SOLITEX QUANTHO® 3000 connect

Medium-weight roofing underlay with self-sealing perforations and waterproof adhesive strips



Technical data

	Material
Functional film, top face	Monolithic TPU
Support fleece	Polyester fleece
Self-adhesive strips	Water-resistant SOLID adhesive

Property	Regulation	Value
Colour		Grey-blue
Surface weight	EN 1849-2	230 g/m² ; 0.75 oz/ft²
Thickness	EN 1849-2	0.7 mm ; 28 mils
Water vapour resistance factor µ	EN ISO 12572	230
sd value	EN ISO 12572	0.16 m
g value	EN ISO 12572	0.8 MN·s/g
Vapour permeance	ASTM E96-A	20.5 perms
Reaction to fire classification	EN 13501-1	E
Outdoor exposure		Cen./Nth. Europe & Canada/Nth. US: 4 months ; RoW: 3 months
Hail resistance	EN 13583	ETA-23/0532
Hail impact resistance	VKF / AEAI	Class HR 5
Watertightness of perforation points	EAD 030218-01-0402	ETA-23/0532
Watertight joints with 'connect' adhesive strips or TESCON tape	EN 13859-1	W1
Roofing underlay category (Germany)	ZVDH-Produktdatenblatt 2024	USB / UDB
Suitable as temporary roof covering (Germany)	ZVDH	Yes
Water column	EN ISO 811	> 4 500 mm ; 14' 9"
Watertightness, non-aged/aged*	EN 13859-1	W1 / W1
Tensile strength MD/CD	EN 13859-1 (A)	335 N/5 cm / 355 N/5 cm ; 38 lb/in / 41 lb/in
Tensile strength MD/CD, aged*	EN 13859-1 (A)	325 N/5 cm / 335 N/5 cm ; 37 lb/in / 38 lb/in
Elongation MD/CD	EN 13859-1 (A)	36% / 55%
Elongation MD/CD, aged*	EN 13859-1 (A)	36% / 55%
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
Foldability at low temperature	EN 495-5	-50 °C ; -58 °F
Adhesion of 'connect' strips		Above +0 °C ; 32 °F
Temperature resistance, permanent	EN 495-5, EN 1296, EN 1297	-50 °C to 100 °C ; -58 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
Emissivity	EN 15976	0.85
CE labelling	ETA-23/0532	Yes

Areas of application

For use as a diffusion-open roofing underlay over roof sheathing, MDF and wood-fibre underlay panels, and over all thermal insulation materials, including blown-in insulation materials.

Also available as a **pre-fabricated sheet** for your roofing project in Germany, Switzerland, Austria, France, the Netherlands and Belgium with the pro clima **made-to-order cutting and bonding service**!

Supply forms

Art. no.	Length	Width	Contents	Weight	Sales unit	Container	GTIN
1AR04076	50 m	1.5 m	75 m²	19 kg	1	20	4026639240767
1AR04713	25 m	3 m	75 m²	19 kg	1	40	4026639247131

Advantages

- ✔ Maximum protection for the roof structure: excellent hail impact resistance as per ETA-23/0532 and Swiss VKF/AEAI directive (HR 5 class)
- ✔ Reliable weatherproof roofs: underlay for demanding conditions for roof pitches ≥10° (2.1:12) with TESCON NAIDECK as additional perforation sealing over rigid subsurfaces, as per ETA-23/0532
- ✔ Efficient installation: waterproof seams and self-sealing perforations for roof pitches ≥14° (3:12) without the need for additional nail-sealing tapes, as per ETA-23/0532
- ✔ Quick waterproof adhesion: innovative anti-capillary sealing lip at the 'connect' self-adhesive strips on the edges of the membrane
- ✔ Made-to-order cutting and welding service available
- ✔ Flexible planning of construction schedules: at least 3 months of outdoor exposure
- ✔ Long-term protection: high resistance to ageing and heat of the functional film
- ✔ Provides protection during the construction period: suitable as a temporary covering

General conditions

SOLITEX QUANTHO 3000 connect membranes are to be installed with the printed side facing the installation technician. The membranes are to be installed as a roofing underlay membrane horizontally (parallel to the eave) in a taut manner with no sagging.

Roofing underlay membrane
The roof pitch must be at least 14° (3:12). National regulations (e.g. minimum roof pitch for the roof covering) should be taken into account here. Ensure that the subsurface is even when installing the membrane as a roofing underlay membrane. In the case of installation with seam and perforation protection, the general conditions included in the installation instructions and in ETA-23/0532 are to be taken into account.
When the membrane is installed as a freely hanging underlay membrane without sheathing, the rafter spacing is limited to 100 cm (3').

When the membrane is used to create a rainproof sub-roof for roof pitches ≥10° (2.1:12), it is to be installed over even sheathing or another pressure-resistant subsurface. The SOLITEX QUANTHO 3000 connect membrane is located underneath the counter battens, and a nail-sealing tape such as TESCON NAIDECK is installed between the membrane and the counter battens in this application case.
Fasteners may not be applied in areas where water runs off in a collected manner (e.g. in roof valleys).

General
Ridge ventilation should be provided in the case of non-insulated attics that have not been converted. To do so, install the membrane in such a way that it stops 5 cm (2") before the ridge. In addition, permanent ventilation fittings should be provided in the unconverted attic. The membrane should be protected against the long-term impacts of UV radiation (e.g. by darkening windows).

The membrane can be used as temporary covering for up to 4 months in Central and Northern Europe, Canada and the northern United States, or 3 months in the rest of the world, to protect the building structure during the construction phase in accordance with the regulations of the Central Association of the German Roofing Trade (ZVDH).
The system products TESCON NAIDECK nail-sealing tape, ORCON F adhesive sealant and TESCON VANA are to be used for sealing of overlaps and joints. The connect variant has two self-adhesive strips for reliable external sealing. The specifications of the applicable national regulations are to be taken into account when carrying out installation and adhesion.

Installation during hot weather
Roofing underlay membranes with top layers that serve as their functional films should be protected against excessive mechanical stresses and loading during hot weather periods. These stresses can be caused by foot traffic, storage of materials, or point loads, for example. Protective measures such as roof ladders, temporary safety battens, and protective or insulation panels have proven useful in practice in this regard. Ensure that there is sufficient grip to prevent slip hazards.

Additional instructions for blown-in insulation materials
SOLITEX QUANTHO 3000 connect can also be used as a boundary layer for blown-in insulation materials of all types. The battens must already be fitted before the blowing-in process is carried out. A protruding lath must be installed under the supporting battens in the centre of the space between the rafters so that moisture occurring under the covering is drained off centrally between the rafters. The protruding lath should be at least 1 cm (⅜") thicker than the counter battens. This limits the bulging of the membranes during the blowing-in process and creates the necessary cross-sectional area for ventilation.
If the insulation material is blown in from the outside, the blow-in holes can subsequently be taped using TESCON VANA with a width of 15 cm (6").

Tested for hazardous substances according to ISO 16000

Made in Germany developed and produced by pro clima

The applications and conditions described here are based on current research findings and practical experience. We reserve the right to change the recommended application designs and installation methods and to develop and thus change the properties and quality of individual products. We would be glad to inform you about the current state of engineering knowledge at the time that your installation is carried out.

The planning documentation that is available from pro clima provides further information about installation methods and design details. If you have questions, please contact pro clima Technical Support in Germany at +49 6202 278245.

MOLL
bauökologische Produkte GmbH
Rheintalstraße 35 - 43
68723 Schwetzingen
Germany
Phone: +49 6202 2782 0
eMail: info@proclima.com