

Data sheet

Rhenofol® CV



Product name:	Rhenofol® CV
Application type acc. to DIN SPEC 20000-201:	DE/E1 PVC-P-NB-V-PG-1.2 (1.5/1.8/2.0)
Manufacturer/supplier:	FDT Flachdach Technologie GmbH Eisenbahnstraße 6 – 8 68199 Mannheim Germany
Production plant:	Mannheim
Type of application:	As roof waterproofing membrane for mechanically fastened roof build-ups, for roof pitches < 20°. For installation, the application guidelines of the manufacturer have to be observed.
FPC certificate no.:	0761-CPR-1068
European standard:	EN 13956:2012
Product description:	Non-bitumen compatible PVC-P roofing membrane with internal synthetic fiber reinforcement.
Standard membrane dimensions:	20 m × 2.05/1.50/1.03 m × 1.2 mm 20 m × 1.50 × 1.50 mm 15 m × 2.05/1.05 m × 1.5 mm 15 m × 2.05/1.50/1.03 × 1.8 mm 15 m × 1.50 m × 2.0 mm

Rhenofol® CV 1.2-2.0 mm
DE/E1 PVC-P-NB-V-PG-1.2 (1.5/1.8/2.0)

Essential characteristics	Performance	Test Standard
Reaction to fire	DIN EN 13501-1	Class E
Water vapor property μ	DIN EN 1931 (B)	$\geq 18.000 \pm 30 \%$
Tensile strength	DIN EN 12311-2 (A)	$\geq 1,000 \text{ N/50 mm}$
Elongation	DIN EN 12311-2 (A)	$\geq 15 \%$
Joint peel resistance	DIN EN 12316-2	$\geq 250 \text{ N/50 mm}$
Joint shear resistance	DIN EN 12317-2	$\geq 900 \text{ N/50 mm}$ (tear off outside the joint seam)
Resistance to impact rigid substrate / flexible substrate	DIN EN 12691 (A/B)	1.2 mm thickness $\geq 800 \text{ mm} / 2,000 \text{ mm}$ 1.5 mm thickness $\geq 900 \text{ mm} / 2,000 \text{ mm}$ 1.8 mm thickness $\geq 1,200 \text{ mm} / 2,000 \text{ mm}$ 2.0 mm thickness $\geq 1,800 \text{ mm} / 2,000 \text{ mm}$
Resistance to static load	DIN EN 12730 (A/B)	$\geq 20 \text{ kg}$
Hail resistance rigid substrate flexible substrate	DIN EN 13583	$\geq 20 \text{ m/s}$ $\geq 30 \text{ m/s}$
Tear resistance	DIN EN 12310-2	$\geq 180 \text{ N}$
Dimensional stability	DIN EN 1107-2	$\leq 0.2 \%$
Foldability at low temperature	DIN EN 495-5	$\leq -30 \text{ }^{\circ}\text{C}$
Chemical resistance	DIN EN 1847	passed
UV exposure	DIN EN 1297	Class 0 (5,000 h)
Water tightness	DIN EN 1928 (B)	$\geq 400 \text{ kPa/72 h}$
Dangerous Substances	see footnote ¹⁾	

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

Product information

Rhenofol CV – roofing membrane for mechanically fastened roof build-ups

Rhenofol CV is a roofing membrane made of non-rigid polyvinyl chloride (PVC-P), not compatible with bitumen (NB), with synthetic fiber (PG) reinforcement (V), application type DIN SPEC 20.000-201 DE/E1-PVC-P-NB-V-PG. Rhenofol CV is a two-layer roofing membrane system consisting of an upper film and a lower film makes up half of the roofing membrane thickness. The upper film is equipped with high-quality plasticizers, stabilizers, flame retardants and other additives over the entire thickness. Due to the thickness of the high-quality upper film, an above-average quality and life expectancy can be achieved. Because of their excellent 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.

Material characteristics

- Roofing membrane according to DIN EN 13956
- Weather-resistant
- Resistant to UV radiation
- Resistant to flying sparks and radiant heat according to DIN 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 according to DIN EN 13501-1
- Resistant to common industrial and heating exhaust gases
- Outstanding resistance to natural ageing
- Hail resistance is tested according to DIN EN 13583
- Thermal conductivity according to DIN 52612: 0.16 W/(m*K)
- Certified with an Environmental Product Declaration (EPD) according to DIN ISO 14025 and DIN EN 15804 (www.ibu-epd.com)
- Good resistance against red algae
- High reparability 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.

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 DIN EN ISO 9001, the world's most stringent quality standard, and is regularly checked by TÜV SÜD Management Service GmbH.

Range of application

As a final, exposed roof waterproofing membrane in a mechanically fastened roof build-up without ballast, especially for movable lightweight roofs.

Storage conditions

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

FDT legal notice

We refer emphatically to the fact that all the 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 deducted 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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