Technical Information Sheet

Rhenofol® CV (Broof (t1))

Delivery form	Item Number
Thickness 1.2 mm, 20.00 m x 1.50 m per roll	12 83 090
Thickness 1.5 mm, 20.00 m x 1.50 m per roll	12 84 450
Thickness 1.8 mm, 15.00 m x 1.50 m per roll	12 84 420
Thickness 2.0 mm, 15.00 m x 1.50 m per roll	12 86 690

Note: For further dimensions and colours, see price list.

Description

Rhenofol CV is a light grey roofing membrane made of soft polyvinyl chloride (PVC-P) according to EN 13956, not compatible with bitumen and reinforced with polyester fabric. Rhenofol CV is a two-layer roofing membrane system consisting of an upper film and a lower film, with the upper film accounting for approximately half of the roofing membrane thickness. The upper film is equipped with high-quality plasticizes, stabilizers, flame retardants and other additives throughout its entire thickness. Due to the thickness of the high-quality upper film, a high quality and life expectancy can be achieved. Because of their material properties, Rhenofol CV roofing membranes can be laid in a single layer. The seam overlaps can be closed practically by solvent welding or hot air welding. In combination with Rhenofol Standing Seam Profiles, prestigious roof surfaces can be aesthetically designed. Rhenofol CV is used exclusively for mechanically fastened layer structures with a roof pitch of less than 20°.

Preparation

Roofing structures need to provide sufficient stability to accommodate the total weight of the roofing system, including live loads and temporary loads during installation. Substrates need to be clean, smooth, dry, and free of sharp edges, loose or foreign materials, oil, grease, or other elements that may damage the membrane.

Application and processing

Install the roofing membrane in accordance with the current Rhenofol installation guidelines, details and execution requirements. Various mechanical fastening systems are available for installing Rhenofol CV roofing membranes: fastening with suitable retaining plates and fasteners in the seam overlap, the welding paste system or the induction method. All seams are joined using hot air welding or solvent welding. Allow sufficient cooling of all welded seams before probing. Please observe the Rhenofol installation guidelines and the Rhenofol technical manual. The installation of the roof waterproofing should be carried out by trained installers.

Consumption

To determine the quantity of membrane required, the complete installation of the horizontal surface must be taken into account, including seam overlap (50 mm for seams in the welding paste system and at least 100 mm for seams with mechanical fastening), as well as raising the surface membrane on the rising component by approx. 50-100 mm.

Properties

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HOLCIM

Physical

- Roofing membrane according to EN 13956
- Weather resistant
- Good UV resistance (7 500 h according to EN 1297)
- Resistant to flying sparks and radiant heat according to CEN/TS 1187, confirmed by official test certificates, for roof pitches < 20°. Our Rhenofol CGv should be used for roof pitches ≥ 20°
- Reaction to fire: class E, EN 13501-1
- Resistant to common industrial and heating exhaust gases
- Developed for high resistance to natural aging influences
- Hail resistance is tested according to EN 13583
- Thermal conductivity according to DIN 52612: 0.16 W/(m*K)
- Good resistance against red algae
- Certified with a current Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804 (www.ibu- epd.com)
- Listed in the DGNB Navigator (Code UGUT5N)
- High repairability over the entire life cycle
- Not resistant to: Bitumen and tar-containing materials; organic solvents such as benzene, toluene, hydrogen chlorides; fats, oils, such as oily cements and forming oils. Not compatible with rigid polystyrene foam. Incompatible with polystyrene hard foam.
- Quality assurance: Rhenofol CV is subject to constant quality control through internal and external monitoring. The internal quality assurance system of the entire company is certified according to EN ISO 9001, the world's most stringent quality standard, and is regularly audited by TÜV SÜD Management Service GmbH. It also has certification in accordance with the EN ISO 14001 environmental management system.
- FPC certificate no.: 0761-CPR-1068

Technical	Test method	Thickness 1.2 mm	Thickness 1.5 mm	Thickness 1.8 mm	Thickness 2.0 mm
Visible defects	EN 1850-2	None	None	None	None

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Length	EN 1848-2	20 m (-0 % / +5 %)	20 m (- 0% / +5 %)	15 m (-0 % / +5 %)	15 m (-0 % / +5 %)
width	EN 1848-2	1.50 m (-0.5 % / +1 %)	1.50 m (-0.5 % / +1 %)	1.50 m (-0.5 % / +1 %)	1.50 m (-0.5 % / +1 %)
Effective thickness	EN 1849-2	1.2 mm (-5 % / +10 %)	1.5 mm (-5 % / +10 %)	1.8 mm (-5 % / +10 %)	2.0 mm (-5 % / +10 %)
Straightness	EN 1848-2	< 50 mm	< 50 mm	< 50 mm	< 50 mm
Flatness	EN 1848-2	< 10 mm	< 10 mm	< 10 mm	< 10 mm
Basis weight	EN 1849-2	1.50 kg/m² (-5 % / +10 %)	1.88 kg/m² (-5 % / +10 %)	2.20 kg/m² (-5 % / +10 %)	2.44 kg/m² (-5 % / +10 %)
Watertightness	EN 1928 (B)	≥ 400 kPa/72 h	≥ 400 kPa/72 h	≥ 400 kPa/72 h	≥ 400 kPa/72 h
Tensile strength	EN 12311-2 (A)	≥ 1,000 N/50 mm	≥ 1,000 N/50 mm	≥ 1,000 N/50 mm	≥ 1,000 N/50 mm
Elongation	EN 12311-2 (A)	≥ 15%	≥ 15%	≥ 15%	≥ 15%
Resistance to static load	EN 12730 (A/B)	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg
Resistance to impact	EN 12691 (A/B)	≥ 800 mm ≥ 2,000 mm	≥ 900 mm ≥ 2,000 mm	≥ 1,200 mm ≥ 2,000 mm	≥ 1,800 mm ≥ 2,000 mm
Tear resistance	EN 12310-2	≥ 180 N	≥ 180 N	≥ 180 N	≥ 180 N
Joint peel resistance	EN 12316-2	≥ 250 N/50 mm	≥ 250 N/50 mm	≥ 250 N/50 mm	≥ 250 N/50 mm
Joint shear resistance	EN 12317-2	≥ 900 N/50 mm, tear off outside the joint seam	≥ 900 N/50 mm, tear off outside the joint seam	≥ 900 N/50 mm, tear off outside the joint seam	≥ 900 N/50 mm, tear off outside the joint seam
UV exposure	EN 1297	Class 0 (7,500 h)	Class 0 (7,500 h)	Class 0 (7,500 h)	Class 0 (7,500 h)
Foldability at low temperature	EN 495-5	≤ -30 °C	≤ -30 °C	≤ -30 °C	≤ -30 °C
Dimensional stability	EN 1107-2	≤ 0.2 %	≤ 0.2 %	≤ 0.2 %	≤ 0.2 %
Reaction to fire	EN 13501-1	Class E	Class E	Class E	Class E
External fire impact (in use)	EN 13501-5	Broof (t1)*	Broof (t1)*	Broof (t1)*	Broof (t1)*
Water vapour property μ	EN 1931(B)	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %
Hail resistance	EN 13583	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s
Chemical resistance	EN 1847	passed	passed	passed	passed
Dangerous substances	see footnote[1)]				

Note: As European standards are constantly evolving, please contact our technical department or visit www.fdt.de for the latest information on physical properties.

** Various Broof (t1) classified structures are available with this roofing membrane. For further information, please contact our technical department.*

1) European harmonized standards for testing methods do not exist, therefore the testing and declaration for the release of substances must be obtained in regards of national regulations/requirements.

Storage

- The roofing membranes retain their product properties in unopened and undamaged original packaging
- Store material in original packaging until processing
- Carefully reseal opened packaging units when storing outdoors

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- Store rolls horizontally only
- Protect rolls from direct sunlight, rain and snow

Shelf life

The roofing membranes do not have a best-before date. When stored properly in their unopened and undamaged original packaging, they retain their product properties over a long period of time.

Packaging and disposal

Waste from this product does not constitute hazardous material. National regulations must be observed.
Waste-Key numbers (AVV) for the Rhenofol CV synthetic waterproofing membrane:
• 170904 (Mixed construction- and demolition waste)
• 200139 (Plastics)

Precautions and occupational safety

Take care when moving, transporting and handling to avoid sources of punctures and physical damage. A safety data sheet is not required for this product.

Transport

The roofing membranes are usually transported on wooden pallets.

Legal Notice:

We refer emphatically to the fact, that all details mentioned, especially the application and utilization recommendation for the products and their system accessories, have been developed under normal conditions, and based on our knowledge and experience. Appropriate storage and usage of the products are assumed. A warranty or reliability of a finished project cannot be deduced because of varying materials, substrates and differing work conditions, neither by any indications nor from verbal statements, irrespective of any legal positions. For the possible accusation that FDT acted intentionally or grossly negligent, the user has to supply evidence that they provided FDT with all information and details necessary for an appropriate and correct evaluation through FDT in written form, immediately available and complete. The user is responsible for ensuring that the products are suitable for the given application. It is FDT´s right to change product specifications without notice. Property rights of third parties are to be considered. In addition, our particular sales and delivery terms are valid. The latest version of our product data sheet is obligatory, which can be requested directly through FDT. All information as well as all technical and drawing data comply with current technical standards and are based on our experience. National standards and regulations must be observed.

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