

Cembrit Patina Original

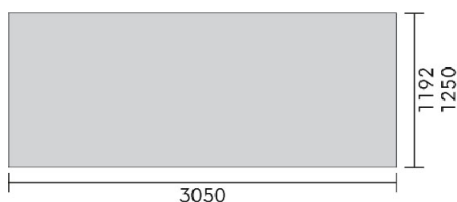
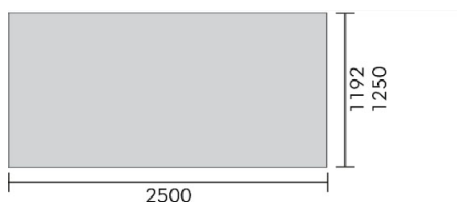
Datasheet - Facade Boards

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.

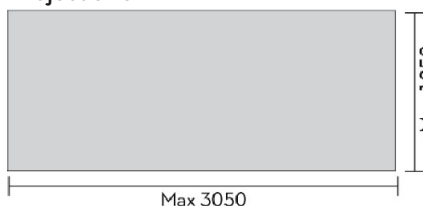
Cembrit Patina Original is a through coloured board. Variations in the colour of the board are visible and vary depending on the orientation of the sheet, the viewing angle and level of light and humidity. Measuring the board colour small variations in the colour lightness are accepted. Cembrit facade 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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Please visit the local website for contact details and further information.

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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 ³	≥ 1475
Density, dry average (EN12467)	kg/m ³	1550
Weight (incl. 10% moisture)*	kg/m ²	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

Modified Charpy Pendulum Impact test EN ISO 148-1

Along grain, dry	kJ/m ²	2.7
Across grain, dry	kJ/m ²	3.6

Thermal properties

Thermal conductivity (ISO 8301, EN 12667), λ_{10}	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)	mm/m	0.8

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Water vapour transmission properties (EN 12572-C)		
Water vapour transmission resistance (Z-value)	GPa m ² 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, μ		58
Water vapour resistance	MN s/g	2.5
Water vapour transmission	USPerm	7.0

Color variation measured on the production line		
CIELAB colour model	ΔL	-2.5/+2.5

Fire Performance		
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0
Behavior of materials at 750°C (ASTM E136)	Rating	Passed
External thermal insulation for walls (BS 8414-2-2015+A1-2017)*	Rating	Passed

* Tested with special requirements. Contact Product Compliance for further informations.

Other properties	
Category, class (EN12467)	NT A4 I

Impact resistance test (ETAG 034, ISO 7892), 8 mm				
	Max.	Category IV	Category III	Category I
Hard body	1 Joule	Passed		
	3 Joules		Passed	Passed
	10 Joules			Passed
Soft body	10 Joules	Passed	Passed	
	60 Joules			Passed
	300 Joules			
	400 Joules			Not passed
Evaluation		Passed	Passed	Not passed

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Ballwurfsicherheit (DIN 18032-3) - (Impact resistance), Wall and Ceiling, 12 mm

	Angle of Impact	Number of shots	Subconstruction	Distance, subconstruction	Test result
Handball	90	30	Aluminium	315 mm	Passed as "Ballwurfsicher"
	45	12			
	45	12			
Hockeyball	90	4	Aluminium	315 mm	Passed as "Ballwurfsicher"
	45	4			
	45	4			

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