

Swisspearl Windstopper

Version: 6/26

Façade Boards

EN12467

Swisspearl Windstopper / Windstopper Connect

Windstopper Extreme and Windstopper Connect is a special type of build board that features a windproof membrane for exterior walls. The board consists of grey cement and limestone filler, reinforced with a specially selected fiber material that can absorb and release moisture without affecting the durability, strength or performance of the board.

Windstopper Extreme and Windstopper Connect has a very low vapour transmission resistance, enabling moisture from inside the building to pass through. In consequence, insulation can be placed directly against the inner side of the board.

The board is powerfully resistant towards both rot and fungal growth and can withstand considerable fluctuations in weather and climate conditions. Adding to this, the Windstopper Extreme and Windstopper Connect is non-combustible. When installed according to Swisspearl installation instructions, Windstopper will function as a temporary facade for up to 12 months. tested and proven

Only for Windstopper Connect: Windstopper Connect is produced with tongue and grooves on all 4 edges. A nonhardening butyl sealant is applied on the short groove of the board. A water-repellent surface treatment is applied on the front of the board.



	Units	WSE 4,5mm	WSE 9m	WSC 9mm
Dimension (nominal)				
Thickness	mm	4.5	9.0	9.0
Width	mm	900	600	600
		1200	900	
Length	mm	2700 3000	1200	1500
			2700	
			3000	

Dimension tolerance (EN 12467, Level 1)

Thickness (up to 20 mm)	mm	± 0.6	± 0.9	± 0.9
Width (600 mm < a < 1000 mm)	mm	± 0.3	± 0.3	± 0.3
Width (1000 mm < a < 1600 mm)	mm	± 0.3 % a	± 0.3 % a	± 0.3 % a
Length (1600 mm < a)	mm	± 5.0	± 5.0	± 5.0

a is the nominal width or length

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	Units	WSE 4,5mm	WSE 9m	WSC 9mm
Physical properties				
Density, dry (EN 12467), minimum apparent	Kg/m ³	≥ 1400	≥ 1300	≥ 1300
Density, dry (EN 12467), production average	Kg/m ³	1554	1375	1375
Weight average (Incl. 10% moisture)*	Kg/m ²	7,7	13,6	13,6
Air permeability (EN 12114)	m ³ /m ² h Pa	≤ 0.05	≤ 0.05	≤ 0.05
Sound Insulation reduction (ISO 171-1-2013)	Rw (dB)	29	32	32
	Rw + C (dB)	28	31	31
	Rw + Ctr (dB)	25	28	28

* nominal value may vary depending on the conditions

Mechanical properties (EN 12467)

Flexural modulus				
E-module along grain, ambient	GPa	16.9	5.5	5.5
E-module across grain, ambient	GPa	16.1	12.9	12.9
E-module along grain, wet	GPa	7.6	2.3	2.3
E-module across grain, wet	GPa	8.0	5.8	5.8

Bending strength (EN 12467)

Minimum Class A1 (EN 12467)	MPa	4.0	4.0	4.0
Along grain, ambient	MPa	17.5	13.2	13.2
Across grain, ambient	MPa	22.1	16.4	16.4
Along grain, wet	MPa	7.9	5.5	5.5
Across grain, wet	MPa	11.0	7.4	7.4

Thermal properties

Thermal conductivity (ISO 8301, EN 12667), λ_{10}	W/mK	0.32	0.32	0.32
Coefficient of thermal expansion	mm/m °C	0.01	0.01	0.01
Frost resistance (100 cycles EN 12467)	RL	RL > 0,75	RL > 0,75	RL > 0,75

Hygrothermal properties

Moisture movement (wet-dry-wet)	mm/m	< 5	< 5	< 5
Moisture movement (30/90 % RH, EN 12467)	mm/m	0,55	0,42	0,42
Water impermeability (EN 12467)	Visual	No drop	No drop	No drop

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	Units	WSE 4,5mm	WSE 9m	WSC 9mm
Water vapour transmission properties (EN 12572-C)				
Vapour transmission resistance (Z-value)	GPa m ² s/kg	2,1	2,7	2,7
Vapour transmission resistance	s/m	15600	19700	19700
Vapour diffusion equivalent air layer thickness	Sd (m)	0.41	0.50	0.50
Vapour resistivity	MN s/(gm)	448	301	301
Vapour resistance factor, μ		87	82	82
Vapour resistance	MN s/(gm)	2.1	2.7	2.7
Vapour Transmission	USPerm	8.3	8.0	8.0

Impact resistance test (EAD 090062-00-0404) 9 mm

	Max.	Category IV	Category III	Category II	Category I
Hard body	1 Joule	Passed			
	3 Joule		Passed	Passed	Passed
	10 Joule			Passed	Passed
Soft body	10 Joule	Passed	Passed		
	60 Joule			Passed	Passed
	300 Joule			Not Passed	
	400 Joule				Not Passed
Evaluation		Passed	Passed	Not Passed	Not Passed

Fire Performance

Reaction to fire (EN 13501-1)

Reaction to fire (EN 13501-1)	Rating	A1	A1	A1
Fire protection classification (EN 13501-2)	Rating	NA	K1 10 K2 10 *K2 30	K1 10 K2 10

* Two layer, 12mm Multi Force fixed directly to the substrate + 9mm Windstopper Extreme facing the fire exposure

Other properties

Category, Class (EN 12467)		NT A1 I	NT A1 I	NT A1 I
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Swisspearl Windstopper

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Visual Appearance



Windstopper Extreme

Windstopper Connect

Certifications

In compliance with European Regulation No. 305/2011 (Construction Products Regulation – CPR), the manufacturer provides a Declaration of Performance (DoP) for the product, confirming that it bears the CE marking. This marking indicates that the product meets the essential requirements set out in the relevant harmonised European standard. The Declaration of Performance issued under the CPR is available at www.swisspearl.com



The manufacturing facility holds the latest versions of the following ISO certificates.

- ISO 9001 Quality Management System

Disclaimer

This Product Data Sheet reflects typical values based on current production. While we aim to maintain consistent quality, minor variations may occur. Please note that all values have an AQL level and a tolerance in relation to EN 12467. Key performance indicators (KPIs) are monitored and reviewed annually to ensure product reliability and continuous improvement. The information is provided as a general guide and may be updated without notice. We recommend validating the product for your specific application before use.

The material is made from natural raw materials, and each fibre-cement product has its own unique appearance and texture. Inclusions, impurities, and irregularities may occur, such as uneven surfaces or textures, which are part of the product's natural look and feel. Natural imperfections may be visible, but the overall product appearance remains homogeneous. The product appearance does not affect the strength or durability of fibre-cement products. Over time, the appearance of fibre-cement products may change as a result of exposure to environmental factors.

The values given are typical values

*: If any recipe or production process changes, the verification period is accordingly revised.

NA: Not applicable

NR: Not relevant