

TECHNICAL DATA SHEET

SOUNDLAY FOAM UNDERLAY

PRODUCT DESCRIPTION

CMS Danskin Acoustics Soundlay Foam Underlay is a cost effective acoustic underlay manufactured from an EVA rubber injected closed cell polyolefin foam, and can be used with a wide range of floor finishes.

It is particularly suited to double-stick carpets, floating wood and laminated floor finishes. CMS Danskin Acoustics Soundlay Foam Underlay is guaranteed for the serviceable lifetime of the floorcovering under which it is laid, providing it has been laid in accordance with manufacturer guidelines.

TECHNICAL INFORMATION

Weighted reduction in impact sound pressure (ΔL_w)*

5mm	32dB
10mm	46dB
End use Classification**	HC/U Heavy Contract Use

* Tested to BS EN ISO 140-8 & BS EN ISO 717-2

** Tested to BS 5808:



ADVANTAGES

- Social housing
- Apartments
- Educational buildings
- Hotels

BENEFITS

- Offers a reliable and economical solution to Part E compliance
- Greater resistance to compression and creep compared with traditional foam underlay products
- Available in two thicknesses to give a choice of impact sound insulation values
- Quick and easy to install
- No need for an additional waterproof membrane layer

SPECIFICATION

Property	Value	Standard	
Material construction	Cross-linked polyolefin foam injected with EVA rubber		
Roll sizes	50m x 2m		
Standard thicknesses	5mm & 10mm		
Roll weight	33kg (10mm) 17kg (5mm)		
Density	25 - 33kg/m ³		
Resistance to cracking	Not greater than 50mm**		
Tensile strength (longitudinal)	0.34MPa	EN ISO 1798	
Tensile strength (transversal)	0.29MPa	EN ISO 1798	
Elongation at Break (longitudinal)	200%	EN ISO 1798	
Elongation at Break (transversal)	210%	EN ISO 1798	
Compression stress strain 10%	16kPa	ISO 3386/1	
Compression stress strain 25%	36kPa	ISO 3386/1	
Compression stress strain 50%	95kPa	ISO 3386/1	
Compression set 25% 22h, 23°C, 0.5h	19%	EN ISO 1856	
Compression set 25% 22h, 23°C, 24h	11%	EN ISO 1856	
Compression set 50% 22h, 23°C, 0.5h	43%	EN ISO 1856	
Compression set 50% 22h, 23°C, 24h	32%	EN ISO 1856	
Operating temperature range	-40°C	DIN 51949	
Dimensional stability	80°C	DIN 53431	
Horizontal burning rate (<100mm,/min)	>7 mm thickness	ISO 3795	
Thermal conductivity (λ)	0°C 0.041 W/m°C	EN ISO 12667	
Thermal conductivity (λ)	20°C 0.042 W/m°C	EN ISO 12667	
Water Vapour Permeability	0,00150 mg/m.h.Pa	EN ISO 12086	
Water absorption after 28 days	0.685%	EN ISO 12087	
Compression creep (under load 1kPa = 102kg/m ²)	at 30 days	1,54%	EN 1606
	at 1 year	3,56%	EN 1606
	at 5 years	5,44%	EN 1606
	at 10 years	6,53%	EN 1606
Dynamic stiffness s' (5mm)	87,2 MN/m ³	EN 29052-1	
Dynamic stiffness s' (10mm)	57,7 MN/m ³	EN 29052-1	
Impact sound insulation ΔL_W (5mm)*	32dB	EN ISO 140-8	
Impact sound insulation ΔR_A (10mm)**	46dB	EN ISO 140-8	
Airbourne sound insulation (5mm)	6,0dBA	EN ISO 140-3	
Airbourne sound insulation (10mm)	7,5dBA	EN ISO 140-3	
Thickness reduction underload (5mm)	0 Pa	0,0% (Ei)	EN 12431
	250 Pa	2,0% (dL)	EN 12431
	2 kPa	6,1% (dF)	EN 12431
	50 kPa	10,2% (dB)	EN 12431
Thickness reduction underload (10mm)	0 Pa	0,0% (Ei) UNE	EN 12431
	250 Pa	1,0% (dL) UNE	EN 12431
	2 kPa	3,1% (dF) UNE	EN 12431
	50 kPa	5,2% (dB) UNE	EN 1243

* Floor construction 160mm concrete slab/5mm Soundlay Foam with the addition of 8mm laminate flooring the ΔL_W is 18dB

** Floor construction 160mm concrete slab/10mm Soundlay Foam with the addition of 8mm laminate flooring the ΔL_W is 19dB

CMS DANSKIN ACOUSTICS

Scotland Office: Tel: **01698 356000** Fax: **01698 372222**
1 Netherton Road Wishaw ML2 0EQ

Central/Southern Office: Tel: **01925 577711** Fax: **01925 577733**
Unit 2 Lyncastle Road, Appleton, Warrington, WA4 4SN

Email: info@cmsdanskin.co.uk Website: www.cmsdanskin.co.uk

IMPORTANT: Directions for use are given for guidance only and are not intended to form part of any contract. They should be varied or adapted to suit your particular materials or conditions of use. Goods supplied by the company are made to approved standards from the highest quality raw materials but no warranty or guarantee is given as to their suitability for any particular purpose or application, and no liability is accepted for any loss or damage arising directly or indirectly from the use of the Company's products irrespective of any information given to us as to intended use of such products. It is therefore recommended that prospective users should test a sample of this product under their own conditions to satisfy themselves that the product is suitable for the purpose intended.

CMSDANSKIN
ACOUSTICS

