

Hushlay 9 Soundmatting is a high performing, unique two layer designed, thin acoustic floor product, that has been designed to reduce impact noise through floors.

The Hushlay 9 Soundmatting is the thinnest product in the Hushlay range. The make up of the high performing deadening sheet and the frequency tuned resilient layer helps the product perform to very high levels when reducing impact sound through a floor. The mass in the deadening sheet will help create a slight improvement to the passage of airborne noise. When used in the correct applications, Hushlay 9 Soundmatting can be used over any timber and concrete floor structure and when combined with the appropriate ceiling system, will show compliance to all UK Building Regulations for a separating floor.

ACOUSTIC PERFORMANCE

Impact $L'_{nT,w}$ dB	Airborne $D_{nT,w}$ dB	Airborne $D_{nT,w} + C_{tr}$ dB
51dB	58dB	47dB

Results based on Hushlay 9 Soundmatting being laid over a floor structure, with a suitable ceiling treatment and all flanking paths removed.

ACCESSORIES

- Hushlay Soundmatting Perimeter Strip: 1200mm long x 25mm wide x 6mm depth
- Hushlay Soundmatting Adhesive: 15ltr tub – coverage up to 45m² per tub depending on substrate
- Suitable Hush Timber Sheet (for use with engineered or laminate flooring)
- Hush Hi-Tack Jointing Tape

SUITABLE FOR



SPECIFICATION

- (nominal) Size = 1200x1200mm
- (nominal) Thickness = 9mm
- Weight per board: 11kg
- Weight = 7.5kg/m²
- A circular saw can be used, if required, for large numbers of straight cuts.

STORAGE:

- Hushlay 9 Soundmatting must be laid flat and kept dry.
- Hushlay 9 Soundmatting should only be stored on site if the building has been sealed and is completely dry.

FEATURES

- ✓ Building Regulations Part E (England and Wales), Section 5 (Scotland) and Part G (Northern Ireland)
- ✓ Excellent Impact sound performance levels due to its unique design
- ✓ Easily cut and shaped.
- ✓ Suitable for over timber or concrete floor structures.
- ✓ Can be laid directly under carpet floor finishes
- ✓ Can be used with the Hushlay 9 Soundmatting Perimeter Strips to isolate the carpet grippers from the floor.
- ✓ Can be used under engineered and laminate timber flooring when used in conjunction with the suitable Hush Timber layer.



BUILDING REGULATIONS

STATEMENT

- Approved Document E (England & Wales) incorporates a unit of measurement to determine low frequency airborne sound transmission. Due to proven intrinsic difficulties of measuring low frequency sound, in domestic sized rooms, it must be expected that there could be significant deviations in the accuracy of these measurements.
- There will be variations in measurements from site to site in all UK Building Regulations whether it be Document E (England & Wales), Section 5 (Scotland) or Part G (Northern Ireland). These variations are caused by structural differences in buildings, general site conditions and workmanship.
- All these factors can influence the repeatability of both impact and airborne acoustic test results. Therefore, any test results must be considered as an indication only and no warranty can be given or implied as to the actual acoustic performance in any particular situation.

OVERVIEW

The nuisance of noise is regarded as a health and safety issue for persons living in dwellings and all occupants of a dwelling should be allowed to follow normal domestic activities, including sleep and rest, without threat to their health from noise.

Noise is transmitted in buildings by both airborne and impact sound sources and UK Building Regulations requires that both these noise types are controlled. Practical guidance to meet with Building Regulation requirements is given within Approved Document E.

Sound insulation, in general terms, is the prevention of airborne and impact sound being transmitted from one part of a building to another through separating floors, ceilings or walls.

AIRBORNE SOUND

Airborne sound sources produce noise by vibrating the surrounding air, for example speech, televisions and home entertainment systems. Airborne sound insulation is concerned with reducing this sound transmission through separating floors and walls.

IMPACT SOUND

Impact sound sources produce noise by direct physical excitation of a part of a building, for example footsteps on a floor. Impact sound insulation is concerned with resisting this impact sound upon separating floors.

FLANKING TRANSMISSION

Flanking transmission occurs when sound is transmitted from one space to another indirectly, through adjoining parts of the structure, e.g. impact sound may be transmitted from one room to another through a timber floor, but also through the supporting wall.

Flanking transmission is always a potential problem within any structure, in particular, buildings being converted, and depending on the intensity of the acoustic energy received via flanking transmission paths, the effectiveness of sound insulation of separating partitions can be much lower than expected from their construction.

Careful consideration must be given to the effect of flanking transmission within any building and all potential flanking paths must be identified and eliminated prior to the installation of any sound insulation system.

APPROVED DOCUMENT E

UK Building Regulations approved Document E 2003 (with subsequent amendments in 2004, 2010, 2013, 2015) incorporates a unit of measurement to determine low frequency airborne sound transmission.

Due to proven intrinsic difficulties of measuring low frequency sound, in domestic sized rooms, it must be expected that there could be significant deviations in the accuracy of these measurements. Furthermore, there will be variations from site to site due to structural differences in buildings, general site conditions and workmanship.

All these factors can influence the repeatability of both impact and airborne acoustic test results. Therefore, any test results must be considered as an indication only and no warranty can be given or implied as to the actual acoustic performance in any particular situation.

ENGLAND & WALES - NEW APPROVED DOCUMENT E

Building Regulations New Approved Document E came into force on 1st July 2003 (with subsequent amendments in 2004, 2010, 2013, 2015) with the introduction of pre-completion testing (PCT) for sound insulation as a means of demonstrating compliance, and as from 1st July 2004 the use of Robust Details (RD) in new build has been accepted as an alternative to PCT.

Requirements E1, E2 and E3 of Document E apply to the sound insulation of any type of conversion or new build used as a dwelling including; houses, apartments, hostel rooms, hotels, boarding houses, halls of residence and residential homes. Requirement E4 applies to acoustic conditions in schools.

Performance standards are given for each requirement, as follows:

TABLE 0.1A

Dwelling-houses and flats – performance standards for separating walls, separating floors, and stairs that have a separating function

	Airborne sound insulation $D_{nT,w} + C_w$ dB (Minimum values)	Impact sound insulation $L'_{nT,w}$ dB (Maximum values)
Purpose built dwelling - houses and flats		
Walls	45	-
Floors & Stairs	45	62
Dwelling - houses and flats formed by material change of use		
Walls	43	-
Floors & Stairs	43	64



HUSH ACOUSTICS
Acoustic Material Manufacturers

HEAD OFFICE CONTACT

Unit 2, Tinsley Industrial Estate, Shepcote Way, Sheffield, South Yorkshire, S9 1TH
T: 0114 700 5727 E: info@hushacoustics.co.uk www.hushacoustics.co.uk

BUILDING REGULATIONS cont.

TABLE 0.1B

Rooms for residential purposes – performance standards for separating walls, separating floors, and stairs that have a separating function.

	Airborne sound insulation $D_{nT,w} + C_{tr}$ dB (Minimum values)	Impact sound insulation $L'_{nT,w}$ dB (Maximum values)
Purpose built dwelling - houses and flats		
Walls	43	-
Floors & Stairs	45	62
Dwelling - houses and flats formed by material change of use		
Walls	43	-
Floors & Stairs	43	64

TABLE 0.2

Laboratory values for new internal walls and floors within dwelling-houses, flats and rooms for residential purposes, whether purpose built or formed by material change of use.

	Airborne sound insulation R_w dB (Minimum values)
Walls	40
Floors & Stairs	40

For further information on Approved Document E visit www.communities.gov.uk or www.planningportal.gov.uk

PCT & ROBUST DETAILS

Pre-completion testing applies to all multi-occupancy, multi-dwelling, or connected-residential material change of use developments. It also applies to all multi-occupancy, multi-dwelling, or connected-residential new build projects not built by means of Robust Details. At least 10 percent of each type of all new residential properties are tested to determine fulfilment of the regulations and pre-completion testing must always be carried out by an accredited acoustic engineer.

Contact with suitable sound testing companies can be arranged through our technical department.

ROBUST DETAILS

Robust Details are high performance separating wall and floor constructions that are expected to be sufficiently reliable not to need the check provided by PCT. A set of design details which achieve compliance with requirement E1 have been approved by Robust Details Ltd.

Builders intending to use any of these design details must register the project with Robust Details Ltd and follow, to the letter, procedures issued by Robust Details Ltd.

For further information on Robust Details visit www.robustdetails.com or contact the Hush Technical division on info@hushacoustics.co.uk.

SCOTLAND & NORTHERN IRELAND SCOTTISH BUILDING REGULATIONS SECTION 5

Deals with the reduction of sound through separating building elements between domestic buildings.

	New build and conversions other than traditional buildings	Conversion of traditional buildings*
Minimum airborne sound transmission ($D_{nT,w}$) (Floors & walls)	56dB	53dB
Maximum impact sound transmission ($L'_{nT,w}$) (Floors only)	56dB	58dB

NORTHERN IRELAND BUILDING REGULATIONS PART G

Northern Ireland Building Regulations Part G, Sound Insulation in Dwellings.

	Airborne sound insulation $D_{nT,w}$ dB (Minimum values)	Impact sound insulation $L'_{nT,w}$ dB (Maximum values)
New build		
Floors	52	61
Conversion		
Floors	48	64

For further information please visit www.buildingcontrol-ni.com

Should you require further information please visit www.hushacoustics.co.uk or call 0114 750 05727.



HUSH ACOUSTICS
Acoustic Material Manufacturers

**HEAD OFFICE
CONTACT**

Unit 2, Tinsley Industrial Estate, Shepcote Way, Sheffield, South Yorkshire, S9 1TH
T: 0114 700 5727 E: info@hushacoustics.co.uk www.hushacoustics.co.uk

HUSH PRODUCT STOCKISTS

For information please call **0114 700 5727** or email **info@hushacoustics.co.uk**

1 GLASGOW
Hamilton International Technology Park,
4 Bell Dr,
Blantyre,
Glasgow
G72 0FB

9 BEDFORD
Unit 36
Kenneth Way
Wilstead Industrial Estate
Bedford
MK45 3PD

11 SOUTH WEST
Unit 15 - 16
Pucklechurch Industrial Estate
Pucklechurch
Bristol
BS16 9QH

2 NEWCASTLE
Unit 1
Silver Fox Way
New York Industrial Park
North Shields
Newcastle
NE27 0QH

10 SOUTH WALES
Units 1-3
Imperial Centre
Lion Way
Llansamlet
Swansea
SA7 9FY

12 WEST LONDON
Unit 2
Ashley Road
Uxbridge Industrial Park
Uxbridge
London
UB8 2GA

3 WEST YORKSHIRE
Unit 5
Logic Leeds
Skelton Moor Way
Halton Leeds
LS15 0BF

13 EAST LONDON
5 Weston Avenue
West Thurrock
Essex
RM20 3FJ

4 NORTH WEST
Unit M
Haydock Cross
Kilbuck Lane
St Helens
WA11 9UX

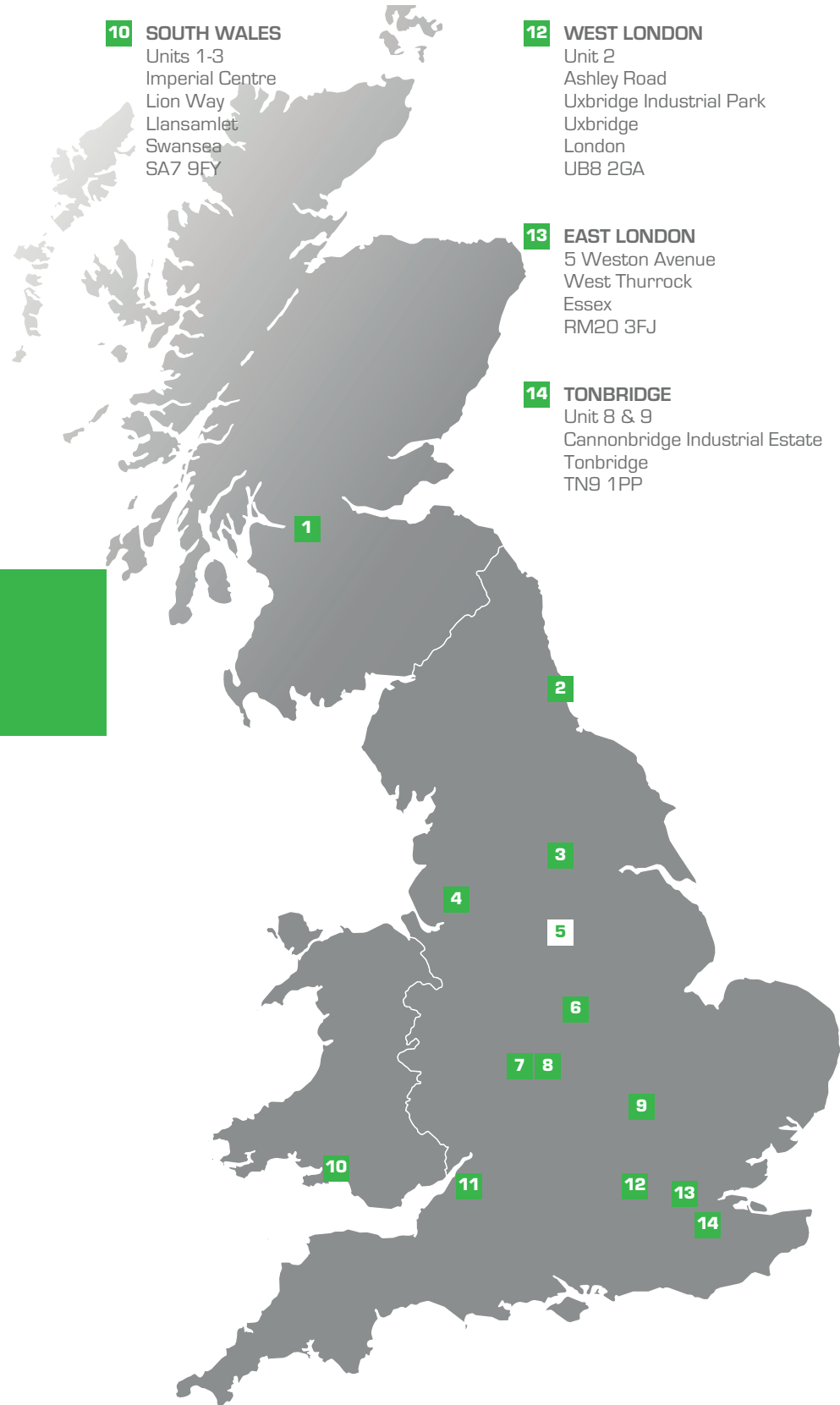
14 TONBRIDGE
Unit 8 & 9
Cannonbridge Industrial Estate
Tonbridge
TN9 1PP

5 SOUTH YORKSHIRE
Unit 2
Tinsley Industrial Estate
Shepcote Way
Sheffield
S9 1TH

6 EAST MIDLANDS
Unit D
Long Eaton Industrial Estate
Acton Close
Long Eaton
Nottingham
NG10 3FZ

7 WEST BROMWICH
Unit 1
Charles Street
West Bromwich
B70 0AZ

8 MIDLANDS
Unit 9
Maybrook Business Park
Maybrook Road
Minworth
Birmingham
B76 1AL



HUSH ACOUSTICS
Acoustic Material Manufacturers

**HEAD OFFICE
CONTACT**

Unit 2, Tinsley Industrial Estate, Shepcote Way, Sheffield, South Yorkshire, S9 1TH
T: 0114 700 5727 E: info@hushacoustics.co.uk www.hushacoustics.co.uk