

# SHERA board

SHERA Board is a non-asbestos fibre-cement product composed of Portland cement, cellulose fibre and refined sand. Using a manufacturing process called autoclave, our board acquires the strength and durability of cement and easy workability of wood as well as dimensional stability.

A non-combustible, multi purpose, multi application fibre-cement flat board, SHERA Board comes in various thicknesses which are suitable for numerous applications; ceiling, wall, and floor. It can be used for both exterior and interior applications.



**Better Workability**



**Neat Finish**



**Paint Saving**



**Variety**

## Standard References

Norm	Kategorie	Beschreibung
ASTM	C1185, C1186-91	Flat Non-Asbestos Fibre-Cement sheets
ASTM	E90-97	Sound Transmission Loss of Building Partition
ISO	8336: 1993	Fibre-Cement Flat sheets
AS/NZS	2908.2: 2000	Cellulose Cement Product Part 2: Flat sheets
JIS	A5430 - 1995	Fibre Reinforced Cement Boards
EC Conformity	12467: 2004	Fibre-Cement Flat sheets
TIS	1427-2540	Fibre-Cement Flat sheets

## Building Material Class

SHERA Board is 'non combustible' and correspond to materials in building material class A2-s1, d0 (s1 = no smoke, d0 = no combustible drips), in accordance with EN13501-1



## Product Information

Size (mm)	Thickness (mm)	Weight (kg)	Edge Profile	Application
1200 x 2400	4	18.00	Square-cut edge	• Internal ceiling
1220 x 2440		18.61		
1200 x 2400	6	27.00	Square-cut edge/ Recessed edge	• Internal / External ceiling
1220 x 2440		27.91		
1200 x 2400	8	36.00	Square-cut edge/ Recessed edge	• Internal partition • External wall cladding • Wet area and tile backing • Floor underlay
1220 x 2440		37.21		
1200 x 2400	9, 10	40.50	Square-cut edge	• External wall cladding • Wet area and tile backing • Floor underlay
1200 x 2400		41.86		
1220 x 2440		45.00		
1220 x 2440		46.51		
1200 x 2400	12	54.00	Square-cut edge/ Recessed edge	• External wall cladding • Wet area and tile backing • Floor underlay
1220 x 2440		55.82		
1200 x 2400	15	66.27	Square-cut edge	• Internal partition with special requirement • Elevated Floor
1220 x 2440		68.50		
1200 x 2400	18	79.52	Square-cut edge	• Internal partition with special requirement • Elevated Floor
1220 x 2440		82.20		
1200 x 2400	20	88.36	Square-cut edge	• Internal partition with special requirement • Elevated Floor
1220 x 2440		91.33		

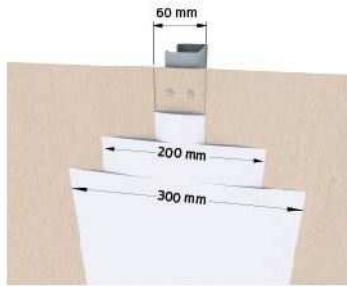


No. 041-005  
Made from 30 % Recycled Materials

## Flush Joint for *SHERA* Board, Recessed Edge

**First coat :** Fill the recessed area to the face of the sheet by using a jointing compound then embed the fibreglass mesh tape into the joint.

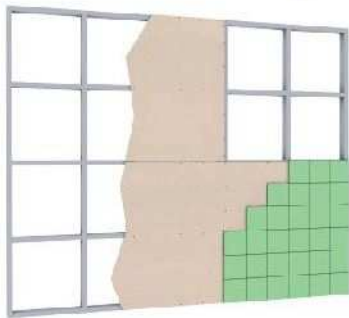
**Second coat :** Apply second coat at 200 mm width. Allow it to dry thoroughly before applying a finishing coat.



**Finishing coat :** Apply third coat at 300 mm width. Allow it to dry completely before sanding.



## Recommended Frame Specification – For Internal Partition



Recessed Edge



Square Edge

Galvanized steel frame No.24 (0.55 BMT) is recommended to be used as stud for internal partition using *SHERA* Board. Studs shall be fixed with spacing of 600 x 2,400 mm. Details of ideal stud sizes are shown as follows.



C 0.55 x 50 x 38 x 3000 mm



U 0.55 x 52 x 38 x 3000 mm

## Installation

**Tools :** No special tools are required. The products can be used with normal nails, fastened by normal or self-drilling screws and cut by an electric power saw with a diamond blade.

**Fixing :** *SHERA* Board can be fixed to both timber (minimum size 1.5 x 3 inches) or steel frames (at least 0.55 mm thickness). The board must be supported at the edge at intermediate positions with centres not exceeding 600 mm. Screws must be located more than 12 mm from edges and 50 mm from board corners.

**Fastener :** Fasteners can be nails or screws. It can be nailed directly to timber supports with round wire nails. For metal screws, the size and length of the screw depends on the thickness of the board and the gauge of framing. Pre-drilling the board is a must unless self-embedding, self-drilling head screws such as *SHERA* Fix-W32 (for fixing 8 – 12 mm board to steel frame), *SHERA* Fix-B20 (for fixing 4 – 6 mm board to galvanized steel frame) and *SHERA* Fix -W45G8 (for fixing 15 – 20 mm board to steel frame) are used.

**Jointing :** Since fibre-cement board is subject to slight dimensional changes, a butt joint can be used in dry partitioning areas or where an exposed joint appearance is acceptable. For better water protection, either flexible acrylic or polyurethane based sealant can be used to seal gaps of 3-5mm.

## Technical Data

Physical properties	
1. Thickness Tolerance	± 6%
2. Density	1,300 ± 50 kg/m <sup>3</sup>
3. Modulus of Rupture	> 7 MPa (Wet)
4. Modulus of Elasticity	5500 ± 50 MPa (Wet)
5. Water Absorption	≤ 35%
6. Moisture Content	≤ 12%
7. Water tightness	Pass
8. PH-Value	7-8
9. Thermal Conductivity	0.15 W/m.K
10. Acoustic Insulation	STC = 30 dB (6 mm single board) STC = 50 - 60 dB (10 mm composite wall)
11. Moisture Movement	0.04%
Fire resistance properties	
12. Ignitibility	Pass
13. Fire propagation index	I = 0.1
14. Surface spread of flame	Class 1
15. Reaction to Fire Classification	A2-s1, d0
Durability properties	
16. Freeze/Thaw resistance	Pass
17. Warm water resistance	Pass
18. Heat/Rain resistance	Pass
19. Soak/Dry resistance	Pass

## Transportation, Handling and Storage

Deliver *SHERA* Board to project site in original, unopened package and store them in fully enclosed space where they will be protected against damage from humidity, direct sunlight, surface contamination and other causes. Handle *SHERA* Board carefully to avoid chipping of edges or damaging the units in any way. Handling and storage practices should follow manufacturer's suggestions at all times.