

MuteBarrier 5kg/m² Product Data

Description: MuteBarrier 5kg/m² is a great way of attenuating low levels of airborne noise where space is at a premium. It has also been used as a sound proof curtain, between plasterboards and draped over joists to reduce sound transmission. MuteBarrier is suitable for retro-fits and new builds.

Dimensions: 1200mm x 1200mm x 2mm

Mass: 5kg/m²

Features and Benefits: **UK designed and manufactured** - MuteBarrier products are manufactured exclusively in the UK. Products are produced in sheet and roll form.

Free from SVHC - MuteBarrier products are free from substances of very high concern (SVHC) like lead, halogens and unrefined aromatic oils.

Tear strength - MuteBarrier is manufactured by an extrusion process which gives this MLV high mechanical strength which makes it easy to handle and install. Some manufacturing processes which only use calendaring or casting processes can cause MLV materials to tear more easily.

Flexibility - MuteBarrier is highly flexible which allows easy installation round corners, pipework, square ducting and steel framework without cracking and tearing

Consistency and stability - High speed mixing process coupled with super cooling means MuteBarrier products are physically stable and robust. MuteBarrier can be warehoused in cold storage without risk of cracking and product deterioration. Under normal environmental conditions of use the material does not chemically degrade or change its physical properties over time.

Surface finish - The embossed surface increases the surface area to aid adhesion.

Clean and oil free surface - MuteBarrier has no oily or greasy residues on the surfaces and therefore does not stain and prevents the product from sticking together during storage and installation in warmer temperatures. It also means MuteBarrier does not require interleaves so reduces waste disposal costs.



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Typical Physical Properties:

Attribute and Test Method:	Specification: (Based on typical performance)
Widths available	1200mm
Product format	Sheets, Rolls (on request)
Nominal Weight Standard Manufacturing tolerances are +/- 10%	5.0kg/m ²
Nominal Density Standard Manufacturing tolerances are +/- 10%	2200kg/m ³
Nominal Thickness Standard Manufacturing tolerances are +/- 10%	2.2mm
Acoustic Rating BS EN ISO 717-1 Rw (C;Ctr) (-1 ; -3)ISO 140 - DLR (dB)	27dB
Hardness Durometer Shore A, 1 sec dwell +/- 10%	85
Tensile Strength Ultimate elongation at break ASTM D412 - 16 (Method A – Dumbell) - Standard Manufacturing tolerances are +/- 20%	1.8 MPa 180%
Dimensional Stability 4hr @ 100°C	MD -2% XMD +1%
Bend Test 10mm Mandrel Bend Test Fold Flat (180°)	No Cracking No Cracking
Tear Initiation Strength ASTM 624-00 Type C (Right Angle) Tear Propagation Strength ASTM 624-00 Type T (Trouser tear) Standard Manufacturing tolerances are +/- 20%	81 N/cm 59 N/cm
Flammability FMVSS 302	Self-extinguishing
Static Service Temperature	-30°C to 100°C

Sustainability and Recycling:

Here at iKoustic we are committed to reducing our environmental impact, using recycled materials wherever possible within our products. MuteBarrier is manufactured using sustainable, recycled raw materials. The MuteBarrier product is 100% recyclable at end of life.

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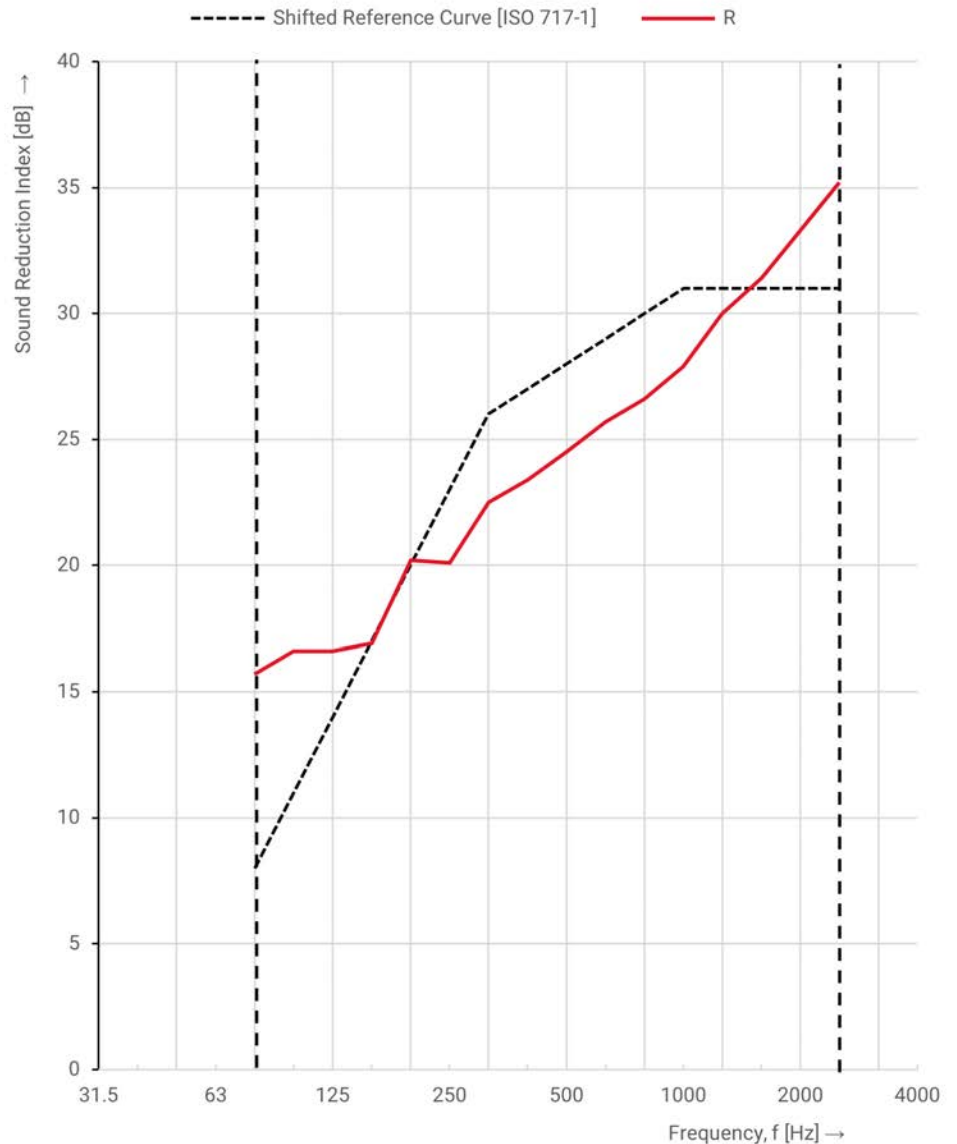
Acoustic testing according to BS EN ISO 10140-2 : 2010, Sound Reduction Index Laboratory Measurement of sound insulation of building elements University of Salford, Acoustic Test Lab.

Rating according to BS EN ISO 717-1

R_w (C;Ctr) = 27 (-1 ; -3) dB

Evaluation based on laboratory measurement results obtained in one third octave bands via an engineering method

Frequency (f) [Hz]	R 1/3 Octave [dB]
50	-
63	-
80	-
100	15.7
125	16.6
160	16.6
200	16.9
250	20.2
315	20.1
400	22.5
500	23.4
630	24.5
800	25.7
1000	26.6
1250	27.9
1600	30.0
2000	31.4
2500	33.3
3150	35.2
4000	37.2
5000	38.2



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