

## Cembrit Patina

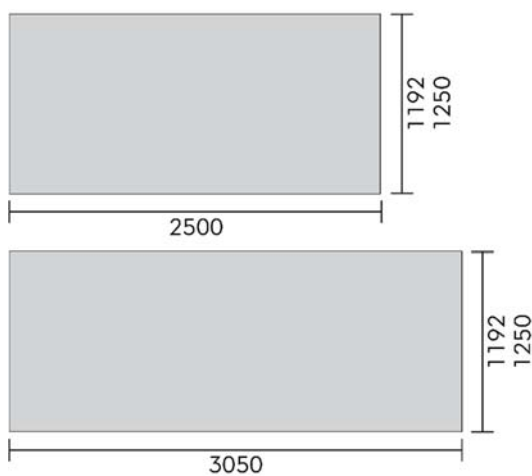
### Datasheet - Facade Boards

Cembrit Patina has a natural, textured surface. You can see the fibre and natural characteristics of the raw materials, and you can see and feel the sanding lines on the surface. As the seasons change and the years pass, the natural ageing of the fibre cement leaves subtle traces on the

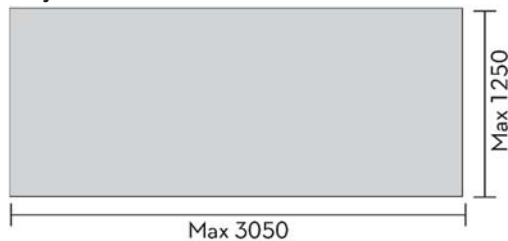
surface, and the facade will gradually acquire a distinctive patina. The variations in the colours of the board will create a facade richly evocative of history and life. Cembrit facade boards are a high quality fibercement used as a part of a ventilated facade solution on all types of constructions.

Dimensions (nominal)	Thickness	Width	Length
Standard size	6	1192	2500
	8	1250	3050
Small Module	8	292	1192
		592	2392

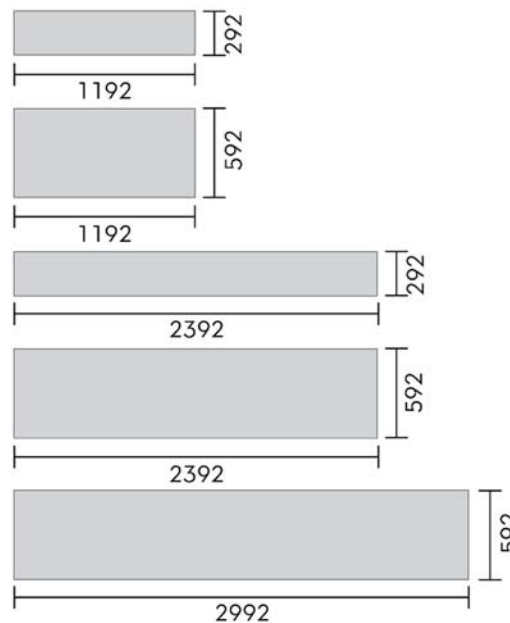
Standard size



Project size



Small Modules



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Dimension tolerance (EN 12467, Level 1)		Patina 6 mm	Patina 8 mm
Thickness (up to 20mm)	mm	± 0.6	+/- 0.8
Width (1000mm <a< 1600mm)	mm	± 0,3% a	± 0,3% a
Length (1600mm < Length)	mm	± 5.0	± 5.0

### Physical properties

Density, dry minimum (EN12467)	Kg/m <sup>3</sup>	≥ 1400	≥ 1475
Density, dry average (EN12467)	Kg/m <sup>3</sup>	1450	1550
Weight (incl. 10% moisture)*	Kg/m <sup>2</sup>	9.3	12.4
Moisture content (on dispatch ex works)	%	5-10	5-10

\* nominal value may vary depending on the conditions

### Mechanical properties (EN 12467)

Bending modulus of elasticity			
E-module along grain, ambient	GPa	12	12
E-module across grain, ambient	GPa	13	14
E-module along grain, wet	GPa	9	9
E-module across grain, wet	GPa	11	11

### Bending strength (EN 12467)

Along grain, ambient	MPa	22	22
Across grain, ambient	MPa	35	35
Along grain, wet	MPa	17	18
Across grain, wet	MPa	26	27

### Impact strength (Charpy, EN 148-1)

Along grain, dry	kJ/m <sup>2</sup>	2.3	2.7
Across grain, dry	kJ/m <sup>2</sup>	2.8	3.6

### Thermal properties

Thermal conductivity ( ISO 8301, EN 12667), λ <sub>10</sub>	W/mK	0.32	0.37
Coefficient of thermal expansion	mm/m °C	0.01	0.01
Temperature (air) in use	°C max	-40 - +80	-40 - +80
Frost resistance (average along/across)	RL	≥ 0.75	≥ 0.75

### Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	28	28
Moisture movement (30/90 % RH, EN 12467)	mm/m	2.6	2.6

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<b>Water vapour transmission properties (EN 12572-C)</b>					
Water vapour transmission resistance (Z-value)		GPa m <sup>2</sup> s/kg	2.4		2.5
Water Vapour transmission resistance (Z-value)		s/m	17700		18500
Water vapour diffusion equivalent air layer thickness, Sd		m	0.5		0.5
Water vapour resistivity		MN s/gm	366		327
Water vapour resistance factor, $\mu$			58		58
Water vapour resistance		MN s/g	2.4		2.5
Water vapour transmission		USPerm	7.2		7.0
<b>Fire Performance</b>					
Reaction to fire (EN 13501-1)		Rating	NA		A2-s1, d0
<b>Other properties</b>					
Category, class (EN12467)			NT A4 I		NT A4 I
<b>Impact resistance test (ETAG 034, ISO 7892), 8 mm</b>					
	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

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