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Aachen, 2013-03-27

Report No.: 132/171 TS

Measurement of impact sound insulation of a floor covering
on a solid strings floor

Date of test: 2013-03-07

Applicant: Betap B.V.

Product name: Topp Res

Construction: textile floor covering

Classification: category I of ISO 10140

Installation: laid loose

setting time: - h

Design description: textile floor covering
(from the bottom up)

Remarks:

Sampling: Applicant

Number of pages: 2 pages

Impact sound insulation according ISO 10140 (all parts)

Measurement of impact sound insulation by a floor covering on a solid strings floor

Product name **Topp Res**
Construction: textile floor covering
Date of test: 2013-03-07

Classification: category I according to ISO 10140
installation: laid loose
setting time: - h
installed by: laboratory

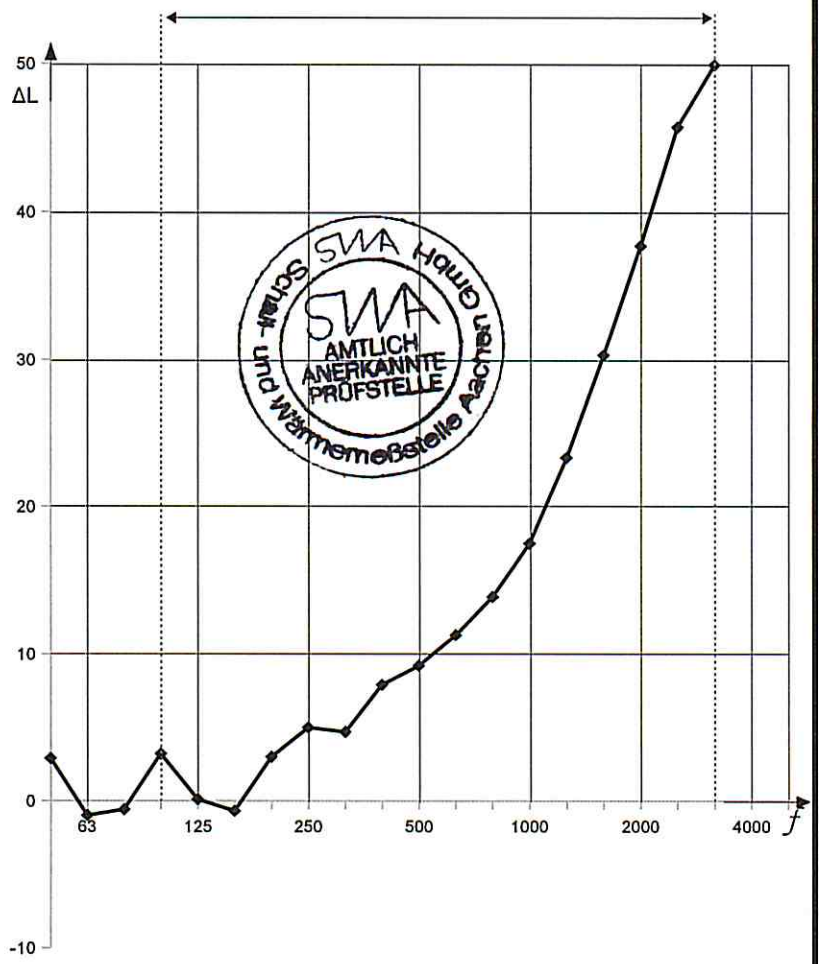
Description of test material:
Total thickness: 2.5 mm
Mass / area: 0.3 kg/m²

Remarks:

Test room: 02 and K2, Haupstrasse 133, 52477 Alsdorf, Germany
Temperature in the sending room: 20.0 °C
Humidity in the sending room: 56.0 %
Volume of the receiving room: 58.9 m³

Frequency f Hz	$L_{n,0}$ third-octave dB	ΔL third-octave dB
50		2.9
63		-1.0
80		-0.6
100	61.0	3.2
125	61.4	0.1
160	64.8	-0.7
200	63.7	3.0
250	65.4	5.0
315	65.6	4.7
400	66.1	7.9
500	66.0	9.2
630	66.4	11.3
800	66.3	13.9
1 000	66.2	17.5
1 250	66.6	23.3
1 600	67.2	30.3
2 000	67.1	37.7
2 500	67.0	45.7
3 150	66.4	49.9
4 000		51.3
5 000		51.4

frequency range for the evaluation according to ISO 717-2



Legend:
ΔL impact sound protection, in dB
f Frequency in Hz

Calculation according to ISO 717-2

ΔL_w = 18 dB **$C_{I,\Delta}$ = -11 dB** **$C_{I,r}$ = 0 dB** **$C_{I,r,50\text{-}2500}$ = 1 dB**
ΔL_{lin} = 7 dB

The results base on tests, which were effected with on artificial source of sound under labratory conditions. (standard method)

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SWA Schall- und Wärmemessstelle Aachen GmbH

(Dipl.-Ing. A. Siebal)