

Technical Information Sheet

Rhenofol® CG

Delivery form	Item Number
Thickness 1.2 mm, 20.00 m x 2.05 m per roll	12 83 410
Thickness 1.5 mm, 15.00 m x 2.05 m per roll	12 83 470
Thickness 1.8 mm, 15.00 m x 2.05 m per roll	12 83 730
Thickness 2.0 mm, 15.00 m x 2.05 m per roll	12 86 600

Description

Rhenofol CG is a light grey roofing membrane made of soft polyvinyl chloride (PVC-P) according to EN 13956/EN 13967, not bitumen-compatible, with an insert and made of glass fleece. Rhenofol CG is a two-layer roofing membrane system consisting of an upper film and a lower film, with the upper film accounting for approximately half of the roofing membrane thickness. The upper film is equipped with high-quality plasticizers, stabilizers, flame retardants and other additives throughout its entire thickness. Due to the thickness of the high-quality upper film, 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. Rhenofol CG roofing membranes are used in loose-laid layer structures under ballast, e. g. gravel and slab coverings for terraces, green roofs and for waterproofing in the area of structural waterproofing.

Preparation

Roofing structures need to provide sufficient stability to accommodate the total weight of the roofing system, including live loads and temporary loads during installation. Substrates need to be clean, smooth, dry, and free of sharp edges, loose or foreign materials, oil, grease, or other elements that may damage the membrane.

Application and processing

Install the roofing membrane in accordance with the current Rhenofol installation guidelines, details and execution requirements. Rhenofol CG roofing membranes are generally laid loose in the area of green, gravelled or used roofs. All seams are joined using hot air welding or solvent welding (not for green roofs). Allow sufficient cooling of all welded seams before probing. Please observe the Rhenofol installation guidelines and the Rhenofol technical manual. The installation of the roof waterproofing should be carried out by trained installers.

Consumption

To determine the quantity of membrane required, the complete installation of the horizontal surface must be taken into account, including seam overlap (50 mm for seams in the welding paste system and at least 100 mm for seams with mechanical fastening), as well as raising the surface membrane on the rising component by approx. 50-100 mm.

Properties

Physical

- Roofing membrane according to EN 13956/EN 13967
- Weather resistant
- Good UV resistance
- Root and rhizome resistant according to FLL test method
- Reaction to fire: class E, EN 13501-1
- Resistant to common industrial and heating exhaust gases
- Outstanding resistance to natural ageing
- Hail resistance is tested according to DIN 13583
- Thermal conductivity according to DIN 52612: 0.16 W/(m*K)
- Good resistance against red algae
- Certified with an Environmental Product Declaration (EPD) according to ISO 14025 and EN 15804 (www.ibu-epd.com)
- Listed in the DGNB Navigator (code UGUT5N)
- 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. Incompatible with polystyrene hard 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 EN ISO 9001, the world's stringent quality standard, and is regularly audited by TÜV SÜD Management Service GmbH. It also has certification in accordance with the EN ISO 14001 environmental management system.
- FPC certificate no.: 0761-CPR-1068 / 0761-CPR-1069

Technical	Test method	Thickness 1.2 mm	Thickness 1.5 mm	Thickness 1.8 mm	Thickness 2.0 mm
Visible defects	EN 1850-2	None	None	None	None
Length	EN 1848-2	20 m (-0 % / +5 %)	15 m (-0 % / +5 %)	15 m (-0 % / +5 %)	15 m (-0 % / +5 %)
width	EN 1848-2	2.05 m (-0.5 % / +1 %)	2.05 m (-0.5 % / +1 %)	2.05 m (-0.5 % / +1 %)	2.05 m (-0.5 % / +1 %)
Effective thickness	EN 1849-2	1.2 mm (-5 % / +10 %)	1.5 mm (-5 % / +10 %)	1.8 mm (-5 % / +10 %)	2.0 mm (-5 % / +10 %)
Straightness	EN 1848-2	< 50 mm	< 50 mm	< 50 mm	< 50 mm
Flatness	EN 1848-2	< 10 mm	< 10 mm	< 10 mm	< 10 mm
Basis weight	EN 1849-2	1.50 kg/m ² (-5 % / +10 %)	1.85 kg/m ² (-5 % / +10 %)	2.20 kg/m ² (-5 % / +10 %)	2.44 kg/m ² (-5 % / +10 %)
Watertightness	EN 1928 (B)	≥ 400 kPa/72 h	≥ 400 kPa/72 h	≥ 400 kPa/72 h	≥ 400 kPa/72 h
Tensile strength	EN 12311-2 (B)	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 10 N/mm ²
Elongation	EN 12311-2 (B)	≥ 200 %	≥ 200 %	≥ 200 %	≥ 200 %
Resistance to static load	EN 12730 (A/B)	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg
Resistance to impact	EN 12691 (A/B)	≥ 600 mm ≥ 600 mm	≥ 700 mm ≥ 700 mm	≥ 800 mm ≥ 2,000 mm	≥ 1,450 mm ≥ 2,000 mm
Tear resistance	EN 12310-2	≥ 140 N	≥ 140 N	≥ 140 N	≥ 140 N
Nail shank tear resistance	EN 12310-1	≥ 250 N	≥ 350 N	≥ 400 N	≥ 450 N
Joint peel resistance	EN 12316-2	≥ 250 N/50 mm	≥ 250 N/50 mm	≥ 250 N/50 mm	≥ 250 N/50 mm
Joint shear resistance	EN 12317-2	≥ 600 N/50 mm, tear-off outside the joint seam	≥ 700 N/50 mm, tear-off outside the joint seam	≥ 700 N/50 mm, tear-off outside the joint seam	≥ 700 N/50 mm, tear-off outside the joint seam
UV exposure	EN 1297	Class 0 (7,500 h)	Class 0 (7,500 h)	Class 0 (7,500 h)	Class 0 (7,500 h)
Resistance to root penetration	FLL/EN 13948	Root and rhizome resistant	Root and rhizome resistant	Root and rhizome resistant	Root and rhizome resistant
Folding at low temperatures	EN 495-5	≤ -30 °C	≤ -30 °C	≤ -30 °C	≤ -30 °C
Dimensional stability	EN 1107-2	≤ 0.2 %	≤ 0.2 %	≤ 0.2 %	≤ 0.2 %
Reaction to fire	EN 13501-1	Class E	Class E	Class E	Class E
External fire exposure (in use)	EN 13501-5	NPD*	NPD*	NPD*	NPD*
Water vapour property μ	EN 1931(B)	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %	≥ 18,000 +/- 30 %
Hail resistance	EN 13583	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s	≥ 20 m/s ≥ 30 m/s
Chemical resistance	EN 1847	passed	passed	passed	passed
Durability of water tightness against ageing	EN 1296 (12 w) EN 1928 (B) (24h/60kPa)	passed	passed	passed	passed
Durability of water tightness against chemicals	EN 1847 (28d/+23 °C) EN 1928 (B) (24h/60kPa)	passed	passed	passed	passed
Dangerous substances	See footnote ¹⁾				

Note: As European standards are constantly evolving, please contact our technical department or visit www.fdt.de for the latest information on physical properties.

** NPD = No performance detected. For further information, please contact our technical department.*

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.

Storage

- The roofing membranes retain their product properties in unopened and undamaged original packaging
- Store material in the original packaging until processing
- Carefully reseal opened packaging units when outdoor storage
- Store rolls horizontally only
- Protect rolls from direct sunlight, rain and snow

Shelf life

The roofing membranes do not have a best-before date. When stored properly in their unopened and undamaged original packaging, they retain their product properties over a long period of time.

Packaging and disposal

Waste from this product does not constitute hazardous material. National regulations must be observed.

Waste-Key numbers (AVV) for the Rhenofol CG synthetic waterproofing membrane:

- 170904 (Mixed construction- and demolition waste)
- 200139 (Plastics)

Precautions and occupational safety

Take care when moving, transporting and handling to avoid sources of punctures and physical damage. A safety data sheet is not required for the product.

Transport

The roofing membranes are usually transported on wooden pallets.

Legal Notice:

We refer emphatically to the fact, that all 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 deduced 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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