

# Technical Information Sheet

## Rhenofol® CGv

| Delivery form                               | Item Number |
|---------------------------------------------|-------------|
| Thickness 1.5 mm, 15.00 m x 2.05 m per roll | 32 89 680   |

### Description

Rhenofol CGv is a light grey roofing membrane made of soft polyvinyl chloride (PVC-P) according to EN 13956, not compatible with bitumen, with an insert of glass fleece and a laminate made of polyester fleece 200 g/m<sup>2</sup>. For welding the longitudinal seams, Rhenofol CGv has a fleece-free edge on one side. The cross joints must therefore be covered with a 100 mm wide strip of Rhenofol CG. Rhenofol CGv can be bonded directly to the substrate (e.g. un laminated EPS) using the FDT Roofing Membrane Adhesive or mechanically fastened. Rhenofol CGv roofing membranes are suitable for all roof pitches and can be mechanically fastened, bonded or laid under ballast (with the exception of green roofs).

### 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 CGv roofing membranes are generally laid loose, glued or mechanically fastened with suitable fasteners and plates. All seams are joined using hot air welding or solvent welding. 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
- Weather resistant
- Good UV resistance
- Resistant to flying sparks and radiant heat according to CEN/TS 1187, confirmed by official test certificates, for any pitches.
- Reaction to fire: class E, EN 13501-1
- Resistant to common industrial and heating exhaust gases
- Outstanding resistance to natural ageing
- Can be laid directly on un laminated polystyrene insulation
- Thermal conductivity according to DIN 52612: 0.16 W/(m\*K)
- 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.
- Quality assurance: Rhenofol CGv 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

| Technical                       | Test method                | Thickness<br>1.5 mm                               |
|---------------------------------|----------------------------|---------------------------------------------------|
| Visible defects                 | EN 1850-2                  | None                                              |
| Length                          | EN 1848-2                  | 15 m (-0 % / +5 %)                                |
| width                           | EN 1848-2                  | 2.05 m (-0.5 % / +1 %)                            |
| Effective thickness             | EN 1849-2                  | 1.5 mm (-5 % / +10 %)                             |
| Straightness                    | EN 1848-2                  | < 50 mm                                           |
| Flatness                        | EN 1848-2                  | < 10 mm                                           |
| Basis weight                    | EN 1849-2                  | 2.09 kg/m <sup>2</sup> (-5 % / +10 %)             |
| Watertightness                  | EN 1928 (B)                | ≥ 400 kPa/72 h                                    |
| Tensile strength                | EN 12311-2 (A)             | ≥ 600 N/50 mm                                     |
| Elongation                      | EN 12311-2 (A)             | ≥ 40 %                                            |
| Resistance to static load       | EN 12730 (A/B)             | ≥ 20 kg                                           |
| Resistance to impact            | EN 12691 (A/B)             | ≥ 800 mm<br>≥ 2,000 mm                            |
| Tear resistance                 | EN 12310-2                 | ≥ 200 N                                           |
| Joint peel resistance           | EN 12316-2                 | ≥ 350 N/50 mm                                     |
| Joint shear resistance          | EN 12317-2                 | ≥ 700 N/50 mm, tear-off<br>outside the joint seam |
| UV exposure                     | EN 1297                    | Class 0 (7,500 h)                                 |
| Folding at low temperatures     | EN 495-5                   | ≤ -30 °C                                          |
| Dimensional stability           | EN 1107-2                  | ≤ 0.2 %                                           |
| Reaction to fire                | EN 13501-1                 | Class E                                           |
| External fire exposure (in use) | EN 13501-5                 | Broof (t1)*                                       |
| Water vapour property μ         | EN 1931(B)                 | ≥ 18,000 +/- 30 %                                 |
| Hail resistance                 | EN 13583                   | ≥ 17 m/s<br>≥ 17 m/s                              |
| Chemical resistance             | EN 1847                    | passed                                            |
| Dangerous substances            | See footnote <sup>1)</sup> |                                                   |

*Note: As European standards are constantly evolving, please contact our technical department or visit [www.fdt.de](http://www.fdt.de) for the latest information on physical properties.*

*\* Various Broof (t1)-classified superstructures are available with this roofing membrane. 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 CGv 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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