

# Flo + basfill

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



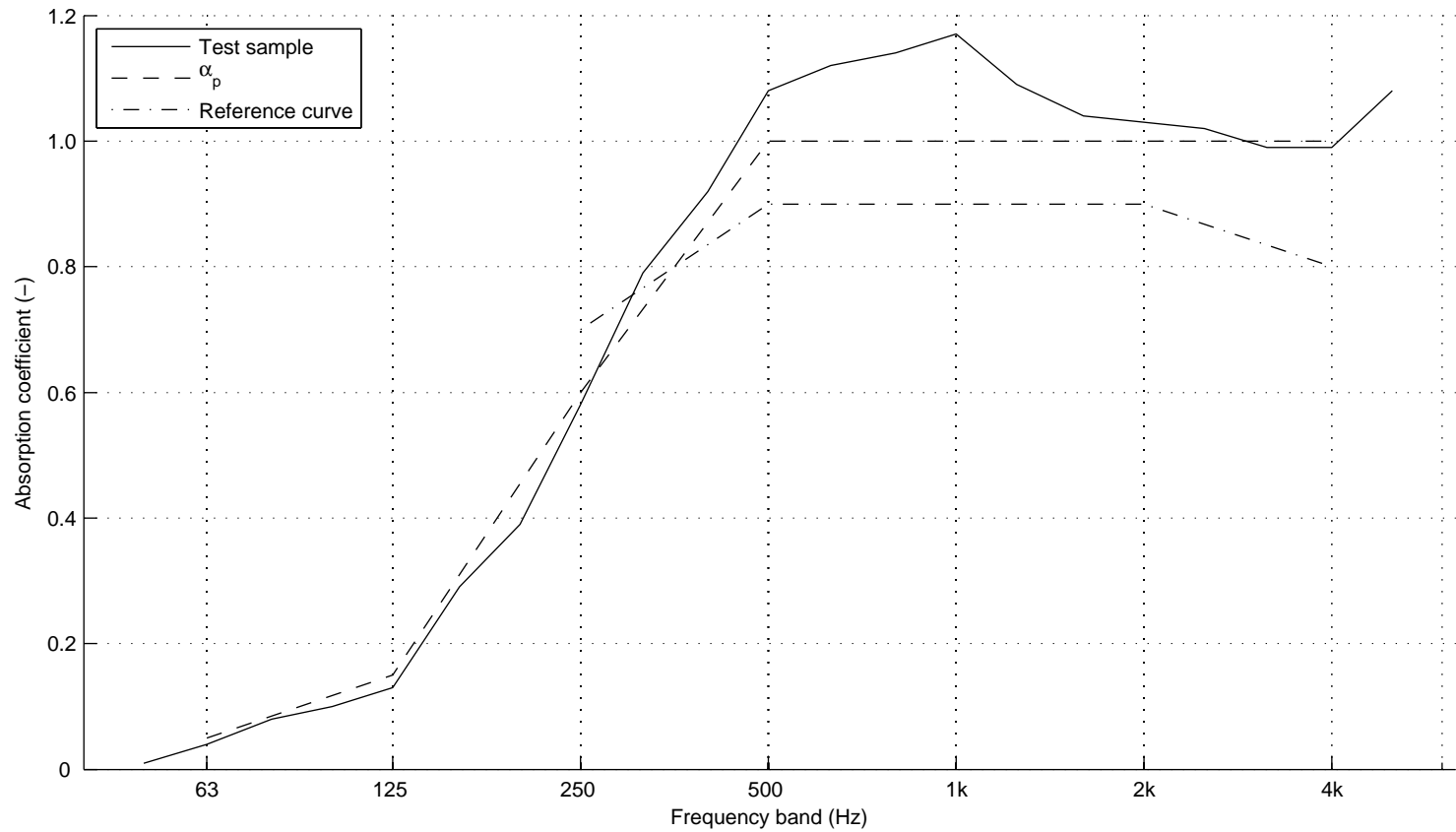
Report number:  
14-41-M3  
Date  
2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.01	
63	0.04	0.05
80	0.08	
100	0.10	
125	0.13	0.15
160	0.29	
200	0.39	
250	0.58	0.60
315	0.79	
400	0.92	
500	1.08	1.00
630	1.12	
800	1.14	
1000	1.17	1.00
1250	1.09	
1600	1.04	
2000	1.03	1.00
2500	1.02	
3150	0.99	
4000	0.99	1.00
5000	1.08	

Client: Effect  
 Manufacturer: Effect  
 Product identification: Flo+basfill  
 Description of test specimen: Flo med fyllning, 30 paneler direkt på golv, typ A-montage.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 14 °C (empty: 14 °C)  
 Air humidity: 77.3% (empty: 74.6%)  
 Air pressure: 101.3 kPa (empty: 101.3 kPa)  
 Size of specimen: 10.31 m<sup>2</sup>

Measurement date: 2013-06-17  
 Measured by: Pontus Thorsson



$\alpha_w = 0.90$

Absorption class = A

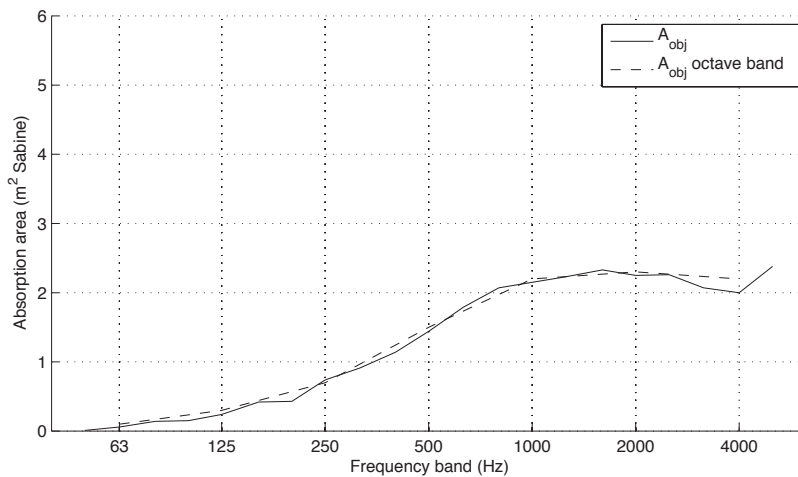
**SOUND ABSORPTION AREA FOR OBJECT**

Measured and evaluated according to SS-EN ISO 354 and SS 25269 (proposal)

CLIENT: Offecct AB

OBJECT: Soundwave Flo, 1 group consisting of 3 x 2 panels (each panel is 585 x 585 x 51 mm), (2 groups were measured, total area tested 4.10 m<sup>2</sup>)

1/3 octave band (Hz)	Equivalent sound absorption area / unit (m <sup>2</sup> Sabine)	
	1/3 octave band	Octave band
50	0.01	
63	0.06	0.1
80	0.14	
100	0.15	
125	0.24	0.3
160	0.42	
200	0.43	
250	0.74	0.7
315	0.91	
400	1.14	
500	1.44	1.5
630	1.79	
800	2.07	
1000	2.15	2.2
1250	2.23	
1600	2.33	
2000	2.25	2.3
2500	2.26	
3150	2.07	
4000	2.00	2.1
5000	2.38	



**CONDITIONS**

Date of test: 2013-06-17  
Date: 2013-09-03

Object area: 4.10 m<sup>2</sup>  
Reverberation room volume: 200 m<sup>3</sup>

Relative humidity: 78%  
Temperature: 14°C

Test report: 13-99-R1 (Akustikverkstan Sweden)  
Signature: Pontus Thorsson

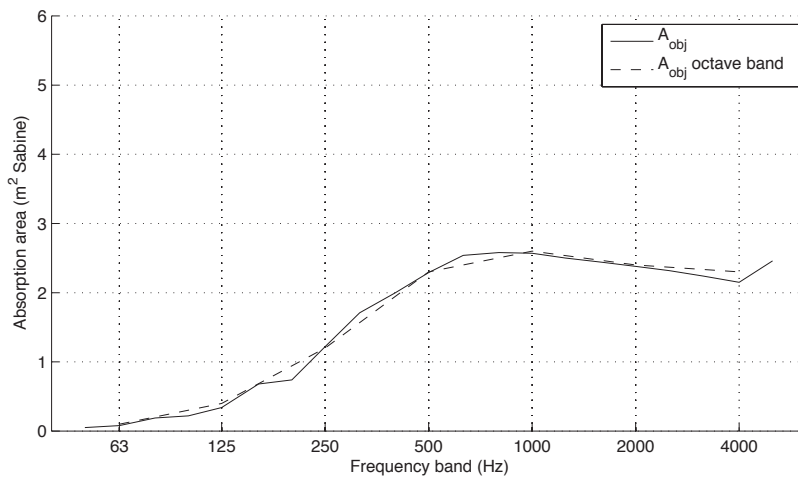
**SOUND ABSORPTION AREA FOR OBJECT**

Measured and evaluated according to SS-EN ISO 354 and SS 25269 (proposal)

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OBJECT: Soundwave Flo with Basfill, 1 group consisting of 3 x 2 panels (each panel is 585 x 585 x 51 mm), (2 groups were measured, total area tested 4.10 m<sup>2</sup>)

1/3 octave band (Hz)	Equivalent sound absorption area / unit (m <sup>2</sup> Sabine)	
	1/3 octave band	Octave band
50	0.05	
63	0.09	0.1
80	0.19	
100	0.22	
125	0.34	0.4
160	0.68	
200	0.74	
250	1.22	1.2
315	1.71	
400	2.00	
500	2.29	2.3
630	2.54	
800	2.58	
1000	2.57	2.5
1250	2.50	
1600	2.44	
2000	2.38	2.4
2500	2.32	
3150	2.24	
4000	2.15	2.3
5000	2.46	



**CONDITIONS**

Date of test: 2013-06-17  
Date: 2013-09-03

Object area: 4.10 m<sup>2</sup>  
Reverberation room volume: 200 m<sup>3</sup>

Relative humidity: 77%  
Temperature: 14°C

Test report: 13-99-R1 (Akustikverkstan Sweden)  
Signature: Pontus Thorsson