

## Cembrit Patina

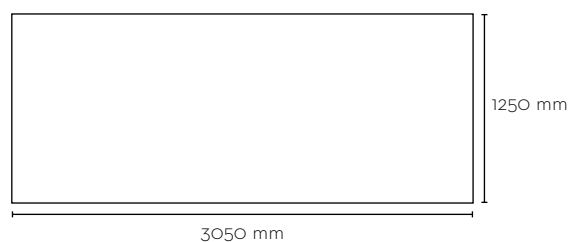
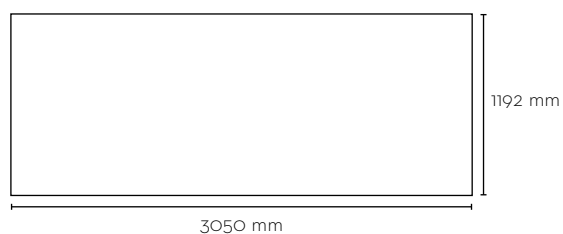
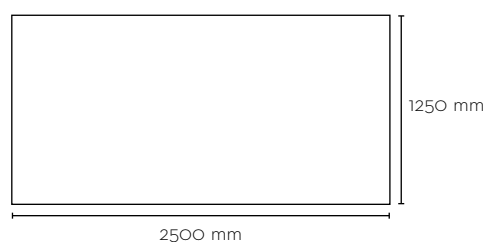
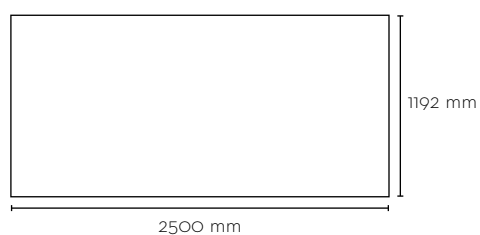
### Facade

Cembrit Patina 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.

#### Dimension

Width	mm	1192	1192	1250	1250				
Length	mm	2500	3050	2500	3050				
Thickness	mm	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0



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### Physical properties (P050, P070, P313, P323, P333, P545)

Density, dry, minimum (EN 12467)	Kg/m <sup>3</sup>	1250	1250	1250	1250	1250	1250	1250	1250
Density, dry, average (EN 12467)	Kg/m <sup>3</sup>	1350	1350	1350	1350	1350	1350	1350	1350
Weight (7,5 % moisture)	Kg/m <sup>2</sup>	8.7	11.6	8.7	11.6	8.7	11.6	8.7	11.6
Moisture content (on dispatch ex works, ASTM C1185)	%	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10

### Physical properties (P020, P222, P343, P565, P626)

Density, dry, minimum (EN 12467)	Kg/m <sup>3</sup>	1250	1250	1250	1250	1250	1250	1250	1250
Density, dry, average (EN 12467)	Kg/m <sup>3</sup>	1460	1460	1460	1460	1460	1460	1460	1460
Weight (7,5 % moisture)	Kg/m <sup>2</sup>	9.4	12.5	9.4	12.5	9.4	12.5	9.4	12.5
Moisture content (on dispatch ex works, ASTM C1185)	%	5-10	5-10	5-10	5-10	5-10	5-10	5-10	5-10

### Mechanical properties

#### Bending modulus of elasticity

Dry E-module with grain	GPa	16	16	16	16	16	16	16	16
Dry E-module across grain	GPa	14	14	14	14	14	14	14	14
Wet E-module with grain	GPa	12	12	12	12	12	12	12	12
Wet E-module across grain	GPa	10	10	10	10	10	10	10	10

#### Bending strength

Dry with grain	MPa	32	32	32	32	32	32	32	32
Dry across grain	MPa	22	22	22	22	22	22	22	22
Wet with grain	MPa	28	28	28	28	28	28	28	28
Wet across grain	MPa	19	19	19	19	19	19	19	19

#### Interlaminar bond

Dry	MPa	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Wet	MPa	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

#### Impact strength (Charpy)

Dry with grain	kJ/m <sup>2</sup>	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Dry across grain	kJ/m <sup>2</sup>	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

#### Thermal properties

Heat conductivity	W/m °C	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Coefficient of thermal expansion	mm/m °C	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Temperature range	°C	Max 150	Max 150	Max 150	Max 150	Max 150	Max 150	Max 150	Max 150
Frost resistance	Cycles	>100	>100	>100	>100	>100	>100	>100	>100

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### Hygrothermal properties

Water absorption (wet over dry) %		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Wet-dry-wet (max)	mm/m	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6

### Water vapour transmission properties (23°C - 50/93% RH)

Vapour permeance	ng/m <sup>2</sup> s Pa	700	550	700	550	700	550	700	550
Vapour transmission resistance	Gpa s m <sup>2</sup> /kg	1.4	2.3	1.4	2.3	1.4	2.3	1.4	2.3
Vapour transmission resistance	s/m	10,300	16,900	10,300	16,900	10,300	16,900	10,300	16,900
Vapour resistivity	MNs/gm	227	227	227	227	227	227	227	227
Vapour resistance factor, $\mu$		45	45	45	45	45	45	45	45

### Tolerances (ref. EN 12467)

Thickness	mm	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Length	mm	±	±	±	±	±	±	±	±
Width	mm	±	±	±	±	±	±	±	±

### Other properties

Category, Class	EN 12467	NT A4 I	NT A4 I	NT A4 I	NT A4 I	NT A4 I	NT A4 I	NT A4 I	NT A4 I
Fire rating	EN 13501	A2-s1, do	A2-s1, do	A2-s1, do	A2-s1, do	A2-s1, do	A2-s1, do	A2-s1, do	A2-s1, do