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ADDITIONAL COMPANY

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VEER PLASTICS PRIVATE LIMITED:

VFlash Max (Butyl adhesive based flashing)

KINGSPAN INSULATION LLC:

GreenGuard Butyl Flashing

CSI Sections:

07 65 00 Flexible Flashing

07 65 16 Modified Bituminous Sheet Flashing

07 65 26 Self-Adhering Sheet Flashing

1.0 RECOGNITION

Veer Plastics VFlash Max Flashing and Kingspan Insulation GreenGuard Butyl Flashing recognized in this report have been evaluated for use as roof and wall flashing. The durability and weather resistance properties of the VFlash Max Flashing and Green Guard Butyl Flashing comply with the provisions of the following codes and regulations:

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

2.0 LIMITATIONS

Use of the VFlash Max Flashing and GreenGuard Butyl Flashing recognized in this report is subject to the following limitations:

2.1 Installation shall be in accordance with this report, the manufacturers' installation instructions, and the applicable code. In the event of a conflict, the most restrictive shall govern.

2.2 VFlash Max Flashing and Green Guard Butyl Flashing shall not be installed in a manner that leaves it exposed to the weather or installed where it may be subject to direct weather exposure.

2.3 VFlash Max Flashing and Green Guard Butyl Flashing, when used with roof tiles, are limited to clay or concrete roof tiles. The roof tiles shall be specifically recognized in an approved. code compliant evaluation report.

2.4 Installation of VFlash Max Flashing and GreenGuard Butyl Flashing is permitted for use with wood, steel, aluminum, fiberglass and vinyl-framed flanged windows and doors. These products are also permitted for use on substrates such as plywood and oriented strand board that comply with the requirements of the applicable code or fiberglass mat gypsum sheathing recognized for use as an exterior wall sheathing in a nationally recognized code compliant evaluation report.

2.5 Under the 2012 IBC, these products are limited to use in Type V (IBC) construction and in structures constructed in accordance with the IRC. Under the 2021, 2018, and 2015 IBC, where the flashings are used with fenestration products, they are permitted to be used on buildings of all construction types.

2.6 Use of VFlash Max Flashing and GreenGuard Butyl Flashing are limited to roof slopes of not less than 2 units vertical in 12 units horizontal (17-percent slope) and not more than 24 units vertical in 12 units horizontal (200-percent slope).

2.7 VFlash Max Flashing and GreenGuard Butyl Flashing are recognized for the following substrates: OSB, Plywood, PVC, Glass Matt sheathing, and Aluminum.

2.8 VFlash Max Flashing and GreenGuard Butyl Flashing recognized in this report are manufactured in Gandhinagar, Gujarat, India.

3.0 PRODUCT USE

3.1 General: VFlash Max Flashing and GreenGuard Butyl Flashing are used to prevent moisture from entering at intersections with walls and the roof plane, in accordance with Section 1503.2 of the IBC and Section R903.2 of the IRC, as applicable.

VFlash Max Flashing and GreenGuard Butyl Flashing are for use as flashing around wall penetrations to create an air/vapor barrier. VFlash Max Flashing and GreenGuard Butyl Flashing are for use as flashing under concrete or clay hip and ridge roofing tiles. All products comply with Type A, Level 3 classification, for exposures up to 176°F (80°C), in accordance with AAMA 711.

3.2 Installation

3.2.1 Installation General: VFlash Max Flashing and GreenGuard Butyl Flashing are recognized for installation

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.





over the following substrates: oriented strand board (OSB), plywood, polyvinyl chloride (PVC), glass mat gypsum sheathing, and aluminum. The flashing shall be applied to clean, dry surfaces that are free of dirt, dust, frost, loose nails, and other similar protrusions. Some of the information described below for installing flashings is comparable to that described in ASTM E 2112, Method A1.

3.2.2 Installation of Flashing at Deck or Porch Attachment to Wall: Flashing may be used to provide a weatherproof seal where there is an attachment made to an exterior wall, such as the attachment of a deck or porch.

3.2.3 Installation of Flashing at Sill Plate: Flashing may be used to form a weatherproof seal at sill plate locations where installed between the sill plate and the foundation and over the seam between the sill plate and the foundation wall.

3.2.4 Installation of Flashing at Mounting Block and Electrical Boxes: Flashing may be used to seal a standard mounting block or electrical boxes.

3.2.5 Inside and Outside Corners: VFlash Max Flashing and GreenGuard Butyl Flashing are permitted for flashing the inside and outside corners of buildings. The flashing may be applied directly to sheathing before the wall water-resistive barrier or over the wall water-resistive barrier.

4.0 PRODUCT DESCRIPTION

VFlash Max Flashing and GreenGuard Butyl Flashing are used as flashing around windows, doors, and other openings.

VFlash Max Flashing and GreenGuard Butyl Flashing are a self-adhesive flashing tape (16-20 mils thick) (10.16-15.83 mm) with a polyolefin laminated facer/film and a butyl-based, pressure-sensitive adhesive. The flashing tape includes a release liner, preventing the product from adhesion to itself. The rolls measure 75 feet (22860 mm) in length and are provided in multiple widths of 4, 6, 9, and 12 inches (102, 152, 229, 305 mm) with custom full or partially coated widths and printed colors. VFlash Max Flashing and GreenGuard Butyl Flashing are used as flashings around windows, doors, and other openings.

4.1 Roll Size Availability

Width (inch)	Length (Ft.)	Area (Sq.ft.)
4	75	24.9
6	75	37.5
9	75	56.25
12	75	75

SI: 1 Inch = 25.4 mm, 1 foot = 304.8 mm

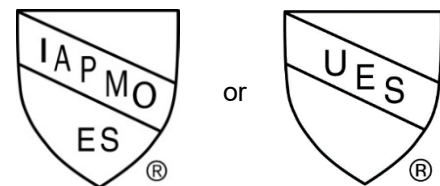
4.2 Performance

Property	VFlash Max and GreenGuard Butyl Flashing
Nominal Width (in)	4 / 6 / 9 / 12
Backing Material	Polyolefin
Adhesive	Butyl
Release Liner	Yes
Recommended service temp., Max. (°F)	(-)30° - 176°

SI: 1 Inch = 25.4mm, 1 foot = 304.8 mm, 1 degree F = 0.5556 degree C

5.0 IDENTIFICATION

VFlash Max Flashing and GreenGuard Butyl Flashing are identified by the Veer Plastic Private Limited name and trademark, product name, and evaluation report number (ER-832). Either IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-832

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with AC148, Criteria for Flexible Flashing Materials, Approved July 2017 (Editorially revised March 2021)

6.2 AAMA 711-2013 and AAMA 711-2020, Voluntary Specification for Self-Adhering Flashing.

6.3 Literature and published installation instructions from the manufacturer.

6.4 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on VFlash Max Flashing and GreenGuard Butyl Flashing to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products recognized in this report are manufactured at locations noted in Section 2.8 under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org