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Aachen, **17.02.2014**

Report No.: **R142/28**

Test: **Sound absorption according DIN EN ISO 354 : 2003 - 12(D)**
Measurement of sound absorption in a reverberation room

Applicant: Marlin Contract b.v.

Product name: Continental

Construction: textile floor covering

Date of test: 04.04.2013

Sampling: Applicant

Inhalt:

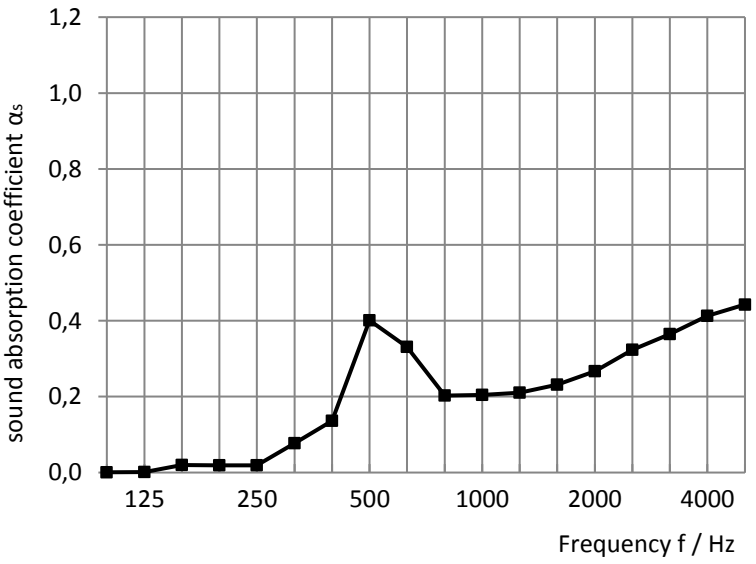
Umfang des Berichtes: 4 pages

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

Measurement of sound absorption in a reverberation room

Product name:	**Continental**		
Construction:	textile floor covering		
Total thickness:	7,50 mm		
Mass / area:	4,72 kg/m²		
Test area:	12,0 m²	4 m * 3 m	
Installation:	Typ A	laid loose on the floor of the reverberation room	
Date of test:	04.04.2013		
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:	19°C		
Humidity:	58%		

f / Hz	α_s
100	0,00
125	**0,00**
160	0,02
200	0,02
250	**0,02**
315	0,08
400	0,14
500	**0,40**
630	0,33
800	0,20
1000	**0,20**
1250	0,21
1600	0,23
2000	**0,27**
2500	0,32
3150	0,36
4000	**0,41**
5000	0,44



Sound absorptions according DIN EN ISO 11654 : 1997 - 07

Soundabsorption for the application in buildings - valuation of sound absorption

Product name:	**Continental**	
Construction:	textile floor covering	
Total thickness:	7,50 mm	
Mass / area:	4,72 kg/m²	
Test area:	12,0 m²	4 m * 3 m
Installation:	Typ A	laid loose on the floor of the reverberation room
Date of test:	04.04.2013	

Test room:	Room 06, Hauptstraße 133, 52477 Alsdorf		
Test method:	method of reverberation room	Basic plan:	trapezoid
Volume:	211 m³	Surface area:	213 m²

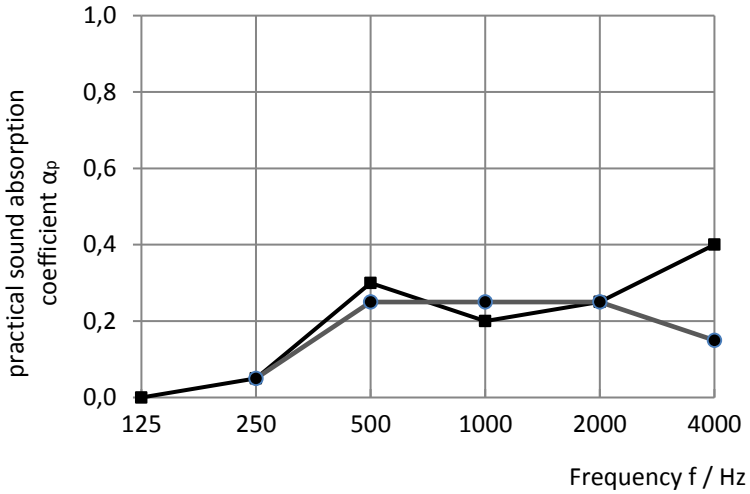
Reflectors: 6 alu panels of 1,0 m x 2,0 m
7 plywood panels of 1,5 m x 1,3 m
1 alu panel of 1,8 m x 0,9 m

Test sound:	third-octave noise	2 loudspeaker positions
Reception filter:	third octave	12 microphon positions

Temperature: 19°C
Humidity: 58%

f / Hz	α_p	
125	0,00	
250	0,05	L
500	0,30	M
1000	0,20	M
2000	0,25	H
4000	0,40	H

frequency - range of the "shapeindicators"



Evaluated sound absorptions grade α_w

α_w = 0,25 (H) *)

class E

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

Test report no.: R142/28

Aachen, 17.02.2014

SWA Schall- und Wärmemessstelle Aachen GmbH

(Dr.-Ing. A. Siebel)

2014-02-17T13:21:34+01:00

Reverberation times

Measurement of sound absorptions in a reverberation room

Product name:	**Continental**		
Construction:	textile floor covering		
Total thickness:	7,50 mm		
Mass / area:	4,72 kg/m²		
Test area:	12,0 m²	4 m * 3 m	
Installation:	Typ A	laid loose on the floor of the reverberation room	
Date of test:	04.04.2013		
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:	19°C		
Humidity:	58%		

Test results:

f / Hz	T1 / s	T2 / s
100	8,66	8,64
125	**7,22**	**7,21**
160	7,56	7,19
200	7,52	7,16
250	**6,63**	**6,35**
315	6,49	5,52
400	6,50	4,96
500	**7,44**	**3,63**
630	7,54	4,02
800	6,96	4,65
1000	**6,61**	**4,48**
1250	6,27	4,29
1600	5,76	3,92
2000	**5,11**	**3,45**
2500	4,20	2,84
3150	3,28	2,31
4000	**2,63**	**1,90**
5000	1,95	1,49

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