

CEMBRIT

Cembrit Plank Original, Cembrit Plank Connect, Cembrit Panel

Datasheet - Facade Boards

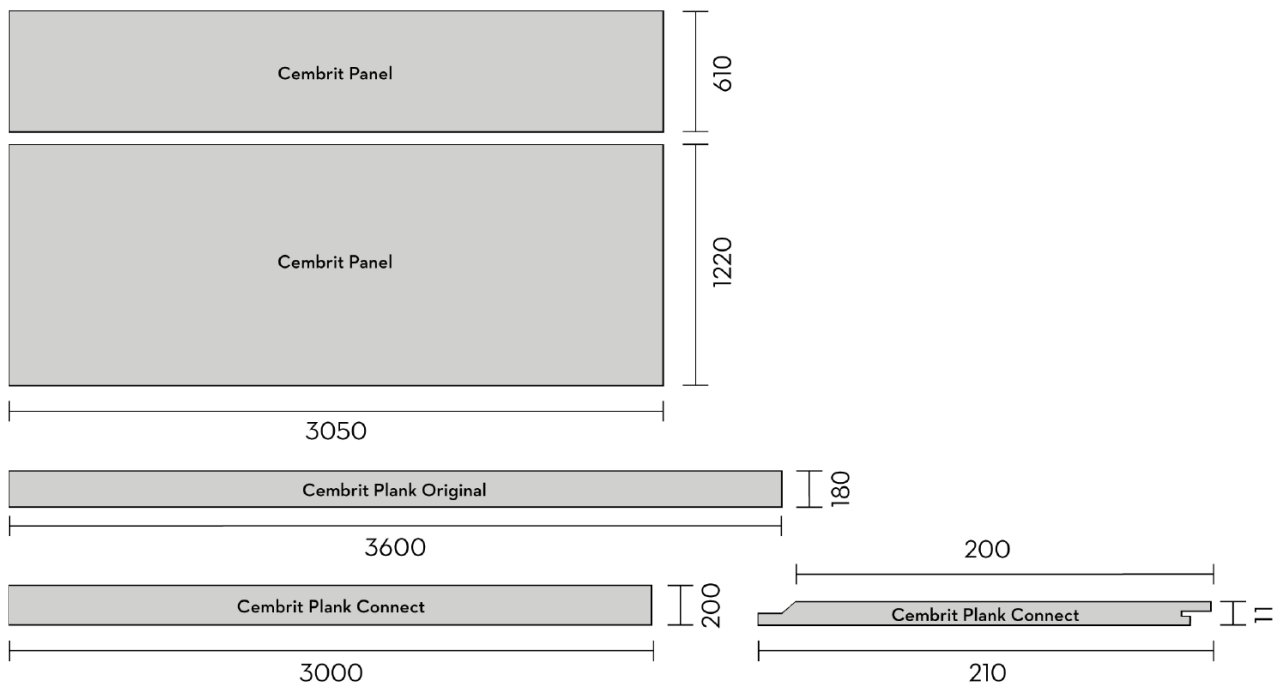
Cembrit Plank is a non-combustible and lightweight facade product that features a high pH value that makes it resistant to algae and bacteria and the growth of moss, fungi etc.

The planks are available in three variants. Cembrit Panel and Cembrit Plank Original are available in 15 colours with either smooth surface or cedar surface. Cembrit Plank Connect are available in 5 colours with cedar surface.

Main components are cement, silica sand, cellulose fibers, water and selected additives and can be mounted both horizontally and vertically. Ideal for replacement of wood on the facade due to the limited maintenance required.

Cembrit Plank are part of a complete system consisting of Cembrit Plank Original, Cembrit Plank Connect, Cembrit Panel, Cembrit Alu Trim and Cembrit Facade Screws. Making it easy to obtain a good- looking finish, all in matching colours.

Dimensions (nominal)		Cembrit Plank Original	Cembrit Plank Connect	Cembrit Panel
Thickness	mm	8	11	8
Width	mm	180	200	610 1220
Length	mm	3600	3000	3050



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Dimension tolerance (EN 12467, Level 1)		Cembrit Plank Original	Cembrit Plank Connect	Cembrit Panel
Thickness (non-textured) 6 mm < e ≤ 20 mm	mm	± 10 % e	± 10 % e	± 10 % e
Thickness (textured) 6 mm < e ≤ 20 mm	mm	-10 % e / +15 % e	-10 % e / +15 % e	-
Width (a < 1000mm)	mm	± 3	± 3	± 3
Width (1000mm < a < 1600mm)	mm	± 0,3% a	± 0,3% a	± 0,3% a
Length (1600mm < Length)	mm	± 5.0	± 5.0	± 5.0

*a is the nominal width or length, e is the nominal thickness

Physical properties

Density, dry minimum (EN12467)	kg/m ³	1200	1200	1200
Density, dry average (EN12467)	kg/m ³	1340	1340	1340
Weight (incl. 10% moisture)*	kg/m ²	11.8	15.8	11.8

* nominal value may vary depending on the conditions

Mechanical properties (EN 12467)

Flexural modulus				
E-module along grain, ambient	GPa	7	7	7
E-module across grain, ambient	GPa	7	7	7
E-module along grain, wet	GPa	5	5	5
E-module across grain, wet	GPa	6	6	6

Bending strength (EN 12467)

Along grain, ambient	MPa	11.8	12.6	11.8
Across grain, ambient	MPa	21.7	19.9	21.7
Along grain, wet	MPa	7.3	9.5	7.3
Across grain, wet	MPa	14.0	14.5	14.0

Thermal properties

Frost resistance (average along/across)	RL	≥ 0.75	≥ 0.75	≥ 0.75
Frost resistance (max. cycles RL > 0,75 EN12467)	Cycles	100	100	100

Hygrothermal properties

Water absorption (24 hrs 105°C, 24 hrs in water)	%	20.9	23	20.9
Moisture movement (30/90 % RH, EN 12467)	%	0.056	0.06	0.056
Water impermeability (EN 12467)	Visual	No drop	No drop	No drop

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Fire Performance		Cembrit Plank Original	Cembrit Plank Connect	Cembrit Panel	
Reaction to fire (EN 13501-1)	Rating	A2-s1, d0	A2-s1, d0	A2-s1, d0	
Other properties					
Category, class (EN12467)		NT A2 I	NT A2 I	NT A2 I	
Impact resistance test (ETAG 034, ISO 7892), 8 mm					
	Max.	Category IV	Category III	Category II	Category I
Hard body	1 Joule	Passed			
	3 Joules		Passed	Passed	Passed
	10 Joules			Passed	Passed
Soft body	10 Joules	Passed	Passed		
	60 Joules			Not passed	Not passed
	300 Joules			Not passed	
	400 Joules				Not passed
Evaluation		Passed	Passed	Not passed	Not passed

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