



HUSH - UNDERLAY FOR VINYL FLOORING

Hush Underlay For Vinyl Flooring consists of a fine granulate of recycled rubber with a cork and PU elastomer bonding agent.

Hush Underlay For Vinyl Flooring is suitable for use in most market sectors that require acoustic flooring. These include Residential, Industrial, Healthcare, Educational and Leisure sectors. It can be used over concrete, screeded and timber floors to reduce impact sound before the vinyl floor covering is laid. Hush Underlay For Vinyl Flooring is used in all UK Building Regulations applications including Document E, Section 5 and Part G. It can also be used as an alternative acoustic underlay for Robust Details Developments and has recently been used in Code For Sustainable Homes developments. It Combines

Minimum build height with permanent resilience. Hush Underlay For Vinyl Flooring is manufactured from waste rubber and cork which is mixed with a polymer binder to form a purpose made resilient matting. Hush Underlay For Vinyl Flooring offers exceptional acoustic and insulating qualities.



Product Data

- Roll Length/Width: 20m x 1m
- Roll Thickness: 3mm, 4.5mm & 5mm
- M₂ Weight : 3mm = 2.05Kgs / 5mm = 3.62Kgs
- Colour: Black/Beige
- Surface: Fine Granulate structure
- Tensile Strength: 0.6 N / mm² (DIN 53571)
- Elongation at Break: 3mm approx 50% (DIN 53571) 5mm approx 60% (DIN 53571)
- Density: Approx 390 kg/m³
- Service Temp: -30°C to + 80°C
- Flammability Rating: B2
- Environmental Behaviour: Limited resistance to acid
- Impact Sound : 5mm = 21dB, 3mm = 18dB

Suitable for:



Installation Guidelines upon request

Feature

- ✓ Easy to Install
- ✓ Remains continually elastic
- ✓ Fully Recycled
- ✓ Minimum Construction Height
- ✓ Suitable to be laid over concrete, screeded and timber floors
- ✓ Complies with all UK Building Regulations Standards. Including Document E, Section 5 (Scotland) and Part G (Northern Ireland)
- ✓ Suitable for Refurbishment / New Build
- ✓ For use with Under Floor Heating
- ✓ Excellent Thermal Properties
- ✓ Excellent Footfall Noise Reduction
- ✓ Can be used as part of a Code For Sustainable Homes compliant specification
- ✓ Can be used as an alternative product for Robust Details specifications.

Hush Underlay For Vinyl Flooring can also be used under:

Ceramic Tile, Sheet Vinyl, Stone Floors, Laminate, Wood Floors, Parquet, Carpet, Flotex, Marble Floors

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HUSH ACOUSTICS
Sound Insulation Products and Systems

RESIDENTIAL BUILDING REGULATIONS

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.

UK Building Regulations approved Document E 2003 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.

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.

England & Wales

New Approved Document E

Building Regulations New Approved Document E came into force on 1st July 2003 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 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	45	-
Floors & stairs	45	62
Dwelling - houses and flats formed by material change of use		
Walls	43	-
Floors & stairs	43	64

Table 0.1b Rooms for residential purposes – performance standards for separating walls, separating floors, and stairs that have a separating function

	Airborne sound insulation 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
Rooms for residential purposes formed by a 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	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 conversion projects and 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 fulfillment 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

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

For further information please visit www.scotland.gov.uk

Northern Ireland Building Regulations Part G

Northern Ireland Building Regulations Part G, Sound Insulation in Dwellings

	Airborne sound insulation 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	65

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