



Helioscreen - Divisie van Hunter Douglas
Belgium nv
Dhr. Olivier Vanwijnsberghe
Dijkstraat 26
9160 LOKEREN

Your notice of Your reference Date
04-11-2011 PTN11_108 22-12-2011

Analysis Report 11.82628.01

Required tests :
ISO 354 (2003) Determination of the sound absorption

Identification number	Information given by the client	Date of receipt
T1111831	Panama 3%	04-11-2011
T1111832	Sergé 3 %	04-11-2011
T1111833	Star 1%	04-11-2011

Petra Wittevrongel

Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples. In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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INRICHTING ERKEND BIJ TOEPASSING VAN DE BESLUITWET VAN 30 JANUARI 1947 / ÉTABLISSEMENT RECONNU PAR APPLICATION DE L'ARRÊTÉ-LOI DU 30 JANVIER 1947



Analysis Report 11.82628.01

Date 22-12-2011

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Reference: T1111831 - Panama 3%
T1111832 - Sergé 3 %
T1111833 - Star 1%

Determination of the sound absorption

Standard used ISO 354 (2003)

Performed in an external lab Schall- und Wärmemeßstelle Aachen

Centexbel is not responsible for the test results

Attachment 1 Analysis report 1110/95 & 1110/96 & 1110/97

Performed in an external lab



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Staatlich anerkannte Sachverständige
für den Schall- u. Wärmeschutz IK-Bau NRW

Bankverbindung: Sparkasse Aachen
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22.11.2011

TEST REPORT NO. : 1110/96 SA

Sound absorption of DIN EN ISO 354 : 2003 - 12

Date of test: 22.11.2011

Customer: CENTEXBEL

Tested material: **T1111832** (curtain, not folded)
test according to ISO 354 : 2003 : Typ G

10 cm between the curtain and the wall of the floor
of the floor of the reverberation room

4. Test results

Enclosure SA

Sound absorption

DIN EN ISO 354 : 2003 - 12

Page 2 of 4

Measurement of sound absorption in a reverberation room

Customer: **CENTEXBEL**

Tested material: **article: T1111832 (curtain, not folded)**

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

Test area: 8,9 m²

Test method: method of reverberation room

Date of test: 22.11.2011

Description of the test material:

Total thickness: - mm

Mass / area: - kg/m²

10 cm between the curtain and the wall of the floor of the reverberation room

Dimension of the test area:

length: 3,55 m

width: 2,52 m

Reverberation room:

Basic plan: trapezoid

Volume: 211 m³

Temperature: 20 °C

Humidity: 65 %

f / Hz	125	250	500	1000	2000	4000
α_s	0,01	0,04	0,05	0,10	0,13	0,15

Surface areas of reverberation room: 213 m²

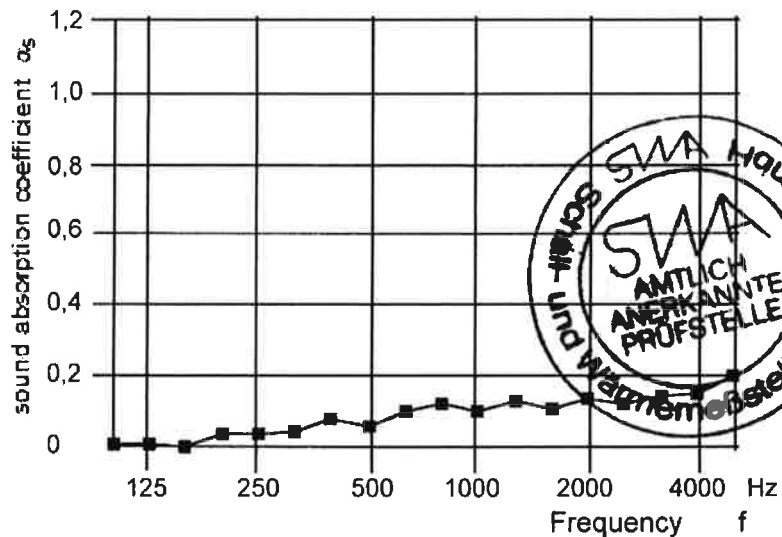
Surface areas of reflectors in reverberation room: 54,5 m²

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.:

1110/96 SA

Aachen

22.11.2011

SWA Schall- und Wärmemeßstelle Aachen GmbH

(Dr. Ing. A. Siebel)

4.1 Valuation of test results

Enclosure SA


Soundabsorber for the application in buildings - valuation of sound absorption Sound absorption of DIN EN ISO 11654 : 1997- 07

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Customer: **CENTEXBEL**

Tested material: **article: T1111832 (curtain, not folded)**
 Test room: reverberation room, Hauptstraße 133, 52 477 Alsdorf
 Test area: 8,9 m²
 Test method: method of reverberation room
 Date of test: 22.11.2011
 Description of the test material:
 Total thickness: - mm
 Mass / area: - kg/m²
 10 cm between the curtain and the wall of the floor of the reverberation room

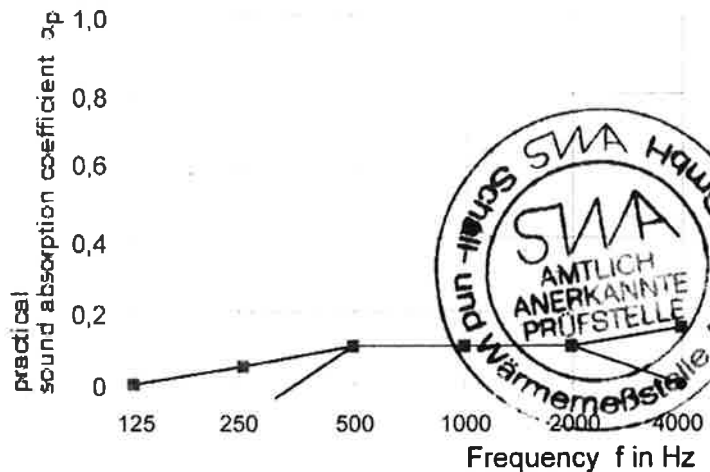
frequency - range of the "shapeindi- cators"	Frequency in Hz	pactical sound absorption coefficient
	125	0,00
L	250	0,05
M	500	0,10
M	1000	0,10
H	2000	0,10
H	4000	0,15

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 : 0,10 (- - -)^{*)}

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

Test report no.:

1110/96 SA

Aachen

22.11.2011

SWA Schall- und Wärmemeßstelle Aachen GmbH

(Dipl.-Ing. A. Siebelf)

4.2 Test results

Enclosure SA

Reverberation times

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Measurement of sound absorption in a reverberation room

Customer: **CENTEXBEL**Tested material: **article: T1111832 (curtain, not folded)**

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

Test area: 8,9 m²

Test method: method of reverberation room

Date of test: 22.11.2011

Description of the test material:

Total thickness: - mm

Mass / area: - kg/m²

10 cm between the curtain and the wall of the floor of the reverberation room

Dimension of the test area:

length: 3,55 m

width: 2,52 m

Reverberation times:

f / Hz	T1 / s	T2 / s
100	7,87	7,80
125	6,75	6,69
160	6,40	6,37
200	7,67	7,13
250	7,20	6,72
315	6,57	6,09
400	6,99	6,12
500	7,16	6,51
630	7,43	6,27
800	7,01	5,76
1000	6,69	5,71
1250	6,45	5,30
1600	6,04	5,19
2000	5,79	4,83
2500	4,63	4,06
3150	3,80	3,34
4000	3,02	2,70
5000	2,39	2,13

Number of loudspeaker positions: 2

Test sound: third-octave noise

Number of microphone positions: 2 x 6

Reception filter: third-octave

Test report no.:

1110/96 SA

Aachen

22.11.2011

SWA Schall- und Wärmemeßstelle Aachen GmbH

