

# ICC-ES Evaluation Report

**ESR-2053**

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<p><b>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 30 05— Roofing Felt and Underlayment</b></p>	<p><b>REPORT HOLDER:</b>  <b>GAF</b></p>	<p><b>EVALUATION SUBJECT:</b>  <b>VERSASHIELD® FIRE- RESISTANT ROOF DECK PROTECTION</b></p>	
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## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 [International Residential Code® \(IRC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*<sup>†</sup>

<sup>†</sup>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
- Fire classification

## 2.0 USES

VersaShield® Fire-Resistant Roof Deck Protection is used as an alternative to ASTM D226, Type I or Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

When installed in accordance with Section 4.2.1 of this report, VersaShield® Fire-Resistant Roof Deck Protection can also be used over existing wood shakes or shingles as an alternative to the covering materials specified in 2024 IBC Section 1512.3.1 (2021 IBC Section 1512.3; 2018 and 2015 IBC Section 1511.4; 2012, 2009 and 2006 IBC Section 1510.4) or 2024 IRC Section R908.4.1 (2021, 2018 and 2015 IRC Section R908.4; 2012, 2009 and 2006 IRC Section R907.4).

VersaShield® Fire-Resistant Roof Deck Protection is also used as a component of classified roofing assemblies as described in Section 4.3, when installed in accordance with this report.

## 3.0 DESCRIPTION

VersaShield® Fire-Resistant Roof Deck Protection is a resin-bound chopped-glass-fiber substrate, coated on both sides with a mineral-filled aqueous coating. The underlayment has a weight of 15 pounds per 100 square feet (0.73 kg/m<sup>2</sup>), and is supplied in rolls.

## 4.0 INSTALLATION

### 4.1 General:

VersaShield® Fire-Resistant Roof Deck Protection is installed in accordance with the requirements of the applicable code, the manufacturer’s published installation instructions and this report. The manufacturer’s published installation instructions are to be available at the jobsite during the installation.

VersaShield® Fire-Resistant Roof Deck Protection is limited to use over spaced or solid sheathing, or over existing asphalt shingles, wood shakes or wood shingles installed on spaced or solid sheathing. Prior to application of the underlayment, the deck surface is to be free of dust and dirt, loose nails, and other protrusions. Damaged sheathing is to be replaced. The underlayment is applied at right angles to the slope of the roof, beginning at the low point of the roof, and is laid with minimum 2-inch (51 mm) horizontal and 6-inch (152 mm) vertical lapped joints. It is attached with a sufficient number of nails, having tin caps or 1-inch-diameter (25.4 mm) plastic caps, to hold the underlayment in place until the roof covering is applied, except in areas subject to high winds where the underlayment fastening must comply with the high wind attachment requirements specified in IBC Section 1507 or IRC Section R905. The underlayment may be bent to a minimum 1/2-inch (12.7 mm) radius, but is not to be creased. At junctions between the roof deck and vertical surfaces, the underlayment is installed a minimum of 3 inches (76 mm) up the vertical surface.

In areas of the roof required to have an ice barrier under Chapter 15 of the IBC or Chapter 9 of the IRC, a self-adhesive polymer bitumen sheet, complying with ASTM D1970 or the ICC-ES Acceptance Criteria for Self-adhered Underlayments for Use as Ice Barriers (AC48), is to be applied. The underlayment is to be applied over the solid substrate in sufficient courses so that the underlayment extends up the roof a distance equal to the distance inside the exterior wall line of the building that is specified by the applicable code. The underlayment, applied in the field of the roof, is to completely overlap the ice barrier (severe climate underlayment) protection a minimum of 2 inches (51 mm).

Installation of the roof covering can proceed immediately following the underlayment application. The underlayment is to be covered by a roof covering within the time set forth in the manufacturer's published installation instructions.

## 4.2 Reroofing:

The existing roof must be inspected in accordance with 2024 and 2021 IBC Section 1512 (2018 and 2015 IBC Section 1511; 2012, 2009 and 2006 IBC Section 1510) or 2024, 2021, 2018 and 2015 IRC Section R908.4 (2012, 2009 and 2006 IRC Section R907). The new roof covering is installed over the VersaShield® Fire-Resistant Roof Deck Protection in accordance with the roof covering manufacturer's published installation instructions. The new roof covering must be recognized in a current ICC-ES evaluation report, and, when applicable, the evaluation report must address installation over wood shake, wood shingle or asphalt shingle roofs.

**4.2.1 Existing Wood Shakes or Shingles:** Where the application of a new roof covering over wood shingle or shake roofs creates a combustible concealed space, VersaShield® Fire-Resistant Roof Deck Protection can be used as an alternative to the covering materials specified in 2024 IBC Section 1512.3.1 (2021 IBC Section 1512.3; 2018 and 2015 IBC Section 1511.4; 2012, 2009 and 2006 IBC Section 1510.4) or 2024 IBC Section R908.4.1 (2021, 2018 and 2015 IRC Section R908.4; 2012, 2009 and 2006 IRC Section R907.4). The underlayment covers the entire existing wood roof. Battens used for the new roof covering system are installed over the underlayment. The underlayment may be placed under or over counterbattens, spaced a maximum of 24 inches (610 mm) on center. The underlayment is fastened to the counterbattens with a sufficient number of nails, having tin caps or 1-inch-diameter (25.4 mm) plastic caps, to hold the underlayment in place until the horizontal battens and roof covering are applied. When counterbattens are installed over the underlayment or when counterbattens are not used, the underlayment is fastened directly to the existing roof covering in the same manner.

**4.2.2 Existing Asphalt Shingles:** When installed over existing asphalt shingles, the underlayment is applied over the existing roof covering and fastened through the shingles to the sheathing with a sufficient number of nails, having tin caps or 1-inch-diameter (25.4 mm) plastic caps, to hold the underlayment in place until the roof covering is applied.

## 4.3 Roof Classification:

When installed in accordance with this report, VersaShield® Fire-Resistant Roof Deck Protection can be used as an alternative to Exception 2 to IBC Section 1505.2 (Exception to 2006 IBC Sections 1505.2 and 1505.3), or IRC Section R902.1; or any roofing assembly having a Class A, B or C roof classification, without reducing the roof classification. When installed in accordance with Section 4.1 and [Table 1](#) of this report, roofing assemblies incorporating VersaShield® Fire-Resistant Roof Deck Protection have the roof classification specified in [Table 1](#). The roof coverings must be recognized in a current ICC-ES evaluation report as shown in [Table 2](#).

## 5.0 CONDITIONS OF USE:

The VersaShield® Fire-Resistant Roof Deck Protection described in this report, complies with, or is a suitable alternative 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 this report; the manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 Installation is limited to roofs with a minimum slope of 2:12 (16.67 percent slope) or to the minimum slope required for the roof covering in accordance with the applicable code, whichever is greater.
- 5.3 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.4 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.5 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.6 VersaShield® Fire-Resistant Roof Deck Protection is produced in Conover, North Carolina, under a quality control program with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Nonasphaltic Fiberglass-based Roof Underlayment AC160 \(24\)](#), dated March 2026.

## 7.0 IDENTIFICATION

- 7.1 Each roll of underlayment bears a label indicating the GAF name and address, the plant identification, the product name, the roll number, and the evaluation report number (ESR-2053).
- 7.2 The report holder's contact information is the following:

**GAF**  
**1 CAMPUS DRIVE**  
**PARSIPPANY, NEW JERSEY 07054**  
**(800) 766-3411**  
[www.gaf.com](http://www.gaf.com)

**TABLE 1—ROOF CLASSIFICATION OF ASSEMBLIES INCORPORATING VERSASHIELD® FIRE-RESISTANT ROOF DECK PROTECTION**

ROOF COVERING <sup>2</sup>	SUBSTRATE	UNDERLAYMENT <sup>1</sup>	ROOF CLASSIFICATION	MAXIMUM SLOPE
Class A asphalt glass fiber shingle	15/32-inch plywood	One layer VersaShield®	A	Unlimited
Stone coated, steel, direct to deck, 0.013-inch thickness (0.330 mm), shingles or panels	15/32-inch plywood or spaced sheathing	One layer VersaShield®	A	Unlimited
Steel direct to deck, 0.013-inch thickness (0.330 mm), shingles or panels	15/32-inch plywood or spaced sheathing	One layer VersaShield®, and one layer Type 30 asphalt saturated organic felt	A	Unlimited
	15/32-inch plywood or spaced sheathing	One layer VersaShield®	B	Unlimited
Steel over battens, 0.013-inch thickness (0.330 mm), shingles or panels	15/32-inch plywood or spaced sheathing	One layer VersaShield®	A	Unlimited
	Existing wood shakes or shingles installed over spaced or solid sheathing	Two layers VersaShield®	A	Unlimited
	Existing wood shakes or shingles installed over spaced or solid sheathing	One layer VersaShield®	B	Unlimited
Steel, 0.016-inch thickness (0.406 mm), panels or standing seam system	15/32-inch plywood or spaced sheathing	One layer VersaShield®	A	Unlimited
Copper, 0.016-inch thickness (0.406 mm), shingles or panels	15/32-inch plywood or spaced sheathing	One layer VersaShield®, and one layer Type 30 asphalt saturated organic felt	A	Unlimited
	Existing wood shakes or shingles installed over spaced or solid sheathing	Two layers of VersaShield®	A	Unlimited
	15/32-inch plywood or spaced sheathing	One layer VersaShield®	B	Unlimited
	Existing wood shakes or shingles installed over spaced or solid sheathing	One layer of VersaShield®	B	Unlimited
Aluminum, 0.018-inch (0.457 mm), shingles, panels, or standing seam system	15/32-inch plywood or spaced sheathing	Two layers VersaShield®	A	Unlimited
	15/32-inch plywood or spaced sheathing	One layer VersaShield®	B	Unlimited
	Existing wood shakes or shingles installed over spaced or solid sheathing	One layer VersaShield®	B	Unlimited
TPO, CSM, CPA, EPDM, cap sheet, or modified bitumen single-ply membranes	15/32-inch plywood	Two layers VersaShield®	A	1 1/2:12
	15/32-inch plywood, insulation	Two layers VersaShield®	A	1 1/2:12
	15/32-inch plywood	One layer VersaShield®	B	1 1/2:12
PVC single-ply membrane	15/32-inch plywood	Two layers VersaShield®	A	2:12
	15/32-inch plywood, insulation	Two layers VersaShield®	A	1 1/2:12
	15/32-inch plywood	One layer VersaShield®	B	1 1/2:12

For SI: 1 inch = 25.4 mm.

<sup>1</sup>Underlayment must be installed in accordance with Section 4.0 of this report.

<sup>2</sup>Roof coverings must be recognized in a current ICC-ES evaluation report. The roof covering must comply with the Class A or B flame-spread requirements of UL790 (ASTM E108), as applicable to the systems defined in this table.

TABLE 2—EVALUATION REPORT CROSS-REFERENCE

COMPANY	ICC-ES EVALUATION REPORT NUMBER	RECOGNIZED PRODUCT
Carlisle Syntec Systems, A Division of Carlisle Construction Materials, LLC.	<a href="#">ESR-1463</a>	EPDM, PVC and TPO Single-Ply Roofing Membranes
Interlock Roofing Ltd.	<a href="#">ESR-1790</a>	Roof Panels: Shake and Hidden Fastener Tile; Roof Shingles: Shingle and Diamond
Decra Roofing Systems, Inc.	<a href="#">ESR-1754</a>	Steel Roofing Panels: Tile Profile: Decra Villa Tile; Shake Profile: Decra Shake XD™; Shingle Profile: Decra Shingle XD™; Panel Profile: Decra Shingle Plus™
Decra Roofing Systems, Inc.	<a href="#">ESR-2901</a>	Steel Roofing Panels: Tile Profile: DECRA Tile; Shake Profile: DECRA Shake; Shingle Profile: DECRA Shingle Plus
Ideal Roofing Company Ltd.	<a href="#">ESR-3101</a>	Wakefield Bridge (26 gage) and Wakefield Bridge (29 gage) Steel Roof Panels
Ideal Roofing Company Ltd.	<a href="#">ESR-3100</a>	HF-16 and HF-20.25 Roof Panels
Custom-Bilt Metals	<a href="#">ESR-2048</a>	Custom-Bilt Standing Seam Metal Roof Panels: CB-150 and SL-1750
Roser Co., Ltd	<a href="#">ESR-1763</a>	Roser Steel and Copper Roofing Panels
Berridge Manufacturing Company	<a href="#">ESR-3486</a>	Berridge Cee-Lock, Zee-Lock, Tee-Lock, Deep Deck and S-Deck Metal Roof Panels
Isaiah Industries, Inc.	<a href="#">ESR-1360</a>	Aluminum roof panels or shingles: Rustic Shingle, Country Manor Shake, Oxford Shingle, and Great American Shake and Grande Tile; Steel roof panels: KasselWood Shingle, KasselShake and Centura Shingle
Isaiah Industries, Inc.	<a href="#">ESR-4343</a>	Universal Standing Seam Steel Roof Panels
Cedar Valley Manufacturing, Inc.	<a href="#">ESR-1862</a>	Cedar Valley Shingle and Mansard Panels
Metal Sales Manufacturing Corporation	<a href="#">ESR-2385</a>	Steel Roof Panels
Tefute USA, Inc.	<a href="#">ESR-4036</a>	Tefute Steel Roofing Tiles: Bond Tile, Classical Tile, Evertile, Shingle Tile, Roman Tile, Roman II Tile, Stormetal Shingle, Stormetal Shake, and Wood Shake Tile
The Aluminum Shingle Company	<a href="#">ESR-5605</a>	PermaLock Shingles
Petersen Aluminum, A Division of Carlisle Architectural Metals	<a href="#">ESR-4173</a>	Petersen Standing Seam Metal Roof Panels: Snap-Clad, Tite-Loc, Tite-Loc Plus and PAC-150 180° Double Lock
Western States Decking, Inc. dba Western States Metal Roofing	<a href="#">ESR-4729</a>	Western States Metal Roofing – Metal Roof Panels
Taylor Metal, Inc. (dba Taylor Metal Products)	<a href="#">ESR-5046</a>	TMP Metal Roofing Panels