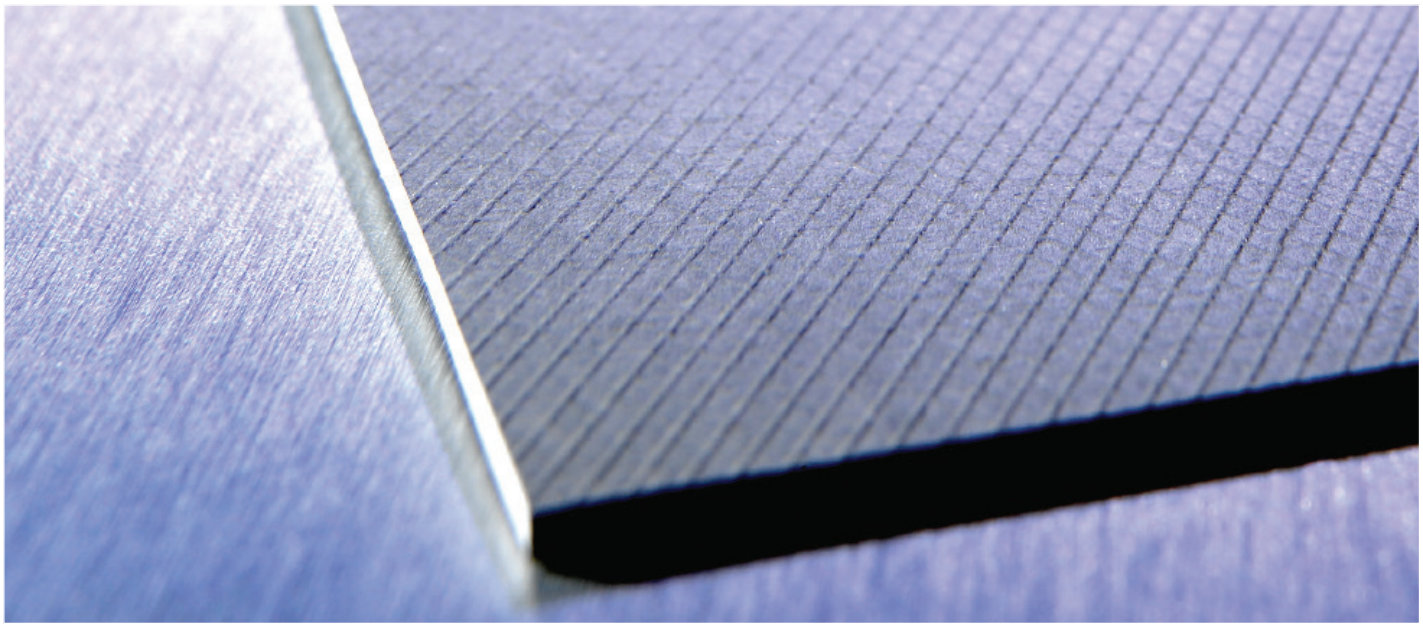
Acoustic Barrier Mat

MULTI-PURPOSE SOLUTION

NBS Source PARTNER

Datasheet 03



Product Code: 1.2mm - 1013 2mm - 1014 3mm - 1015 4mm - 1017

Multi-purpose, dense acoustic barrier matting.

Barrier Matting offers very good airborne performance across the frequency range .

- Noticeable improvements will be gained when bonding barrier matting between two layers of Plasterboard on walls & ceilings or pinning on to stud work or joists prior to plasterboard fixing
- Noticeable airborne improvement gain with minimal height loss when 2 x 2mm barrier matting layers are laid on the floor in opposite directions
- Hanging Curtain: Ideal as a separating curtain wall between offices above walls
- Perfect product for dampening steelwork, ducting and machinery casings etc

Tested and rated according to BS EN ISO 717-1: 1997, BS EN ISO 140-3: 1995 and BS EN ISO 2750: Part 3

Transmission Loss Data: dB

Material/Frequency (Hz)	125	250	500	1k	2k	4k
JCW B3	9	12	16	21	24	28
JCW B5	14	17	21	27	30	34
JCW B7.5	17	20	24	29	32	36
JCW B10	19	23	27	33	36	40

Mean Sound Reduction Index

1.2mm (3.0 kgs/m²): 16 dB
2mm (5.0 kgs/m²): 21 dB
3mm (7.5 kgs/m²): 24 dB
4mm (10.0 kgs/m²): 27 dB

Product Code	Product Weight	Roll Size	Roll Weight per roll
1013	3.0 kgs/m²	1.2mm x 1200mm x 5m	18 kgs
1014	5.0 kgs/m²	2mm x 1200mm x 5m	30 kgs
1015	7.5 kgs/m²	3mm x 1200mm x 4m	36 kgs
1017	10.0 kgs/m²	4mm x 1200mm x 2m	24 kgs

Ancillary Products

1027 JCW Acoustic Sealant (310ml)

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JCW ACOUSTIC SUPPLIES / Unit 32-34 Waters Meeting Development Britannia Way, Bolton, BL2 2HH / Sales helpline **01204 548400** 8.30am - 5.00pm Monday to Friday / sales@acoustic-supplies.com **www.acoustic-supplies.com**

JCW Barrier Matting Installation Guide

JCW Barrier Mat is a very versatile and dense product that is used for a wide range of applications where airborne sound reduction is required. The most common installation areas are floors, walls & ceilings.

Floors - Overview: The 2mm JCW Barrier Matting is easy to work with on floors; 2mm is flexible and can be easily laid. Supplied in 5LM roll lengths should suit most rooms with minimal joints. Generally we would suggest 2 x layers of 2mm/5Kg.m^2 laid in opposite directions to provide good performance with a minimal height increase of only 4mm. **Installation:** Cut the first row of matting continuously across the room up to the wall edges and if possible beneath the skirting boards if fitted. The second and subsequent rows should either be tightly butt edged or overlapped by 25mm to ensure optimum airborne performance. JCW Barrier Matting can be loose laid. However, the roll ends may require securing and some edge joints using JCW Back Cloth Jointing Tape. Additionally JCW Barrier Mat can be partially or fully bonded to the sub-floor. As JCW Barrier Matting is an impervious product the best adhesive to use for an instant bond is either a Spray Contact Adhesive for partial bond or trowel/spreader applied Contact Adhesive if full bonding is required. (Contact adhesive should be spread immediately once applied to the JCW Barrier Matting).

Walls - Overview: The 2mm JCW Barrier Matting is easy to work with on most walls surfaces. Generally the 5LM lengths x 1200mm width offer minimal waste and can be installed in continuous vertical lengths with vertical joints centrally between the studs or metal work.

Installation (Stud) option a): Cut the first vertical length and secure centrally between the studs or metal work using a few Clout Nails. Then fix the plasterboard/s over ensuring all plasterboard joints and/or minor gaps are sealed with JCW Acoustic Sealant/Mastic.

Alternatively option b) for an improved acoustic performance: First fix resilient bars horizontally @ minimum 400mm – maximum 450mm centres to the Stud work, then screw fix one layer of plasterboard onto the resilient bars, then bond the JCW Barrier Mat onto the plasterboard (using a Spray Contact Adhesive) securing the top 100mm of the JCW Barrier Mat to the plaster board then spot bond as required. Tightly butt edge successive lengths of JCW Barrier Mat to each other, then screw fix the 2nd layer of plasterboard (the opposite way to the first) over the JCW Barrier Matting. Seal all joints on both plasterboard layers with JCW Acoustic Sealant/Mastic. **Brick or Block walls:** Fix 50mm x 25mm timber vertical battens to the wall @ 400 or 600mm centres, fit 25mm x 45Kg.m^3 dense wool between the battens then install the JCW Barrier Mat as method in; option a) or b) above.

Ceilings: 100mm(d) x 45Kg.m^3 dense wool fitted between the joists then fix resilient bars at 90 degrees to exposed joists (*or battens)@ 400mm centres, then screw fix one layer of minimum 10Kg.m^2 plasterboard onto the resilient bars then ideally secure the JCW Barrier Mat to the second 10Kg.m^2 plaster board layer by partially bonding using a Spray Contact Adhesive. Trim off excess JCW Barrier Mat at the board edges then screw fix over the first layer. Seal the joints on both plasterboard layers with JCW Acoustic Sealant/Mastic. If fitting over any existing an *existing plaster boarded ceiling then (minimum) 50mm x 25mm(d) battens should be initially fixed then 25mm x 45Kg.m^3 dense wool between the battens, then proceed as above.

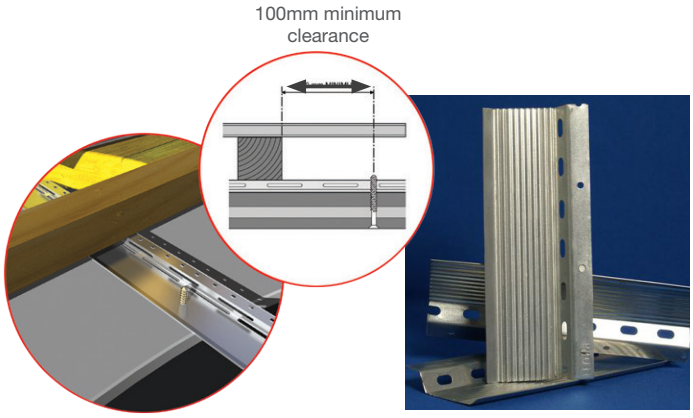
Note: The information provided above is for DIY/single dwellings improvement and should not be used for Approved Document E projects. We offer specialist tested systems with SRL test data for Approved Document E projects.

Guidance for using Resilient Bars

Screw fix the pre-drilled section of the resilient bars at 400mm centres and perpendicular to the joists, battens or studs.

Screw fix acoustic plasterboards to the flat underside of the resilient bars, allowing a clearance of 100mm of the supporting timbers.

It is imperative that no screws penetrate through the resilient bar and into the supporting structure.



Disclaimer: The product and installation information contained in this Data Sheet and General Installation Guide is to the best of our knowledge correct. Please contact us direct, prior to starting works, for the latest information to enable confirmation of the specification.

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