

SOLITEX FRONTA PENTA

Wall lining membrane for open-jointed cladding, gap width up to 50 mm (2")



Technical data

Substance	
Fleece	Polypropylene microfibre
Membrane	monolithic TEEE
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Property	Regulation	Value
Colour		black
Surface weight	EN 1849-2	280 g/m ² ; 0.92 oz/ft ²
Thickness	EN 1849-2	1.1 mm ; 43 mils
Water vapor 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	16.12 US perms
Fire rating	EN 13501-1	E
Outdoor exposure		6 months
Water column	EN ISO 811	10 000 mm ; 32' 10"
Watertightness, non-aged/aged*	EN 13859-2	W1 / W1
Watertight joints with 'connect' adhesive strips or TESCON VANA tape	EN 13859-1	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		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 13859-2	yes

Application

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

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 membrane actively transports moisture to the outside
- ✓ Ensures reliable building components: permeable, extremely high tear-resistance, windproof, rainproof and waterproof
- ✓ Not visible behind open-jointed cladding: black fleece with identification marking in the overlap area
- ✓ 6 months of outdoor exposure

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 the application and construction can be found in the pro clima planning documentation. For queries please call the pro clima technical hotline on +49 (0)6202 278245.

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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.

CE
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EN 13859-2

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