CEMBRIT

Cembrit Windstopper Extreme

Datasheet - 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.

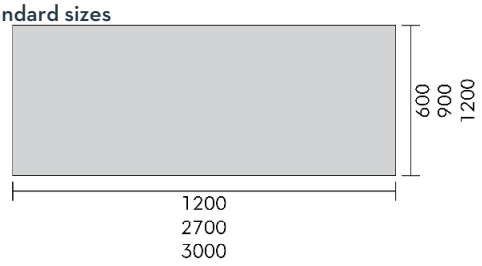
Cembrit Windstopper Extreme has a very low vapour transmission resistance, enabling moisture from inside the building to pass through.

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.

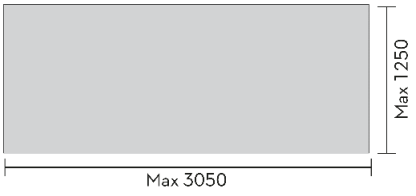
When installed according to Cembrit installation instructions, Cembrit Windstopper Extreme will function as a temporary facade for up to 12 months.

Dimensions			
Thickness	mm	4,5	9
Width	mm	900 1200	600 900 1200
Length	mm	2700 3000	1200 2700 3000

Standard sizes



Project sizes



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		WSE 4,5mm	WSE 9mm
Dimension tolerance (EN 12467, Level 1)			
Thickness (up to 20mm)	mm	± 0,6	± 0,9
Width (600mm <a< 1000mm)	mm	± 3	± 3
Width (1000mm <a< 1600mm)	mm	± 0,3% a	± 0,3% a
Length (1600mm < Length)	mm	± 5	± 5
Physical properties			
Density, dry (EN12467), minimum apparent	Kg/m³	≥ 1400	≥ 1300
Density, dry (EN12467), production average	Kg/m³	1554	1375
Weight average (Incl. 10% moisture)*	Kg/m²	7,7	13,6
Air permability (EN 12114)	m³/m² h Pa	≤ 0,05	≤ 0,05
Sound Insulation reduction (ISO 717-1-2013)	Rw (dB)	29	32
	Rw + C (dB)	28	31
	Rw + Ctr (dB)	25	28

* nominal value may vary depending on the conditions

Mechnical properties (EN 12467)			
Flexural modulus			
E-module along grain, ambient	GPa	16,9	5,5
E-module across grain, ambient	GPa	16,1	12,9
E-module along grain, wet	GPa	7,6	2,3
E-module across grain, wet	GPa	8	5,8
Bending strength (EN 12467)			
Along grain, ambient	MPa	17,5	13,2
Across grain, ambient	MPa	22,1	16,4
Along grain, wet	MPa	7,9	5,5
Across grain, wet	MPa	11	7,4
Thermal properties			
Thermal conductivity (ISO 8301, EN 12667), λ10	W/(mK)	0,32	0,32
Coefficient of thermal expansion	mm/m °C	0,01	0,01
Frost resistance (min. Cycles R_L>0,75, EN12467)	Cycles	100	100
Frost resistance (average along/across)	R_L	>0,75	>0,75

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Hygrothermal properties			
Water absorption (24 hrs 105°C, 24 hrs in water)	%	19,9	21,3
Moisture movement (30/90 % RH, EN12467)	mm/m	0,55	0,42
Water impermeability (EN12467)	Visual	No water drops	No water drops

Water vapour transmission properties (EN 12572-C)			
Vapour transmission resistance (Z-value)	GPa m² s/kg	2,1	2,7
Vapour transmission resistance	s/m	15600	19700
Vapour diffusion equivalent air layer thickness	Sd (m)	0,41	0,50
Vapour resistivity	MN s/(gm)	448	301
Vapour resistance factor, μ		87	82
Vapour resistance	MN s/(gm)	2,1	2,7
Vapour transmission	USPerm	8,3	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 Joules		Passed	Passed	Passed
	10 Joules			Passed	Passed
Soft body	10 Joules	Passed	Passed		
	60 Joules			Passed	Passed
	300 Joules			Not passed	
	400 Joules				Not passed
Evaluation		Passed	Passed	Not passed	Not passed

Fire properties			
Reaction to fire (EN13501-1)	Rating	A2-s1, d0	A2-s1, d0
Fire protection classification (EN13501-2)	Rating	NA	K1 10 K2 10 *K2 30

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

Other properties			
Category, Class (EN12467)		NT A1 l	NT A1 l

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