SOLITEX FRONTA® PENTA connect

Breather membrane (WRB) for open-jointed cladding, gap width up to 50 mm (2"), with self-adhesive strips

Technical data

	Material
Fleece	Polypropylene microfibre
Functional film	Monolithic TEEE
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Fleece	Polypropylene microfibre
Self-adhesive strips	Water-resistant SOLID adhesive

Property	Regulation	Value
Colour		Black
Surface weight	EN 1849-2	280 g/m² ; 0.92 oz/ft²
Thickness	EN 1849-2	1.1 mm ; 43 mils
Water vapour resistance factor μ	EN ISO 12572	185
sd value	EN ISO 12572	0.2 m
g value		1.0 MN·s/g
Vapour permeance	ASTM E 96	16.1 perms
Fire class	EN 13501-1	E
Outdoor exposure		6 months
Watertight joints with 'connect' adhesive strips or TESCON VANA tape	EN 13859-1	W1
Water column	EN ISO 811	10 000 mm ; 32' 10"
Watertightness, non-aged/aged*	EN 13859-2	W1 / W1
Tensile strength MD/CD	EN 13859-2 (A)	480 N/5 cm / 340 N/5 cm ; 55 lb/in / 39 lb/in
Tensile strength MD/CD, aged*	EN 13859-2 (A)	360 N/5 cm / 260 N/5 cm ; 41 lb/in / 30 lb/in
Elongation MD/CD	EN 13859-2 (A)	60% / 70%
Elongation MD/CD, aged*	EN 13859-2 (A)	28% / 28%
Nail tear resistance MD/CD	EN 13859-2 (B)	300 N / 380 N ; 67 lbf / 85 lbf
*) Durability after artificial ageing with 10,000 h of UV ageing instead of 5,000 h	EN 1297 / EN 1296	Passed (for walls with open joints)
Flexibility at low temperature	EN 1109	-40 °C ; -40 °F
Temperature resistance	EN 1109, EN 1296, EN 1297	Permanent -40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
CE labelling	EN 13859-2	Yes

Areas of application

For use as a breather membrane (weather-resistive barrier, WRB) behind closed and open facades (open-jointed cladding up to a gap width of 50 mm (2") and 40% open total area). Installation onto boarding, wood-based panels and all mat or panel-shaped thermal insulation materials.

Supply forms

Art. no.	GTIN	Length	Width	Contents	Weight	Sales unit	Container
16434	4026639164346	50 m	1.5 m	75 m²	21.9 kg	1	12

Advantages

- ✔ Extremely robust and UV-stable: UV ageing test carried out with 10,000 h instead of 5,000 h
- ✔ Dry building components: pore-free TEEE functional film actively transports moisture to the outside
- ✔ Well-protected building components: permeable, extremely high tear-resistance, windproof, rainproof and waterproof
- ✔ Not visible behind open-jointed cladding: black fleece with printed marking only in the overlap area
- ✔ 6 months of outdoor exposure
- ✔ Quick and reliable sealing thanks to the integrated 'connect' self-adhesive strips on the long edges of the membrane

General conditions

SOLITEX FRONTA PENTA membranes should be installed with the printed side facing outwards. The membranes are to be installed horizontally in a taut manner with no sagging.

When the product is used behind open-jointed cladding, the gap may be a maximum of 50 mm (2"). The percentage of gaps relative to the overall surface may be up to 40%. The distance between the open-jointed cladding and the membrane must be at least 20 mm (3/4").

Fasteners may not be applied in areas where water run-off is collected.

Additional measures (e.g. covering with tarpaulins) should be taken during the construction phase in the case of buildings that are lived in or buildings that are to be given particular protection. Covering with tarpaulins should also be considered if construction work is to be interrupted for a longer period.

EPD verified

CE 16 EN 13859-2

UK CA

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The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommended designs and processing or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

Further information about installation and design details is available in the pro clima planning documentation. If you have any questions, please contact [pro clima Technical Support](https://proclima.com/service/technical-support).

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