

Cembrit Windstopper Extreme

Build Boards

Cembrit Windstopper Extreme 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 fibre material that can absorb and release moisture without affecting the durability, strength or performance of the board.

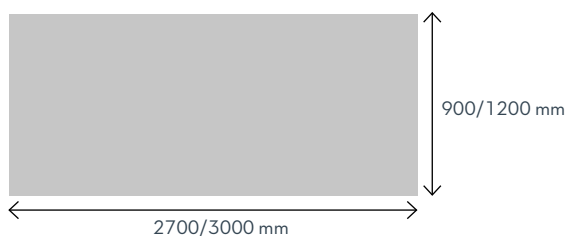
Cembrit Windstopper Extreme has a very low vapour transmission resistance, enabling moisture from inside the building to pass through.

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 Cembrit Windstopper Extreme is non-combustible.

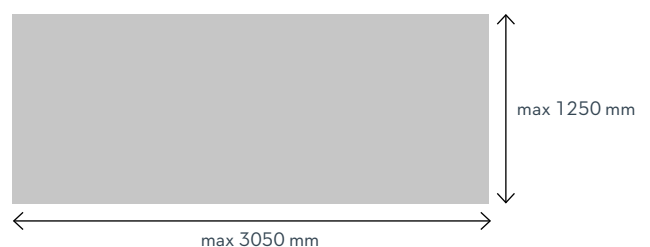
When installed according to Cembrit installation instructions, Cembrit Windstopper Extreme will function as a temporary facade for up to 12 months.

Dimensions	Thickness	Width mm	Length mm
Size	4.5 mm	900 1200	2700 2700/3000
Size	9 mm	900 1200	2700 2700/3000

Standard sizes



Project sales



www.cembrit.com

Please visit the local website for contact details and further information.

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Dimension (nominal)			
Thickness	mm	4.5	9.0
Width	mm	1200	900/1200
Length	mm	2700/3000	2700/3000
Dimension tolerance (EN 12467, Level 1)			
Thickness	mm	+/-0,6	+/-0.9
Width	mm	+/-3.6	+/-3.6
Length	mm	+/-5	+/-5
Physical properties			
Density, dry, minimum (EN12467)	Kg/m ³	≥ 1400	≥ 1300
Density, dry, average (EN12467)	Kg/m ³	1600	1425
Weight average (Incl. 5% moisture)	Kg/m ²	7.6	13.5
Moisture content (on dispatch ex works, ASTM C1185)	%	3-7	3-7
Air permeability (EN12114)	m ³ /m ² h Pa	0.003	0.003
Sound insulation reduction (ISO 717-1:2013)	R _w (dB)	29	31
	R _w + C (dB)	28	29
	R _w + C _{tr} (dB)	25	28
Mechanical properties (EN 12467)			
Bending modulus of elasticity			
E-module along grain, ambient	GPa	2.2	4.4
E-module across grain, ambient	GPa	4.5	5.4
Bending strength (EN12467)			
Along grain, ambient	MPa	20.0	±4.5
Across grain, ambient	MPa	24.0	±8.2
Along grain, wet	MPa	9.2	±7.5
Across grain, wet	MPa	10.8	8.5
Thermal properties			
Coefficient of thermal expansion	mm/m °C	0.01	0.01
Frost resistance (max. cycles R _L > 0,75 EN12467)	Cycles	100	50
Thermal conductivity (ISO 8301, EN 12667)	λ ₁₀ W/(mK)	0.32	0.32

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Hygrothermal properties			
Water absorption (24 hrs 105°C, 24 hrs in water, EN12467)	%	19.9	22.3
Moisture movement (30/90 % RH, EN12467)	mm/m	0.55	0.42
Moisture movement (wet-dry-wet)	mm/m	2.6	2.3
Water impermeability (EN12467)	Visual	No drop	No drop
Water vapour transmission properties (EN12572-C)			
Vapour transmission resistance (Z-value)	Gpa m ² s/kg	2.12	2.21
Vapour transmission resistance	s/m	15555	16191
Vapour diffusion equivalent air layer thickness	Sd (m)	0.41	0.43
Vapour resistivity	MN s/(gm)	448	239
Vapour resistance factor	μ	88.6	46.6
Vapour resistance	MN s/g	2.1	2.2
Vapour transmission	USPerm	8.3	8.0
Fire performance			
Reaction to fire	EN13501	A2-s1, d0	A2-s1, d0
Fire protection classification (EN13501-2)	Rating	NR	K ₁ 10 & K ₂ 10
Other properties			
Category, class (EN12467)		NT D3 I	NT D3 I