

# CE Data sheet

## Rhenofol® CV



<b>Product name:</b>	<b>Rhenofol® CV</b>
<b>Application type acc. to DIN SPEC 20.000-201:</b>	DE/E1 PVC-P-NB-V-PG-1.2 (1.5/1.8/2.0)
<b>Manufacturer/supplier:</b>	FDT Flachdach Technologie GmbH Eisenbahnstraße 6-8 68199 Mannheim Germany
<b>Production plant:</b>	Mannheim
<b>Type of application:</b>	As roof waterproofing membrane for mechanically fastened roof build-ups, for roof pitches < 20°. For the installation, the application guidelines of the manufacturer have to be observed.
<b>FPC certificate no.:</b>	0761-CPR-1068
<b>European standard:</b>	EN 13956
<b>Product description:</b>	Non-bitumen compatible PVC-P roofing membrane with internal synthetic fibre reinforcement.
<b>Standard membrane dimensions:</b>	20 m x 2.05/1.50/1.03/0.68 m x 1.2 mm 20 m x 1.50 m x 1.5 mm 15 m x 2.05/1.03/0.68/0.50 m x 1.5 mm 15 m x 2.05/1.50/1.03 x 1.8 mm 15 m x 1.50 m x 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
Water tightness	≥ 400 kPa/72 h	DIN EN 1928 (B)
External fire performance	B <sub>roof</sub> (t1) <small>Testing according DIN CEN/TS1187 with different roof build-ups. Testing reports can be requested separately.</small>	DIN CEN/TS 1187
Reaction to fire	Class E	DIN EN 13501-1
Joint peel resistance	≥ 250 N/50 mm	DIN EN 12316-2
Joint shear resistance	≥ 900 N/50 mm (tear off outside the joint seam)	DIN EN 12317-2
Tensile strength	≥ 1,000 N/50mm	DIN EN 12311-2 (A)
Elongation	≥ 15 %	DIN EN 12311-2 (A)
Resistance to impact rigid substrate flexible substrate	1.2 mm thickness ≥ 800 mm 1.5 mm thickness ≥ 900 mm 1.8 mm thickness ≥ 1,200 mm 2.0 mm thickness ≥ 1,800 mm	DIN EN 12691 (A/B)
Tear resistance	≥ 180 N	DIN EN 12310-2
Dimensional stability	≤ 0.2 %	DIN EN 1107-2
Foldability at low temperature	≤ -30 °C	DIN EN 495-5
UV exposure	Class 0 (5,000 h)	DIN EN 1297
Hail resistance rigid substrate flexible substrate	≥ 20 m/s ≥ 30 m/s	DIN EN 13583
Water vapour property μ	≥ 18,000 ± 30 %	DIN EN 1931 (B)
Resistance to static load	≥ 20 kg	DIN EN 12730 (A/B)
Chemical resistance	passed	DIN EN 1847
Dangerous Substances	see footnote <sup>1)</sup>	–

<sup>1)</sup> European harmonised 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 fibre (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
- 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 resistant 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](http://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**

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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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