

## Cembrit Windstopper Extreme

### Datasheet - Build Boards

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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.

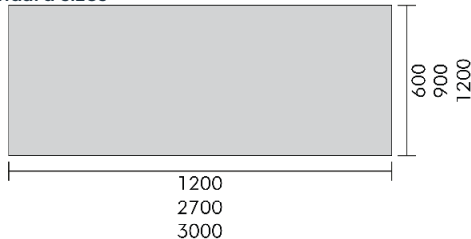
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#### Dimensions

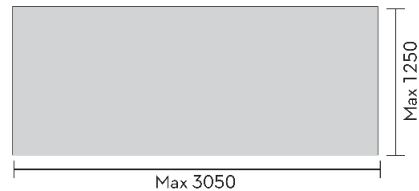
Thickness	mm	4,5	9
Width	mm	900	600
		1200	900
			1200
Length	mm	2700	1200
		3000	2700
			3000

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#### Standard sizes



#### Project sizes



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		WSE 4,5mm	WSE 9mm
<b>Dimension tolerance (EN 12467, Level 1)</b>			
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
<b>Physical properties</b>			
Density, dry (EN12467), minimum apparent	Kg/m <sup>3</sup>	≥ 1400	≥ 1300
Density, dry (EN12467), production average	Kg/m <sup>3</sup>	1554	1375
Weight average (Incl. 10% moisture)*	Kg/m <sup>2</sup>	7,7	13,6
Air permeability (EN 12114)	m <sup>3</sup> /m <sup>2</sup> 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

<b>Mechanical properties (EN 12467)</b>			
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

<b>Bending strength (EN 12467)</b>			
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

<b>Thermal properties</b>			
Thermal conductivity (ISO 8301, EN 12667), λ <sub>10</sub>	W/(mK)	0,32	0,32
Coefficient of thermal expansion	mm/m °C	0,01	0,01
Frost resistance (min. Cycles R <sub>L</sub> >0,75, EN12467)	Cycles	100	100
Frost resistance (average along/across)	R <sub>L</sub>	>0,75	>0,75

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		WSE 4,5mm	WSE 9mm			
<b>Hygrothermal properties</b>						
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			
<b>Water vapour transmission properties (EN 12572-C)</b>						
Vapour transmission resistance (Z-value)	GPa m <sup>2</sup> 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, $\mu$		87	82			
Vapour resistance	MN s/(gm)	2,1	2,7			
Vapour transmission	USPerm	8,3	8,0			
<b>Impact Resistance test (EAD 090062-00-0404), 9 mm</b>						
		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
<b>Fire properties</b>						
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						
<b>Other properties</b>						
Category, Class (EN12467)				NT A1 I	NT A1 I	

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