

SECTION 07600

METAL ROOF UNDERLAYMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Self-adhering, rubberized asphalt roofing underlayment system.

1.2 REFERENCES (INDUSTRY STANDARDS)

- A. General: Refer to Division 1 References Section.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data. Submit specimen copy of warranty specified herein.
- B. Shop Drawings: Submit shop drawings showing layout, profiles and product components.
- C. Samples: Submit verification samples.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with a minimum of 10 years experience in the manufacture of rubberized asphalt, self-adhering membranes.
- B. The formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration, or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Schedule deliveries to avoid construction delays but minimize jobsite storage.
- B. Storage and Protection: Store materials protected from exposure to harmful weather conditions. As recommended by manufacturer, store materials at a temperature between 40° and 100°F (4.4° and 37.8°C). If exposed to lower temperatures, restore materials to 40°F (4.4°C) minimum temperature before application.

1.6 PROJECT CONDITIONS/SITE CONDITIONS

- A. Environmental Requirements/Conditions:
 - 1. Weather Conditions: Neither commence nor proceed with the underlayment application when surface temperature is below 40°F or inclement weather conditions conflict with manufacturer's published requirements.

1.7 WARRANTY

- A. Manufacturer's Warranty: Submit manufacturer's standard 5 year material warranty.

- B. The formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration, or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Roofing Underlayment Membrane System: CCW WIP 300HT by Carlisle Coatings & Waterproofing Incorporated, 900 Hensley Lane, Wylie, Texas 75098, Phone: (800) 527-7092 Fax: (972) 442-0076.
- B. Physical Properties of Waterproofing Membrane

Property Test Method Unit Typical Value

Tensile Strength	ASTM D 412	psi. (kPa)	550 (3792)
Elongation	ASTM D 412	%	300 min.
Permeance	ASTM E 96	Perms	0.1 max.
Low Temp. Flexibility	ASTM D 1970	@ -25° F	No effect
Peel Adhesion	ASTM D 1970	lbs./in.	4

CCW WIP 300HT will resist temperatures up to 240°F without degradation of the adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions are acceptable for product installation in accordance with manufacturer's instructions.

3.2 PREPARATION

- A. Surface Preparation: Surfaces to receive underlayment shall be dry, clean, frost free, and free of laitance, dust, dirt, or other foreign matter, which may impair the bond or performance of the underlayment. Re-roofing: Remove all old materials to the roof deck for the area to be covered with CCW WIP 300HT roofing underlayment, replace water-damaged sheathing and sweep roof deck thoroughly.
- B. Adhesion Test: Determine substrate cleanability and acceptance by applying a test patch of membrane material to surface and check adhesion according to manufacturer's test procedures. Some surfaces may require priming to enhance adhesion. Prime with CCW primer.
- C. This product is designed to be covered with the primary roofing system and should not be exposed to sunlight for an extended period. CCW WIP roofing underlayment is suitable for use in any climate.

3.3 MEMBRANE INSTALLATION

- A. Field of Roof
 1. Under water-shedding metal roof systems or low slope metal roofs with a minimum 1/2 in. slope, start at the low point and apply CCW WIP 300HT roofing underlayment over the full surface of the roof deck. Review the metal roofing manufacturer's instructions for limitations or precautions.
 2. Beginning at the eaves, apply product from the low point to the high point of the roof, running the roll horizontally.
 3. Full deck coverage of CCW WIP 300HT roofing underlayment should only be applied in conjunction with adequate ventilation. CCW WIP 300HT roofing underlayment should protect an uncovered roof deck against water penetration for up to 60 days. (Note: The aesthetic appearance of the film surface may change during this period but will not effect the performance of the product.)
- B. Valleys, Hips & Ridges
 1. Cut CCW WIP 300HT roofing underlayment into 6-8 ft. lengths.
 2. Align over the center of the valley, hip, or ridge.
 3. Remove release film.
 4. Press the middle of the membrane first before working towards the edges.
- C. Eaves and Rakes
 1. Cut CCW WIP 300HT roofing underlayment into 10-15 ft. pieces.
 2. Remove 2-3 ft. of release film and align the edge of the membrane, sticky side down, so it overhangs the drip edge by 3/8 in. (10mm).
 3. Continue to remove release film and press as you move across the roof.
 4. Use a hand roller and/or hand pressure to press into place. Overlap end laps a minimum of 6 in.
- D. Drip Edge
 1. At the rake edge, apply CCW WIP 300HT roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place CCW WIP 300HT roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8 in. (10mm).

3.4 CLEANING AND PROTECTION

- A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.
- B. Protection: Protect installed product's finished surfaces from damage during construction.

End of Section

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