



Sustainability data sheet

Rhenofol® CV - Roofing membrane for mechanically fixed roof systems

Rhenofol CV is a light grey roofing membrane made of soft polyvinyl chloride (PVC-P) according to EN 13956, not compatible with bitumen (NB), reinforced (V) with polyester fabric (PG), application type DE – PVC-P-NB-V-PG according to TS 20.000-201. Rhenofol CV 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 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.

Tests and approvals

- Evidence of an Environmental Product Declaration in the form of a product-specific EPD in accordance with ISO 14025 and EN 15804 (www.ibu-epd.com) and listed in the DGNB Navigator (www.dgnb-navigator.de) with the declaration number: EPD-FDT-20240156-IBA1-DE.
- Reaction to fire: Building material class B 2, DIN 4102, or class E according to EN 13501-1
- Testing for resistance to external fire exposure in accordance with CEN/TS 1187 and classification in accordance with EN 13501-5: Broof (t1) (for various roof structures; General Appraisal Certificates (AbP) or Classification Reports can be requested separately).
- No herbicides are used in the product
- DUBOkeur Certificate, Nibe Research BV (testing of environmental and health aspects)
- BBA Certification, British Board of Agrément
- FM approval for various roof systems
- Solar Reflectance Index (SRI) according to ASTM E 1980 in the color Rhenofol® CV white (based on RAL 9016) >105 (new material)
- FDT Flachdach Technologie GmbH is certified according to ISO 14001 (environmental management)

Sustainable product features

- Does not contain bitumen
- no stabilizers based on lead, cadmium or organic tin compounds > 0.1 %
- no fire retardants containing halogens or orthophosphoric acid
- No SVHC substances > 0.1 %
- Post-consumer recycled content: 0 %
- Pre-consumer recycled content: approx. 10 % (only in the lower film)
- Extremely weather-resistant, even without additional surface protection
- Resistant to atmospheric conditions, e.g. UV rays, as well as industrial and heating exhaust gases
- Extremely high UV resistance (≥ 7,500 hours) according to EN 1297
- Outstanding resistance to natural ageing
- A building product designed for easy dismantling
- Once the product has served its purpose, the product can be sent for plastic recycling or thermal recovery.
- System-specific repairs are possible over the entire service life
- Low surface weight of only 1.85 kg/m² (thickness 1.5 mm)
- Listing on the portals www.ibu-epd.com and www.dgnb-navigator.de with the declaration number: EPD-FDT-20240156-IBA1-DE

Building certifications (DGNB, BNB, QNG, BREEAM, LEED):

DGNB (Version 2018)

(Deutsche Gesellschaft für Nachhaltiges Bauen e. V.
[(German Sustainable Construction Association)])

Relevant requirements according to DGNB criterion,
ENV1.2 "Risks to the local environment":

1. Criteria matrix row number 31b:
Sheet-like seals (DGNB version 2018, see Annex 1
criteria matrix)
Requirement: MCCPP compounds $\leq 1 \text{ mg/m}^2$,
for green roofs $\leq 47 \text{ mg/m}^2$

Quality level 1: fulfilled
Quality level 2: fulfilled
Quality level 3: fulfilled
Quality level 4: fulfilled
2. Criteria matrix row number 36:
Synthetic foils on the roof and foundation
(DGNB version 2018, see Appendix 1 Criteria matrix)
Requirement: Free of lead and organotin compounds
(manufacturer's declaration: content $< 0.1 \%$)

Quality level 1: fulfilled
Quality level 2: fulfilled
Quality level 3: fulfilled
Quality level 4: fulfilled
3. Criteria matrix row number 44:
Synthetic products
(DGNB version 2018, see Annex 1 Criteria matrix)
Requirement: No SVHC substances*
(manufacturer's declaration: content $< 0.1 \%$)

Quality level 1: -
Quality level 2: -
Quality level 3: fulfilled
Quality level 4: fulfilled

BNB (Version 2015)

(Bewertungssystem Nachhaltiges Bauen für Büro-
und Verwaltungsgebäude [Sustainable building
assessment system of office and administration
buildings])

Relevant requirements according to BNB
criterion 1.1.6 "Risks to the local environment":

The BNB system version sets out requirements
for PVC construction products:

1. BNB_BN 1.1.6 Annex 1, row number 29:
Building products made of plastic (PVC)
Requirement: no cadmium and lead stabilizers;
for soft PVC: phthalate plasticizers toxic to
reproduction $< 0.1 \%$ (see Appendix 2, E)

Quality level 1: fulfilled
Quality level 2: fulfilled
Quality level 3: fulfilled
Quality level 4: fulfilled
Quality level 5: fulfilled
2. BNB_BN 1.1.6 Annex 1, row number 37:
Biocides - waterproofing membranes - polymer
bitumen membranes requirement: No addition of
root-inhibiting active substances, such as
Mecoprop.

Quality level 1: fulfilled
Quality level 2: fulfilled
Quality level 3: fulfilled
Quality level 4: fulfilled
Quality level 5: fulfilled

Rhenofol® CV does not contain any root-inhibiting active
substances, such as Mecoprop.

* SVHC = Substance of Very High Concern.

QNG (Qualitätssiegel Nachhaltiges Gebäude [Sustainable Building Certification])

Within the framework of the Bundesförderung für effiziente Gebäude (BEG) [Federal Funding for Efficient Buildings] the state has subsidized sustainability aspects through a dedicated "NH Class" since 1 July 2021.

The proof required for the granting of the subsidy is provided by the award of the building-related QNG.

Relevant requirements according to the QNG criteria catalogue, Annex 313 dated 14 September 2023 "Avoidance of harmful substances in building materials":

The QNG criteria catalog sets out requirements solely for PVC roofing membranes.

Rhenofol® CV fulfills the requirements:

1. Requirement: no intentionally added cadmium compounds > 0.01 % (w/w) and no tin or lead stabilizers > 0.1 % (w/w);
Classification: fulfilled
2. Requirement for plasticized PVC: no phthalate plasticizers that are toxic to reproduction < 0.1 %
Classification: fulfilled

Special features:

Rhenofol® CV does not contain any root-inhibiting active ingredients, such as Mecoprop or similar herbicides.

BREEAM - International New Construction (Building Research Establishment Environmental Assessment Method)

Materials: Mat 01 Life Cycle impacts

Requirement: Availability of a valid and standard-compliant EPD

Classification: A valid and standard-compliant product EPD is available

Materials: Mat 03 Responsible sourcing of Construction products

Requirement: Certifications are in place for responsible procurement or environmental management systems.

Classification: FDT Flachdach Technologie GmbH is certified according to ISO 14001 (environmental management).

LEED 4.1 (Leadership in Energy and Environmental Design)

Category "Material & Resources"

Requirement: Criterion MRc2 Environmental Product Declaration (Environmental Product Declarations)

Classification: The product has a product-specific EPD

Requirement: Criterion MRc3 Recycled content (Sourcing of Raw Materials)

Classification: Pre-consumer: 10 % on average (lower film),
Post-consumer: 0 % on average

Requirement: Criterion MRc4 material components (Material Ingredients)

Classification: This product is an product as defined in the EC Regulation No. 1907/2006 (REACH). Based on our current knowledge, the product does not contain any substances in concentrations exceeding 0.1% by weight, that are listed in Annex XIV or Annex XVII of the REACH regulation or on the candidate list published by the European Chemicals Agency.

Category: "Sustainable Sites"

Requirement: Criterion SSs5 Heat reduction (Heat Island Reduction)

Classification: Rhenofol® CV in the color "white" (based on RAL 9016) has a Solar Reflectance Index (SRI) >105 (new product) in accordance with ASTM E 1980.

FDT – Legal Notice

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