Data sheet
Contec.proof rubber seal

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Product description

Product family	Elastomer sealing membranes, unlaminated Tested according to SIA 271 / 280 / EN 13956
Main material	EPDM = ethylene-propylene-diene monomers (rubber)
Source materials, raw materials	Rubber (antistatic)
Users	Flat roofing / timber building / steel construction / garden landscaping companies
Areas of application	Flat roof water-sealing Flat roof restoration and new construction, green roofs, terraces, special roof shapes, pond water-sealing Tested according to SIA 271 / 280 / DIN 18531
Colour	black

Dimensions (measurements)

Nominal thickness with weight	0.75 mm for approx. 875 g/m^2 1.1 mm for approx. 1.4 kg/m^2 1.3 mm for approx. 1.7 kg/m^2 1.5 mm for approx. 1.9 kg/m^2 1.8 mm for approx. 2.3 kg/m^2	Tested according to SIA 271 / 280
Membranes	Up to 1'500 m^2 according to the installation plan with Thermofast joining edge	-
Connecting sheets / on rolls	Based on the property according to the installation plan	-

Nominal thickness test 1.5 mm	Criterion	Requirement	Result	Requirement fulfilled / not fulfilled
Appearance / texture	of the top side	Even	Even	Fulfilled
	of the underside	Even	Even	Fulfilled
	in the cut	Free of inclusions and voids	No inclusions, no voids, reinforcing inserts above the middle	Fulfilled
Elongation at crack	Elongation at crack	≥ 200% for non fabric-reinforced sheets	460-520%	Fulfilled
Fold bending in cold test temperature -40°C	Top side – longitudinal Top side – transverse Bottom side – longit. Bottom side – transv.	No tears at -40°C	Undamaged Undamaged Undamaged Undamaged	Fulfilled Fulfilled Fulfilled Fulfilled
Deformation when exposed to heat	Longitudinal	< 0.5%	0.3%	Fulfilled
	Transverse	< 0.5%	0.1 %	Fulfilled Fulfilled
	Forming of blisters	None	None	Fulfilled
Water vapour permeability	Water vapour diffusion resistance factor Water vapour diffusion-equivalent air layer thickness SD	Value determined depending on vapour seal and climate	54'545 µ 82 m	-
Behaviour to the ozone	Formation of tears	Stage when tears form 0	Stage when tears form 0	Fulfilled
Thermal aging	Change in dimensions Decrease elongation at break	≤ 2% ≤ 30%	0.2% 28%	Fulfilled Fulfilled
Artificial weathering	Change in dimensions Formation of tears	≤ 3% No tears	0.8% No tears	Fulfilled Fulfilled
Root resistance	FLL	No roots have grown through	No roots have grown through	Fulfilled
Fire index number	-	-	RF 3	-

Nominal thickness test 1.5 mm	Criterion	Requirement	Result	Requirement fulfilled / not fulfilled
Fold bending in the cold after immersion in water	Top side – longitudinal Top side – transverse Bottom side – longit. Bottom side – transv.	No tears at ≤ 20%	Undamaged Undamaged Undamaged Undamaged	Fulfilled Fulfilled Fulfilled Fulfilled
Mechanical puncture strength	-	Watertight at ≥ 300 mm	300 mm	Fulfilled
Seam strength Seam No. 11	Manual seam, welded on roof	Crack next to the seam, no peeling off or deterioration in the seam	Crack next to seam	Fulfilled
Seam strength Seam No. 12	Manual seam, one side TF coating, opposite side grounded, welded into production	Crack next to the seam, no peeling off or deterioration in the seam	Crack next to seam	Fulfilled
Seam strength Seam No. 14	Manual seam, welded in production	Crack next to the seam, no peeling off or deterioration in the seam	Crack next to seam	Fulfilled
Seam strength Seam No. 17 + 21	Machine seam, welded on the roof	Crack next to the seam, no peeling off or deterioration in the seam	Crack next to seam	Fulfilled
Resistance to microorganisms	Change in size	≤ 6%	4%	Fulfilled
Hailstorms	Weather-exposed roof sheet with a 1.5 mm thick, soft underlay	≥ 17 m/s	32 m/s	Fulfilled

Technical data

Impact resistance SN EN 12691 (B), ≥ 2000 mm	Fulfilled
Impact resistance SN EN 12730, ≥ 20 kg	Fulfilled
Sizes, bundle	- Connecting sheets: 1.4 m / 1.3 m / 0.65 m / 0.43 m - In membranes (pre-fabricated) up to 1'500 m^2 after consultation with the processor

Quality guarantee

Certification	Requirements of DIN ISO 9001 fulfilled (TÜV Saarland)
Quality monitoring,testing	DEKRA, Saarbrücken
Test certificates	Submitted as required

System accessories

Connection training	- Pre-fabricated shaped parts - Coated metal sheets - Contec.proof covering strips width = 20 cm / 100 cm

Processing, assembly

Required substructure	All solid flat roof substructures such as concrete, glass concrete, trapezoidal sheet, wood and the like
Fastening in the surface	Loose laid with ballast Naked roof: mechanically fastening with Contec.fix or Contec.isoweld
Fastening the connections	- Connections are carried out in part with Contec.proof - Mechanical fastening in the naked roof area (1.5 mm) With approved fasteners; wind suction calculation by Contec - Full-surface bonding with TA contact adhesive - Approved fastening elements with Spengler connections and closures
Method used to connect seams	- Thermofast joining technology: at the factory with hot air (by machine); at the building site (by machine or by hand) - Cardboard underlays for soft substrates
Processability	- Installation irrespective of weather conditions - Weldability under practical building conditions to - 10°C - Bonding up to + 5°C with TA adhesive or spray adhesive › The manufacturer's processing instructions must be observed

› The values taken from the test certificates are not guaranteed characteristics of the material and are subject to the usual deviations related to production.

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