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 (Δ Lw)*	
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/m³	
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°K	EN ISO 12667
Thermal conductivity (λ)		20°C 0.042 W/m°K	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**

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