CEMBRIT

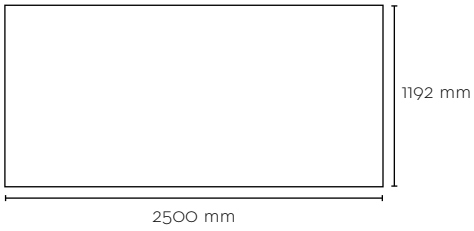
Cembrit Patina

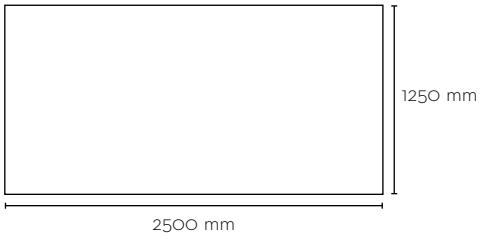
Facade

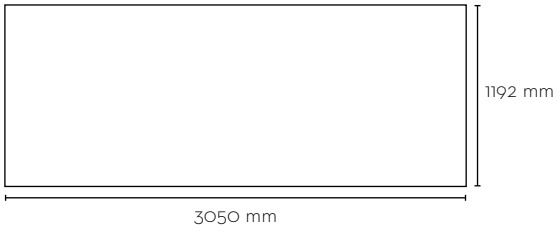
Cembrit Patina has a natural, textured surface. You can see the fibre and natural characteristics of the raw materials, and you can see and feel the sanding lines on the surface. As the seasons change and the years pass, the natural ageing of the fibre cement leaves subtle traces on the surface, and the facade will gradually acquire a distinctive patina.

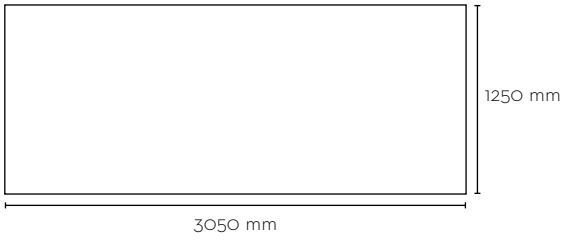
The variations in the colours of the board will create a facade richly evocative of history and life. Cembrit facade boards are a high quality fibercement used as a part of a ventilated facade solution on all types of constructions.

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									
Density, dry	Kg/m³	1500	1500	1500	1500	1500	1500	1500	1500
Weight	Kg/m²	10.2	13.6	10.2	13.6	10.2	13.6	10.2	13.6
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/m²	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Dry across grain	kJ/m²	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/m² s Pa	700	550	700	550	700	550	700	550
Vapour transmission resistance	Gpa s m²/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, μ		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	±2	±2	±2	±2	±2	±2	±2	±2
Width	mm	±1	±1	±1	±1	±1	±1	±1	±1

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, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0

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