

ICC-ES Evaluation Report

ESR-2206

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**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION**
Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

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EVALUATION SUBJECT:

**CCW WIP 300HT, CCW WIP 400, CCW WIP 403HR, AND
CCW WIP 401 LT ROOF UNDERLAYMENTS**

1.0 EVALUATION SCOPE**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- Other Codes (see Section 8.0.)

Properties evaluated:

- Physical properties
- Water resistance

2.0 USES

CCW WIP 300HT, CCW WIP 400, CCW WIP 403HR, and CCW WIP 401 LT roof underlayments are self-adhering membranes used as alternatives to the ice dam membrane or ice barrier specified in Chapter 15 of the IBC and Chapter 9 of the IRC, respectively.

3.0 DESCRIPTION

CCW WIP 300HT, CCW WIP 400, CCW WIP 403HR and CCW WIP 401 LT membranes are normally 40 mils (1.02 mm) thick and are composed of rubberized asphalt and textured laminated polyethylene film. The membranes are backed with a release film that serves to protect the membrane adhesive and to prevent self-adhesion of the material. The membranes are supplied in rolls 36 inches (914 mm) wide and either 66 feet (20 m) or 75 feet (23 m) long. The membranes are considered to be vapor barriers. CCW WIP 300HT, 403HR and 401 LT are similar to the CCW WIP 400 membrane, except they are treated for various temperature conditions.

4.0 INSTALLATION**4.1 General:**

Installation of the membranes must comply with the requirements of the applicable code, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Prior to application of the membranes, the plywood substrate surface must be free of frost, dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced. Installation of the membranes is limited to plywood substrates complying with the requirements of the applicable code. The membranes must be applied at ambient air and plywood substrate temperatures complying with manufacturer's installation instructions.

Vertical ends and horizontal edges must be overlapped a minimum of 6 inches (152 mm) and 3¹/₂ inches (89 mm), respectively. Starting at the lower edge at the eave of the roof, the membrane is applied a minimum of two sheets wide or such that the membrane extends up the roof for the distance inside the exterior wall line of the building that is specified in the applicable code.

Flashing around protrusions or metal drip edges must be installed over the membranes, to prevent water backup.

Installation of the roof covering can proceed immediately following application of the membranes. The membranes are not intended to be left exposed and must be covered by an approved roof covering within the time set forth in the membrane manufacturer's published installation instructions.

4.2 Reroofing:

For reroofing applications, the same preparation as described in Section 4.1 applies, after the removal of the existing roof covering materials to expose the roof deck.

5.0 CONDITIONS OF USE

The CCW WIP 300HT, CCW WIP 400, CCW WIP 403HR, and CCW WIP 401 LT underlayments described in this report comply with, or are acceptable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with the requirements of the applicable code, this report and the manufacturer's published installation instructions. In the event of conflict between this report and the manufacturer's published installation instructions, this report governs.

- 5.2 Installation is limited to use on plywood roof substrates on structures located in areas where non-classified roof assemblies are permitted.
- 5.3 Installation is limited to roofs with a slope of 2:12 (16.67%) or greater.
- 5.4 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.5 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.6 Installation is limited to roofs with ventilated attic spaces, in accordance with the requirements of the applicable code.
- 5.7 The membranes are manufactured in Terrell, Texas, under a quality control program with inspections by UL LLC (AA-668).

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment for Use in Severe Climate Areas (AC48), dated October 2005 (corrected July 2009).
- 6.2 Reports of testing in accordance with ASTM D 1970.

7.0 IDENTIFICATION

The membranes are identified by labels on boxes displaying the Carlisle Coatings & Waterproofing, Inc., name and address, product name, evaluation report number (ESR-2206), shelf life information and the name of the inspection agency (UL LLC).

8.0 OTHER CODES

In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the requirements of the 1997 *Uniform Building Code*[™] (UBC). The products comply with the UBC as noted in Sections 2.0 through 7.0, with the following revisions:

- Revise Section 2.0 to read: CCW WIP 300HT, CCW WIP 400, CCW WIP 403HR, and CCW WIP 401 LT roof underlayments are self-adhering membranes used as alternatives to the underlayments for severe climate areas required in Tables 15-B-1, 15-B-2, 15-D-1 and 15-D-2 of the UBC.
- Revise Section 5.2 to read: Installation is limited to use on plywood roof substrates on structures located in areas where nonrated roof assemblies are permitted.