Textiles & Flooring Institute GmbH

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Test Report No. 420951-01

1 Procedure

Order ..... Sound absorption according to EN ISO 354:2003
Impact sound insulation according to EN ISO 10140:2010

Sample designation ..... texture 2000 wt

Order by ..... Egetaepper A/S

Date of order ..... 7th June 2012

Your reference ..... L. Ormstrup

TFI reference number 12-06-0110

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 ..... cut pile

Colouring / patterning ..... plain

Fibre composition of use surface ..... not tested

Colour ..... brown

Type of backing ..... woven textile backing

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3 Test results

Impact sound insulation (Annex TS) .....36 dB

Sound absorption (Annex SA) ..... α_ω = 0,25 (H)

4 Annexes

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

Sound Absorption	SA 420951-01
Impact Sound Insulation	TS 420951-01

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

Aachen, 11.07.2012

Dr. Ernst Schröder

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

Notified Body No. 1658

Vom Deutschen Institut für Bautechnik (DIBt) anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle

Deutscher Akkreditierungs Rat
DAP-PL-3457.00
akkreditiert für die in der Anlage zur DAP-Urkunde genannten Prüfverfahren

Sparkasse Aachen
BIC 390 500 00 · AVC 1331222
IBAN DE22390500000001331222
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HRB 8157 Aachen
VAT No. DE209411312
Managing Director
Dr. Ernst Schröder

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Annex SA – Sound Absorption

1 Procedure

Sample designation.....texture 2000 wt
TFI reference number.....12-06-0110
Testing period .....10th July 2012

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.

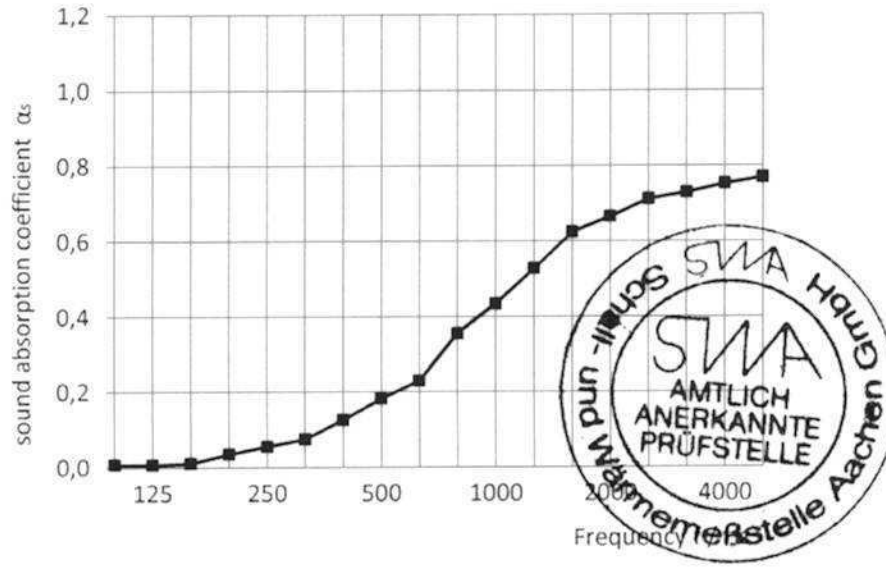
The test was carried out by a subcontractor.

Sound absorption according DIN EN ISO 354 : 2003 - 12(D)

Measurement of sound absorption in a reverberation room

Product name:	**texture 2000 wt**		
Construction:	textile floor covering		
Total thickness:	15,50 mm		
Mass / area:	3,60 kg/m²		
Test area:	11,99 m²	4 m x 2,997 m	
Installation:	Typ A	laid loose on the floor of the reverberation room	
Date of test:	10.07.2012		
Test room:	Room 06, Hauptstraße 133, 52477 Alsdorf		
Test method:	method of reverberation room	Basic plan:	trapezoid
Volume:	211 m³	Surface area:	213 m²
Reflectors:	6 alu panels of 1,0 m x 2,0 m 7 plywood panels of 1,5 m x 1,3 m 1 alu panel of 1,8 m x 0,9 m		
Test sound:	third-octave noise	2 loudspeaker positions	
Reception filter:	third octave	12 microphon positions	
Temperature:	20 °C		
Humidity:	65%		

f / Hz	α_s
100	0,01
125	**0,01**
160	0,01
200	0,04
250	**0,06**
315	0,08
400	0,13
500	**0,18**
630	0,23
800	0,36
1000	**0,44**
1250	0,53
1600	0,62
2000	**0,67**
2500	0,71
3150	0,73
4000	**0,75**
5000	0,77



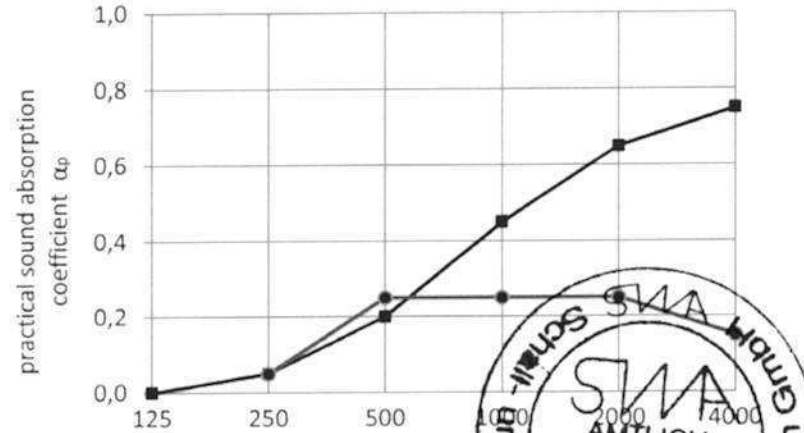
Sound absorptions according DIN EN ISO 11654 : 1997 - 07

Soundabsorption for the application in buildings - valuation of sound absorption

Product name:	**texture 2000 wt**		
Construction:	textile floor covering		
Total thickness:	15,50 mm		
Mass / area:	3,60 kg/m²		
Test area:	11,99 m²	4 m x 2,997 m	
Installation:	Typ A	laid loose on the floor of the reverberation room	
Date of test:	10.07.2012		
Test room:	Room 06, Hauptstraße 133, 52477 Alsdorf		
Test method:	method of reverberation room	Basic plan:	trapezoid
Volume:	211 m³	Surface area:	213 m²
Reflectors:	6 alu panels of 1,0 m x 2,0 m 7 plywood panels of 1,5 m x 1,3 m 1 alu panel of 1,8 m x 0,9 m		
Test sound:	third-octave noise	2 loudspeaker positions	
Reception filter:	third octave	12 microphon positions	
Temperature:	20 °C		
Humidity:	65%		

f / Hz	α_p	
125	0,00	L
250	0,05	M
500	0,20	M
1000	0,45	H
2000	0,65	H
4000	0,75	H

frequency - range of the "shapeindicators"



Evaluated sound absorptions grade

α_w = **0,25** (H) *)

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

SWA Schall- und Wärmemeßstelle Aachen GmbH
AMTLICH ANERKANNTE PRÜFSTELLE

Reverberation times

Measurement of sound absorptions in a reverberation room

Product name:	**texture 2000 wt**		
Construction:	textile floor covering		
Total thickness:	15,50 mm		
Mass / area:	3,60 kg/m²		
Test area:	11,99 m²	4 m x 2,997 m	
Installation:	Typ A	laid loose on the floor of the reverberation room	
Date of test:	10.07.2012		
Test room:	Room 06, Hauptstraße 133, 52477 Alsdorf		
Test method:	method of reverberation room	Basic plan:	trapezoid
Volume:	211 m³	Surface area:	213 m²
Reflectors:	6 alu panels of 1,0 m x 2,0 m 7 plywood panels of 1,5 m x 1,3 m 1 alu panel of 1,8 m x 0,9 m		
Test sound:	third-octave noise	2 loudspeaker positions	
Reception filter:	third octave	12 microphon positions	
Temperature:	20 °C		
Humidity:	65%		

Test results:

f / Hz	T1 / s	T2 / s
100	8,63	8,43
125	**6,41**	**6,30**
160	6,21	6,05
200	5,86	5,46
250	**6,36**	**5,65**
315	5,49	4,79
400	6,25	4,89
500	**6,70**	**4,69**
630	6,59	4,30
800	6,62	3,62
1000	**6,07**	**3,15**
1250	5,87	2,81
1600	5,68	2,53
2000	**5,27**	**2,36**
2500	4,65	2,15
3150	3,93	1,96
4000	**3,29**	**1,76**
5000	2,69	1,56

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Annex TS – Impact Sound Insulation

1 Procedure

Sample designation.....texture 2000 wt
TFI reference number.....12-06-0110
Testing period .....10th July 2012

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

2 Test method

Impact sound insulation 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.

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Impact sound insulation according ISO 10140 (all parts)

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

Product name **texture 2000 wt**
Construction: textile floor covering
Date of test: 2012-07-10

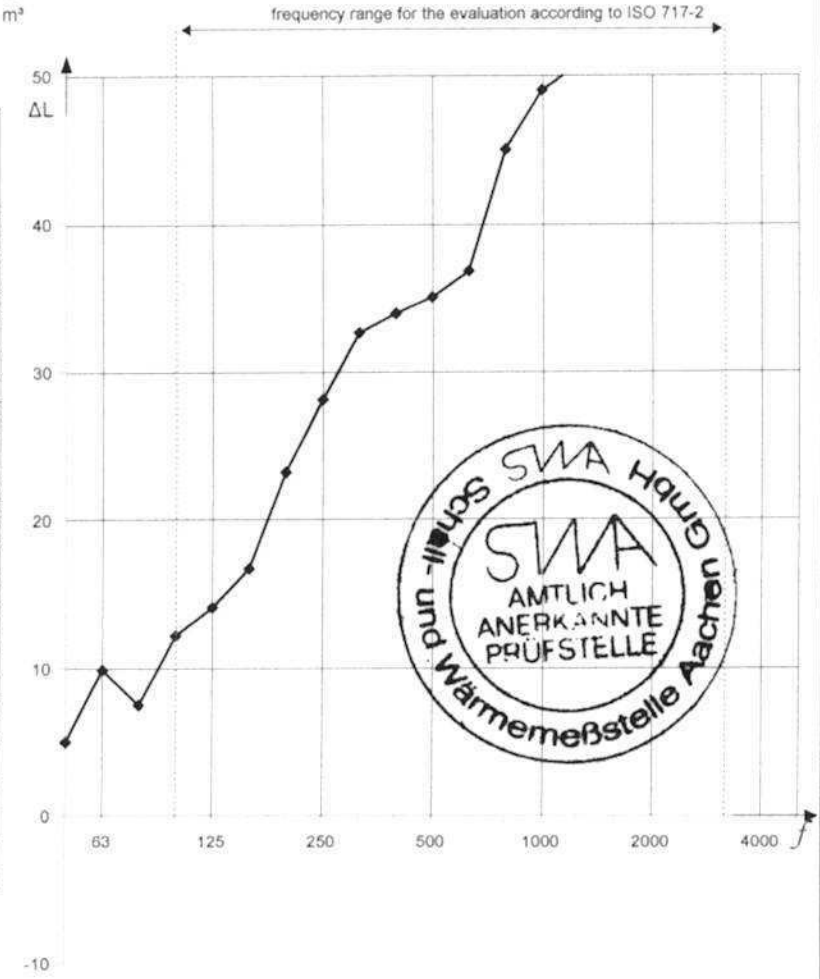
Classification: category I according to ISO 10140
installation: laid loose
setting time: - h
installed by: laboratory

Description of test material:
Total thickness: 15.5 mm
Mass / area: 3,60 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		5.0
63		9.9
80		7.5
100	61.0	12.2
125	61.4	14.1
160	64.8	16.7
200	63.7	23.2
250	65.4	28.1
315	65.6	32.6
400	66.1	33.9
500	66.0	35.0
630	66.4	36.8
800	66.3	45.0
1 000	66.2	49.0
1 250	66.6	50.7
1 600	67.2	50.9
2 000	67.1	52.3
2 500	67.0	--
3 150	66.4	--
4 000		--
5 000		--



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

Calculation according to ISO 717-2

Δl_w = 36 dB $C_{I,\Delta}$ = -13 dB $C_{I,r}$ = 2 dB $C_{I,r,50\text{-}2500}$ = 9 dB

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

Report No.: 420 951
ID: 126/204
Aachen, 2012-07-10

SWA Schall- und Wärmemessstelle Aachen GmbH

(Dipl.-Ing. A. Siebel)