

# WIP 300HT

WATER & ICE PROTECTION

HIGH-TEMPERATURE PROTECTION

## Self-Adhering Roofing Underlayment

### PRODUCT DESCRIPTION

Water and Ice Protection (WIP®) 300HT is a high-tensile-strength rubberized asphalt underlayment specifically designed to withstand temperatures up to 250°F (121°C).

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

### INSTALLATION

#### General Information:

WIP 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. WIP 300HT 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 WIP 300HT 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 primer or adhesive. Adhesives such as CCW-702 or CAV-GRIP™ are appropriate and required when temperatures are below 40°F.

#### Valleys, Hips & Ridges:

Cut WIP 300HT 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 WIP 300HT roofing underlayment with metal valley liners.

#### Eaves & Rakes:

Cut WIP 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". WIP 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 WIP roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place WIP roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8" (10 mm).

For standard installation details, follow the WIP detail drawings. For non-standard installation instructions, contact your local Carlisle Residential representative.

### PRODUCT SPECIFICATIONS

#### PHYSICAL PROPERTIES

Surface	Black/White Engineered Polyolefin Composite Film with Factory-applied Anti-skid Coating
Membrane	Rubberized Asphalt

PRODUCT CHARACTERISTIC	UNITS	RESULTS
Roll Length	feet	66
Roll Weight	lbs.	55
Roll Size	sq./ft.	198
Roll Width	inches	36

TYPICAL PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Thickness	ASTM D1970	40 mils
Low Temperature Flexibility	ASTM D1970	-45°F
Adhesion to Plywood at 75°F	ASTM D1970	35 lbs./ft.
Lap Seam Adhesion at 75°F	ASTM D1970	21 lbs./ft.
Sealability Around Nail	ASTM D1970	Pass
Slip Resistance	ASTM D1970	Pass
Thermal Stability	ASTM D1970	Pass
Moisture Vapor Permeance	ASTM D1970	0.02 perms
Water Absorption	ASTM D1970	0.5%
Tensile Strength Machine Direction	ASTM D412	250 psi
Tensile Strength Transverse Direction	ASTM D412	1390 psi
Elongation at Break Machine Direction	ASTM D412	250%
Elongation at Break Transverse Direction	ASTM D412	170%

#### PACKAGING INFORMATION

Boxes (rolls) per pallet	25
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#### Metal Roof 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 WIP 300HT 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

- High-Temperature Formulation: WIP 300HT will resist temperatures up to 250°F without degradation of the adhesive.
- Moisture and Air Barrier: WIP 300HT protects the roof structure from water seepage caused by ice dams and wind-driven rains.
- Self Sealing: WIP 300HT membranes seal around roofing nails, staples and screws.
- Self Adhering: WIP 300HT membranes bond directly to the roof substrate for fast and easy installation without the need for additional adhesives.
- Split-Release Film: WIP 300HT features a split-release film for easier and faster installation.
- Permanent Protection and Low Lifecycle Cost: WIP 300HT will not crack, dry out or rot and provides long-term waterproofing performance.
- Aesthetically Pleasing: WIP 300HT is a concealed waterproofing system that will not detract from the architectural aesthetics of the primary roofing system.
- Watertight Seams: WIP 300HT features an exposed rubberized asphalt bead along the edges that helps ensure the water-tightness of the lap seams.

## LIMITATIONS

- WIP 300HT should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.4°C).
- WIP 300HT should not be left exposed to sunlight for more than 60 days. (White underlayment up to 120 days.)
- WIP 300HT membrane should not be folded over the roof edge unless protected by a gutter or other flashing materials.
- WIP 300HT is an air and vapor barrier. It is the responsibility of the design professional, and good building design practice, to provide proper roof insulation and ventilation to help reduce ice dams and condensation.
- Use caution during the installation of the membrane as it may become slippery when wet or covered with frost.
- Not to be used in contact with flexible PVC material.

## APPLICABLE STANDARDS

- US-UL Classified
- ICC-ES ESR #2206
- 2009 International Building Code™
- State of Florida Approved Product FSA# FL6782
- Meets ASTM D1970

## STORAGE

WIP 300HT 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.

## LIMITED WARRANTY

CARLISLE COATINGS AND WATERPROOFING INCORPORATED (CARLISLE) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any CARLISLE materials prove to contain manufacturing defects that substantially affect their performance, CARLISLE will, at its option, replace the material or refund the purchase price.

This limited warranty is the only warranty extended by CARLISLE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. CARLISLE 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 CARLISLE'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the CARLISLE material in question.

