

## Cembrit Patina Rough

### Façade Boards

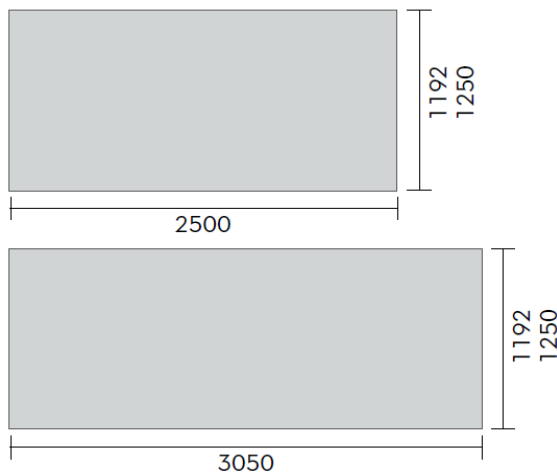
Cembrit Patina Rough has a velvety, structured surface – as if formed over time by Nature. This appearance will add a mineral, naturally and subtly eroded surface finish to your facade, as if it were built using natural materials – for instance, naturally aged sandstone.

This texture will also give your facade a dynamically changing appearance throughout the day depending on external light and viewing angle. As with Cembrit Patina, Cembrit Patina Rough will patinate with time - enriching its natural appearance.

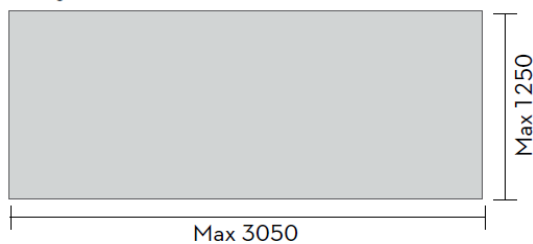
#### Dimension (nominal)

Thickness	8
Width	1192 1250
Length	2500 3050

#### Standard sizes



#### Project sales



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Please visit the local website for contact details and further information.

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<b>Dimension (nominal)</b>		
Thickness	mm	8
Width	mm	1192 1250
Length	mm	2500 3050
<b>Dimension tolerance (EN 12467, Level 1)</b>		
Thickness (up to 20 mm)	mm	+/- 0.8
Width (1000 mm < a < 1600 mm)	mm	± 0,3% a
Length (1600 mm < Length)	mm	± 5.0
<b>Physical properties</b>		
Density, dry minimum (EN12467)	Kg/m <sup>3</sup>	≥ 1300
Density, dry average (EN12467)	Kg/m <sup>3</sup>	1460
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		
<b>Mechanical properties (EN 12467)</b>		
Bending modulus of elasticity		
E-module along grain, ambient	GPa	13
E-module across grain, ambient	GPa	15
E-module along grain, wet	GPa	11
E-module across grain, wet	GPa	13
<b>Bending strength (EN 12467)</b>		
Along grain, ambient	MPa	25
Across grain, ambient	MPa	36
Along grain, wet	MPa	17
Across grain, wet	MPa	26
<b>Impact strength (Charpy), (EN 148-1)</b>		
Along grain, dry	kJ/m <sup>2</sup>	2.8
Across grain, dry	kJ/m <sup>2</sup>	2.3
<b>Thermal properties</b>		
Thermal conductivity ( ISO 8301, EN 12667), $\lambda_{10}$	W/mK	0,4
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
Frost resistance (max. cycles RL > 0,75 EN12467)	Cycles	100

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### Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	25
Moisture movement (wet-dry-wet)	mm/m	2.6

### Water vapour transmission properties (EN 12572-C)

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
Vapour diffusion equivalent air layer thickness	Sd (m)	0
Water vapour resistance	MN s/g	2.5

### Fire Performance

Reaction to fire (EN 13501-1)	Rating	A2-s1, d0
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### Other properties

Category, class (EN12467)	NT A4 I
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### Impact resistance test (ETAG 034, ISO 7892), 8 mm

	Max.	Category IV	Category III	Category II	Category I
Hard body	1 Joule	Passed			
	3 Joule		Passed	Passed	Passed
	10 Joule			Passed	Passed
Soft body	10 Joule	Passed	Passed		
	60 Joule			Passed	Passed
	300 Joule			Not passed	
	400 Joule				Not passed
Evaluation		Passed	Passed	Not passed	Not passed