

Data sheet

Rhenofol® CG



Product name:	Rhenofol® CG
Application type acc. to DIN/TS 20000-201: DIN/TS 20000-202:	DE/E1 PVC-P-NB-E-GV-1.2 (1.5/1.8/2.0) BA PVC-P-NB-E-GV-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 sealing of green, graveled or used roofs. The waterproofing membranes are also used in building waterproofing. For installation, the application guidelines of the manufacturer have to be observed.
FPC certificate no.:	0761-CPR-1068 0761-CPR-1069
European standard:	EN 13956:2012 / EN 13967:2012
Product description:	Synthetic PVC-P roofing membrane with glass fleece reinforcement and not compatible with bitumen.
Standard membrane dimensions:	20 m × 2.05 m × 1.2 mm 15 m × 2.05 m × 1.5/1.8/2.0 mm

Rhenofol® CG 1.2-2.0 mm
DE/E1 PVC-P-NB-E-GV-1.2 (1.5/1.8/2.0)
BA PVC-P-NB-E-GV-1.2 (1.5/1.8/2.0)

Essential characteristics	Performance	Test Standard
External fire performance	DIN CEN/TS 1187	Testing according to CEN/TS 1187 with different roof build-ups. AbP or 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)	$\geq 10 \text{ N/mm}^2$
Elongation	DIN EN 12311-2 (A)	$\geq 200 \%$
Joint peel resistance	DIN EN 12316-2	$\geq 250 \text{ N/50 mm}$
Joint shear resistance	DIN EN 12317-2	$\geq 600 \text{ N/50 mm}$ (tear off outside the joint seam)
Resistance to impact rigid substrate/ flexible substrate	DIN EN 12691 (A/B)	1.2 mm thickness $\geq 600 \text{ mm} / 600 \text{ mm}$ 1.5 mm thickness $\geq 700 \text{ mm} / 2,000 \text{ mm}$ 1.8 mm thickness $\geq 800 \text{ mm} / 2,000 \text{ mm}$ 2.0 mm thickness $\geq 1,450 \text{ mm} / 2,000 \text{ mm}$
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	$\geq 140 \text{ N}$
Nail shank tear resistance	DIN EN 12310-1	$\geq 150 \text{ N}$
Resistance to root penetration	FLL DIN EN 13948	root- and rhizome-resistant
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)	$\geq 400 \text{ kPa/72 h}$
Durability of water tightness against ageing	DIN EN 1296 (96 d) DIN EN 1928 (B) (24 h/60 kPa)	passed
Durability of water tightness against chemicals	DIN EN 1847 (28 d/+ 23 °C) DIN EN 1928 (B) (24 h/60 kPa)	passed
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 CG – roofing membrane for loose-laid application under ballast, e.g. gravel or paving slabs on terraces, green roof systems or in building waterproofing.

Rhenofol CG is a roofing membrane made of non-rigid polyvinyl chloride (PVC-P), not compatible with bitumen (NB) and with an insert (E) of glass fleece (GV). Rhenofol CG is a two-layer roofing membrane system consisting of an upper film and a lower film, in which the upper 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 CG 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 and DIN EN 13967
- Non-shrinking according to DIN EN 1107-2 testing Weather-resistant
- Resistant to UV radiation
- Root- and rhizome-resistant according to the FLL method
- Reaction to fire: class E according to DIN EN 13501-1.
- Resistant to common industrial and heating exhaust gases
- Outstanding resistance to natural ageing
- 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 (www.ibu-epd.com)
- Hail resistance is tested according to DIN EN 13583
- 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 CG 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

Rhenofol CG is used for waterproofing in loose-laid applications under ballast with gravel or paving slabs, e.g. on terraces or parking decks or under green roof systems.

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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