

# Bella

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:

14-41-M8

Date

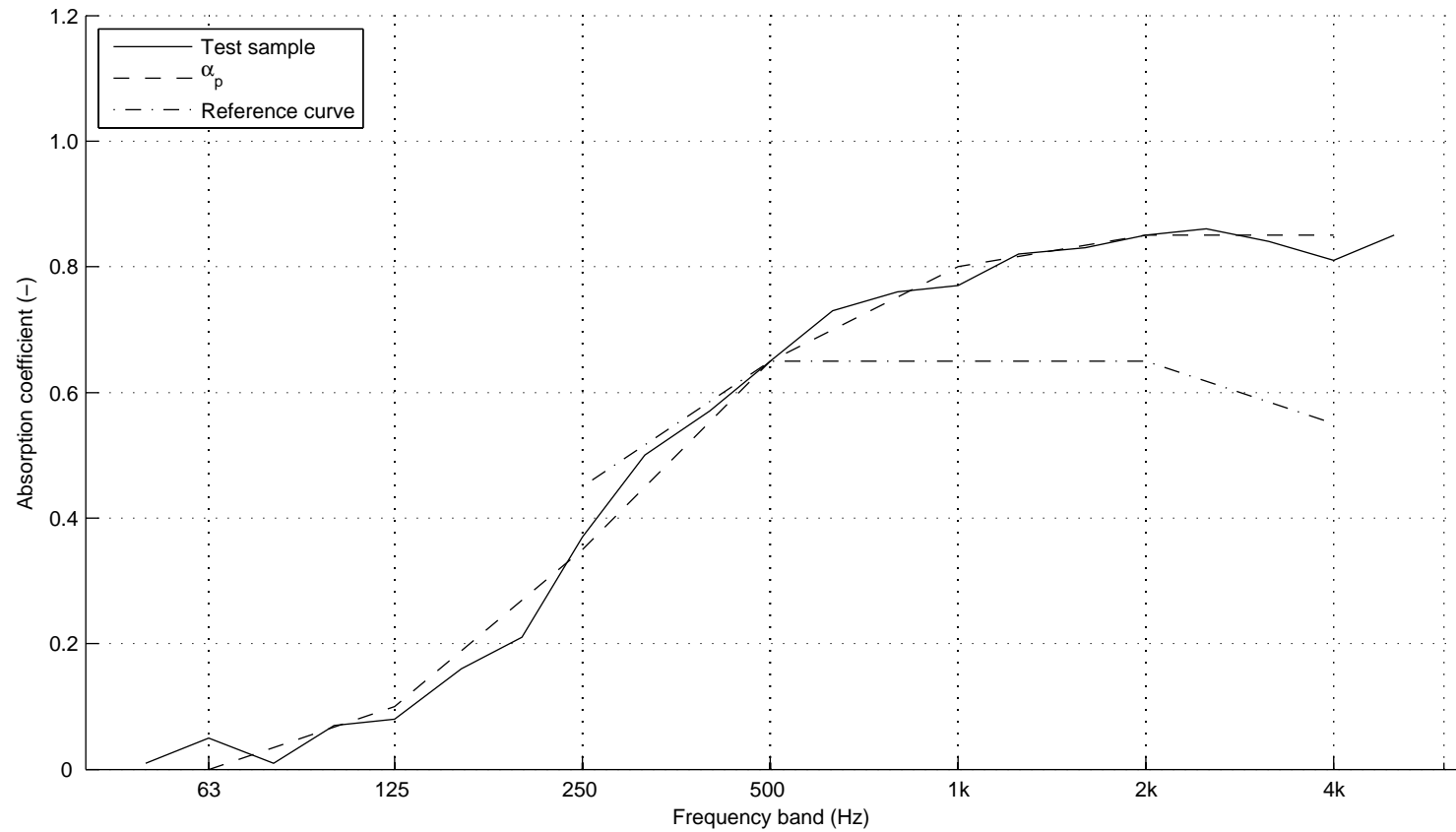
2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.01	
63	0.05	0.00
80	0.01	
100	0.07	
125	0.08	0.10
160	0.16	
200	0.21	
250	0.37	0.35
315	0.50	
400	0.57	
500	0.65	0.65
630	0.73	
800	0.76	
1000	0.77	0.80
1250	0.82	
1600	0.83	
2000	0.85	0.85
2500	0.86	
3150	0.84	
4000	0.81	0.85
5000	0.85	

Client: Effect  
 Manufacturer: Effect  
 Product identification: Bella  
 Description of test specimen: Bella utan 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: 80.6% (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



$\alpha_w = 0.65(H)$

Absorption class = C

# Bella + basfill

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



Report number:

14-41-M7

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	0.25	
200	0.37	
250	0.58	0.60
315	0.80	
400	0.92	
500	0.98	0.95
630	0.98	
800	0.97	
1000	0.96	0.95
1250	0.92	
1600	0.88	
2000	0.86	0.85
2500	0.85	
3150	0.87	
4000	0.85	0.90
5000	0.91	

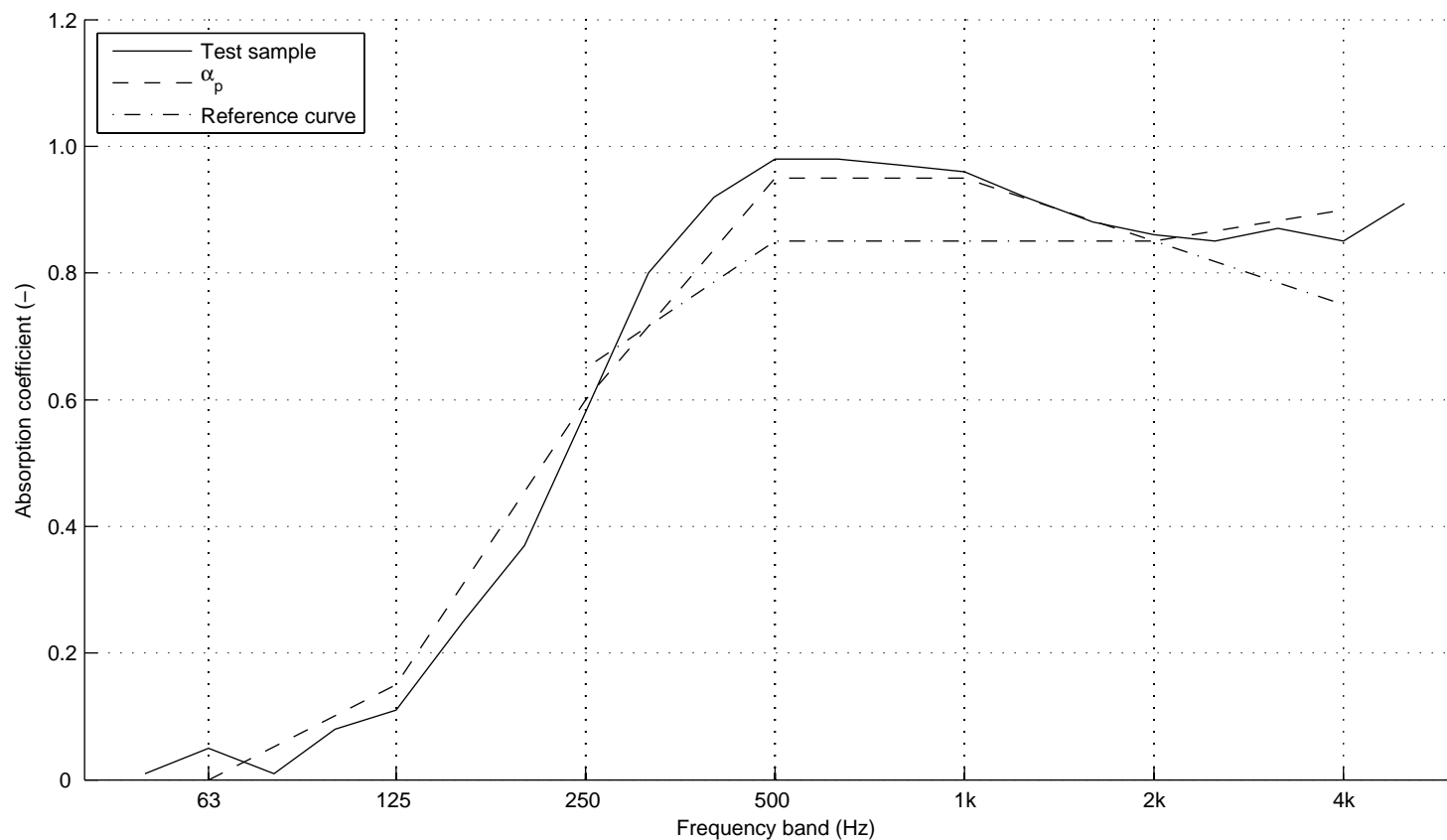
Client: Effect  
 Manufacturer: Effect  
 Product identification: Bella+basfill

Description of test specimen: Bella 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: 80.5% (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