

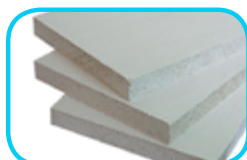


## Specification Sheet

### Genesis Acoustic Board

Genesis Acoustic Board is an eco-friendly building product. It is homogeneous with no delamination. It is virtually impervious to fire, water, insects, mould & mildew; is non-toxic, non-combustible and maintains its dimensional stability even when wet.

- Can be cut & shaped with ordinary wood working tools.
- Fire resistant; zero flame spread and smoke developed rating.
- Impervious to water (when submerged for extended periods of time it experiences no dimensional changes)
- Mould and mildew resistant.
- No chemicals in its formula.
- Excellent acoustic and thermal insulation qualities.
- Both Eco-friendly and a Green Building Product, the manufacturing process is also eco-friendly.
- 100% recyclable.
- Good weatherability characteristics; it has been subjected to some of the toughest testing conducted on building materials today and has passed with good results.
- Very stable, when subjected to temperature changes, it does not expand or contract much.
- Impervious to insects including termites and sugar ants.
- Excellent strength characteristics.
- Will save substantially on labour and material costs and duration of projects due to the ease of application.
- Non-toxic, free of carcinogens and contains no silica.



| Description: | Thickness: | Board Size:   |
|--------------|------------|---------------|
| Interior     | 9mm        | 1220 x 2700mm |
|              | 12mm       | 1220 x 2700mm |
| Exterior     | 9mm        | 1220 x 2700mm |
|              | 12mm       | 1220 x 2700mm |

#### Main Uses of Genesis Acoustic Board:

- Soundproofing of ceilings & dry walling. Can be used together with Green Glue for best results.
- Soundproofing under roof sheeting
- Building soundproof housing for noisy compressors & generators
- Soundproofing of flooring bases (instead of marine ply and shutter board)



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### Technical Data:

- Combustibility: A1 Grade non-combustible (GB 8624) SABS: SANS 10177 P.2
- Environmentally friendly: Green / Ranked as a building material
- Length: 2700mm
- Width: 1220mm
- Thickness: 9mm and 12mm
- Density: 0.9 – 1.05g/cm<sup>3</sup>
- Thermal conductivity: 1.14m<sup>2</sup> k/w (GB/T 13475-92)
- Moisture absorption rate: ≤7%
- Freezing resistance: -30°C
- Mould & mildew proof: Resistant
- Permeability: Impervious to water. Non-absorption ratio: ≥95%
- Bending strength: ≥16 Mpa
- Impact strength: ≥2.2 KJ/m<sup>2</sup>
- Shrinking rate when cold: <0.2%
- Expansion when heated: <0.3%
- Parallel deviation: ±4mm
- Thickness deviation: 8%
- Alkalinity: PH 7
- Tensile strength: ≥6Mpa
- Compressive strength: ≥1.5Mpa
- Colour: White
- Screw grip force: ≥18N/M
- Pollution: Pollution free
- Content of harmful substances: 100% free of any
- Moisture content: ≤9%
- Dryness retraction: ≤0.28%
- Wet inflation rate: ≤0.05%
- Natural expansion: ≤0.09%• Non-toxic, free of carcinogens and contains no silica.



| Acoustical Assembly Test Results ASTM E90                   |                    |                   |        |
|---|--------------------|-------------------|--------|
| 9mm thick Genesis Acoustic Board VS 15mm thick Gypsum Board |                    |                   |        |
| 15mm Gypsum +   | Metal stud & batts | 15mm Gypsum =     | STC 43 |
| 9mm Genesis Board +   | Metal stud & batts | 9mm Genesis Board | STC 48 |

**To further increase the sound transmission loss of a drywall, floor or ceiling assembly, Green Glue viscoelastic sound-proofing can be used together with the Genesis acoustic boards. See here for more info.**





## Specification Sheet

### Board Handling Instructions:

#### Do:

- Carry boards upright
- Store boards flat
- Wear gloves for ease of handling
- When cutting boards with a circular saw, do so in a well-ventilated area – it creates a lot of dust
- Wear eye protection & a mask when cutting with a saw
- Score & snap boards to the required size
- Drill pilot holes first, when fixing screws near to the edge

#### Do Not:

- Knock the edge of the board
- Drag or slide boards on the edge
- Slide boards over the edge of the board below it, the pressure can crack a tapered edge
- Sit, stand or lie on boards
- Handle board on tapered edges
- Stack or lean boards upright
- Store boards on surface that is significantly shorter than boards (e.g. small pallet) or on an uneven surface
- Stack boards with edges extended beyond the rest of pile
- Handle boards in high wind