

Data sheet

Rhenofol® CVL



Product name:

Rhenofol® CVL

Application type acc. to DIN/TS 20000-201:

DE PVC-P-NB-V-PG-1,5

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 × 1,50 m × 1.5 mm

**Rhenofol® CVL 1.5 mm
DE PVC-P-NB-V-PG-1.5**

Essential characteristics	Performance	Test Standard
Visible defects	DIN EN 1850-2	no visible defects
Length	DIN EN 1848-2	20 m (-0 % / +5 %)
Width	DIN EN 1848-2	1.50 m (-0.5 % / +1 %)
Effective thickness	DIN EN 1849-2	1.5 mm (-5 % / +10 %)
Straightness	DIN EN 1848-2	< 50 mm
Flatness	DIN EN 1848-2	< 10 mm
Basis weight	DIN EN 1849-2	2.06 kg/m ² (-5 % / +10 %)
External fire impact	DIN CEN/TS 1187	B _{roof} (t1) Tested according to DIN CEN/TS 1187 with different roof structures. General approval and classification reports can be requested separately.
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)	$\geq 1,000 \text{ N}/50 \text{ mm}$
Elongation	DIN EN 12311-2 (A)	$\geq 15\%$
Joint peel resistance	DIN EN 12316-2	$\geq 150 \text{ N}/50 \text{ mm}$
Joint shear resistance	DIN EN 12317-2	$\geq 900 \text{ N}/50 \text{ mm}$ (tear off outside the joint seam)
Resistance to impact rigid substrate flexible substrate	DIN EN 12691 (A/B)	$\geq 900 \text{ mm}$ $\geq 2,000 \text{ mm}$
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	$\leq 0.5\%$
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 (1,000 h)
Water tightness	DIN EN 1928 (B)	$\geq 400 \text{ kPa}/72 \text{ h}$
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® CVL – roofing membrane for mechanically fastened roof build-ups

Rhenofol CVL 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/TS 20.000-201 DE-PVC-P-NB-V-PG. Rhenofol CVL is a two-layer roofing membrane system consisting of an upper film and a lower film. Because of their excellent material properties, Rhenofol CVL 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°.
- Resistant to common industrial and heating exhaust gases
- Good resistance to natural ageing
- Hail resistance is tested according to DIN EN 13583
- Thermal conductivity according to DIN 52612: 0.16 W/(m*K)
- Good 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.

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 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

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**FDT Flachdach
Technologie GmbH**

Eisenbahnstraße 6 – 8
68199 Mannheim, Germany

Ph. +49 6 21 85 04-100
Fax +49 6 21 85 04-200

www.fdt.de