

# Pix

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



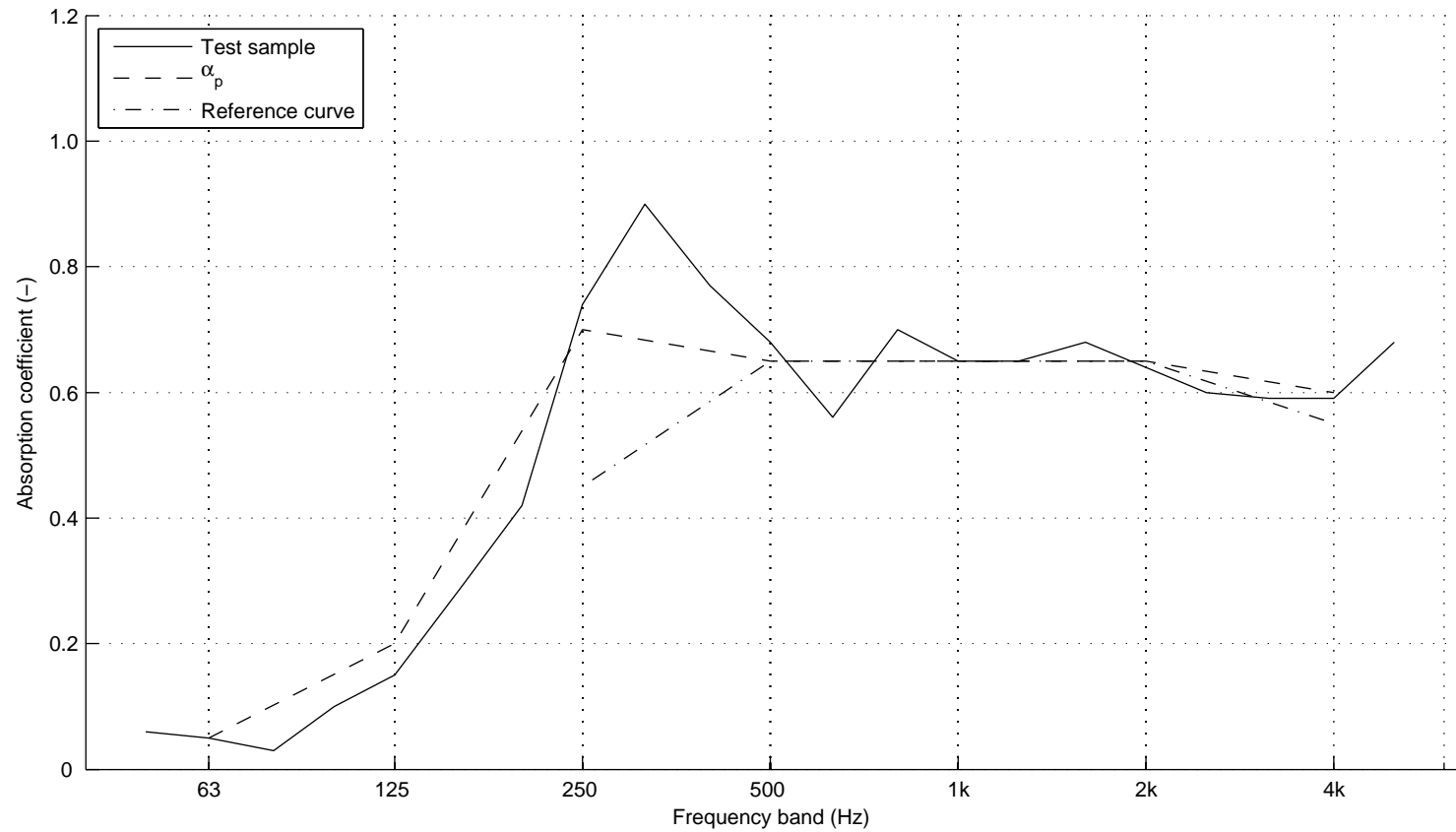
Report number:  
14-41-M9  
Date  
2014-04-01

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.06	
63	0.05	0.05
80	0.03	
100	0.10	
125	0.15	0.20
160	0.29	
200	0.42	
250	0.74	0.70
315	0.90	
400	0.77	
500	0.68	0.65
630	0.56	
800	0.70	
1000	0.65	0.65
1250	0.65	
1600	0.68	
2000	0.64	0.65
2500	0.60	
3150	0.59	
4000	0.59	0.60
5000	0.68	

Client: Effect  
 Manufacturer: Effect  
 Product identification: Pix  
 Description of test specimen: Description in details, mounting etc.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 16 °C (empty: 14 °C)  
 Air humidity: 77.5% (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



$\alpha_w = 0.65(L)$

Absorption class = C

# Pix (6x4)

SOUND ABSORPTION AREA ACCORDING TO ISO 354

Measurement of sound absorption area in a reverberation room



Report number:  
14-41-M22  
Date  
2014-06-04

Frequency f [Hz]	Sound absorption area [m <sup>2</sup> Sabine]	
50	0.02	
63	0.06	0.1
80	0.12	
100	0.21	
125	0.40	0.4
160	0.66	
200	0.92	
250	1.68	1.6
315	2.14	
400	1.61	
500	1.45	1.5
630	1.31	
800	1.44	
1000	1.38	1.4
1250	1.32	
1600	1.51	
2000	1.42	1.4
2500	1.35	
3150	1.22	
4000	1.43	1.4
5000	1.55	

Client:    Offect  
 Manufacturer:                               Offect  
 Product identification:                    Soundwave Pix

Reverberation room volume:             200 m<sup>3</sup>  
 Temperature:                               15.6 °C (empty: 15.2 °C)  
 Air humidity:                               77.8% (empty: 77%)  
 Air pressure:                               101.3 kPa (empty: 101.3 kPa)  
 Number of specimens:                    2

Description of test specimen:          Soundwave Pix placerade på golvet. Ljudabsorptionsarea för grupp av objekt (4x6).

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

