

# Solid

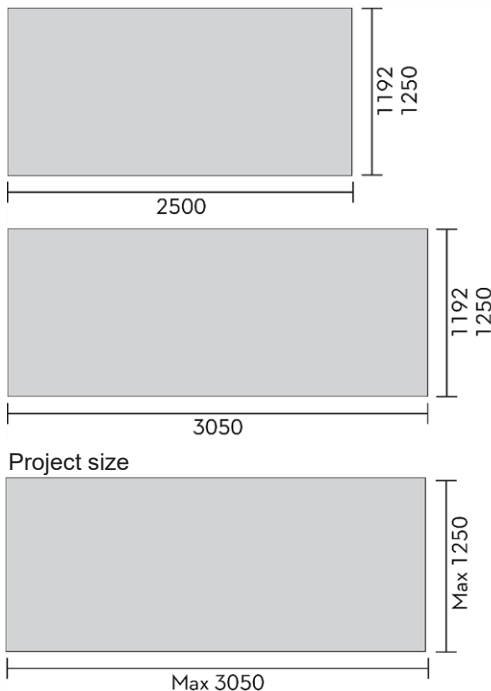
## Datasheet - Facade Boards

The special thing about 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 Solid boards to provide a facade with a particular

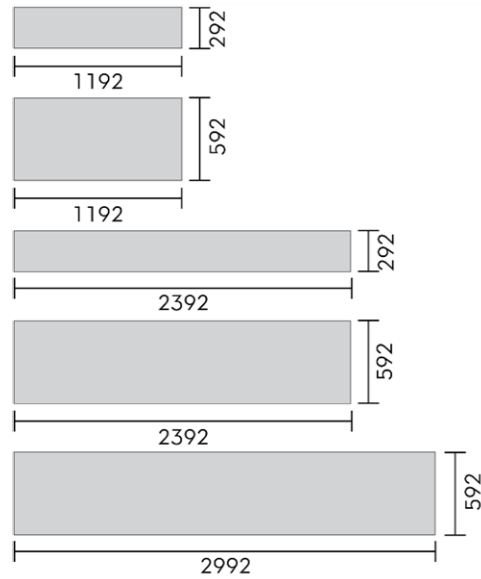
colour, every board will feature that colour on every surface and edge, and with the same colour on the edges of any cut-outs or drilled holes. Swisspearl facade boards are a high quality fibercement used as a part of a ventilated facade solution on all types of constructions.

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 <sup>3</sup>	≥ 1650
Density, dry average (EN 12467)	kg/m <sup>3</sup>	1801
Weight*	kg/m <sup>2</sup>	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), $\lambda_{10}$	W/mK	0.37
Coefficient of thermal expansion	mm/m °C	0.1
Frost resistance (average along/across)	R <sub>L</sub>	≥ 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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