

Cembrit Construction

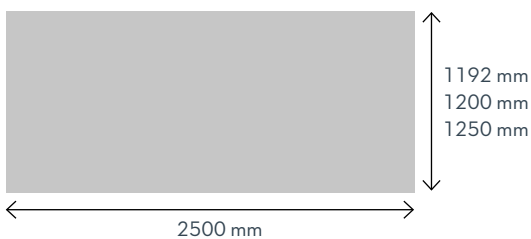
Datasheet

Cembrit Construction is an untreated fibre cement board that allows the authentic appearance of the rough fibre-cement to stand out. In nature, Cembrit Construction is a building board which can be installed for cladding purposes, when a natural and rough expression is desired.

Cembrit Construction is a natural material and variations may occur in the individual boards and from board to board, adding a lively expression to your facade. Cembrit Construction is a high quality fibercement building board used as both a building board as well as a part of a ventilated facade solution.

Dimensions	Thickness	Width mm	Length mm
Size	6 mm	1200 1250	2500
Size	8 mm	1192 1200 1250	2500/3050 2500/3050 2500
Size	10 mm	1192 1200	3050

Standard sizes



Project sales



www.cembrit.com

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

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Dimension						
Thickness	mm	3.2	4.0	6.0	8.0	10.0
Tolerances (ref. EN 12467)						
Thickness	mm	±0.6	±0.6	±0.6	±0.8	±1.0
Length	mm	±3	±3	±3	±3	±3
Width	mm	±2	±2	±2	±2	±2
Physical properties						
Density, dry, average (EN 12467)	Kg/m ³	1800	1800	1800	1800	1800
Density, dry, minimum (EN 12467)	Kg/m ³	1550	1550	1550	1550	1550
Weight (Average incl. 5% moisture)	Kg/m ²	6.1	7.6	11.3	15.1	18.9
Mechanical properties (EN 12467)						
Bending modulus of elasticity						
Ambient E-module with grain	GPa	21	21	21	21	21
Ambient E-module across grain	GPa	20	20	20	20	20
Wet E-module with grain	GPa	13	13	13	13	13
Wet E-module across grain	GPa	9	9	9	9	9
Bending strength (EN 12467)						
Ambient with grain	MPa	26	26	26	26	26
Ambient across grain	MPa	22	22	22	22	22
Wet with grain	MPa	20	20	20	20	20
Wet across grain	MPa	15	15	15	15	15
Interlaminar bond						
Dry	MPa	-	-	min. 0.5	min. 0.5	min. 0.5
Impacts strength (Charpy)						
Ambient with grain	kJ/m ²	-	-	2.7	2.7	2.7
Ambient across grain	kJ/m ²	-	-	2.0	2.0	2.0
Thermal properties						
Coefficient of thermal expansion	mm/m °C	0.008	0.008	0.008	0.008	0.008
Temperature range	°C	max. 105	max. 105	max. 105	max. 105	max. 105
Frost resistance (EN 12467)	Cycles	>100	>100	>100	>100	>100
Thermal conductivity (ISO 8301, EN 12667)	λ ₁₀ W/(mK)	-	-	-	0.48	-

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Hygrothermal properties						
Water absorption (wet over dry)	%	12.0	12.0	12.0	12.0	12.0
Wet-dry-wet (max)	mm/m	3	3	3	3	3
Water vapour transmission properties (EN 12572-C)						
Vapour transmission resistance (Z-value)	Gpa · m ² · s/kg	1.93	2.2	4.23	5.21	3.15
Vapour transmission resistance	s/m	14146	16130	31023	38185	23106
Vapour diffusion equivalent air layer thickness	Sd (m)	0.37	0.43	0.82	1.01	0.61
Vapour resistivity	MNs/(g · m)	596	522	653	651	307
Vapour resistance factor	μ	116	102	127	127	59.4
Vapour resistance	MNs/g	1.9	2.2	4.2	5.2	3.2
Vapour transmission	USPerm	9.1	8	4.1	3.4	5.6
Fire performance						
Reaction to fire	EN 13501	-	-	A2-s2, d0	A2-s1, d0	A2-s1, d0
ASTM E136	Flaming test	Pass	Pass	Pass	Pass	Pass
ASTM E84	Flame spread index	-	-	-	0	-
	Smoke development index	-	-	-	10	-
	Flame spread rating	-	-	-	0	-
CAN/ULC-S102-10	Smoke development classification	-	-	-	5	-
Other properties						
pH surface		11	11	11	11	11
Category, Class	EN 12467	NT A3 I	NT A3 I	NT A3 I	NT A3 I	NT A3 I

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Soft- and hard body impact resistance (ETAG 034, ISO 7892), 8 mm

Type of impact	Energy	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	-	-	not passed	not passed
	300 Joule	-	-	not passed	-
	400 Joule	-	-	-	not passed

Soft- and hard body impact resistance (ETAG 034, ISO 7892), 10 mm

Type of impact	Energy	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
