

Cement Particle Board

MULTI-PURPOSE PARTICLE BOARD FOR FLOORS AND CEILINGS



Product Code: 18mm:1245, 22mm:1246

1200mm x 600mm x 18mm & 22mm thick high mass, t&g cement particle board for floors, walls & ceilings

JCW Acoustic Cement Particle Board is a high density overlay acoustic product suitable for floors and ceilings, specially designed to add concentrated mass. Used where there is a requirement for a high performance result in acoustic control and fire retardance.

Ceiling Improvement: JCW 18mm T&G Cement Bonded Particle Boards will improve the overall acoustic performance based on the boards mass content and the ability to reduce sound leakage via T&G jointing.

Resilient Bars: JCW 18mm T&G Cement Bonded Particle Boards supported on Single Fix resilient bars (max weight approx 30kg.m²) or Twin Fix resilient bars (max weight approx 50kg.m²) will considerably improve the airborne and impact performance.

Flooring with a resilient layer: see Deck 34, Deck 37 & Soundboard 28 Plus data sheets.

Produced to BS EN 634 Parts 1 & 2 (CE Marking to EN 13986) governing particle boards and wood based panels tensile strength, mechanical properties, density, load factors and resistance to humidity, frost and hard body impact.

Density (average): 1300kg/m³

- Thickness Tolerances:** +/- 1mm
- Length:** +5mm
- Width:** +5mm
- Squareness:** -2.5mm on panel diagonal difference

Surface Alkalinity: pH between 11 and 13
Moisture Content (ex production): 9% + 3% by weight
Thickness Swelling (24hrs immersion): 0.7% (average)
Thermal Conductivity Coefficient: 0.26.W/m.k.

Ancillary Products

1027 JCW Acoustic Sealant (310ml)
1196 JCW Waterproof PVA Adhesive (1 ltr)
1490 JCW Flat Edging Strip (50 Lm x 75mm x 5mm)
1170 JCW Universal L Shaped Edging Strip (2 Lm x 53mm x 23mm)
JCW Acoustic Isolation Strips (various)

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms

Basic guidance notes for installation of JCW Cement Particle Board

Ceilings

- With exposed timber joists install 100mm x 45kg /m³ dense mineral wool between the joists. Then fix resilient bars at 90 degrees to the exposed joist as per manufacturers guidelines. Screw fix the JCW Cement Particle Board to the resilient bars ensuring the correct length of screw is used to avoid hitting the joist. Due to the density of the boards it may be required to drill a pilot hole into the boards prior to lifting the boards into place. If screws are required to be countersunk then an appropriate countersink tool should be used to prepare the boards before final fixing into place.
- If fitting over an existing lath and plaster or boarded ceiling then screw fix (minimum 50mm x 25mm) timber battens at 90 degrees through the existing ceiling and into the joists above. Install an appropriate thickness of dense mineral wool at a minimum density of 45kg /m³ between the battens. Then install resilient bars and the JCW Cement Particle Board as per the details above once again ensuring that screws avoid hitting the new battens. Due to the density of the boards it may be required to drill a pilot hole into the boards prior to lifting the boards into place. If screws are required to be countersunk then an appropriate countersink tool should be used to prepare the boards before final fixing into place.
- In all cases the JCW Cement Particle Board T&G joints should be adhesive bonded using a D3 waterproof PVA adhesive to ensure maximum possible performance.
- Where boards meet at a wall edge the tongue should be removed from the boards

Brick and Block Walls

- The best improvement will be gained by screw fixing (minimum) 50mm x 25mm vertical timber battens @ 600mm centres onto the existing walls. Install between the battens an appropriate thickness of mineral wool at a minimum density of 45kg /m³. Fit resilient bars horizontally to the battens @ 400mm centres as per manufacturers guidelines. Finally fix the JCW Cement Particle Boards onto the resilient bars ensuring that screws are the appropriate length to avoid hitting the battens. Due to the density of the boards it may be required to drill a pilot hole into the boards prior to lifting the boards into place. If screws are required to be countersunk then an appropriate countersink tool should be used to prepare the boards before final fixing into place.
- The JCW Cement Particle Board T&G joints should be adhesive bonded using a D3 waterproof PVA adhesive to ensure maximum possible performance.

Flooring

- Nails or screws may be used to fix JCW Cement Particle Board either direct to joists or as an overlay to new or existing sub-floors. Due to the density of the boards it may be required to drill a pilot hole into the boards prior to lifting the boards into place. If screws are required to be countersunk then an appropriate countersink tool should be used to prepare the boards before final fixing into place.
- The JCW Cement Particle Board T&G joints should be adhesive bonded using a D3 waterproof PVA adhesive to ensure maximum possible performance.

Advice and Technical Assistance

If in any doubt that a construction will meet Building Regulations, please contact us for technical support and advice or for more information about any of our acoustic products and solution.

DISCLAIMER

The product and installation information contained in this Data Sheet & Basic Installation Advice is to the best of our knowledge correct. Please contact us directly, prior to starting works for the latest information to enable confirmation of the works.