

Cemtone Fibre Cement Board

A cement sheet, 6 to 18 mm thick, screw-fixed to a galvanised or steel frame.
Used for walls, ceilings, floors, floor underlay, sub roof and facade.

The board

Cement, silica sand, high-performance additives and cellulose fibre, cured in an autoclave. Superheated steam and high pressure enhance the chemical reaction between the cement and the silica. Cemtone states that this gives improved strength, lower moisture movement and high fire resistance.

SHEET	
SIZE	1220 × 2440 mm
THICKNESS	6, 8, 9, 10, 12, 15, 18 mm
CUSTOM	Custom sizes can be manufactured to meet specific project requirements

Size, thickness and weight

THICKNESS	6 MM	8 MM	9 MM	10 MM	12 MM	15 MM	18 MM
kg per sheet, 1220 × 2440 mm	24	32	36	40	48	60	72
kg per m ²	8.1	10.7	12.1	13.4	16.1	20.2	24.2

Sizes, thicknesses and weights are approximate. Use kg per sheet for a dead load and kg per m² for a floor or ceiling loading.

Physical and mechanical properties

PROPERTY	STANDARD	UNIT	STATED RANGE	MEASURED
Density	ASTM C1185	kg/m ³	1,250–1,450	1310.59
Modulus of rupture (dry)	ASTM C1185	MPa	> 10	12.63
Direct screw withdrawal strength	ASTM D1037	N	> 1750	2030.55
Thermal conductivity	ASTM C177	W/(m·K)	< 0.25	0.21
Linear coefficient of thermal expansion	ASTM D696	mm/mm/°C	7 × 10 ⁻⁶ to 10 × 10 ⁻⁶	8 × 10 ⁻⁶
pH value	Litmus test	—	10–12	11.60
Moisture content	ASTM C1185	%	< 15	12.00

Every measured figure falls inside the stated range. Independently tested. Laboratory report held on file and available to specifiers on request.

The measured column is one sample, tested on one date. It is material data for that sample. It is not a statement about continuing production, and no product conformity scheme, factory audit or system assessment stands behind it. Confirm them against a current test record before relying on them in a specification.

Management-system certification

Cemtone operates quality, environmental and occupational health and safety management systems certified to ISO 9001, ISO 14001 and ISO 45001. The certifying body is QSCert.

ISO 9001 : 2015

Quality management system

ISO 14001 : 2015

Environmental management system

ISO 45001 : 2018

Occupational health and safety management system

These certify the management system, not the board. They are not a product conformity assessment and say nothing about the properties above. Certificate numbers, issue and expiry dates and the certified scope have been requested and are not yet published.

Durability and fire

Durability – BS EN 12467

TEST	STANDARD	STATED	MEASURED
Impermeability	BS EN 12467	Pass	Pass
Freeze–thaw resistance	BS EN 12467	Pass	Pass
Heat–rain resistance	BS EN 12467	Pass	Pass
Warm water resistance	BS EN 12467	Pass	Pass
Soak–dry resistance	BS EN 12467	Pass	Pass

Independently tested. Laboratory report held on file and available to specifiers on request. No BS EN 12467 category or class is published.

Fire

TEST	STANDARD	STATED	MEASURED
Non-combustibility	ISO 1182	Non combustible	Non combustible

Independently tested. Laboratory report held on file and available to specifiers on request.

Non-combustible is a result about the material. It is not a fire-resistance rating for a wall. ISO 1182 tests whether the board itself contributes to a fire. It does not.

A fire-rated wall, shaft or ceiling is a complete assembly — board, framing, fixings, cavity and insulation — tested together for a period in minutes. **No tested period in minutes is published for any Cemtone assembly.** Any period your specification needs has to come from a test of that assembly.

Thickness by application

APPLICATION	6 MM	8 MM	9 MM	10 MM	12 MM	15 MM	18 MM
Sub roof	•	•	•	•	•	•	•
Ceiling	•	•	•	•	•	•	•
External wall / facade system	•	•	•	•	•	•	•
Interior wall	•	•	•	•	•	•	•
Internal wall underlay	•	•	•	•	•	•	•
External / internal floor	•	•	•	•	•	•	•
Floor underlay	•	•	•	•	•	•	•

• suitable. More than 12 mm is recommended for exterior applications, or as specified by project requirements.

What is not published

- **Price.** Cemtone publishes no prices. Ask for a quotation.
- **A fire resistance period in minutes for an assembly.** The material result is on page 2. No tested period for a complete wall, shaft or ceiling is published.
- **Acoustic performance.** No sound reduction figure is published.
- **Wind load and allowable span for facade use.** Fastener pull-through under wind suction is a different test from screw withdrawal. No figure for either is published.
- **Screw type, gauge, length or grade,** and the framing section and gauge. Spacing only, as above.
- **Putty, primer, sealer and coating coverage.** No coverage figure is published, so no quantity is given.
- **BS EN 12467 category and class.** Not published.
- **Product conformity and factory production control.** The certifications on page 2 cover the management system, not the board. Certificate numbers, dates and scope are requested and not yet published.

If a specification needs any of these, state what you need and for which assembly, and Cemtone will say plainly whether it can be supported.

Fixing and framing

Distances that hold for every application

RULE	DISTANCE
Gap between boards	2–3 mm, or a butt joint
Screws at board edges	200–300 mm apart
Screws in the central area	300–400 mm apart
Clear of a corner	75 mm
Clear of an edge	30 mm
Wall framing clear of the floor	100 mm

Or as specified by project requirements. The 100 mm keeps boards and steel studs away from water. Drill pilot holes before installing screws. Position each board so the joint is centred on the stud frame, and provide a stud frame at every board joint.

The engineer has the last word

NOTE: These recommendations are provided as general manufacturer guidance. All site installation work should be carried out in accordance to engineer specifications.

The distances on this page are Cemtone's general guidance for the board. They are not a structural design, and they do not replace the fixing schedule for your project.

Framing by application

APPLICATION	THICKNESS	FRAMING AND SPACING
Internal wall	9–12 mm	Verticals 400 ±10 to 600 ±10 mm · horizontals 2440 mm
External wall	More than 12 mm, or as specified	Verticals 400 ±10 to 600 ±10 mm · horizontals 2440 mm
Wall underlay, ceramic tiles	9–12 mm	Verticals 400 ±10 to 600 ±10 mm · horizontals 2440 mm · a stud frame at every fixing point for a mounted fixture, such as a basin or sanitary ware
Ceiling	6–9 mm	Frames every 400 ±10 to 600 ±10 mm
Sub roof	9–15 mm	As per requirement, or as specified by the project engineer
External / internal floor	12, 15, 18 mm	Frames every 400 ±10 × 400 ±10 mm · boards in a 1:2 staggered pattern
Floor underlay on a cement floor	9–12 mm	Laid on the cement floor in a 1:2 staggered pattern · concrete nails every 200 mm

Framing is galvanised or steel, as required, or as specified by the project engineer. No framing section or gauge is published.

Finishing

WHERE	FINISH
Every board joint	Mesh tape over the joint, then Cemtone Putty in all joints and screw holes
Wall and ceiling	Damp cloth, Cemtone Primer, 100% acrylic paint. For a gloss finish, at least two coats of semi-gloss acrylic or polyurethane paint
Wall underlay, ceramic tiles	Damp cloth, then Cemtone Sealer
Sub roof	Damp cloth, then Cemtone PU Coating

Cemtone Putty, Primer, Sealer and PU Coating are the recommended products. No coverage figure is published for any of them, so no quantity is given.

Contact

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