



- Compliance with International Codes
- Compliance with State Codes

ICC-ES Evaluation Report ESR-2206

Reissued June 2022

This report is subject to renewal June 2024.

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

REPORT HOLDER:

CARLISLE COATINGS & WATERPROOFING, INC.

EVALUATION SUBJECT:

CCW WIP 300HT AND CCW WIP 401 LT ROOF UNDERLAYMENTS

ADDITIONAL LISTEES:

DREXEL METALS

NEW CASTLE BUILDING PRODUCTS

AEP SPAN, DIVISION OF ASC PROFILES

PAC-CLAD / PETERSEN

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical properties
- Water resistance

1.2 Evaluation to the following green code(s) and standards:

- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 3.0

2.0 USES

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

3.0 DESCRIPTION

CCW WIP 300HT 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 and CCW WIP 401 LT are treated for various temperature conditions. See Table 1 for company name and product name correlation.

The attributes of the CCW WIP 300HT and CCW WIP 401 LT roof underlayments have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2020 Sections 602.1.13, 11.602.1.13, 1202.9 and 13.104.1.7; (iii) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iv) ICC 700-2008 Section 602.10 for ice barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

4.0 INSTALLATION

4.1 General:

Installation of the membranes must comply with the requirements of the applicable code, this report and the report holder's or additional listee'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 only when the ambient air and plywood substrate temperatures are above 40°F (4.4°C) as specified in the report holder's or additional listee's installation instructions.

Vertical ends and horizontal edges must be overlapped a minimum of 6 inches (152 mm) and 3½ 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 such that the membrane extends a minimum of 24 inches (610 mm) inside the exterior wall line of the building.

If the membrane becomes misaligned, the roll must be cut and restarted. The membrane must be pressed firmly into place, from the center to the edge. After application, the membrane must be inspected, and any defects repaired. "Fish mouths" must be slit, pressed flat, and covered with a patch of membrane of sufficient width and length to overlap each side and end of the slit a minimum of 6 inches (152 mm). Flashing around protrusions must be installed over the membranes, to prevent water backup. Where drip edges are installed, the ice barrier must be installed over drip edges along eaves and under drip edges along rake edges.

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 report holder's or additional listee'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 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 report holder's or additional listee's published installation instructions. In the event of conflict between this report and the report holder's or additional listee'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 ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Self-adhered Roof Underlayments for Use as Ice Barriers (AC48), dated February 2012 (editorially revised February 2021).
- 6.2 Reports of testing in accordance with ASTM D1970.

7.0 IDENTIFICATION

- 7.1 The membranes are identified by labels on boxes displaying the Carlisle Coatings & Waterproofing, Inc., name and address (or additional listee's name and address), product name, and evaluation report number (ESR-2206).
- 7.2 The report holder's contact information is the following:
CARLISLE COATINGS & WATERPROOFING, INC.
900 HENSLEY LANE
WYLIE, TEXAS 75098
(972) 442-6545
www.carlislewipproducts.com
- 7.3 The additional listees' contact information is the following:

DREXEL METALS
1234 GARDINER LANE
LOUISVILLE, KENTUCKY 40213
(888) 321-9630
www.drexmet.com

NEW CASTLE BUILDING PRODUCTS
535 OLD TARRYTOWN ROAD
WHITE PLAINS, NEW YORK 10603
(914) 358-8100
www.ncbp.com

AEP SPAN, DIVISION OF ASC PROFILES
2110 ENTERPRISE BLVD.
WEST SACRAMENTO, CALIFORNIA 95691
(800) 733-4955
www.aepspan.com

PAC-CLAD / PETERSEN
1005 TONNE ROAD
ELK GROVE VILLAGE, IL 60007
(800) 722-2523
www.pac-clad.com

TABLE 1—COMPANY NAME AND PRODUCT NAME CORRELATION

CARLISLE COATINGS & WATERPROOFING INC.	NEW CASTLE BUILDING PRODUCTS	DREXEL METALS	AEP SPAN, DIVISION OF ASC PROFILES	PAC-CLAD / PETERSEN
CCW WIP 300HT	MetShield HT High-Temp Underlayment	New Castle HT	AEP Span Underlayment HT	PAC-CLAD HT
CCW WIP 401 LT	–	–	–	–

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**Section: 07 30 05—Roofing Felt and Underlayment****REPORT HOLDER:****CARLISLE COATINGS & WATERPROOFING, INC.****EVALUATION SUBJECT:****CCW WIP 300HT AND CCW WIP 401 LT ROOF UNDERLAYMENTS****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that CCW WIP 300HT and CCW WIP 401 LT roof underlayments, described in ICC-ES evaluation report ESR-2206, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *California Building Code*® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code*® (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The CCW WIP 300HT and CCW WIP 401 LT roof underlayments, described in Sections 2.0 through 7.0 of the evaluation report ESR-2206, comply with CBC Chapter 15 provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions, as applicable, noted in the evaluation report and the additional requirements of CBC Chapter 15, as applicable.

The CCW WIP 300HT and CCW WIP 401 LT roof underlayments have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The CCW WIP 300HT and CCW WIP 401 LT roof underlayments, described in Sections 2.0 through 7.0 of the evaluation report ESR-2206, comply with CRC Chapter 9, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report and the additional requirements of CRC Chapter 9, as applicable.

The CCW WIP 300HT and CCW WIP 401 LT roof underlayments have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Area.

The products described in this supplement has not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

This supplement expires concurrently with the evaluation report, reissued June 2022.