

Stripes

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:
14-41-M6
Date
2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.01	
63	0.03	0.05
80	0.04	
100	0.05	
125	0.07	0.10
160	0.14	
200	0.18	
250	0.30	0.30
315	0.38	
400	0.53	
500	0.66	0.65
630	0.80	
800	0.91	
1000	0.95	0.95
1250	1.00	
1600	1.01	
2000	1.01	1.00
2500	1.03	
3150	1.00	
4000	0.92	0.95
5000	1.00	

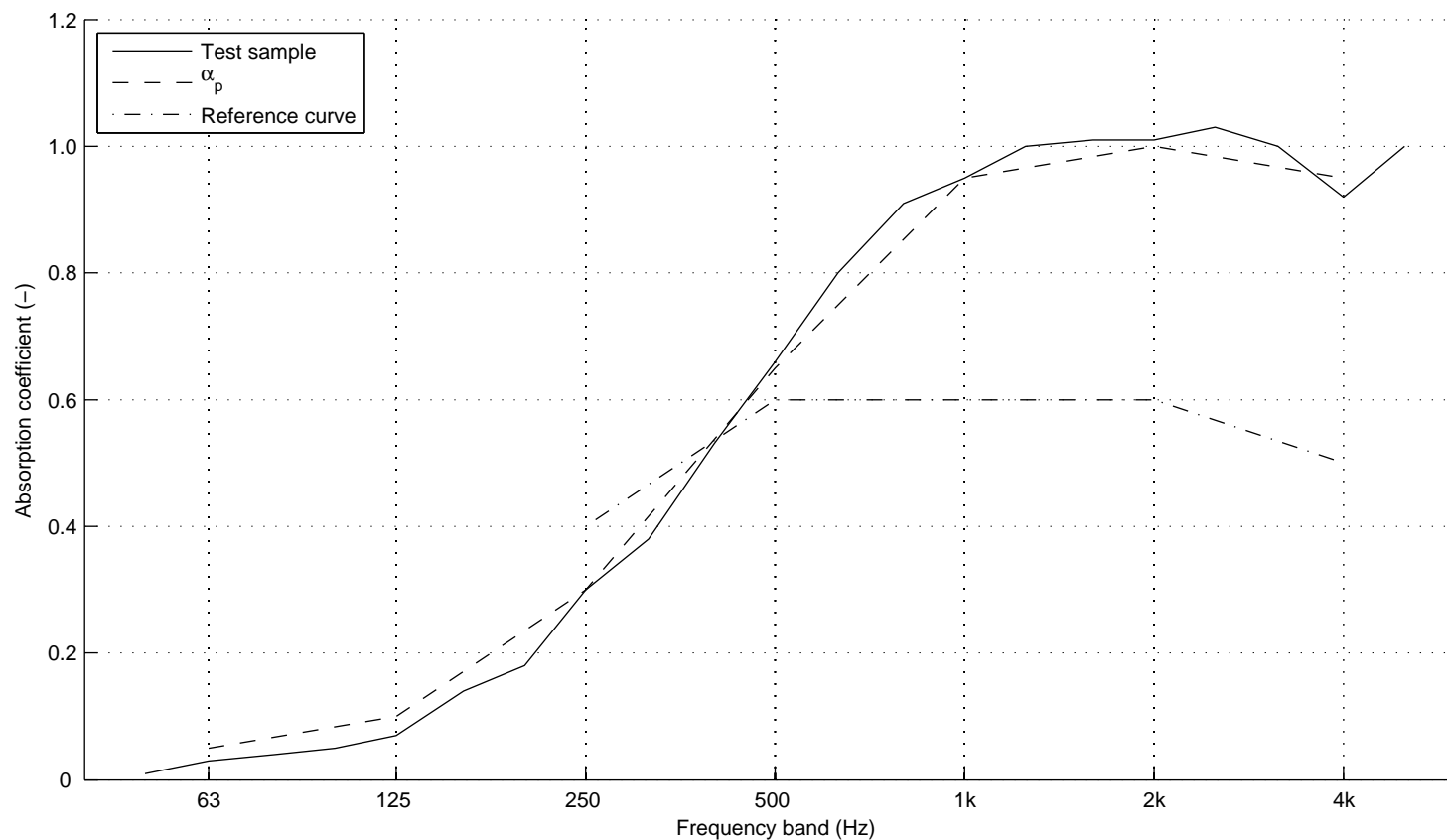
Client:
Manufacturer:
Product identification:

Effect
Effect
Stripes

Description of test specimen: Stripes utan fyllning, 30 paneler direkt på golv, typ A-montage.

Reverberation room volume: 200 m³
Temperature: 14 °C (empty: 14 °C)
Air humidity: 78.8% (empty: 74.6%)
Air pressure: 101.3 kPa (empty: 101.3 kPa)
Size of specimen: 10.31 m²

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



$\alpha_w = 0.60(\text{MH})$

Absorption class = C

Stripes + basfill

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:

14-41-M5

Date

2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.01	
63	0.03	0.05
80	0.05	
100	0.07	
125	0.11	0.15
160	0.24	
200	0.34	
250	0.49	0.50
315	0.70	
400	0.88	
500	1.02	1.00
630	1.08	
800	1.10	
1000	1.11	1.00
1250	1.08	
1600	1.03	
2000	1.02	1.00
2500	1.02	
3150	1.02	
4000	1.02	1.00
5000	1.08	

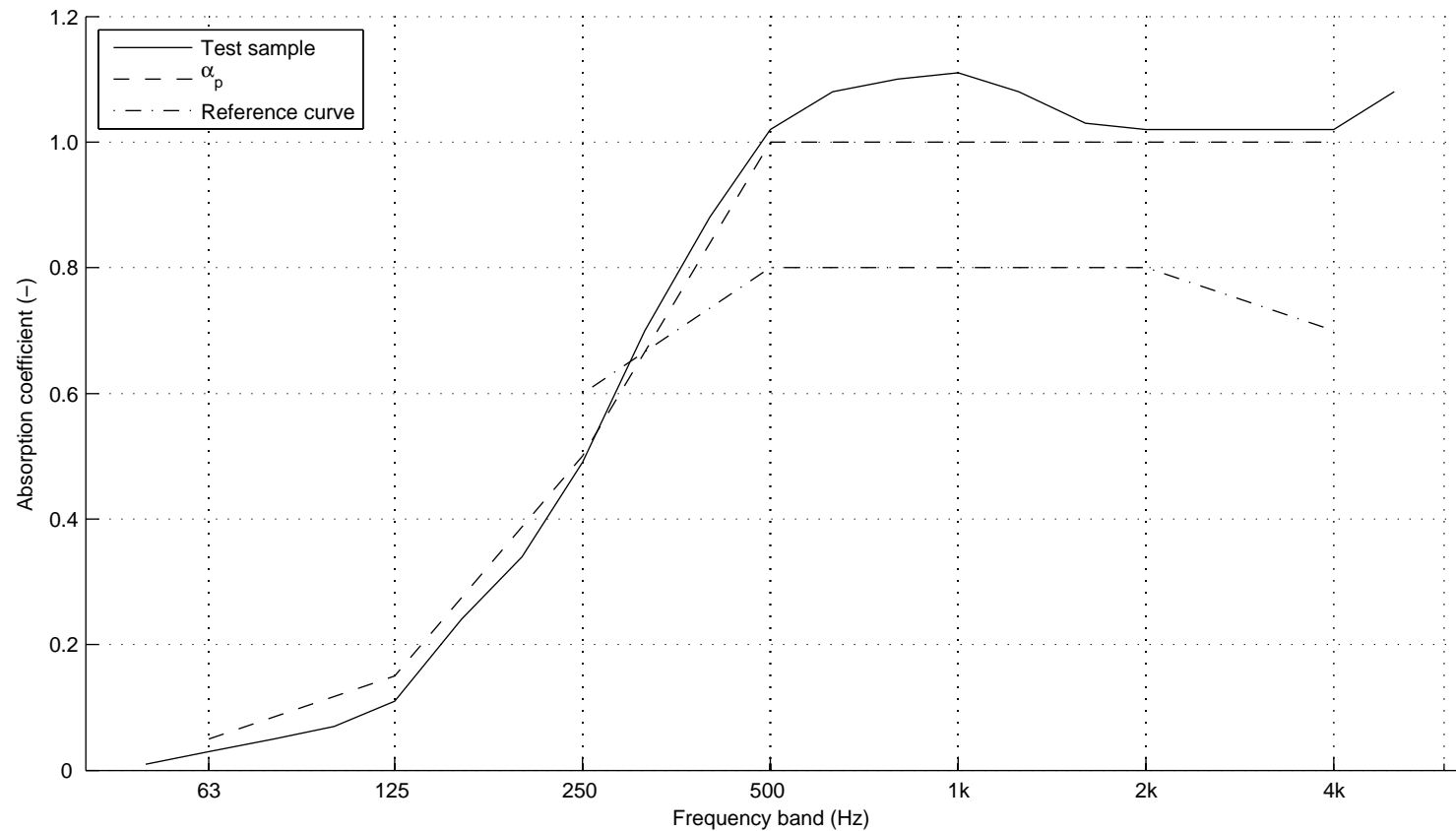
Client: Effect
 Manufacturer: Effect
 Product identification: Stripes + basfill

Description of test specimen: Stripes med fyllning, 30 paneler direkt på golv, typ A-montage.

Reverberation room volume: 200 m³
 Temperature: 14 °C (empty: 14 °C)
 Air humidity: 77.7% (empty: 74.6%)
 Air pressure: 101.3 kPa (empty: 101.3 kPa)
 Size of specimen: 10.31 m²

Measurement date: 2013-06-17

Measured by: Pontus Thorsson



$\alpha_w = 0.80(H)$

Absorption class = B

Stripes med fyllning (2x3)

SOUND ABSORPTION AREA ACCORDING TO ISO 354

Measurement of sound absorption area in a reverberation room



Report number:
14-41-M30
Date
2014-06-04

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.03	
63	0.07	0.1
80	0.12	
100	0.14	
125	0.19	0.3
160	0.59	
200	0.66	
250	0.96	1.0
315	1.52	
400	1.85	
500	2.16	2.2
630	2.47	
800	2.54	
1000	2.52	2.5
1250	2.45	
1600	2.47	
2000	2.37	2.4
2500	2.47	
3150	2.23	
4000	2.11	2.3
5000	2.54	

Client: Effect
 Manufacturer: Effect
 Product identification: Stripes med fyllning

Description of test specimen: Stripes med fyllning placerad på golvet. Ljudabsorptionsarea för grupp av objekt (2x3).

Reverberation room volume: 200 m³
 Temperature: 14.0 °C (empty: 13.6 °C)
 Air humidity: 77.9% (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

