

## Cembrit Patina Rough

### Facade

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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.

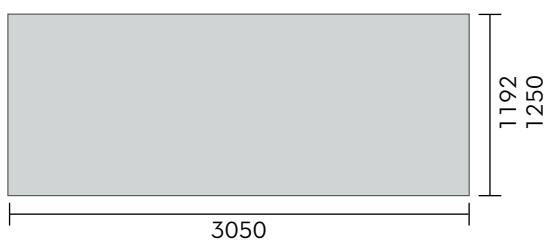
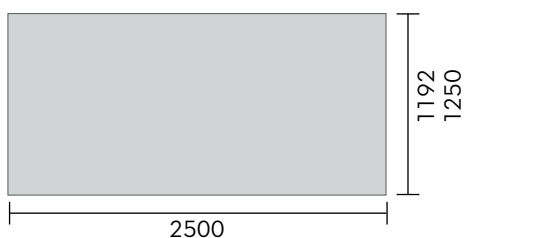
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#### Dimension (nominal)

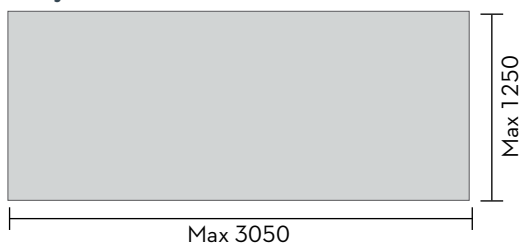
Thickness mm	8
Width mm	1192 1250
Length mm	2500 3050

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#### Standard sizes



#### Project sales



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[www.cembrit.com](http://www.cembrit.com)

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 20mm)	mm	± 0.8
Width (1000mm < a < 1600mm)	mm	± 0.3%a
Length (1600mm < 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	14.7
E-module across grain, ambient	GPa	12.6
E-module along grain, wet	GPa	12.5
E-module across grain, wet	GPa	10.8
<b>Bending strength (EN 12467)</b>		
Along grain, ambient	MPa	36
Across grain, ambient	MPa	24.5
Along grain, wet	MPa	26
Across grain, wet	MPa	17
<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

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<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			
<b>Hygrothermal properties</b>					
Water absorption (24 hrs 105°C, 24 hrs in water)	%	25.0			
Moisture movement (wet-dry-wet)	mm/m	2.6			
<b>Water vapour transmission properties (EN 12572-C)</b>					
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			
<b>Fire Performance</b>					
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0			
<b>Other properties</b>					
Category, class (EN12467)		NT A4 I			
<b>Impact resistance test (ETAG 034, ISO 7892), 8 mm</b>					
	<b>Max.</b>	<b>Category IV</b>	<b>Category III</b>	<b>Category II</b>	<b>Category I</b>
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