



WIP 400 is a self-adhering membrane composed of a strong, skid-resistant polyolefin film laminated to a thick layer of highly adhesive rubberized asphalt. This specification-grade underlayment provides superior 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
- 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
- Exposed rubberized asphalt bead along the membrane edge ensures water tightness of lap seams

Standards

- 2009 International Building Code™
- ICC-ES ESR #2206
- UL Classified
- Meets ASTM D1970
- State of Florida Approved Product FSA #FL6785

Storage

WIP 400 roofing underlayment rolls should be stored flat, under cover and in areas where the temperature is between 40° and 100°F (4.4° and 38°C). Do not double-stack pallets.

Warranty

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



Installation

WIP 400 roofing 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. WIP 400 is designed to be covered with the primary roofing system and should not be exposed to sunlight for more than 60 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 400 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 or CAV-GRIP™ are appropriate and required when temperatures are below 40°F.

Valleys, Hips & Ridges

Cut WIP 400 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 400 underlayment with metal valley liners.

Eaves & Rakes

Cut WIP 400 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 400 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 400 underlayment first and place drip edge on top. At the eave, apply drip edge first and place WIP 400 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.

Limitations

- WIP 400 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.5°C).
- WIP 400 should not be left exposed to sunlight for more than 60 days.
- WIP 400 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 400 should not be used under metal roofs.
- Do not apply when ambient temperature is below 40°F. Consult a Carlisle Representative for extreme high- or low-temperature applications. Applications below 40°F may require nailing of the membrane.
- WIP 400 must not be used in contact with flexible PVC material.

PRODUCT SPECIFICATIONS

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PHYSICAL PROPERTIES		
Surface	Black Engineered Polyolefin Composite Film with Factory-applied Anti-skid Coating	
Membrane	Rubberized Asphalt	
PRODUCT CHARACTERISTIC	UNITS	RESULTS
Roll Length	feet	75
Roll Weight	lbs	62
Roll Size	sq/ft	225
Roll Width	inches	36
TYPICAL PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Thickness	ASTM D1970	40 mils
Low Temperature Flexibility	ASTM D1970	-40°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	1200 psi
Tensile Strength Transverse Direction	ASTM D412	1390 lbs/in
Elongation at Break Machine Direction	ASTM D412	490%
Elongation at Break Transverse Direction	ASTM D412	170%
PACKAGING INFORMATION		
Boxes (rolls) per pallet		25