CE Data sheet

Rhenofol® CV

Product name:	**Rhenofol® CV**
Manufacturer/supplier:	FDT FlachdachTechnologie GmbH & Co. KG Eisenbahnstraße 6-8 68199 Mannheim Germany
Production plant:	Mannheim
Type of application:	For sealing mechanically fixed roof build-ups. For the installation, the application guidelines of the manufacturer have to be observed.
FPC certificate no.:	1343-CPD-K060660.6 1343-CPD-K060660.8
FPC issue of certification:	06
European standard:	EN 13956
Product description:	Synthetic PVC-P roofing membrane with internal synthetic fibre reinforcement and not compatible with bitumen.
Standard membrane dimensions:	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

Properties	EN standard	Results
External fire performance	DIN CEN/TS 1187	B_{roof} (t1) (Testing according DIN CEN/TS 1187 with different roof build-ups. Testing reports can be requested separately.)
Reaction to fire	DIN EN ISO 11925-2 DIN EN 13501-1	class E
Water vapour property μ	DIN EN 1931 (method B)	18,000
Tensile strength	DIN EN 12311-2 (method A)	≥ 1,000 N/50 mm
Elongation at break	DIN EN 12311-2 (method A)	≥ 15%
Joint peel resistance	DIN EN 12316-2	≥ 250 N/50 mm
Joint shear resistance	DIN EN 12317-2	≥ 900 N/50 mm (fracture outside the joint area)
Resistance to impact rigid substrate flexible substrate	DIN EN 12691	1.2 mm thickness ≥ 600 mm 1.5 mm thickness ≥ 900 mm 1.8 mm thickness ≥ 1,200 mm 2.0 mm thickness ≥ 1,800 mm
Resistance to static load	DIN EN 12730 (method A/B)	≥ 20 kg
Hail resistance rigid substrate flexible substrate	DIN EN 13583	 ≥ 20 m/s ≥ 30 m/s
Tear resistance	DIN EN 12310-2	≥ 150 N
Dimensional stability	DIN EN 1107-2	≤ 0.2%
Foldability at low temperature	DIN EN 495-5	≤ –30 °C
Chemical resistance	DIN EN 1847 (List annexe C)	passed
UV exposure	DIN EN 1297	class 0 (5,000 h)
Watertightness	DIN EN 1928 (method B)	≥ 400 kPa

Product information

Rhenofol CV – roofing membrane for mechanically fixed roof build-ups
Rhenofol CV is a product made of non-rigid polyvinyl chloride (PVC-P), not compatible with bitumen, a synthetic fibre reinforced roofing membrane according to DIN EN 13956. Due to the outstanding material characteristics, Rhenofol CV roofing membranes are ideal for single-ply application. Seam overlaps can be easily sealed with solvent or hot-air welding.

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 standard exhaust gas from industrial and heating plants
- 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 ISO 14025 and EN 15804

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 in-house and external quality control. The in-house quality assurance system for the whole company has been certified according to DIN EN ISO 9001, the world's most strict quality standard, and is constantly monitored by TÜV SÜD Management Service GmbH.

Range of application:
Rhenofol CV is used for waterproofing in mechanically fixed build-ups without ballast, especially for lightweight roofs. Used in conjunction with FDT standing seam profiles a simulated metal welted-seam roof can aesthetically be designed.

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