

SILENTSTEP

soundproofing underlay

Silentstep is a high-performance acoustic carpet underlay, comprising of a flexible mass-loaded barrier fused onto high-density premium foam underlay. The combination of these two products allows Silentstep to reduce the transmission impact-generated noise such as footfall, and airborne noise such as speech.

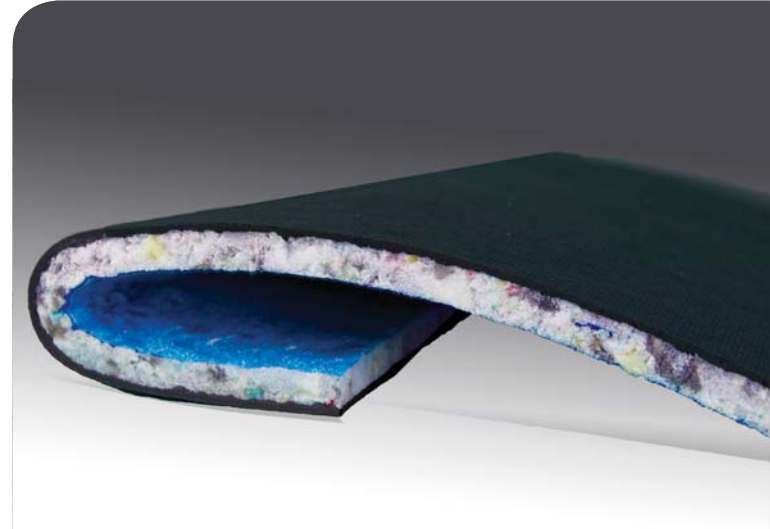
Silentstep was developed to meet market noise reduction requirements in multistorey living, commercial, automotive and marine markets. Simple to cut and lay, it offers excellent support and a firm cushioned base for all types of carpet applications. It is ideally suited for lightweight flooring constructions such as timber and marine applications, where fibreglass and composite floor panels are used.

When laying carpet over a floor constructed using lightweight timber and joists, typical standard underlay only reduces impact noise and offers little effect in reducing the transmission of airborne noise. Silentstep can significantly reduce both impact and airborne noise transfer through a floor system. This means that noise generated from speech and electronic audio technologies, such as radio and television, can be reduced along with noise generated by impact such as footfall.

Silentstep products are environmentally safe, contain no ozone-depleting substances and complies with European and Australian standards for Volatile Organic Compound emissions.

SPECIFICATIONS

Barrier weight	4 kg/m ² other weights available on request, subject to minimum order quantities
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applications

- Multistorey living areas constructed from lightweight materials with the intention to lay carpet
- Placed under solid timber or parquet flooring using Pyrotek's flooring systems .
- Marine vessels to stop engine noise travelling into staterooms, salons, VIP cabins etc
- Transport industry; under automotive, firewalls, wheel arches, boot mats, and transmission tunnels
- Motor homes and luxury motor coaches

features

- Bonded foam is made from 100% recycled material
- No ozone-depleting substances are generated during manufacture
- Free from lead, odour-producing oils and bitumen
- Easily installed by quality carpet layers. No special tools or fixtures required
- Uses specially made, high density, high rebound bonded foam as the impact layer
- Long service life, will not degrade like rubber underlay
- Foam is treated with Ultra-Fresh® to resist mould, mildew, bacterial growth and dust mites
- Available in roll or sheet form, or custom made to suit (minimum order quantities apply)



PRODUCT SPECIFICATIONS

Composite weight (kg/m ²)	Thickness (mm)	Roll			Flammability properties (FMVSS-302)	Operating temp. range (°C)
		Width (mm)	Length (linear m)	Weight (kg)		
5	11	1350	5	34	Self-extinguishing	-40 to 100 (Continuous) -40 to 120 (Intermittent)

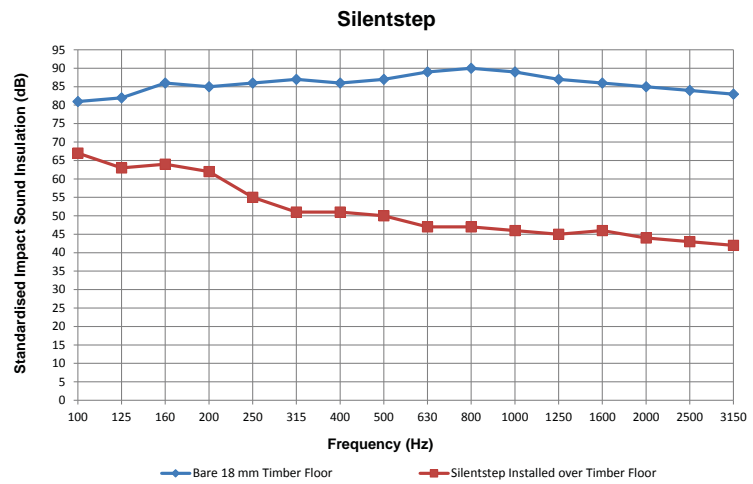
Tolerances: Length: -0/+50mm; Width: -0/+5mm; Thickness: +/- 0.5mm; Weight: +/- 5%

ACOUSTIC PERFORMANCE

Impact Sound Insulation (dB)		
Frequency (Hz)	Bare 18 mm Timber Floor	Silentstep Installed Over Timber Floor
100	81	67
125	82	63
160	86	64
200	85	62
250	86	55
315	87	51
400	86	51
500	87	50
630	89	47
800	90	47
1000	89	46
1250	87	45
1600	86	46
2000	85	44
2500	84	43
3150	83	42
Ln, Tw + Cl	84	56
Ln, w	92	56
Cl	-8.4	-0.3
IIC	18	54

Tested to ISO 140-7:1998

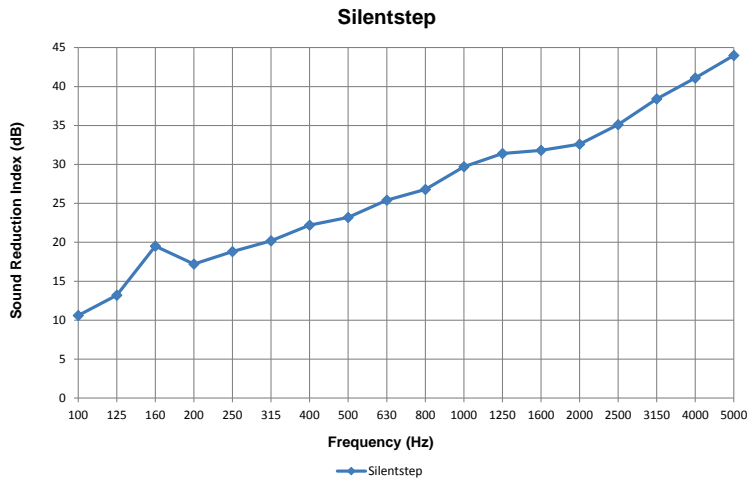
Report Number: nss21031-RevB



ACOUSTIC PERFORMANCE

Airborne Sound Insulation (dB)	
Frequency (Hz)	Silentstep
100	10.6
125	13.2
160	19.5
200	17.2
250	18.8
315	20.2
400	22.2
500	23.2
630	25.4
800	26.8
1000	29.7
1250	31.4
1600	31.8
2000	32.6
2500	35.1
3150	38.4
4000	41.1
5000	44.0
Rw	28
STC	28

Tested to ISO 15186-1:2003 & 10140-4:2010 at University of Canterbury, New Zealand
Report Number: 188



For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

