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IBAN: DE22390500000001331222 • SWIFT: AACSDDE33Managing Director:  
Dr. Ernst Schröder • Dr. Helmut Klingenberger**Test Report No. 370583-01****1 Procedure**

Order ..... Determination of the acoustical characteristics  
Product name ..... epoca compact AB = ALFA, BETA, BETA DESIGN  
Order by ..... Egetaeper A/S  
Order of ..... 13.04.2007  
Your reference ..... Lenette Ormstrup  
TFI reference number ..... 07-04-0116  
Test official at TFI ..... Manuela Schönbein, extension -230

**2 Short sample description**

Product type ..... textile floor covering  
Type of manufacture ..... woven  
Type of surface ..... loop pile  
Colouring / patterning ..... with tonal effect  
Fibre composition of use surface ..... not determined  
Colour ..... grey, light grey  
Type of backing ..... needlefleece backing (synthetic)

\* = manufacturer's declaration



EN 14041:2004  
Notified Body  
No. 1658

Testing laboratory, inspection and certification body  
recognized according to §28 of the "Landesbauordnung  
NRW" for flame resistant floor coverings



Accredited for the test procedure mentioned  
in the Addendum to the DAP-Certificate

### 3 Test results

According to EN 20354:1993 the tested specimen of the above mentioned quality has a calculated sound absorption coefficient  $\alpha_a$  of 0,15 (--) (annex SA).

According to ISO 140-8:1998 the tested specimen of the above mentioned quality has an acoustical insulation from impact noise of 20 dB (annex TS).

### 4 Annexes

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

SA; TS

The tests marked with <sup>a</sup> are accredited according to EN ISO/IEC 17025.

Aachen, 11.05.2007



  
Dr. Ernst Schröder  
- Managing Director -

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DAP-PL-3457.00  
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## **Annex SA - Airbourn sound absorption**

### **1 Procedure**

Product name ..... epoca compact AB

TFI reference number..... 07-04-0116

Test date ..... 24.04.2007

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 20354:1993.

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

### **3 Remarks**

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

The test was carried out by a subcontractor.



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Prüf-, Überwachungs- und Zertifizierungsstelle nach §28  
Landesbauordnung NRW für schwer entflammbare Bo-  
denbeläge

**DAP**  
Deutscher  
Akkreditierungs  
Rat  
DAP-PL-3457.00

Akkreditiert für die in der Anlage zur  
DAP-Urkunde genannten Prüfverfahren

#### 4. Test results

Enclosure SA

#### Sound absorption

DIN EN 20 354 : 1993 - 07 (ISO 354 : 1995)

Measurement of sound absorption in a reverberation room

Page 2 of 4

Tested material:

article: epoca compact AB

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

Test area: 10,0 m<sup>2</sup>

Test method: method of reverberation room

Date of test: 24.04.2007

#### Description of the test material:

Total thickness: 6,7 mm

Mass / area: 2,97 kg/m<sup>2</sup>

laid loose on the floor of the reverberation room

Dimension of the test area:

length: 4,02 m

width: 2,49 m

#### Reverberation room:

Basic plan: trapezoid

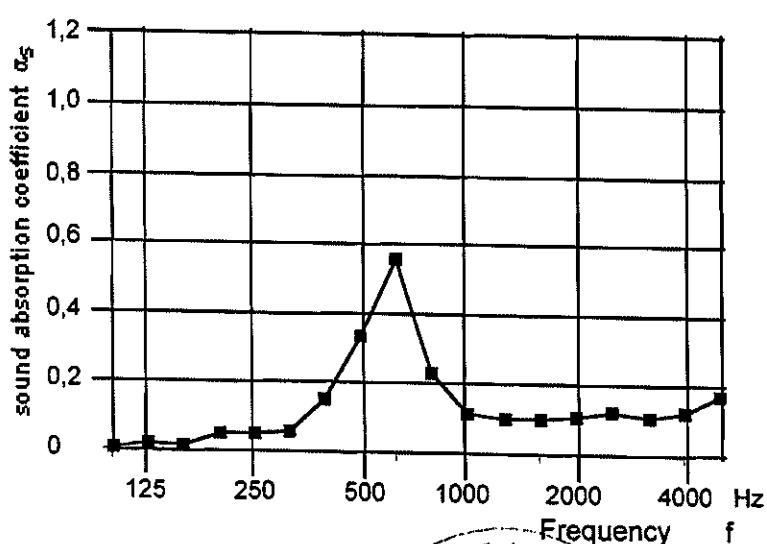
Volume:	211 m <sup>3</sup>	f / Hz	125	250	500	1000	2000	4000
			0,02	0,05	0,34	0,11	0,11	0,12
Temperature: 20 °C		α <sub>s</sub>						
Humidity: 65 %								

Surface areas of reverberation room: 213 m<sup>2</sup>

Surface areas of reflectors in reverberation room: 54,5 m<sup>2</sup>

#### 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 report no.:

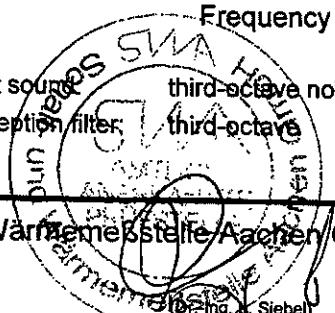
370 583

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09.05.2007

SWA Schall- und Wärmemessstelle Aachen GmbH

(Ing.-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**

Page 3 of 4

Tested material:

article: epoca compact AB

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

Test area: 10,0 m<sup>2</sup>

Test method: method of reverberation room

Date of test: 24.04.2007

Description of the test material:

Total thickness: 6,7 mm

Mass / area: 2,97 kg/m<sup>2</sup>

laid loose on the floor of the reverberation room

Results:



Relation - curve:



Reverberation room:

Basic plan: trapezoid

Volume: 211 m<sup>3</sup>

Temperature: 20 °C

Humidity: 65 %

Surfaces areas of reverberation room:

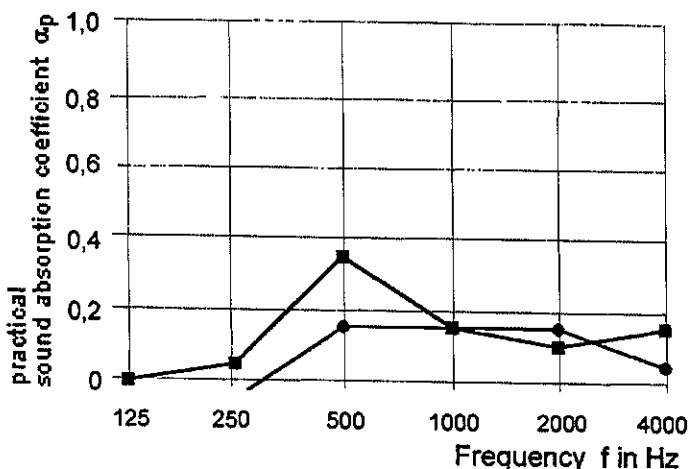
213 m<sup>2</sup>

Surfaces areas of reflectors in reverberation room:

54,5 m<sup>2</sup>

frequency - range  
of the "shapeindicators"

frequency in Hz	practical sound absorption coefficient
125	0,00
250	0,05
500	0,35
M	1000
	0,15
H	2000
	0,10
H	4000
	0,15



Evaluated sound absorptions grade A

$\alpha_w: 0,15 (- - -)^*$

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

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A a c h e n

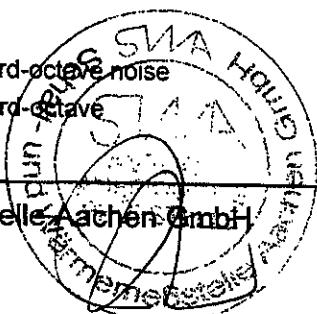
09.05.2007

SWA Schall- und Wärmemessstelle Aachen GmbH

(Schrift. A. Siebel)

(Dr.-Ing. L. Siebel)

<b>4.2 Test results</b>			Enclosure SA			
<b>Reverberation times</b> Measurement of sound absorption in a reverberation room			Page 4 of 4			
Tested material:	article: epoca compact AB					
Test room:	reverberation room, Hauptstraße 133, 52 477 Alsdorf					
Test area:	10,0 m <sup>2</sup>					
Test method:	method of reverberation room					
Date of test:	24.04.2007					
<b>Description of the test material:</b>						
Total thickness:	6,7 mm					
Mass / area:	2,97 kg/m <sup>2</sup>					
laid loose on the floor of the reverberation room						
Dimension of the test area:						
length:	4,02 m					
width:	2,49 m					
<b>Reverberation times:</b>						
<b>f / Hz</b>	<b>T<sub>0</sub> / s</b>	<b>T<sub>1</sub> / s</b>				
100	6,92	6,80				
125	6,81	6,55				
160	6,18	6,05				
200	7,88	7,10				
250	7,15	6,46				
315	5,91	5,40				
400	6,25	4,91				
500	6,48	3,95				
630	6,65	3,20				
800	6,45	4,52				
1000	6,19	5,13				
1250	6,15	5,21				
1600	5,60	4,81				
2000	5,19	4,45				
2500	4,45	3,86				
3150	3,62	3,26				
4000	2,96	2,67				
5000	2,34	2,10				
Number of loudspeaker positions:	2	Test sound:	third-octave noise			
Number of microphone positions:	2 x 6	Reception filter:	third-octave			
Test report no.:	370 583	SWA Schall- und Wärmemessstelle Aachen GmbH				
Aachen	09.05.2007					



## **Annex TS - Impact sound transmission**

### **1 Procedure**

Product name ..... ege compact AB

TFI reference number ..... 07-04-0116

Test date ..... 23.04.2007

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 140-8:1998.

The standard describes a method to measure the impact sound absorption of floor coverings under laboratory conditions, by means of a standardised hammer device.

### **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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#### 4. Test results

Enclosure TS

### Impact sound insulation of ISO 140-8 : 1998 - 03

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

Page 2 of 2

Tested material:

article: epoca compact AB

Test rooms: 02 u. K2, Hauptstraße 133, 52 477 Alsdorf

Test area: 4,24 m x 4,15 m Test area of slab

Date of test: 23.04.2007

#### Description of the test material:

Total thickness: 6,7 mm

Mass / area: 2,97 kg/m<sup>2</sup>

laid loose on a 140 mm thick reinforced concrete floor slab. Test material: 4 x 1m x 1m

Receiving room:

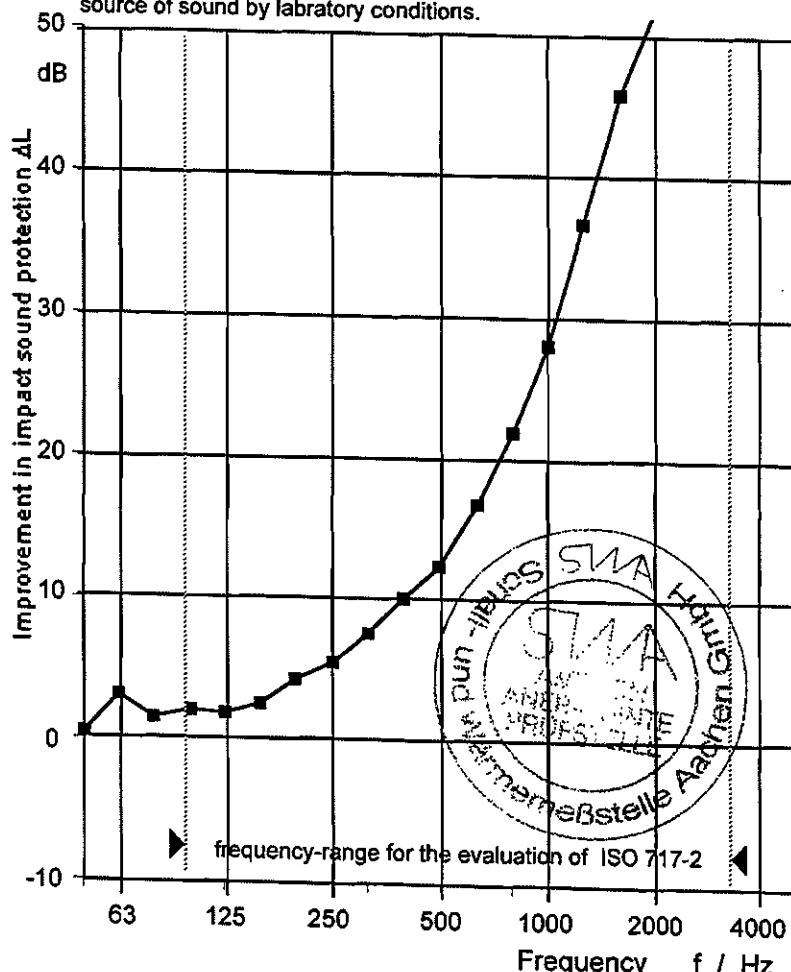
Volume: 58,9 m<sup>3</sup>

Temperature: 20 °C

Humidity: 65 %

The results are based on tests, which were effected with an artificial source of sound by laboratory conditions.

Frequency Hz	$L_n$ Bare floor dB	$\Delta L$ dB
50		0,6
63		3,1
80		1,6
100	61,0	2,1
125	61,4	2,0
160	64,8	2,7
200	63,7	4,3
250	65,4	5,6
315	65,6	7,8
400	66,1	10,1
500	66,0	12,5
630	66,4	16,9
800	66,3	21,9
1000	66,2	28,1
1250	66,6	36,7
1600	67,2	45,8
2000	67,1	52,0
2500	67,0	—
3150	66,4	—
4000		—
5000		—



Reception filter: third-octave

Calculation according ISO 717-2:

Impact sound improvement index $\Delta L_w = 20 \text{ dB}$ (VM = 20 dB)	non rated reduction of impact sound $\Delta L_{lin} = \Delta L_w + C_{I,\Delta}$ $\Delta L_{lin} = 9 \text{ dB}$	$C_{I,\Delta} = -11 \text{ dB}$ $C_{I,r} = 0 \text{ dB}$ $C_{I,r,50-2500} = 2 \text{ dB}$
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Test report no.:

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(Fach-Ing. A. Siebel)

(Dr.-Ing. L. Siebel)