SOLITEX FRONTA® PENTA

Breather membrane (WRB) for open-jointed cladding, gap width up to 50 mm (2″)



Technical data

	Material
Fleece	Polypropylene microfibre
Functional film	Monolithic TEEE
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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	EN ISO 12572	1.0 MN·s/g
Vapour permeance	ASTM E 96	16.1 perms
Reaction to fire classification	EN 13501-1	E
Outdoor exposure		6 months
Watertight joints with 'connect' adhesive strips or TESCON 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 for 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, permanent	EN 1109, EN 1296, EN 1297	-40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
Resistance to alkalis	EN 1847	Passed
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 area). Installation onto boarding, wood-based panels and all mat or panel-shaped thermal insulation materials.

Supply forms

Art. no.	Length	Width	Contents	Weight	Sales unit	Container	GTIN
16350	50 m	1.5 m	75 m²	21.5 kg	1	12	4026639163509
16435	25 m	3 m	75 m²	20.6 kg	1	12	4026639164353

Advantages

- ✔ Extremely robust and UV-stable: UV ageing test carried out for 10,000 h instead of 5,000 h
- ✔ Dry building structures: pore-free TEEE functional film actively transports moisture to the outside
- ✔ Well-protected building structures: 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

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 (¾″).

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

Declare.

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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.

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