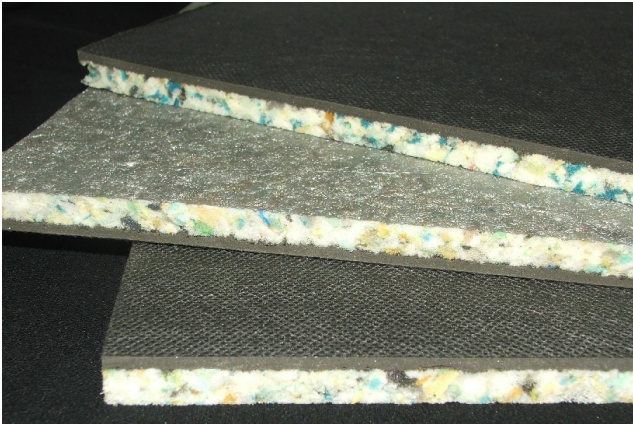


Decoupled Flexible Noise Barrier With Abrasion Resistant Facing



Silentstep® is an inexpensive high performance acoustic carpet underlay that offers excellent support for all types of carpet and provides significant reduction in transfer of air-borne and impact noise between floors, when laid on most types of flooring. It is ideally suited for light weight flooring constructions such as timber, fibreglass and composite panel materials.

Silentstep uses a decoupled mass barrier approach, and is composed of a flexible, high mass (4kg/m^2) noise barrier, based on **Wavebar®** technology, laminated to a layer of high performance 8mm thick, decoupling foam.

The decoupling foam is made from a high quality, bonded polyether polyurethane foam that provides excellent hydrolysis resistance. This foam is especially suited for use in wet and humid areas, such as boats or tropical environments.

When used under carpet **Silentstep** provides excellent reduction in both airborne and impact noise from the floor above into the area directly below.

Silentstep is easy to cut and lay and provides a firm cushioned base for carpet. The amount of "give" in the material provides a "plush" feel to the carpeted room not available from lesser performing lighter weight thin section materials.

FEATURES

- Includes Wavebar® flexible barrier technology
- Foam treated with Ultra-Fresh®
- Impact isolation class > 54dB
- >36 dB improvement from 315 Hz

APPLICATIONS

- General acoustic carpet underlay for residential or commercial buildings
- Upper and mid decks floor covering, under carpet in marine applications
- Bulkheads of trucks, buses and construction machinery as an underlayment
- Under carpet in two storey domestic and commercial applications
- Control of football noise from radio, TV, home entertainment or human voice

BENEFITS

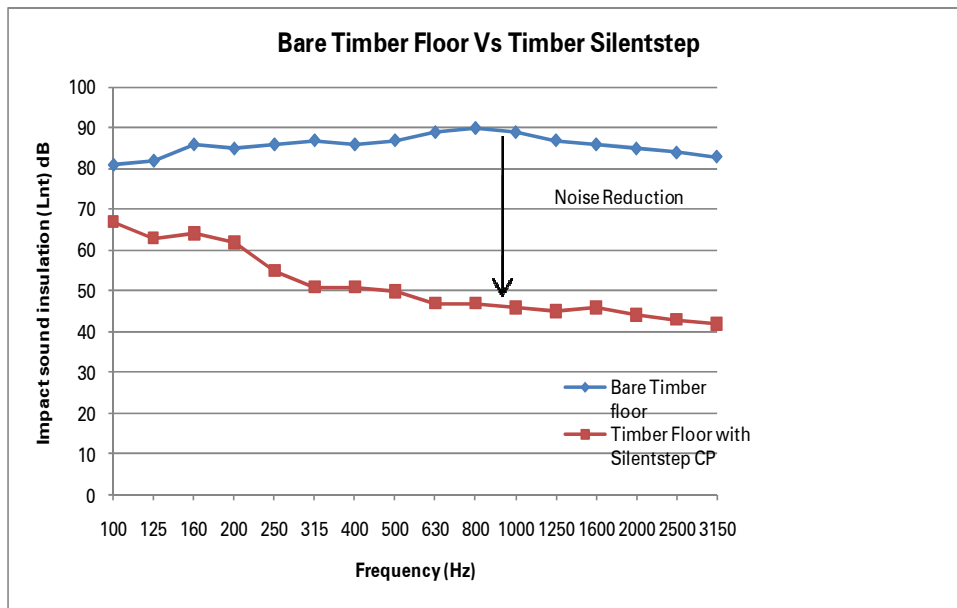
- Easily cut, shaped, fabricated and installed
- Maximises noise control by providing superior air borne noise transmission loss and excellent impact noise reduction
- Will not degrade
- Easy to cut and install
- Long service life
- Environmentally friendly
- Resists mould, mildew and bacteria growth
- Long term dust mite control
- Available pre-cut to drawings or templates

COLOUR

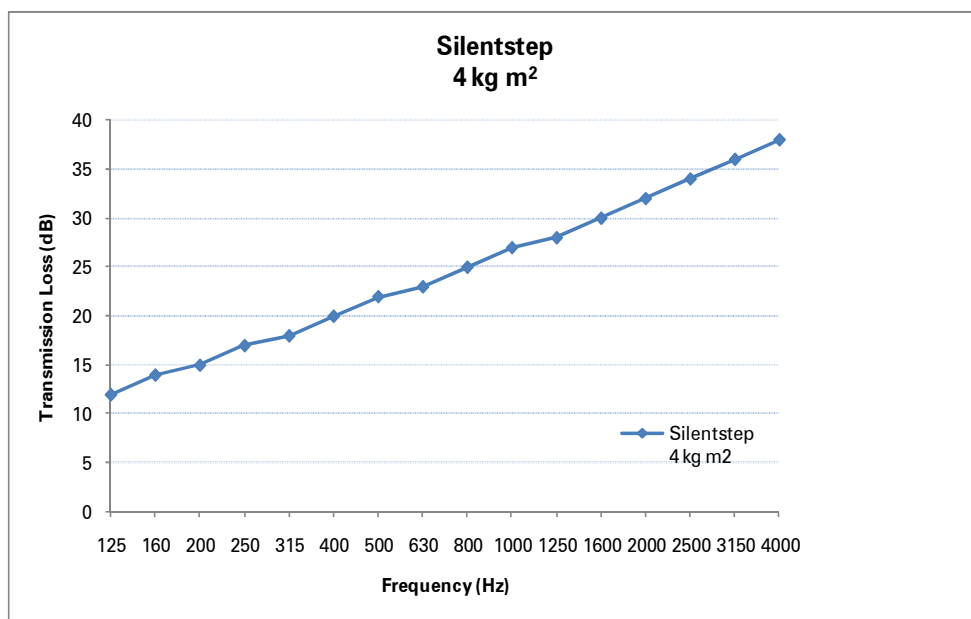
- Black facing

IMPACT NOISE REDUCTION

(Tested at CSIRO INSS 21031—Rev B to ISO 140/7—1998 (E))



FREQUENCY (Hz)	BARE TIMBER FLOOR	TIMBER FLOOR WITH SILENTSTEP CP
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



FREQUENCY (Hz)	SILENTSTEP 4 KG M ²
125	12
160	14
200	15
250	17
315	18
400	20
500	22
630	23
800	25
1000	27
1250	28
1600	30
2000	32
2500	34
3150	36
4000	38
STC	26
Rw	26

Results shown above have been calculated using transmission loss software. Base data was compiled from several years of acoustic testing. The software uses well known acoustic formula. Values given are within 1-2 dB of actual test data. Variation will always occur in test data and predictions. This is due to variations in material properties, different methods and stan-

Comments from Report inss21031

Conducted and compiled by Ken Scannell MSc MAAS MIOA - Noise and Sound Services

"The floor covering tested met the requirements of BCA from impact generated sound. It is predicted that using the floor covering tested in combination with a correctly constructed floor structure in dwellings between habitable rooms would meet at least AAAC 4 Star rating. The improvement in the floor covering tested, over the bare timber floor, was at least 36 dB for frequencies centred on 315 Hz." (When compared to a bare timber floor as per test report)

ACOUSTIC PROPERTIES

$L_n, T_w + C_l$	$L_{n,w}$	IIC	Rw	AAAC rating
56	56	54	26	4 Star

MATERIAL PROPERTIES

PRODUCT THICKNESS (MM NOMINAL)	ROLL LENGTH (METRES)	ROLL WIDTH (METRES)	ROLL WEIGHT Kgs	RECOMMENDED TEMPERATURE RANGE
10	5.0	1.35	33	- 20°C to + 100°C

Dimensional tolerance +/- 3%

Thickness nominal +/- 10%

Weight nominal +/- 5%

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
FMVSS-302	Burn Rate - mm/min	Self Extinguishing*	FMVSS-302 specifies burn resistance requirements of materials.

* 8Kg barrier

NOTES: Specifications are subject to change without notice. The data listed in this document is typical of average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose. The conclusions drawn from acoustic test results are as interpreted in writing by qualified independent testing authorities or suitably qualified engineers where possible. Even so, always seek the opinion of your own engineer, as to the meaning of any data presented by the manufacturer as it is applied to any given project or use.

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