%		170
PACKAGING INFORMATION			
Boxes (rolls) per pallet			25

APPLICABLE STANDARDS

US-UL Classified; 2009 International Building Code™; State of Florida Approved Product FSA# FL6782; Meets ASTM D1970

WARRANTIES

EcoStar warrants this product to be free of defects in workmanship and materials at the time of shipment from EcoStar's factory. EcoStar will at its option either supply new product or refund the purchase price of any product found to be defective hereunder.

EcoStar's limited warranties are the only warranties extended by EcoStar with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. EcoStar specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of EcoStar's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the EcoStar material in question.



42 Edgewood Drive | Holland, NY 14080 | Tel: 800.211.7170 | www.ecostarllc.com

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P/N-602708 ECO-GLACIER GUARD HIGH TEMP-SMOOTH PTD. This data sheet, effective 05/01/13 supersedes all previous versions.

PRODUCT TECHNICAL DATA