

Cembrit Plank / Panel

Datasheet - Facade Boards

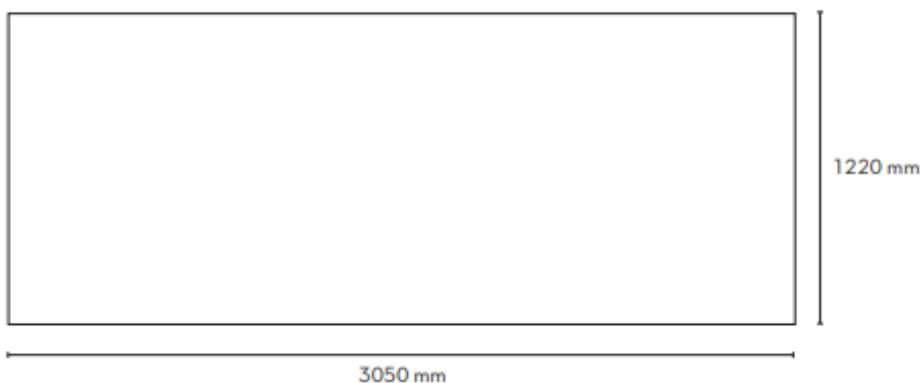
Cembrit Plank is a non-combustible and lightweight facade product that features a high pH value that makes it resistant to algae and bacteria and the growth of moss, fungi etc.

The planks are available in two variants, Cembrit Plank Original and Cembrit Panel and are available in 15 colours with either a smooth surface and cedar texture.

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 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 | Cembrit Panel |
|----------------------|----|---------------|---------------|
| Thickness | mm | 8.0 | 8.0 |
| Width | mm | 180 | 610 1220 |
| Length | mm | 3600 | 3050 |



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| Dimension tolerance (EN 12467, Level 1) | | Cembrit Plank | Cembrit Panel |
|---|----|---------------|---------------|
| Thickness (non-textured) | mm | ± 0.8 | ± 0.8 |
| Thickness (textured) | mm | -0.8 / +1.2 | |
| Width (a < 1000mm) | mm | ± 0,3 | ± 0,3 |
| Width (1000mm < a < 1600mm) | mm | | ± 0,3% a |
| Length (1600mm < Length) | mm | ± 5.0 | ± 5.0 |

Physical properties

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

* nominal value may vary depending on the conditions

Mechanical properties (EN 12467)

| Flexural modulus | | | |
|--------------------------------|-----|-----|-----|
| E-module along grain, ambient | GPa | 6.9 | 6.9 |
| E-module across grain, ambient | GPa | 7.4 | 7.4 |
| E-module along grain, wet | GPa | 5.6 | 5.6 |
| E-module across grain, wet | GPa | 5.6 | 5.6 |

Bending strength (EN 12467)

| | | | |
|-----------------------|-----|------|------|
| Along grain, ambient | MPa | 11.8 | 11.8 |
| Across grain, ambient | MPa | 18.8 | 18.8 |
| Average, Ambient | MPa | 14.5 | 14.5 |
| Along grain, wet | MPa | 7.61 | 7.61 |
| Across grain, wet | MPa | 13.4 | 13.4 |
| Average, Wet | MPa | 10.5 | 10.5 |

Thermal properties

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

Hygrothermal properties

| | | | |
|--|--------|---------|---------|
| Moisture movement (30/90 % RH, EN 12467) | % | 0.038 | 0.038 |
| Water impermeability (EN 12467) | Visual | No drop | No drop |

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| Fire Performance | | Cembrit Plank | Cembrit Panel | | |
|---|------------|---------------|---------------|-------------|------------|
| Reaction to fire (EN 13501-1) | Rating | A2-s1, d0 | A2-s1, d0 | | |
| Other properties | | | | | |
| Category, class (EN12467) | | 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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