

# Village + basfill

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



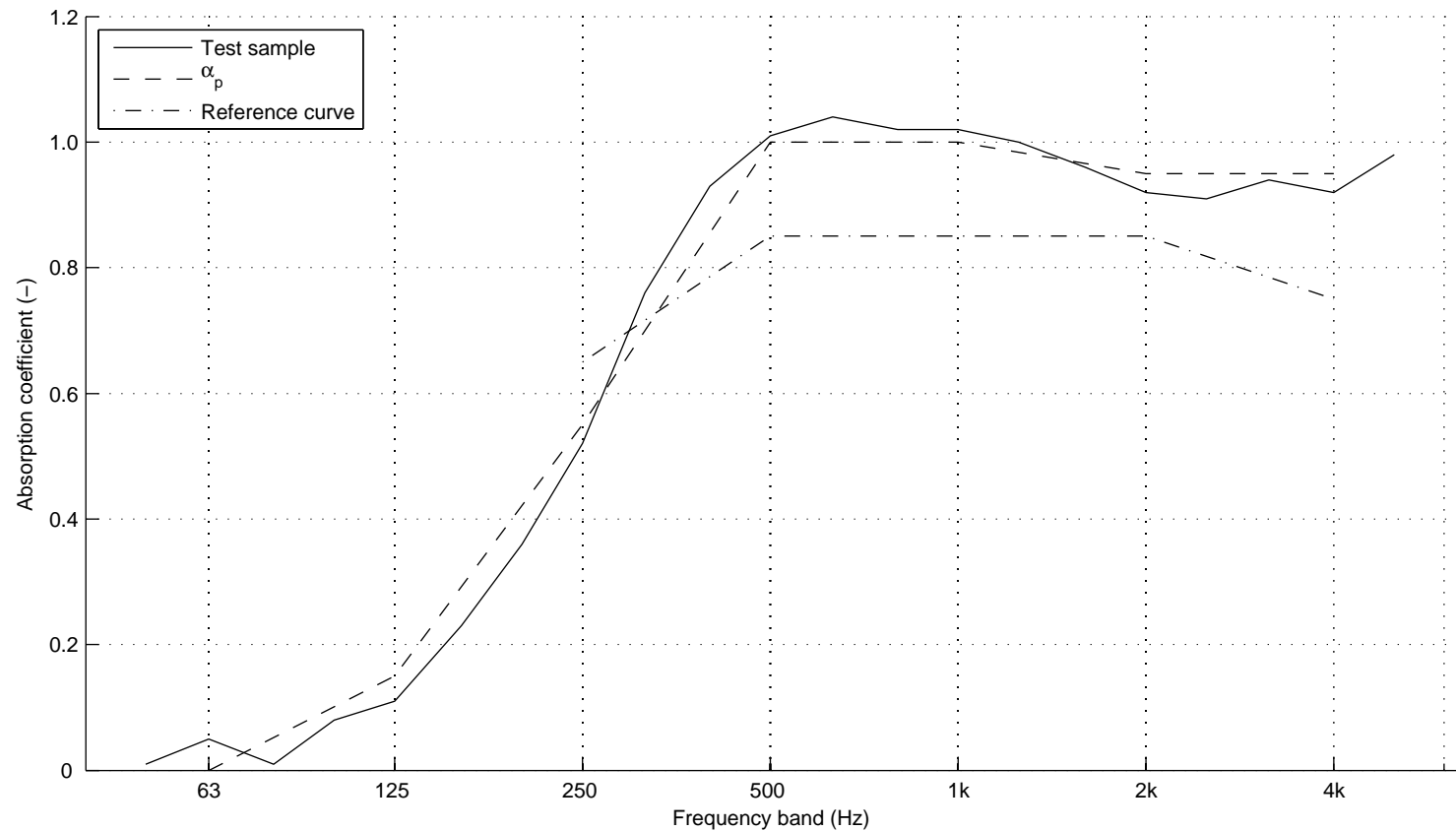
Report number:  
14-41-M15  
Date  
2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.01	
63	0.05	0.00
80	0.01	
100	0.08	
125	0.11	0.15
160	0.23	
200	0.36	
250	0.52	0.55
315	0.76	
400	0.93	
500	1.01	1.00
630	1.04	
800	1.02	
1000	1.02	1.00
1250	1.00	
1600	0.96	
2000	0.92	0.95
2500	0.91	
3150	0.94	
4000	0.92	0.95
5000	0.98	

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

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 16 °C (empty: 14 °C)  
 Air humidity: 81.6% (empty: 74.6%)  
 Air pressure: 101.3 kPa (empty: 101.3 kPa)  
 Size of specimen: 10.31 m<sup>2</sup>

Measurement date: 2013-06-20  
 Measured by: Pontus Thorsson



$\alpha_w = 0.85$

Absorption class = B

## Village (2x3)

SOUND ABSORPTION AREA ACCORDING TO ISO 354

Measurement of sound absorption area in a reverberation room



Report number:  
14-41-M33  
Date  
2014-06-05

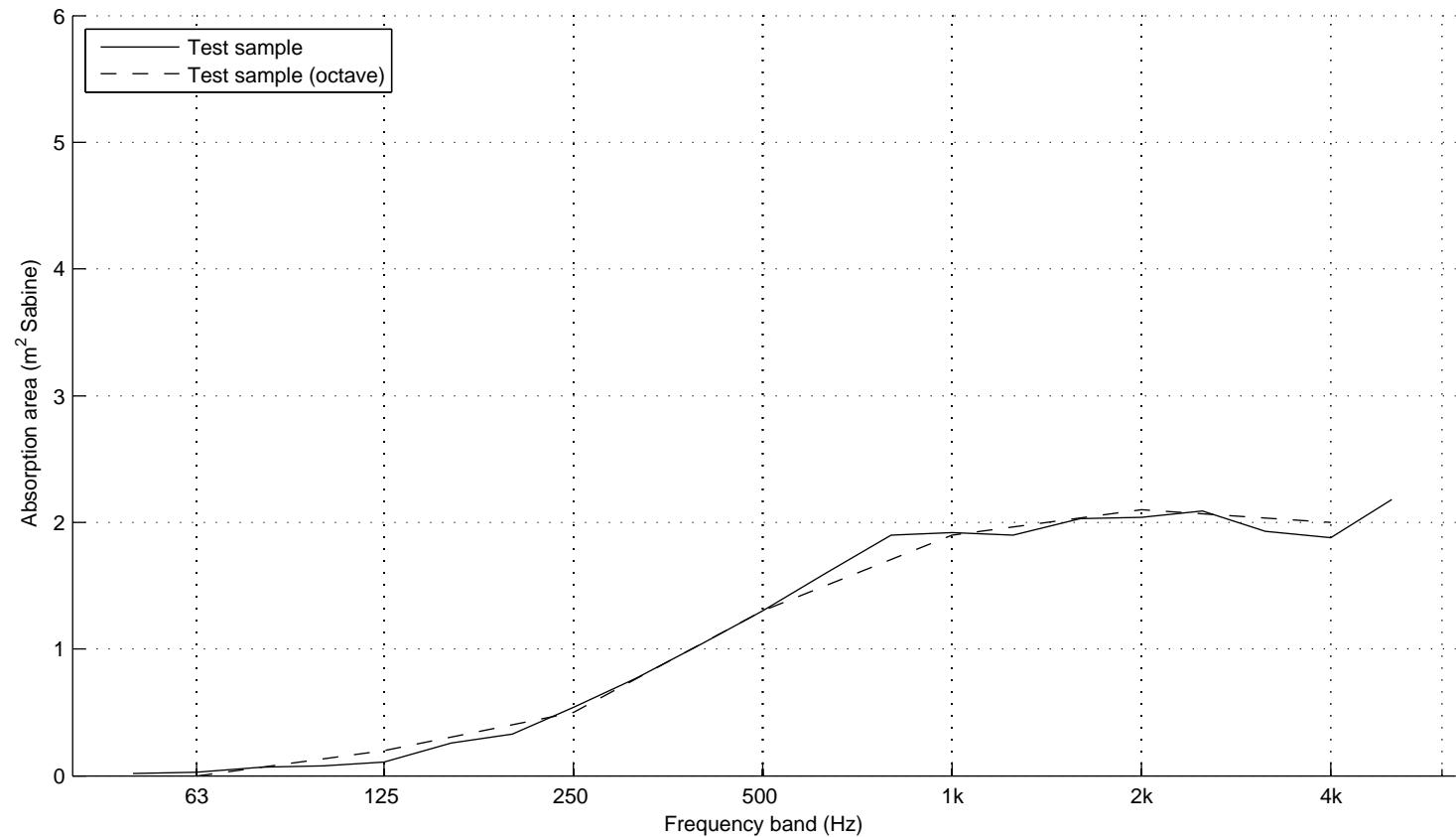
Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.02	
63	0.03	0.0
80	0.07	
100	0.08	
125	0.11	0.2
160	0.26	
200	0.33	
250	0.54	0.5
315	0.77	
400	1.04	
500	1.30	1.3
630	1.60	
800	1.90	
1000	1.92	1.9
1250	1.90	
1600	2.03	
2000	2.04	2.1
2500	2.09	
3150	1.93	
4000	1.88	2.0
5000	2.18	

Client: Effect  
 Manufacturer: Effect  
 Product identification: Soundwave Village

Description of test specimen: Soundwave Village placerad på golvet. Ljudabsorptionsarea för grupp av objekt (2x3).

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 14.1 °C (empty: 13.6 °C)  
 Air humidity: 78.8% (empty: 74.6%)  
 Air pressure: 101.3 kPa (empty: 101.3 kPa)  
 Number of specimens: 2

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



# Village med fyllning (2x3)

SOUND ABSORPTION AREA ACCORDING TO ISO 354

Measurement of sound absorption area in a reverberation room



Report number:  
14-41-M32  
Date  
2014-06-04

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.00	
63	0.07	0.0
80	0.04	
100	0.14	
125	0.22	0.3
160	0.54	
200	0.80	
250	1.14	1.2
315	1.59	
400	1.84	
500	2.13	2.1
630	2.31	
800	2.20	
1000	2.19	2.2
1250	2.23	
1600	2.22	
2000	2.21	2.2
2500	2.06	
3150	2.01	
4000	1.97	2.1
5000	2.18	

Client: Effect  
 Manufacturer: Effect  
 Product identification: Soundwave Village med fyllning  
 Description of test specimen: Soundwave Village med fyllning placerad på golv.  
 Ljudabsorptionsarea för grupp av objekt (2x3).

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.8 °C (empty: 15.2 °C)  
 Air humidity: 81.8% (empty: 77%)  
 Air pressure: 101.3 kPa (empty: 101.3 kPa)  
 Number of specimens: 2

Measurement date: 2013-06-20  
 Measured by: Pontus Thorsson

