

Cembrit Patina Original

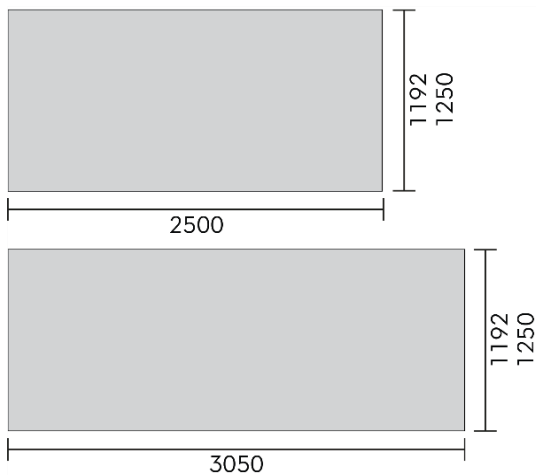
Datasheet - Facade Boards

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 sanding lines on the surface. As the seasons change and the years pass, the natural ageing of the fibre cement leaves subtle traces on

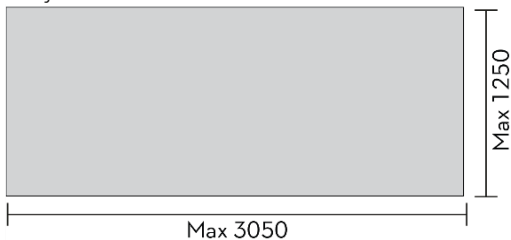
the surface, and the facade will gradually acquire a distinctive patina. The variations in the colours of the board will create a facade richly evocative of history and life. Cembrit facade boards are a high quality fibercement used as a part of a ventilated facade solution on all types of constructions.

Dimensions (nominal)		Small Module	Standard size
Thickness	mm	8	6
Width	mm	292 592	1192 1250
Length	mm	1192 2392 2992	2500 3050

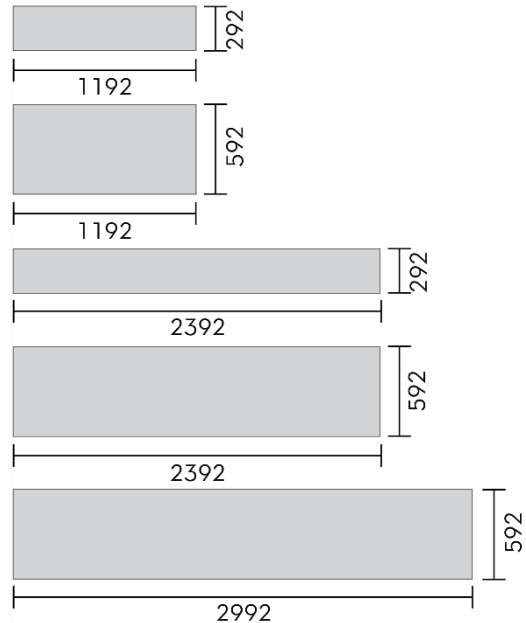
Standard size



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 ³	≥ 1400	≥ 1475
Density, dry average (EN12467)	kg/m ³	1450	1550
Weight (incl. 10% moisture)*	kg/m ²	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 (Pendulum test)

Along grain, dry	kJ/m ²	2.2	2.7
Across grain, dry	kJ/m ²	2.7	3.6

Thermal properties

Thermal conductivity (ISO 8301, EN 12667), λ_{10}	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)	R _L	≥ 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	0.8	0.8

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Water vapour transmission properties (EN 12572-C)			
Water vapour transmission resistance (Z-value)	GPa m ² s/kg	2.4	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, μ		58	58
Water vapour resistance	MN s/g	2.4	2.5
Water vapour transmission	USPerm	7.2	7.0

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

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

Other properties			
Category, class (EN12467)		NT A4 I	NT A4 I

Impact resistance test (ETAG 034, ISO 7892), 8 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

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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