Textiles & Flooring Institute GmbH

TFI · Charlottenburger Allee 41 · 52068 Aachen · Germany

Egetaepper A/S
Postfach 190
7400 Herning
DÄNEMARK

Charlottenburger Allee 41
52068 Aachen
Germany

Fon +49.241.9679 00
Fax +49.241.9679 200

postmaster@tfi-online.de
www.tfi-online.de

Test Report No. 411900-02

1 Procedure

Order	Sound absorption according to EN ISO 354:2003 Impact sound transmission according to EN ISO 10140:2010
Sample designation	tempo mod350
Order by	Egetaepper A/S
Date of order	14th November 2011
Your reference	L. Ormstrup
TFI reference number	11-11-0155
Test official at TFI	Dipl.-Ing. Sophia Gelderblom, extension -134

2 Short sample description

Product type	textile floor covering
Type of manufacture	tufted
Type of surface	loop pile
Colouring / patterning	with tonal effect
Fibre composition of use surface	not tested
Colour	white, light grey, dark grey
Type of backing	needled fleece backing

Sparkasse Aachen
BIC 390 500 00 · AVC 1331222
IBAN DE22390500000001331222
SWIFT AACSDE33

HRB 8157Aachen
VAT No. DE209411312
Managing Director
Dr. Ernst Schröder

Textiles & Flooring Institute GmbH

3 Test results

According to EN ISO 354:2003 the tested specimen of the aforementioned product has a calculated sound absorption coefficient α_ω of 0,25 (- - -) (annex SA).

According to EN ISO 140-8:1998 the tested specimen of the aforementioned product has an acoustical insulation from impact noise of 25 dB (annex TS).

4 Annexes

The individual results as well as type and extent of the tests can be found in the following annexes:

Sound Absorption	SA 411900-02
Impact Sound Insulation	TS 411900-02

The annexes marked [a] are based on tests accredited according to EN ISO/IEC 17025.

Aachen, 18th January 2011

Dr. Ernst Schröder

The present document is provided with a qualified electronic signature and is valid without autograph signature.

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Annex SA – Sound Absorption

1 Procedure

Sample designation.....tempo mod350
TFI reference number.....11-11-0155
Testing period .....19th December 2011

The product identification characteristics can be found on the first page of the test report, respectively in annex KM.

2 Test method

Sound absorption according to EN ISO 354:2003

The standard describes a method to measure the sound absorption level in a room.

3 Remarks

Additionally, the practical and the calculated sound absorption levels according to EN ISO 11654-2:1997-07 are indicated.

The test was carried out by a subcontractor.

Sound absorption

ISO 354 : 2003

Measurement of sound absorption in a reverberation room

Tested material: **article: tempo mod350**

Test room: reverberation room, Hauptstraße 133, 52 477 Alsdorf

Test area: 12,0 m²

Test method: method of reverberation room

Date of test: 19.12.2011

Description of the test material:

Total thickness: **7,0 mm**

Mass / area: **2,90 kg/m²**

laid loose on the floor of the reverberation room

Dimension of the test area:

length: 3,84 m

width: 3,00 m

Reverberation room:

Basic plan: trapezoid

Volume: 211 m³

Temperature: 20 °C

Humidity: 65 %

f / Hz	125	250	500	1000	2000	4000
α_s	**0,00**	**0,02**	**0,15**	**0,37**	**0,30**	**0,32**

Surface areas of reverberation room: 213 m²

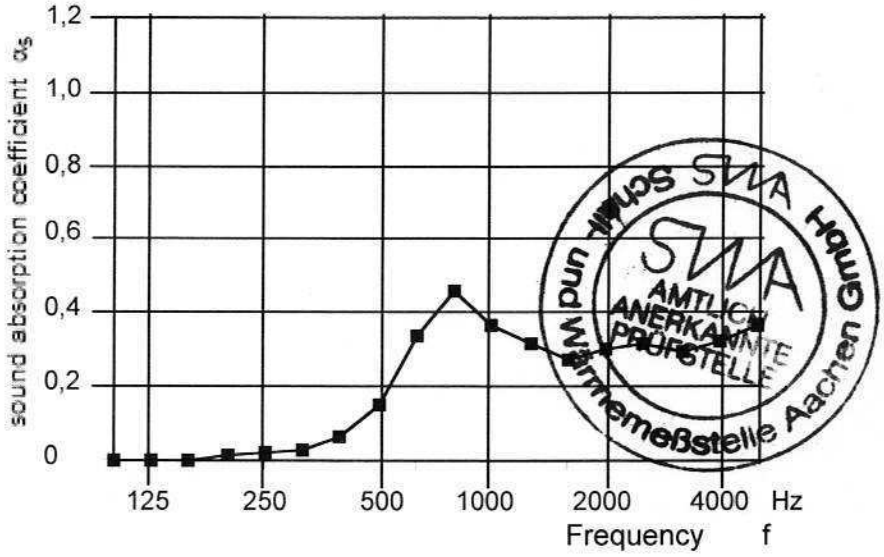
Surface areas of reflectors in reverberation room: 54,5 m²

Reflectors:

6 Alu panels of 1,0 m/ 2,0 m

7 Plywood panels of 1,5 m/ 1,3 m

1 Alu panels of 1,8 m/ 0,9 m



Test sound: third-octave noise

Reception filter: third-octave

Test report no.: **411 900**

Aachen 22.12.2011

SWA Schall- und Wärmemeßstelle Aachen GmbH

(Dipl.-Ing. A. Siebel)

Tested material: **article: tempo mod350**
Test room: reverberation room, Hauptstraße 133, 52 477 Alsdorf
Test area: 12,0 m²
Test method: method of reverberation room
Date of test: 19.12.2011

Description of the test material:

Total thickness: **7,0 mm**

Mass / area: **2,90 kg/m²**

laid loose on the floor of the reverberation room

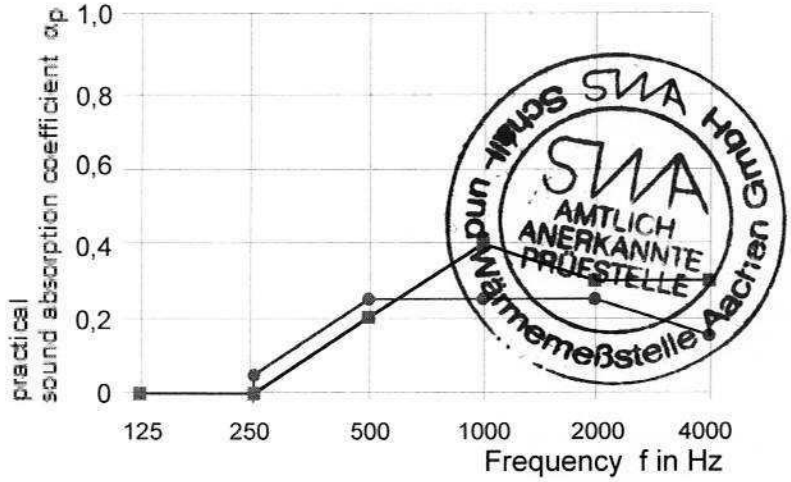
frequency - range of the "shapeindicators"	Frequency in Hz	pactical sound absorption coefficient
	125	0,00
L	250	0,00
M	500	0,20
M	1000	0,40
H	2000	0,30
H	4000	0,30

Results:
Relation - curve:

Reverberation room:
Basic plan: trapezoid
Volume: 211 m³
Temperature: 20 °C
Humidity: 65 %

Surfaces areas of reverberation room: 213 m²

Surfaces areas of reflectors in reverberation room: 54,5 m²



Evaluated sound absorptions grade α_w

α_w : **0,25 (- - -)** *)

*) It is recommended insistently to use this singular valuation with complete curve of sound absorption garde.

Test report no.: **411 900**

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(Dipl.-Ing. A. Siebel)

Reverberation times

Measurement of sound absorption in a reverberation room

Tested material: **article: tempo mod350**

Test room: reverberation room, Hauptstraße 133, 52 477 Alsdorf

Test area: 12,0 m²

Test method: method of reverberation room

Date of test: 19.12.2011

Description of the test material:

Total thickness: **7,0 mm**

Mass / area: **2,90 kg/m²**

laid loose on the floor of the reverberation room

Dimension of the test area:

length: 3,84 m

width: 3,00 m

Reverberation times:

f / Hz	To / s	T1 / s
100	8,99	8,95
125	7,47	7,42
160	6,86	6,85
200	7,14	6,95
250	7,44	7,04
315	6,71	6,36
400	6,91	6,05
500	7,37	5,44
630	7,53	4,16
800	6,91	3,44
1000	6,79	3,80
1250	6,45	3,93
1600	5,91	3,93
2000	5,51	3,60
2500	4,34	3,04
3150	3,46	2,63
4000	2,71	2,13
5000	2,07	1,67

Number of loudspeaker positions: 2 Test sound: third-octave noise

Number of microphone positions: 2 x 6 Reception filter: third-octave

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Annex TS – Impact Sound Insulation

1 Procedure

Sample designation.....tempo mod350
TFI reference number.....11-11-0155
Testing period .....16th December 2011

The product identification characteristics can be found on the first page of the test report, respectively in annex KM.

2 Test method

Impact sound transmission according to EN ISO 10140:2010 (all parts) (formerly EN ISO 140-8:1998)

The standard describes a method to measure the impact sound insulation of building products in a test stand.

3 Remarks

Additionally, the calculated value according to EN ISO 717-2:1997 is indicated.

The test was carried out by a subcontractor.

Impact sound insulation according ISO 10140 (all parts)

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

Product name **tempo mod350**
Construction: textile floor covering
Date of test: 2011-12-16

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

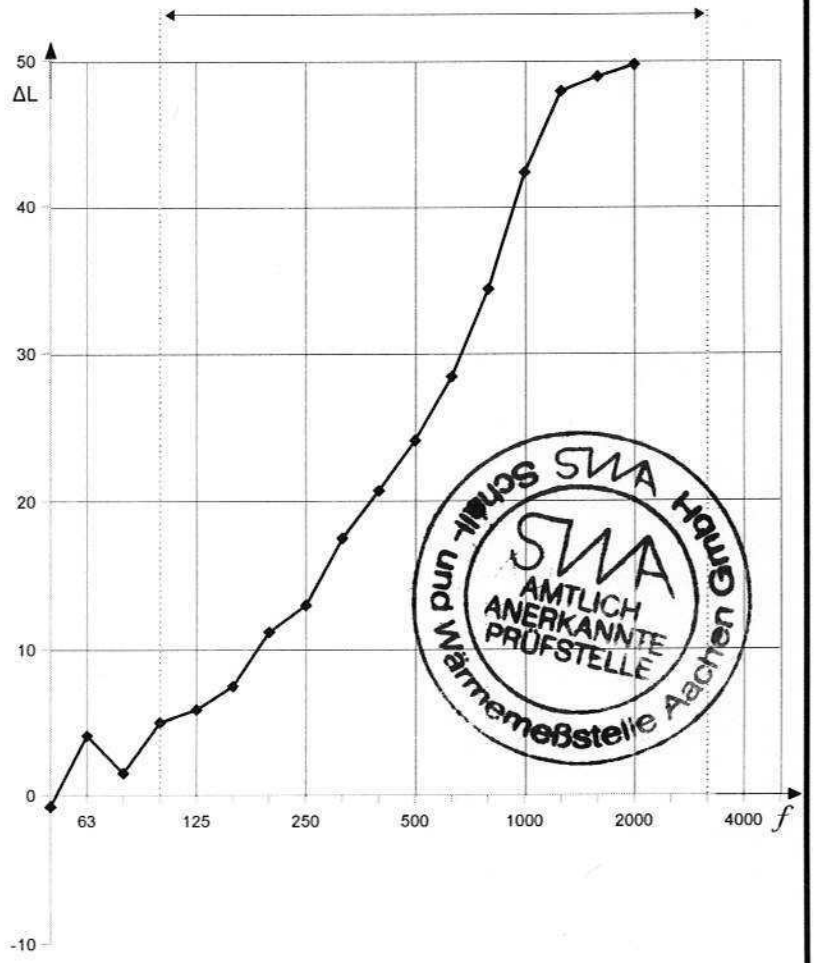
Description of test material:
Total thickness: 7.0 mm
Mass / area: 2,90 kg/m²

Specifies during the test (imprint or damage at the sample)

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		-0.8
63		4.1
80		1.5
100	61.0	5.0
125	61.4	5.9
160	64.8	7.5
200	63.7	11.2
250	65.4	13.0
315	65.6	17.5
400	66.1	20.7
500	66.0	24.1
630	66.4	28.4
800	66.3	34.3
1 000	66.2	42.3
1 250	66.6	47.9
1 600	67.2	48.9
2 000	67.1	49.7
2 500	67.0	58.0
3 150	66.4	57.0
4 000		--
5 000		--

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 = 25 dB **$C_{I,\Delta}$ = -10 dB** **$C_{I,r}$ = -1 dB** **$C_{I,r,50\text{-}2500}$ = 4 dB**

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

Report No.: 411 900

Aachen, 2011-12-22

SWA Schall- und Wärmemessstelle Aachen GmbH

(Dipl.-Ing. A. Siebel)