

SOLITEX WELDANO 3000

Diffusion-open, weldable roofing underlay membrane



Technical data

		Material
Membrane, both sides		Monolithic TPU
Substructure fleece		Polyester
Property	Regulation	Value
Colour		Blue
Surface weight	EN 1849-2	350 g/m ² ; 1.15 oz/ft ²
Thickness	EN 1849-2	0.8 mm ; 31 mils
Water vapour resistance factor μ	EN ISO 12572	225
sd value	EN ISO 12572	0.18 m
g value		0.9 MN-s/g
Vapour permeance	ASTM E 96	18.2 perms
Fire rating	EN 13501	E
Outdoor exposure		Cen./Nth. Europe & Canada/Nth. US: 6 months ; RoW: 4 months
Driving rain test	TU Berlin, GHS	Passed
Hail resistance	EN 13583	Passed
Hail impact resistance	VKF / AEAI	Class HR 5
Minimum roof pitch		3°
Suitable as temporary roof covering (Germany)	ZVDH	Yes
Water column	EN ISO 811	> 4 000 mm ; > 13' 1"
Watertightness, non-aged/aged*	EN 13859-1 / EN 1928, GHS	W1 / W1+
Tensile strength MD/CD	EN 13859-1 (A)	320 N/5 cm / 400 N/5 cm ; 37 lb/in / 46 lb/in
Tensile strength MD/CD, aged*	EN 13859-1 (A)	275 N/5 cm / 320 N/5 cm ; 31 lb/in / 37 lb/in
Elongation MD/CD	EN 13859-1 (A)	50% / 70%
Elongation MD/CD, aged*	EN 13859-1 (A)	50% / 70%
Nail tear resistance MD/CD	EN 13859-1 (B)	200 N / 200 N ; 45 lbf / 45 lbf
Durability after artificial ageing	EN 1297 / EN 1296	Passed
Flexibility at low temperature	EN 1109	-20 °C ; -4 °F
Abrasion-resistance	GHS	Passed
Temperature resistance		Permanent -40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU-in/(h·ft ² ·°F)
CE labelling	EN 13859-1	Yes

Areas of application

For use as a 3-ply diffusion-open, homogeneously weldable, rainproof/watertight roofing underlay membrane. Suitable for installation on pressure-resistant substrates, e.g. timber sheathing, wood-based panels and wood-fibre underlay panels.

Supply forms

Art. no.	GTIN	Length	Width	Contents	Weight	Sales unit	Container
1AR03191	4026639231918	50 m	1.5 m	75 m ²	29 kg	1	20
1AR03194	4026639231949	25 m	3 m	75 m ²	29 kg	1	20

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Art. no.	GTIN	Length	Width	Contents	Weight	Sales unit	Container
1AR03197	4026639231970	400 m	3 m	1200 m ²	0.34 kg	1	1

Advantages

- ✓ Reliable seam tightness: homogeneously weldable
- ✓ High degree of occupational safety: non-slip and abrasion-resistant surface
- ✓ Suitable as a roofing underlay to meet the most stringent requirements
- ✓ Maximum protection: diffusion-open, rainproof against driving rain, and highest hail-resistance HR 5 (Swiss VKF/AEAI directive) and as per EN 13583
- ✓ Easy to work with: robust with extremely high tear-resistance
- ✓ Also keeps structural elements dry during the construction phase: excellent protection against driving rain thanks to monolithic membrane

Substrates

Suitable for installation on firm subsurfaces that provide sufficient pressure resistance when using a roller to press down on the welding bond, e.g. timber sheathing, wood-based panels and wood-fibre underlay panels. The subsurface must be dry, free of frost, clean and free of any sharp-edged or pointed objects. There must be no water-repellent substances (e.g. grease or silicone) on the membranes. Before welding is carried out, SOLITEX WELDANO 3000 should be wiped clean with a cloth. It is recommended that spot checks be performed to test the strength of the welded joints.

General conditions

SOLITEX WELDANO 3000 is to be installed horizontally (parallel to the eave). Unhindered drainage of water must be ensured. Cross joints are to be avoided. If membrane joints are necessary, they should be offset with respect to each other.

When used to protect building structures during the construction phase, SOLITEX WELDANO 3000 roofing underlay membranes can be subjected to outdoor exposure for up to 6 months in Central and Northern Europe and in Canada and the northern United States, and up to 4 months in Southern Europe, the rest of the United States and the rest of the world – e.g. as a temporary covering in accordance with the German ZVDH regulations. The roof pitch must be at least 3° (0.6:12). National regulations should be taken into account here.

Fasteners should not be applied on flat surface areas or in areas where water run-off is collected (e.g. in roof valleys). We recommend the use of corrosion-resistant fasteners.

The membrane edges are to be welded using the WELDANO TURGA system solvent welding agent or a hot air gun. The welding area must be dry and free of frost, dust and grease. If dirt (e.g. oil) is stuck to the surface, moisten a cloth lightly with WELDANO TURGA system solvent welding agent and use it to clean off this dirt. Both sides of the membrane can be welded and are suitable as upper layers. Welding with a solvent welding agent can be carried out at temperatures above 0 °C / 32 °F. Please observe the hazard notices on the container.

If a hot air gun is being used, we recommend a temperature of around 220 to 280 °C (430 to 530 °F) depending on the ambient temperature and wind conditions. Test this setting by carrying out a test weld on a sample piece of membrane. A 40 mm (1.6") nozzle width has been found to be suitable in practice for welded joints between surface membranes. A 20 mm (3/4") nozzle may be more suitable in certain cases for more intricate joints.

Note: If membranes that have been subjected to 2 months of outdoor exposure are to be welded, the exposed membrane surface must be gently roughened using sandpaper (150 - 250 grade) to remove a film depth of around 2-3 µm (0.08-0.12 mil) so that a reactive surface is accessible again. This applies both for hot-air welding and for solvent welding using WELDANO TURGA.

The WELDANO ROFLEX pipe grommet is suitable for pipe diameters of 90 mm to 125 mm (3.5"-5") for roof pitches between 3° and 25° (between 0.6:12 and 5.5:12). The WELDANO ROFLEX PLUS pipe grommet is suitable for roof pitches up to 50° (14:12).

As an alternative to the use of the WELDANO ROFLEX, WELDANO INVEX or WELDANO INCAV system shaped elements, these elements can also be made by cutting appropriate shapes out of SOLITEX WELDANO 3000 membranes.

Important: The enclosed counter battens on the waterproof roofing underlay must be dry and chamfered on their upper side (≥ 3 mm; 120 mils) when they are installed. Ideally, structural timber should be used.

Additional technical information for Germany:

Depending on the requirements demanded of the roofing underlay when used as an additional measure, the roofing underlay can be installed to be rainproof or watertight (in accordance with ZVDH). Rainproof roofing underlay: The counter battens are installed over the roofing underlay membrane. Waterproof roofing underlay: The counter battens are integrated into the sealing layer. The roofing underlay membrane is installed over the counter battens here or else SOLITEX WELDANO-S 3000 sealing strips are fitted over the counter battens and welded to the roofing underlay membrane on both sides.

Ridge ventilation is permitted in the case of a rainproof roofing underlay. The roofing underlay membrane should then stop 30 mm (1.2") before the apex of the ridge. Cover the ventilation opening with a membrane strip over the counter batten along the ridge axis. Ridge ventilation is not permitted in the case of a waterproof roofing underlay.

The SOLITEX WELDANO 3000 roofing underlay membrane is to be bonded in a windproof and waterproof manner at the eave flashing. The eave flashing can be installed as a drip board under the gutter or as a guide board that guides water into the gutters.

To protect the roofing underlay membrane from direct sunlight on a permanent basis, the width of the guide board should be selected appropriately depending on the roof pitch and orientation of the building structure or else it should be installed with an eave membrane to provide UV protection, e.g. SOLTEMPA.

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