

## Cembrit Patina Original

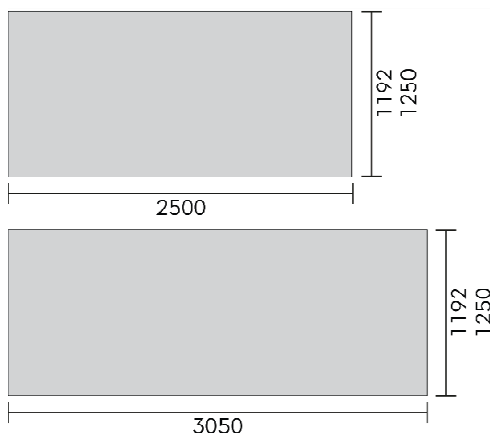
### Datasheet - Facade Boards

Cembrit Patina Original has a natural, textured surface. You can see the fibre and natural characteristics of the raw materials, and you can see and feel the unique sanding lines on the surface. Natural imperfections like dots and spots can be visible but from 3-5 meters distance the surface will appear homogenous. 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.

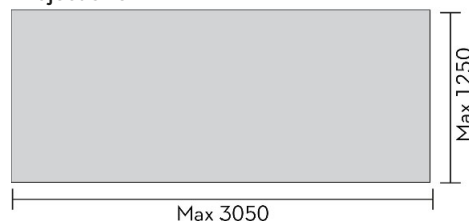
Cembrit Patina Original is a through coloured board. Variations in the colour of the board are visible and vary depending on the orientation of the sheet, the viewing angle and level of light and humidity. Measuring the board colour small variations in the colour lightness are accepted. Cembrit facade boards are high quality fibre cement products used as part of a ventilated facade solution in all types of constructions.

Dimensions (nominal)		Standard size
Thickness	mm	8
Width	mm	1192 1250
Length	mm	2500 3050

Standard size



Project size



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

### Physical properties

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

\* nominal value may vary depending on the conditions

### Mechanical properties (EN 12467)

Flexural modulus		
E-module along grain, ambient	GPa	12
E-module across grain, ambient	GPa	14
E-module along grain, wet	GPa	9
E-module across grain, wet	GPa	11

### Bending strength (EN 12467)

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

### Impact strength (Pendulum test)

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

### Thermal properties

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

### Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	28
Moisture movement (30/90 % RH, EN 12467)	%	0.08

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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			2.5
Water Vapour transmission resistance (Z-value)		s/m			18500
Water vapour diffusion equivalent air layer thickness, Sd		m			0.5
Water vapour resistivity		MN s/gm			327
Water vapour resistance factor, $\mu$					58
Water vapour resistance		MN s/g			2.5
Water vapour transmission		USPerm			7.0
<b>Color variation measured on the production line</b>					
CIELAB colour model		$\Delta L$			-2.5/+2.5
<b>Fire Performance</b>					
Reaction to fire (EN 13501-1)		Rating			A2-s1, d0
Behavior of materials at 750°C (ASTM E136)					Passed
<b>Other properties</b>					
Category, class (EN12467)					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 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

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