

Cembrit Solid

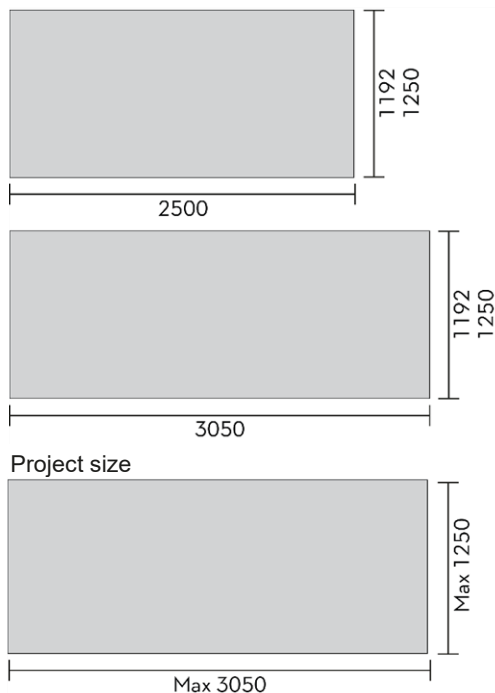
Datasheet - Facade Boards

The special thing about Cembrit Solid boards is that they're the same colour all the way through. Each of the core colours is matched with a full-coverage painted surface in vibrant yet resilient colours. This means if you choose Cembrit Solid boards to provide a facade with a particular

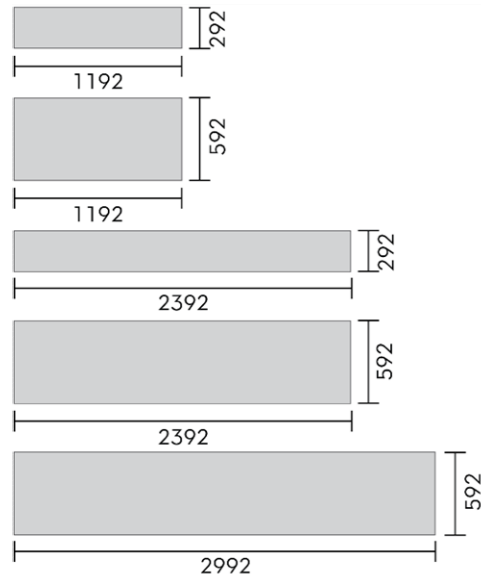
colour, every board will feature that colour on every surface and edge, and with the same colour on the edges of any cut-outs or drilled holes. Cembrit facade boards are a high quality fibercement used as a part of a ventilated facade solution on all types of constructions.

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

Standard size



Small Modules



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Dimension tolerance (EN 12467, Level I)		
Thickness (up to 20mm)	mm	± 0.8
Width (a < 1000mm)	mm	± 3.0
Width/Length (1000mm < a < 1600mm)	mm	± 0.3% a
Length (1600mm < a)	mm	± 5.0
* a is the nominal width or length		
Physical properties		
Density, dry minimum (EN 12467)	kg/m ³	≥ 1650
Density, dry average (EN 12467)	kg/m ³	1801
Weight*	kg/m ²	15.8
* nominal value may vary depending on the conditions		
Mechanical properties (EN 12467)		
Flexural modulus		
E-module along grain, ambient	GPa	15
E-module across grain, ambient	GPa	17
E-module along grain, wet	GPa	13
E-module across grain, wet	GPa	15
Bending strength (EN 12467)		
Along grain, ambient	MPa	20
Across grain, ambient	MPa	39
Along grain, wet	MPa	19
Across grain, wet	MPa	24
Thermal properties		
Thermal conductivity (ISO 8301, EN 12667), λ_{10}	W/mK	0.37
Coefficient of thermal expansion	mm/m °C	0.1
Frost resistance (average along/across)	RL	≥ 0.75
Frost resistance (max. cycles RL > 0,75 EN 12467)	Cycles	>100
Hygrothermal properties		
Moisture movement (30/90 % RH, EN 12467)	%	0.08
Color Resistance to UV		
ΔE after 5000 hours		0.6-2.4
Fire Performance		
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0

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Other properties						
Category, class (EN 12467)					NT A4 I	
M1-Classification, VOC emission of building materials					Passed	
Impact resistance test (ETAG 034, ISO 7892), 8 mm						
		Max.	Category IV	Category III	Category II	Category I
		1 Joule	Passed			
Hard body		3 Joules		Passed	Passed	Passed
		10 Joules			Passed	Passed
Soft body		10 Joules	Passed	Passed		
		60 Joules			Passed	Not Passed
		300 Joules			Not passed	
		400 Joules				Not passed
	Evaluation		Passed	Passed	Not passed	Not passed

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