



● Compliance to International Codes  
 ● Compliance to State/Regional Codes

# ICC-ES Evaluation Report

Reissued April 2023

## ESR-1737

This report is subject to renewal April 2025.

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

**REPORT HOLDER:**

**MFM BUILDING PRODUCTS CORPORATION**

**EVALUATION SUBJECT:**

**MFM IB-3 ICEBUSTER, IB-3 STORMSTOPPER, IB-3 SHINGLESTARTER, IB-4 STORMSTOPPER, ULTRA HT WIND & WATER SEAL™, AND SHINGLESTARTER SELF-ADHERING UNDERLAYMENTS**

**1.0 EVALUATION SCOPE**

**Compliance with the following codes:**

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-1737 LABC and LARC Supplement](#).

For evaluation for compliance with codes adopted by California Office of Statewide Health Planning and Development (OSHPD) and Division of the State Architect (DSA), see [ESR-1737 CBC and CRC Supplement](#).

**Properties evaluated:**

- Roof underlayment
- Ice barrier
- Fire classification

**2.0 USES**

IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter are self-adhering membranes used as an alternative to the ASTM D226 Type I and Type II underlayments specified in IBC Chapter 15 and IRC Chapter 9, and an alternate to the ice barrier specified in IBC Chapter 15 and IRC Chapter 9. IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, and IB-4 StormStopper underlayments are also used as components of classified

roof assemblies when installed in accordance with Section 4.2. Ultra HT Wind & Water Seal™ is limited to use with nonclassified roof assemblies.

**3.0 DESCRIPTION**

**3.1 General:**

IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, and ShingleStarter underlayments are composed of fiberglass-mat reinforcement, modified asphalt, and mineral fines on the surface. The products are black in color and have a release liner on the back that is removed prior to attachment to the substrate. The products are produced in rolls of various lengths.

Ultra HT Wind & Water Seal™ is composed of a white, cross-laminated polymer film, laminated to a high temperature rubberized asphalt adhesive. The top surface of the product is white and has a release liner on the back that is removed prior to attachment to the substrate. The product is produced in rolls of various lengths.

**3.2 IB-3 IceBuster:**

IB-3 IceBuster is nominally 50 mils thick [0.050 inch (1.27 mm)] and is produced in rolls measuring 36 inches (914 mm) wide.

**3.3 IB-3 StormStopper:**

IB-3 StormStopper is nominally 50 mils thick [0.050 inch (1.27 mm)] and is produced in rolls measuring 36 inches (914 mm) wide.

**3.4 IB-3 ShingleStarter:**

IB-3 ShingleStarter is nominally 50 mils thick [0.050 inch (1.27 mm)] and is produced in rolls measuring 36 inches (914 mm) wide.

**3.5 IB-4 StormStopper:**

IB-4 StormStopper is nominally 60 mils thick [0.060 inch (1.52 mm)] and is produced in rolls measuring 36 inches (914 mm) wide.

**3.6 ShingleStarter:**

ShingleStarter is nominally 50 mils thick [0.050 inch (1.27 mm)] and is produced in rolls measuring 7<sup>3</sup>/<sub>16</sub> inches (183 mm) wide.

**3.7 Ultra HT Wind & Water Seal™:**

Ultra HT Wind & Water Seal™ is nominally 45 mils thick [0.045 inch (1.14 mm)] and is produced in rolls measuring 36 inches (914 mm) wide.

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## 4.0 INSTALLATION

### 4.1 General:

Installation of IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter must comply with 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 membrane, the deck surface must be free of frost, dust and dirt, loose fasteners, and other protrusions. Damaged sheathing must be replaced. Installation is limited to plywood substrates complying with the requirements of the applicable code.

The membrane is cut into manageable lengths and rerolled. The membrane is aligned lengthwise, parallel to the eave, on the lower edge of the roof; the membrane is applied directly to the roof deck by peeling back the release liner approximately 1 to 2 feet (305 to 610 mm) and pressing the membrane firmly in place, from the center to the edge. End (vertical) seams must be overlapped a minimum of 6 inches (152 mm). Edge (horizontal) seams must be overlapped a minimum of 3 inches (102 mm) and 3 inches (76 mm) for Ultra HT Wind & Water Seal™. The subsequent courses of membrane are applied parallel to the eave, from the lower edge of the roof upwards in a shingle-lap manner.

If the membrane becomes misaligned, the roll must be cut and restarted. After application, the membrane must be inspected, and any defects repaired. "Fish mouths" are 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 3 inches (76 mm) (Flashing and metal drip edges must be installed, in accordance with the applicable code, so as to prevent water backup). A single layer of minimum 30-inch-wide (762 mm) underlayment must be installed and centered vertically on the valley before installation of the underlayment in the field, and at all hips and ridges after installation of the underlayment in the field.

Installation of an approved roof covering can proceed immediately following application of the membrane. The underlayment membrane must be covered by an approved roof covering within the time set forth in the underlayment manufacturer's published installation instructions or the additional listee's published installation instructions.

For reroofing application, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

### 4.2 Roof Classification:

Under the 2021, 2018, 2015, 2012 and 2009 IBC and IRC, the IB-3 IceBuster, IB-3 StormStopper and IB-4 StormStopper roofing underlayments may be used as components of classified roof assemblies consisting of Class A or Class C asphalt glass fiber mat shingles or Class C asphalt organic felt shingles complying with the applicable code, when installed in accordance with this report over a minimum 3/8-inch-thick (9.5 mm) plywood deck.

Under the 2006 IBC, the IB-3 IceBuster, IB-3 StormStopper and IB-4 StormStopper roofing underlayments may be used in Class A or Class B roof assemblies that utilize the roof coverings specified in the exceptions to Sections 1505.2 and 1505.3. Under the 2006

IRC, the IB-3 IceBuster, IB-3 StormStopper and IB-4 StormStopper roofing underlayments may be used with roof coverings of brick, masonry, slate, clay or concrete roof tile, concrete roof deck, ferrous or copper shingles or sheets, and metal sheets and shingles where such roof coverings are permitted to be used in lieu of a Class A assembly under Section R902.1.

Ultra HT Wind & Water Seal™ may be used where nonclassified roof coverings are permitted.

### 4.3 Ice Barriers:

One layer of IB-3 IceBuster, IB-3 StormStopper, Ultra HT Wind & Water Seal™, or IB-4 StormStopper may be used where an ice barrier is required by the code. The number of courses used must be sufficient to cover from the eave's edge to a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. When used as underlayments in the field of the roof, the products recognized in this report must overlap the ice barrier.

### 4.4 IB-3 ShingleStarter and ShingleStarter:

IB-3 ShingleStarter and ShingleStarter are intended for use as starter courses for asphalt shingle applications. Use in this manner must be approved by the asphalt shingle manufacturer and be part of their fire classification listing for the asphalt shingle roof covering system. The membrane must be installed as described in Section 4.1 of this report. End (vertical) and edge (horizontal) seams must be overlapped a minimum of 6 inches (152 mm). The end and edge seams must be covered with a uniform, continuous application of roof mastic to assure a watertight seal prior to lapping ends. A hand roller must be used to apply firm uniform pressure over all seams.

## 5.0 CONDITIONS OF USE

The MFM IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter underlayments described in this report comply with, or are suitable 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 applicable code, this report and the manufacturer's or additional listee's published installation instructions. In the event of a conflict between this report and the manufacturer's or additional listee's instructions, this report governs.
- 5.2 Installation is limited to plywood substrates for the IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter underlayments.
- 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 The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, and ShingleStarter underlayments must not be applied when the ambient air and substrate temperatures are below 40°F (4.4°C). Ultra HT Wind & Water Seal™ underlayment must not be applied when the ambient air and substrate temperatures are below 50°F (10°C).
- 5.6 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

- 5.7 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.8 The products are manufactured in Coshocton, Ohio 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 Roof Underlayments (AC188), dated February 2012 (editorially revised June 2020).
- 6.2 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).
- 6.3 Data in accordance with ASTM E108 as modified by Section 3.3 of AC188.

#### 7.0 IDENTIFICATION

- 7.1 The MFM Building Products Corporation underlayments described in this report are identified by a label on the container of each roll bearing the manufacturer's name (MFM Building Products) and address, the manufacturing location, the product name, and the evaluation report number (ESR-1737).

- 7.2 The report holder's contact information is the following:

**MFM BUILDING PRODUCTS CORPORATION**  
**525 ORANGE STREET**  
**COSHOCTON, OHIO 43812**  
**(740) 622-2645**  
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**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**

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**1.0 REPORT PURPOSE AND SCOPE**

**Purpose:**

The purpose of this evaluation report supplement is to indicate that IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter, described in ICC-ES evaluation report [ESR-1737](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

**Applicable code editions:**

- 2020 *City of Los Angeles Building Code* (LABC)
- 2020 *City of Los Angeles Residential Code* (LARC)

**2.0 CONCLUSIONS**

The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1737](#), comply with the LABC Chapter 15 and LARC Chapter 9, and are subjected to the conditions of use described in this supplement.

**3.0 CONDITIONS OF USE**

The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter, described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-1737](#).
- The design, installation, conditions of use and identification are in accordance with the 2018 *International Building Code*® (IBC) and 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report [ESR-1737](#).

This supplement expires concurrently with the evaluation report, reissued April 2023.

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## 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 the 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 IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter, described in Sections 2.0 through 7.0 of the evaluation report ESR-1737, comply with CBC Chapter 15, provided the design and installation are in accordance with the 2018 *International Building Code*® provisions noted in the evaluation report and the additional requirements of CBC Chapter 15, as applicable.

**2.1.1 OSHPD:** The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter roofing underlayments, described in Sections 2.0 through 7.0 of the evaluation report ESR-1737, comply with CBC Chapter 15 [OSHPD 2] and CBC Chapter 15 as amended [OSHPD 1, 1R, 4 and 5].

**2.1.2 DSA:** The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter roofing underlayments, described in Sections 2.0 through 7.0 of the evaluation report ESR-1737, comply with CBC amended Chapter 15 [DSA-SS and DSA-SS/CC].

## 2.2 CRC:

The IB-3 IceBuster, IB-3 StormStopper, IB-3 ShingleStarter, IB-4 StormStopper, Ultra HT Wind & Water Seal™, and ShingleStarter, described in Sections 2.0 through 7.0 of the evaluation report ESR-1737, comply with CRC Chapter 9, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 9, as applicable.

This supplement expires concurrently with the evaluation report, reissued April 2023.