

Data sheet

Contec.proof



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 companies / Timber building companies / Steel construction companies / 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	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	-

Physical values according to SIA 280/SN EN

Nominal thickness test 1.5 mm	Criterion	Result	Requirement fulfilled / not fulfilled	Requirement
Appearance / texture	Appearance / texture of the top side	Even	Fulfilled	Even
	Appearance / texture of the underside	Even	Fulfilled	Even
	Appearance / texture in the cut	No inclusions, no voids, reinforcing inserts above the middle	Fulfilled	Free of inclusions and voids
Elongation at crack	Elongation at crack	460 % to 520 %	Fulfilled	≥ 200 % For non fabric-reinforced sheets
Fold bending in cold test temperature -20°C	Top side – longitudinal Top side – transverse Bottom side – longit. Bottom side – transv.	Undamaged Undamaged Undamaged Undamaged	Fulfilled Fulfilled Fulfilled Fulfilled	No tears at -20°C
Deformation when exposed to heat	longitudinal transverse forming of blisters	- 0.30 % - 0.10 % None	Fulfilled Fulfilled Fulfilled	< 0.5 % < 0.5 % No blistering



Nominal thickness test 1.5 mm	Criterion	Result	Requirement fulfilled / not fulfilled	Requirement
Water vapour permeability	Water vapour diffusion resistance factor Water vapour diffusion-equivalent air layer thickness SD	54'545 μ 82 m	-	Value determined depending on vapour seal and climate
Behaviour to the ozone	Formation of tears	Stage when tears form 0	Fulfilled	Stage when tears form 0
Thermal aging	Change in dimensions Decrease elongation at break	- 0.20 mass -% - 28.0 %	Fulfilled Fulfilled	$\leq 2 \%$ $\leq 30 \%$
Artificial weathering 3000 h duration of irradiation	Change in dimensions Formation of tears	-0.80 % mass -% No tears	Fulfilled Fulfilled	$\leq 3 \%$ No tears
Artificial weathering 500 h duration of irradiation	Change in dimensions Formation of tears	-0.80 % mass -% No tears	Fulfilled Fulfilled	$\leq 3 \%$ No tears
Root resistance	FLL	No roots have grown through	Fulfilled	No roots have grown through
Fire index number	-	RF 3	-	-
Behaviour in warm water	Change in dimensions Change elongation at at break (test temperature -20°C)	1 % mass -% (after 8 month) -15 %	Fulfilled Fulfilled	$\leq 4 \%$ $\leq 30 \%$
Fold bending in the cold after immersion in water	Top side – longitudinal Top side – transverse Bottom side – longit. Bottom side – transv.	Undamaged Undamaged Undamaged Undamaged	Fulfilled Fulfilled Fulfilled Fulfilled	No tears at -20 %
Mechanical puncture strength	-	300 mm	Fulfilled	Watertight at ≥ 300 mm



Nominal thickness test 1.5 mm	Criterion	Result	Requirement fulfilled / not fulfilled	Requirement
Seam strength Seam no. 11	Manual seam, welded on roof	Crack next to seam	Fulfilled	Crack next to the seam, no peeling off or deterioration in the seam
Seam strength Seam no. 12	Manual seam, one side TF coating, opposite side grounded, welded into production	Crack next to seam	Fulfilled	Crack next to the seam, no peeling off or deterioration in the seam
Seam strength Seam no. 14	Manual seam, welded in production	Crack next to seam	Fulfilled	Crack next to the seam, no peeling off or deterioration in the seam
Seam strength Seam no. 17 + 21	Machine seam, welded on the roof	Crack next to seam	Fulfilled	Crack next to the seam, no peeling off or deterioration in the seam
Resistance to microorganisms	Change in size	4.0 % mass - %	Fulfilled	≤ 6 %
Hailstorms	Freely weatherable roof sheet with a 1.5 mm thick, soft underlayer	32 m/s	Fulfilled	≥ 17 m/s

Technical data

Impact resistance SN EN 12691 (B), ≥ 2000 mm	Fulfilled
Impact resistance SN EN 12730, ≥ 20 kg	Fulfilled
Sizes, bundle	<ul style="list-style-type: none"> - Connecting sheets: 1.40 m / 1.30 m / 0.65 m / 0.43 m - In membranes (pre-fabricated) up to 1'500 m² 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	<ul style="list-style-type: none"> - Pre-fabricated shaped parts - Coated metal sheets - Contec.proof covering strips width = 20 cm
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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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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.

