

Technical Information Sheet

Rhenofol® CVL

Delivery form	Item Number
Thickness 1.5 mm, 20.00 m x 1.50 m per roll	52 84 450
Thickness 1.5 mm, 15.00 m x 2.05 m per roll	52 84 745
<i>Note: For other dimensions and colors, see price list</i>	

Description

Rhenofol CVL is a light gray roofing membrane made of soft polyvinyl chloride (PVC-P), according to EN 13956, not bitumen-compatible, with reinforcement and made of polyester fabric. Rhenofol CVL is a two-layer roofing membrane system consisting of an upper film and a lower film. The seam overlaps can be closed in a practical manner by solvent welding or hot air welding. Rhenofol CVL is used exclusively for mechanically fastened layer construction up to < 20° roof pitch. For Rhenofol CVL roofing membranes, the same accessories are used as for our Rhenofol CV roofing membranes.

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 laying Rhenofol CVL 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. Rhenofol CVL roofing membranes can be homogeneously welded with Rhenofol products. Please Observe the Rhenofol installation guidelines. The installation of the roof waterproofing should be carried out by trained installers.

Coverage

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

Physical

- Roofing membrane according to EN 13956
- Weather resistant
- Good UV resistance
- 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
- Outstanding resistance to natural ageing
- Hail resistance is tested according to EN 13583
- Thermal conductivity according to DIN 52612: 0.16 W/(m*K)
- 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.
- Quality assurance: Rhenofol CVL 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 checked 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 1.5 mm
Visible defects	EN 1850-2	None
Length	EN 1848-2	20 m (-0 % / +5 %)
width	EN 1848-2	1.50 m (-0.5 % / +1 %)
Effective thickness	EN 1849-2	1.5 mm (-5 % / +10 %)
Straightness	EN 1848-2	< 50 mm
Flatness	EN 1848-2	< 10 mm
Basis weight	EN 1849-2	2.06 kg/m ² (-5 % / +10 %)
Watertightness	EN 1928 (B)	≥ 400 kPa/72 h
Tensile strength	EN 12311-2(A)	≥ 1,000 N/50 mm
Elongation	EN 12311-2(A)	≥ 15%
Resistance to static load	EN 12730 (A/B)	≥ 20 kg
Resistance to impact	EN 12691 (A/B)	≥ 900 mm ≥ 2,000 mm
Tear resistance	EN 12310-2	≥ 180 N
Joint peel resistance	EN 12316-2	≥ 150 N/50 mm
Joint shear resistance	EN 12317-2	≥ 900 N/50 mm, tear-off outside the joint seam
UV exposure	EN 1297	Class 0 (1,000 h)
Foldability at low temperature	EN 495-5	≤ -30 °C
Dimensional stability	EN 1107-2	≤ 0.5 %
Reaction to fire	EN 13501-1	Class E
External fire exposure (in use)	EN 13501-5	Broof (t1)*
Water vapour property μ	EN 1931(B)	≥ 18,000 +/- 30 %
Hail resistance	EN 13583	≥ 20 m/s ≥ 30 m/s
Chemical resistance	EN 1847	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 superstructures are available with this roofing membrane. For further information, please contact our technical department.*

1) As there are no European harmonized test methods, the verification and declaration of release of substances must be carried out in accordance with national regulations/requirements.

Storage

- The roofing membranes retain their product properties in unopened and undamaged original packaging
- Store material in the original packaging until processing
- Carefully reseal opened packaging units for outdoor storage
- 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 CVL synthetic sealing 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 the product.

Transport

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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