

Technical Information Sheet

V-Gard FR Vapor Control Membrane

Packaging	Part Number
0.4 mm, 1.08 m x 50.0 m per roll, 25 rolls per pallet	W56358900VF
Note: Each roll is packed with a belly band Weight roll: 23.5 kg/roll	

Description

The Elevate™ V-Gard FR Vapor Control Membrane is designed to be used as vapor control layer in Elevate roofing systems. It consists of a reinforced aluminium foil with self-adhesive bituminous backing protected by a release film. The fiberglass reinforcement makes it suitable for applications that involve high mechanical stresses. The V-Gard FR membrane meets the requirement for reduced fire load vapor barrier membranes as per DIN 18234 and the Industrial Buildings Directive. It can be installed on concrete, wood and steel deck. Design and selection of an appropriate vapor control layer is the responsibility of the specifier.

Preparation

Substrates need to be clean, smooth, dry and free of dust and sharp edges and other materials that may damage the membrane. Metal surfaces must also be free from remaining processing oils. Verify if detailing of the deck at roof edges and details is appropriate for installation of the vapor control layer. In case of adhered roofing systems, all substrates except metal decks, if in conjunction with local regulation, must be primed with Elevate SA-19 primer to improve the adhesion of the V-Gard FR membrane. Allow primer to dry completely before installation of the V-Gard FR membrane. V-Gard FR membranes that have been exposed at temperatures below 5°C have to be brought at ambient temperature prior to installation.

Method of Application

V-Gard FR membranes can be installed at temperatures between +5°C and +45°C. Installation at lower temperatures may cause difficulties to adhere.

It is recommended unrolling the V-Gard FR membranes onto metal decks in the same direction as the deck and positioned so that side laps are fully supported. Unroll and position the membrane with release liner in place for alignment. Stagger the membranes. Once aligned, peel back a portion of the release film and press the membrane onto the substrate for final adhesion. All membranes should be broomed to fully mate them to the substrate. Ensure proper adhesion in case of an adhered roofing assembly. Apply Elevate SA-19 Primer in case V-Gard FR is not covered by insulation on the same day. Roll the overlaps individually and verify that all capillaries are closed.

The vapor control layer should be inspected and repaired prior to installation of the insulation boards. It is recommended to cover the V-Gard FR membranes as soon as possible with insulation and roofing membrane.

Refer to the Elevate guidelines for specific installation instructions.

Coverage

The coverage rate is approx. 50m² per roll, including seam overlaps. The V-Gard FR membrane is installed with side laps (50-80 mm) and end laps (150 mm).

Characteristics

Physical		
<ul style="list-style-type: none"> Total Vapor Control Layer Self-adhesive Cold applied without use of flames Excellent mechanical properties, resistant to heavy worksite traffic. 		
Technical	Test method	Declared value
Thickness	EN 1849-1	± 0.4 mm
Water vapor impermeability (Sd)	EN 1931	≥ 1500 m
Water Vapor Transmission (μ)	EN 1931	4.400.000
Calorific value	DIN 51900-1	≤ 11.600 Kj/m ²
Tensile strength	EN 12311-1	≥ 600 N/50mm
Elongation at break	EN 12311-1	≥ 2 %
Tear resistance	EN 12310-1	≥ 200 N
Joint peel resistance	EN 12316-1	≥ 20 N/50mm
Joint shear resistance	EN 12317-1	≥ 400 N/50mm
Resistance to static load	EN 12730 (B)	≥ 20 kg
Resistance to impact	EN 12691 (A)	≥ 300 mm
	EN 12691 (B)	≥ 300 mm
Flexibility at low temperatures	EN 1109	-20 °C
Watertightness	EN 1928	Pass
Reaction to fire	EN 13501-1	E

Note: As European standards continue to develop, please contact our Technical Department or visit www.holcimelevate.com for the latest updates on physical properties.

Storage

All rolls should be stored out of the weather in a clean, dry, and well-ventilated area at a temperature between +5°C and +40°C. It is therefore not recommended to leave the V-Gard FR membranes during winter stored on the roof. Store the V-Gard FR membranes in their original unopened packaging, upright on pallets. Do not put an additional pallet (or weight) on top of the rolls. If the rolls must be stored temporarily on the roof before application, they should be stored on a pallet, elevated from the roof surface, and protected from direct sunlight, moisture and heat with a light-colored tarp in a neat safe manner until the moment they are installed.

Shelf Life

12 months can be expected if stored in above-mentioned conditions. Verify production date on each roll. Shelf life will be reduced if exposed to higher temperatures. Shelf life information is only a recommendation and not a fact of life. The real expiration date highly depends on the history of storage and handling of the accessories.

Disposal

The release liners (siliconized PP film) can be recycled.

Precautions

Take care when moving, transporting and handling to avoid sources of punctures and physical damage. Removal of the polymeric release liner from the adhesive backing may create a static electric charge; care should be used when removing and handling the release liner. Refer to Product Safety Information Sheet (PSIS) for additional safety information.

Note:

This document is meant only to highlight Elevate products and specifications based on latest knowledge and experience and is subject to change without notice. Above mentioned values are based on tested samples and may vary within applicable tolerances. For latest and complete product and detail information, please refer to the technical information posted on www.holcimelevate.com. Holcim Solutions and Products EMEA BV ("Holcim") takes responsibility for furnishing quality materials which meet Holcim's published product specifications. As neither Holcim itself nor its representatives practice architecture, Holcim offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. The selection of the appropriate product and its correct application is the responsibility of the customer and not of Holcim. No Holcim Representative is authorized to vary this disclaimer.