SOLITEX FRONTA QUATTRO FB

Flame-resistant wall lining membrane for open-jointed cladding, gap width up to 35 mm (1 3/8")



Technical data

Protective and covering fleece Polypropylene microfibre Membrane monolithic Property Regulation Value Colour black Surface weight EN 1849-2 145 g/m²; 0.48 oz/ft² Thickness EN 1849-2 0.5 mm; 20 mils Water vapor resistance factor μ EN ISO 12572 0.08 m g value 0.4 MN·s/g Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-1 W1 Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 25 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (B) 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (B) 60 % / 80 % Nail tear resistance MD/CD EN 13859-2 (B) 90 N / 220 N ; 43 lbf / 49 lb		Substance	
Property Regulation Value Colour black Surface weight EN 1849-2 145 g/m²; 0.48 oz/ft² Thickness EN 1849-2 0.5 mm; 20 mils Water vapor resistance factor μ EN ISO 12572 160 sd value EN ISO 12572 0,08 m g value 0.4 MN·s/g Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-1 W1 Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 26 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (B) 190 N / 220 N; 43 lbf / 49 lbf *) Durability after artificial ageing EN 12	Protective and covering fleece	Polypropylene microfibre	
Surface weight	Membrane	monolithic	
Surface weight EN 1849-2 145 g/m²; 0.48 oz/ft² Thickness EN 1849-2 0.5 mm; 20 mils Water vapor resistance factor μ EN ISO 12572 160 sd value EN ISO 12572 0,08 m g value 0.4 MN·s/g Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - \$1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-1 W1 Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 26 lb/in / 26 lb/in EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (B) 190 N / 220 N; 43 lbf / 49 lbf *) Durability after artificial ageing EN 13859-2 (B) 190 N / 220 N; 43 lbf / 49 lbf *) Durability at low temperature EN 1109 -40 °C; -40 °F Temperature resistance Permanent -40 °C to 80 °C; -40 °F t	Property	Regulation	Value
Thickness	Colour		black
Water vapor resistance factor μ EN ISO 12572 160 sd value EN ISO 12572 0,08 m g value 0.4 MN·s/g Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 26 lb/in Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD aged* EN 13859-2 (B) 30 % / 40 % Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N ; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance Permanent -40 °C to 80 °C; -40 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU-in/ (h-ft²	Surface weight	EN 1849-2	145 g/m² ; 0.48 oz/ft²
Section	Thickness	EN 1849-2	0.5 mm ; 20 mils
g value 0.4 MN·s/g Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-1 W1 Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 26 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD EN 13859-2 (A) 60 % / 80 % 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (A) 30 % / 40 % Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance Permanent -40 °C to 80 °C; -40 °F -40 °F to 176 °F -40 °F to 176 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/ (h·ft²-F)	Water vapor resistance factor µ	EN ISO 12572	160
Vapour permeance ASTM E 96 41 US perms Fire rating EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking EN 13859-1 W1 Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm; 30 lb/in / 26 lb/in 10b/in / 26 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm; 30 lb/in / 25 lb/in Elongation MD/CD EN 13859-2 (A) 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (B) 190 N / 220 N; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance permanent -40 °C to 80 °C; -40 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/ (h·ft²-F)	sd value	EN ISO 12572	0,08 m
Fire rating Outdoor exposure EN 13501-1 B - s1, d0 Outdoor exposure 6 months Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2 EN 1385	g value		0.4 MN·s/g
Outdoor exposure Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2	Vapour permeance	ASTM E 96	41 US perms
Water column EN ISO 811 10 000 mm; 32' 10" Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2 EN 138	Fire rating	EN 13501-1	B - s1, d0
Water tightness non-aged/aged* EN 13859-2 W1 / W1 Watertight joints with 'connect' technology if TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2 EN 1	Outdoor exposure		6 months
Watertight joints with 'connect' technology if TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm ; 30 lb/in / 26 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm ; 30 lb/in / 26 lb/in EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm ; 30 lb/in / 25 lb/in EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm ; 30 lb/in / 25 lb/in Elongation MD/CD EN 13859-2 (A) 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (B) 190 N / 220 N ; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance Permanent -40 °C to 80 °C ; -40 °F to 176 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)	Water column	EN ISO 811	10 000 mm ; 32' 10"
TESCON VANA is used for sticking Tensile strength MD/CD EN 13859-2 (A) 260 N/5 cm / 225 N/5 cm ; 30 lb/in / 26 lb/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm ; 30 lb/in / 25 lb/in Elongation MD/CD EN 13859-2 (A) 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (A) 30 % / 40 % Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N ; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance permanent -40 °C to 80 °C; -40 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU-in/ (h·ft²-F)	Water tightness non-aged/aged*	EN 13859-2	W1 / W1
Ib/in / 26 Ib/in Tensile strength MD/CD aged* EN 13859-2 (A) 260 N/5 cm / 220 N/5 cm ; 30 Ib/in / 25 Ib/in Elongation MD/CD EN 13859-2 (A) 60 % / 80 % Elongation MD/CD aged* EN 13859-2 (A) 30 % / 40 % Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N ; 43 Ibf / 49 Ibf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance Permanent -40 °C to 80 °C ; -40 °F to 176 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²-F)	Watertight joints with 'connect' technology if TESCON VANA is used for sticking	EN 13859-1	W1
Ib/in / 25 Ib/in	Tensile strength MD/CD	EN 13859-2 (A)	260 N/5 cm / 225 N/5 cm ; 30 lb/in / 26 lb/in
Elongation MD/CD aged* EN 13859-2 (A) 30 % / 40 % Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N ; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance permanent -40 °C to 80 °C ; -40 °F to 176 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU·in/ (h·ft²-F)	Tensile strength MD/CD aged*	EN 13859-2 (A)	
Nail tear resistance MD/CD EN 13859-2 (B) 190 N / 220 N ; 43 lbf / 49 lbf *) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance permanent -40 °C to 80 °C ; -40 °F to 176 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)	Elongation MD/CD	EN 13859-2 (A)	60 % / 80 %
) Durability after artificial ageing EN 1297 / EN passed (for walls with open joints) Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance permanent -40 °C to 80 °C; -40 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU-in/ (h·ft²-F)	Elongation MD/CD aged	EN 13859-2 (A)	30 % / 40 %
Temperature resistance Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance permanent -40 °C to 80 °C; -40 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/ (h·ft²-F)	Nail tear resistance MD/CD	EN 13859-2 (B)	190 N / 220 N ; 43 lbf / 49 lbf
Temperature resistance $\begin{array}{c} \text{permanent -40 °C to 80 °C ;} \\ -40 °F to 176 °F \end{array}$ Thermal conductivity $\begin{array}{c} \text{0.04 W/(m\cdot K) ; 0.3 BTU \cdot in/(h\cdot ft^2 \cdot F)} \end{array}$	*) Durability after artificial ageing		
Thermal conductivity -40 °F to 176 °F 0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)	Flexibility at low temperature	EN 1109	-40 °C ; -40 °F
(h·ft²·F)	Temperature resistance		
CE labelling EN 13859-2 yes	Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/ (h·ft²·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 35 mm (1 3/8"); cladding width = at least 3 x gap width). Installation on boarding, wood-based panels and all mat or panel-shaped thermal insulation materials.

Advantages

- ✓ Improved safety: 'not easily flammable', fire classification B-s1, d0 as per EN 13501-1
- Ensures reliable building components: highly permeable and, at the same time, maximum protection against driving rain
- ✓ Not visible behind open-jointed cladding: black fleece with identification marking in the overlap area
- Highest possible durability and thermostability thanks to the TEEE membrane
- 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

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 QUATTRO FB membranes should be installed with the black 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 35 mm (1 3/8"). The width of cladding pieces must be at least three times the gap width. 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.







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