

TECHNICAL DATA SHEET

MCW Wood Wool Wall Panel

HIGH-IMPACT ACOUSTIC SOLUTION



Wood Wool is a robust acoustic panel manufactured from recycled natural wood fibres, cement and water. Its open, interwoven surface helps reduce reflected sound and control reverberation, while the mineral-bound construction provides the durability required in demanding public, education, leisure and commercial interiors.

Panels can be installed as a wall lining, suspended vertically as baffles or hung horizontally as ceiling rafts. The material can be kept in its natural finish or coloured to suit the interior scheme, allowing the acoustic treatment to form either a quiet background surface or a deliberate design feature.

Composition	Recycled natural wood fibres, cement and water
Standard thicknesses	15, 25, 35 and 50 mm
Strand widths	Ultra Fine 1 mm, Superfine 1.5 mm and Fine 3 mm
Acoustic range	Up to α_w 0.90, depending on mounting depth
Reaction to fire	Euroclass B-s1,d0, subject to current certification
Manufacturing standards	EN 13168; suspended-ceiling applications referenced to EN 13964

Three installation formats

The same textured Wood Wool material can be configured in three distinct ways to meet the visual, acoustic and servicing requirements of the space.

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Wall panels

Direct-fixed or framed wall panels create a durable sound-absorbing surface that can cover a full elevation or form geometric feature. Their impact-resistant construction makes them well suited to circulation areas, classrooms, sports settings and other busy interiors.

Ceiling baffles

Vertical baffles expose both principal faces to the room, making effective use of high-level space where a continuous ceiling treatment is not suitable. Baffle spacing, depth and suspension height can be coordinated around lighting and building services.



Ceiling rafts

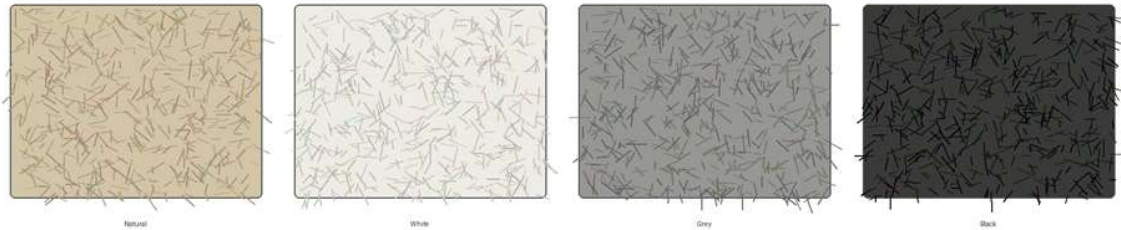
Horizontal rafts provide targeted absorption over meeting, teaching, dining or activity zones while retaining access to the soffit. Individual rafts may be arranged in regular grids or staggered layouts to create a stronger architectural feature.



Design options

Finish and colour

Four standard colours are available: Natural, White, Grey and Black. Further colours can be produced to coordinate with recognised colour systems such as RAL, NCS and BS palettes; availability and colour matching should be confirmed at enquiry stage.

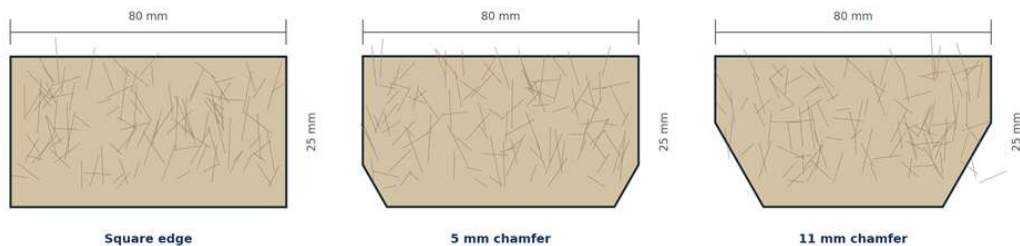


Strand width and panel depth

The visible fibre character can be selected in Ultra Fine 1 mm, Superfine 1.5 mm or Fine 3 mm strands. Standard panel thicknesses are 15, 25, 35 and 50 mm. The selected combination changes the visual texture, weight and suitability for the proposed format.

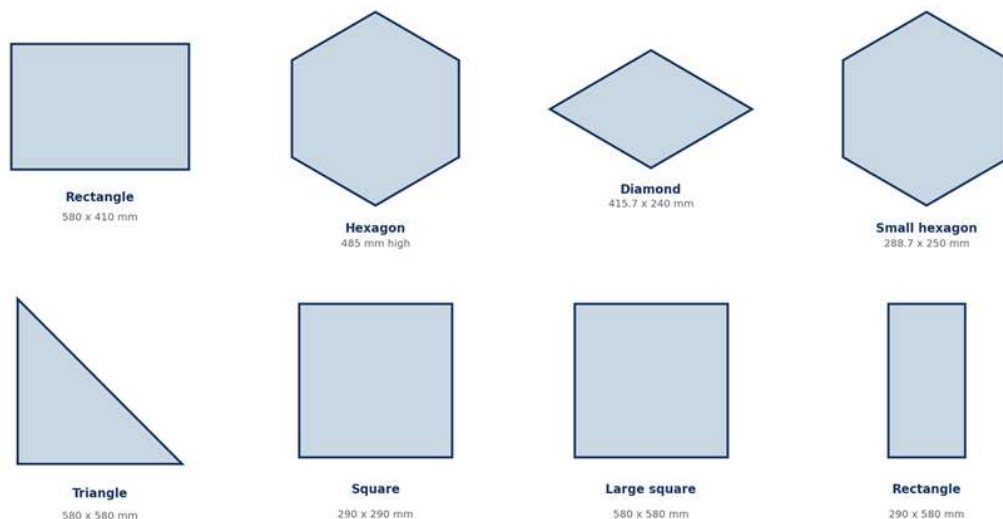
Edge profiles

Choose a square edge for a crisp joint line, or a 5 mm or 11 mm chamfer to emphasise the module and create a deeper expressed joint.



Standard shapes

Panels can be supplied in square, rectangular, triangular, diamond and hexagonal modules. The examples below reproduce the standard shape dimensions shown in the source datasheet; bespoke cutting should be confirmed before order.

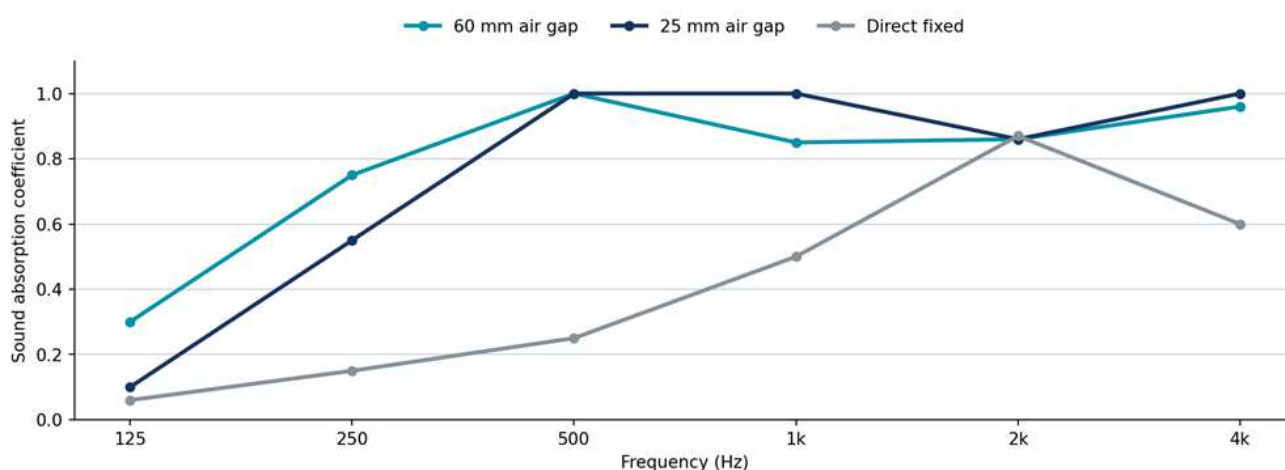


Acoustic performance

Sound absorption was tested in accordance with BS EN ISO 354. The results demonstrate how mounting depth influences low- and mid-frequency performance. Absorber classifications are stated in accordance with BS EN ISO 11654:1997.

Mounting	.25	.50	.600	1k	2k	4k	aw	IRC	Class
60 mm air gap	.30	.75	.00	.85	.86	.96	.90	.87	A
25 mm air gap	.10	.55	.00	.00	.86	.00	.85	.85	B
Direct fixed	.06	.15	.25	.50	.87	.60	.70	.44	C

Octave-band centre frequency (Hz)



Dimensions and weight

Panel thickness	Module width	Nominal absorber weight
25 mm	600 and 1200 mm	11.0 kg/m ²

The source datasheet provides the above weight only for the 25 mm panel. Confirm other thicknesses, sizes and weights for the proposed wall, baffle or raft configuration.

Durability and compliance

- Manufactured to the harmonised EN 13168 product standard for cement-bonded wood-wool products.
- Suspended-ceiling applications are referenced to EN 13964 in the source information.
- The source datasheet identifies suitability for high-impact areas and references EN 15312 for indoor ball-activity environments.
- Euroclass B-s1,d0 reaction-to-fire classification is stated; current project-specific certification must be checked before specification.

Applications and installation

Typical environments

Wood Wool is suitable for spaces where reverberation control, a durable finish and architectural texture are required.

Schools and learning areas

Sports halls and gymnasia

Leisure facilities

Music studios and venues

Conference centres and auditoria

Offices and business areas

Restaurants, bars and hotels

Showrooms and public spaces

Installation principles

Wall panels. Panels may be fixed directly to a suitable wall or installed over a timber or metal support frame. Set out from a clear centre line and coordinate joints, edges and perimeter details before fixing.

Ceiling baffles. Suspend vertically using a compatible proprietary suspension system designed for the panel weight and required spacing. Coordinate suspension points with the primary structure and all ceiling services.

Ceiling rafts. Suspend horizontally using approved cables, threaded rods or brackets. Maintain the designed air space around and above each raft so both the acoustic intent and access requirements are preserved.

Flat linings. The source guidance shows panels fixed to 80 x 30 mm timber battens or metal CD profiles, with supports at up to 600 mm centres subject to the panel module and design load. Mineral wool may be introduced behind the panels where required by the tested acoustic build-up.

Fixing responsibility: All baffle, raft and high-level fixings must be selected for the actual panel weight, substrate and loading conditions, and installed by a competent specialist.

Care and maintenance

Remove surface dust periodically using a vacuum cleaner with a soft brush attachment. Small areas of cosmetic damage may be touched in or spray-finished with a compatible matching colour. The surface can age naturally when exposed to ultraviolet light.

Environmental conditions and limitations

- Reference condition: approximately 23°C and 50% relative humidity.
- Allow for a possible dimensional change of $\pm 1\%$.
- The source information states suitability at constant humidity up to 90%.
- Where relative humidity will remain at 80% or above, obtain construction-physics advice before specification.
- Panels should be ordered for the confirmed application and installed by skilled trades or a specialist contractor.

Design support

MCW Acoustic Supplies can assist consultants, architects and contractors with product selection and reverberation-control guidance. Site-specific acoustic assessment can be used to estimate the treatment area and mounting arrangement required to meet the design objective.

Specification note: Technical values have been reworked from the supplied source datasheet. Confirm sizes, suspension details, loading, acoustic build-up, colour tolerances and current certification before publishing or specifying the product.