



NC300HT is a high-tensile-strength rubberized asphalt underlayment specifically designed to withstand temperatures up to 250° F (121°C). Ideal for use under metal including copper, zinc and COR-TEN® (consult technical department for installation instructions), WIP 300HT can also be used under synthetic tiles and asphalt shingles. This strong, skid-resistant membrane is available in either black or white and 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
- Resists temperatures up to 250° F without degradation of the adhesive
- 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 watertightness of lap seams

Standards

- UL Classified
- ICC-ES ESR #2206
- 2009 International Building Code™
- State of Florida Approved Product FSA# FL6782
- Meets ASTM 01970

Storage

NC300HT 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.

Warranty

NC300HT products are backed by Carlisle's industry-leading warranty. Visit our website for warranty details.



Installation

NC300HT 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. NC300HT 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 and debris.

Re-roofing

Remove all old materials from the roof deck in the area to be covered with NC300HT 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 GAV-GRIP™ are appropriate and required when temperatures are below 40°F.

Valleys, Hips & Ridges

Cut NC300HT 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 NC300HT roofing underlayment with metal valley liners.

Eaves & Rakes

Cut NC300HT 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". NC300HT 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 NC300HT underlayment first and place drip edge on top. At the eave, apply drip edge first and place NC300HT underlayment on top of the drip edge so that it overhangs drip edge by 3/8" (10 mm).

For standard installation details, follow the NC300HT detail drawings. For non-standard installation instructions, contact your local New Castle 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 NC300HT over the full surface of the roof deck. Review the metal roofing manufacturer's instructions for limitations and precautions. Beginning at the eaves, apply underlayment from the low point to the high point of the roof, running the roll horizontally.

Limitations

- NC300HT should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.4°C).
- NC300HT should not be left exposed to sunlight for more than 60 days for black membrane or 120 days for white membrane.
- NC300HT 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.
- NC300HT must not be used in contact with flexible PVC material.

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 01970 4.0 mils

Low Temperature Flexibility ASTM 01970 -45°F

Adhesion to Plywood at 75°F ASTM 01970 35 lbs/ft

Lap Seam Adhesion at 75°F ASTM 01970 21 lbs/ft

Sealability Around Nail ASTM 01970 Pass

Slip Resistance ASTM 01970 Pass

Thermal Stability ASTM 01970 Pass

Moisture Vapor Permeance ASTM 01970 0.02 perms

Water Absorption ASTM 01970 0.5%

Tensile Strength Machine Direction Tensile ASTM 0412 250 psi

Strength Transverse Direction Elongation at ASTM 0412 139% psi

Break Machine Direction Elongation at Break ASTM 0412 250%

Transverse Direction ASTM 0412 170%

PACKAGING INFORMATION

Boxes (rolls) per pallet 25