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# Code Compliance Research Report CCRR-1058

Re-Issue Date: 01-01-2017  
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## DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION

### Section: 07 30 05 – Roofing Felt and Underlayment

#### REPORT HOLDER:

Fiberweb, Inc.  
70 Old Hickory Blvd.  
Old Hickory, TN 37138  
(615) 847-7216

#### REPORT SUBJECT:

Surround VR Roofing Underlayment

### 1.0 SCOPE OF EVALUATION

This Research Report addresses compliance with the following Codes:

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

### 2.0 USES

Surround VR roofing underlayment is used in the field of the roof as an alternative to the ASTM D226, Type I and Type II, roof underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

The underlayment may be used in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roof underlayment, when installed as noted in Section 4.2.

The underlayment may be used as a component of a classified assembly when installed as described in this report.

The underlayment has been evaluated for the following properties:

PROPERTY	IBC SECTION <sup>1</sup>	IRC SECTION <sup>1</sup>
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905
Fire Classification	1505	R902.1
Ice Barrier	1507	R905

<sup>1</sup>Referenced sections apply to 2015, 2012 and 2009 IBC and IRC

### 3.0 DESCRIPTION

Surround VR is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The nominal weight of the underlayment is 2.25 pounds per 100 square feet. Standard size rolls are 4 feet wide by 250 feet long.

### 4.0 INSTALLATION

#### 4.1 General:

Installation of the underlayment must comply with the applicable Code, this report, and the report holder's published installation instructions.

The underlayment must be installed in accordance with the subsections of IBC Section 1507 and IRC Section R905 applicable to the roof covering being installed. The underlayment must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayment application and the underlayment must be covered within the time designated in the report holder's published installation instructions.

#### 4.2 Ice Barrier:

In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, two layers of the underlayment solidly cemented together with a low solvent based roofing cement, complying with ASTM D4586 Type 1, may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the interior wall line of the building. The underlayments installed in the field of the roof must overlap the ice barrier.

#### 4.3 Fire Classification:

Surround VR roof underlayment may be used as a component of a classified roof assembly when specifically recognized as such in a listing approved



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by the Code official. The underlayment may also be used as an alternative to the underlayments specified in the Code for roof coverings permitted under the Exceptions to IBC Section 1505.2 and IRC Section R902.1, and may be used where non-classified roofing is permitted in IBC Section 1505.5. Except in buildings permitted to have non-classified roofing, the roof deck must be minimum 15/32 inch thick wood structural panels.

## 5.0 CONDITIONS OF USE

The Surround VR roof underlayment 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 applicable Code, and the report holder's published installation instructions. The provisions of this report take precedence over the provisions in the report holder's installation instructions.

**5.2** Installation is limited to use with approved mechanically attached roof covering systems.

**5.3** Installation is limited to installations where the roof covering does not involve hot asphalt or coal-tar pitch.

**5.4** Installation is limited to roof slopes of 2:12 (17%) or greater.

**5.5** Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

**5.6** Installation for fire classification is limited to minimum 15/32 inch thick deck sheathing.

**5.7** Surround VR roof underlayment is manufactured under a quality control program with inspections by Intertek Testing Services NA Inc. (AA-647).

## 6.0 SUPPORTING EVIDENCE

**6.1** Reports of tests in accordance with ASTM E 108.

**6.2** Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

**6.3** Intertek Listing Report titled "[Fiberweb – Surround VR Roofing Underlayment](#)".

## 7.0 IDENTIFICATION

The roof underlayment is marked at 24 inch intervals with the product name. Each roll of the product is labeled with the report holder's name, the product name, the manufacturing date code, and the Code Compliance Research Report number (CCRR-1058).

## 8.0 OTHER CODES

This section is not applicable.

## 9.0 CODE COMPLIANCE RESEARCH REPORT USE

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