

## Cembrit Structure and Cembrit Structure Design

### Datasheet

---

Cembrit Structure is a fiber cement facade board with a glass pearl, fully painted structured surface in 5 standard colours or with more than 1000 NCS® colours to choose from. Cembrit Structure Design are being added a secondary colour thereby giving it a velvety rich surface.

The products specially developed structure keeps the board clean for many years as raindrops creates a swirling movement, washing away the dirt that accumulates on the surface. We offer a full product portfolio for Structure boards, which will ensure easy installation and guarantee a good looking facade for many years.

---

Dimensions	Thickness	Width mm	Length mm
Size	8 mm	1192	2500/3050

---

#### Standard sizes



#### Project sales



---

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

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

## Cembrit Structure and Cembrit Structure Design

<b>Dimension</b>		
Thickness	mm	8.0
<b>Tolerances (ref. EN 12467)</b>		
Thickness	mm	±0.8
Length	mm	±3
Width	mm	±2
<b>Physical properties</b>		
Density, dry, average (EN 12467)	Kg/m <sup>3</sup>	1800
Density, dry, minimum (EN 12467)	Kg/m <sup>3</sup>	1550
Weight (Average incl. 5% moisture)	Kg/m <sup>2</sup>	15.1
<b>Mechanical properties (EN 12467)</b>		
Bending modulus of elasticity		
Ambient E-module with grain	GPa	21
Ambient E-module across grain	GPa	20
Wet E-module with grain	GPa	13
Wet E-module across grain	GPa	9
<b>Bending strength (EN 12467)</b>		
Ambient with grain	MPa	26
Ambient across grain	MPa	22
Wet with grain	MPa	20
Wet across grain	MPa	15
<b>Impacts strength (Charpy)</b>		
Ambient with grain	kJ/m <sup>2</sup>	2.7
Ambient across grain	kJ/m <sup>2</sup>	2.0
<b>Thermal properties</b>		
Coefficient of thermal expansion	mm/m °C	0.008
Temperature range	°C	max. 105
Frost resistance (EN 12467)	Cycles	>100

## Cembrit Structure and Cembrit Structure Design

<b>Hygrothermal properties</b>					
Water absorption (wet over dry)		%		12.0	
Wet-dry-wet (max)		mm/m		3	
<b>Other properties</b>					
Category, Class		EN 12467		NT A3 I	
<b>Fire performance</b>					
Reaction to fire		EN 13501		A2-s1, d0	
<b>Soft- and hard body impact resistance (ETAG 034, ISO 7892), 8 mm</b>					
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