



Carlisle Residential Water and Ice Protection (WIP) 250 is a self-adhering composite underlayment that consists of fiberglass-reinforced rubberized asphalt laminated to an impermeable film layer to provide dual-barrier moisture protection. Withstanding temperatures of up to 250°F, WIP 250 is ideal for use under metal roofs and provides unsurpassed protection from water penetration caused by wind-driven rain and ice dams.

Features and Benefits

- Protects the roof structure from water seepage caused by ice dams and wind-driven rains
- Seals around roofing nails, staples and screws
- Bonds directly to the roof substrate for fast and easy installation without the need for additional adhesives
- Split-release film provides easier, faster installation
- Unique granular skid-resistant surface for safe and easy installation
- Resists cracking, drying and rotting, providing long-term waterproofing performance and low lifecycle cost
- Concealed waterproofing system will not detract from the architectural aesthetics of the primary roofing system
- Withstands temperatures of up to 250°F without degradation of the adhesive and allows up to 90 days exposure time

Standards

- UL Classified
- 2009 International Building Code™
- State of Florida Approved Product FSA# FL6785
- Meets ASTM D1970

Storage

WIP 250 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).

Warranty

Carlisle WIP products are backed by Carlisle's industry-leading warranty. Visit our website for warranty details.



Installation

Carlisle Residential WIP 250 underlayment is 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. This product is designed to be covered with the primary roofing system and should not be exposed to sunlight for more than 90 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 and debris.

Re-roofing

Remove all old materials from the roof deck in the area to be covered with WIP 250 underlayment. Replace water-damaged sheathing and sweep roof deck thoroughly.

Priming

Priming is not required on clean, dry wood or metal surfaces but concrete masonry, exterior gypsum board and polyisocyanurate insulation should be primed using the appropriate primer or adhesive. Adhesives such as CCW-702 and CAV-GRIP™ are appropriate and required when temperatures are below 40°F.

Valleys, Hips & Ridges

Cut WIP 250 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 roofing underlayment with metal valley liners.

Eaves & Rakes

Cut WIP 250 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 1/2".

Drip Edges

At the rake edge, apply WIP 250 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 by 3/8" (10 mm).

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

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 250 over the full surface of the roof deck. Review the metal roofing manufacturer's instructions for limitations and precautions. Beginning at the eaves, apply WIP 250 from the low point to the high point of the roof, running the roll horizontally.

Limitations

- WIP 250 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.5°C).
- WIP 250 should not be left exposed to sunlight for more than 90 days.
- WIP 250 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.
- WIP 250 should not be used in contact with flexible PVC material.

PRODUCT SPECIFICATIONS

PHYSICAL PROPERTIES		
Surface	White Base Film with Blue Anti-Skid Texture	
Membrane	Rubberized Asphalt-Reinforced	
PRODUCT CHARACTERISTIC	UNITS	RESULTS
Roll Length	feet	66.7
Roll Weight	lbs	65
Roll Size	sq/ft	198
Roll Width	inches	36
TYPICAL PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Thickness	ASTM D1970	62 mils
Low Temperature Flexibility	ASTM D1970	-25°F
Adhesion to Plywood at 75°F	ASTM D1970	30 lbs/ft
Lap Seam Adhesion at 75°F	ASTM D1970	40 lbs/ft
Sealability Around Nail	ASTM D1970	Pass
Slip Resistance	ASTM D1970	Pass
Thermal Stability	ASTM D1970	Pass
Moisture Vapor Permeance	ASTM D1970	0.03 perms
Water Absorption	ASTM D1970	0.4%
Maximum Load Machine Direction	ASTM D1970	50 lbs/in
Maximum Load Transverse Direction	ASTM D1970	30 lbs/in
Elongation at Break Machine Direction	ASTM D1970	60%
Elongation at Break Transverse Direction	ASTM D1970	80%
Tear Resistance Machine Direction	ASTM D1970	85 lbs
Tear Resistance Transverse Direction	ASTM D1970	60 lbs
PACKAGING INFORMATION		
Boxes (rolls) per pallet		20