

Pixel

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room



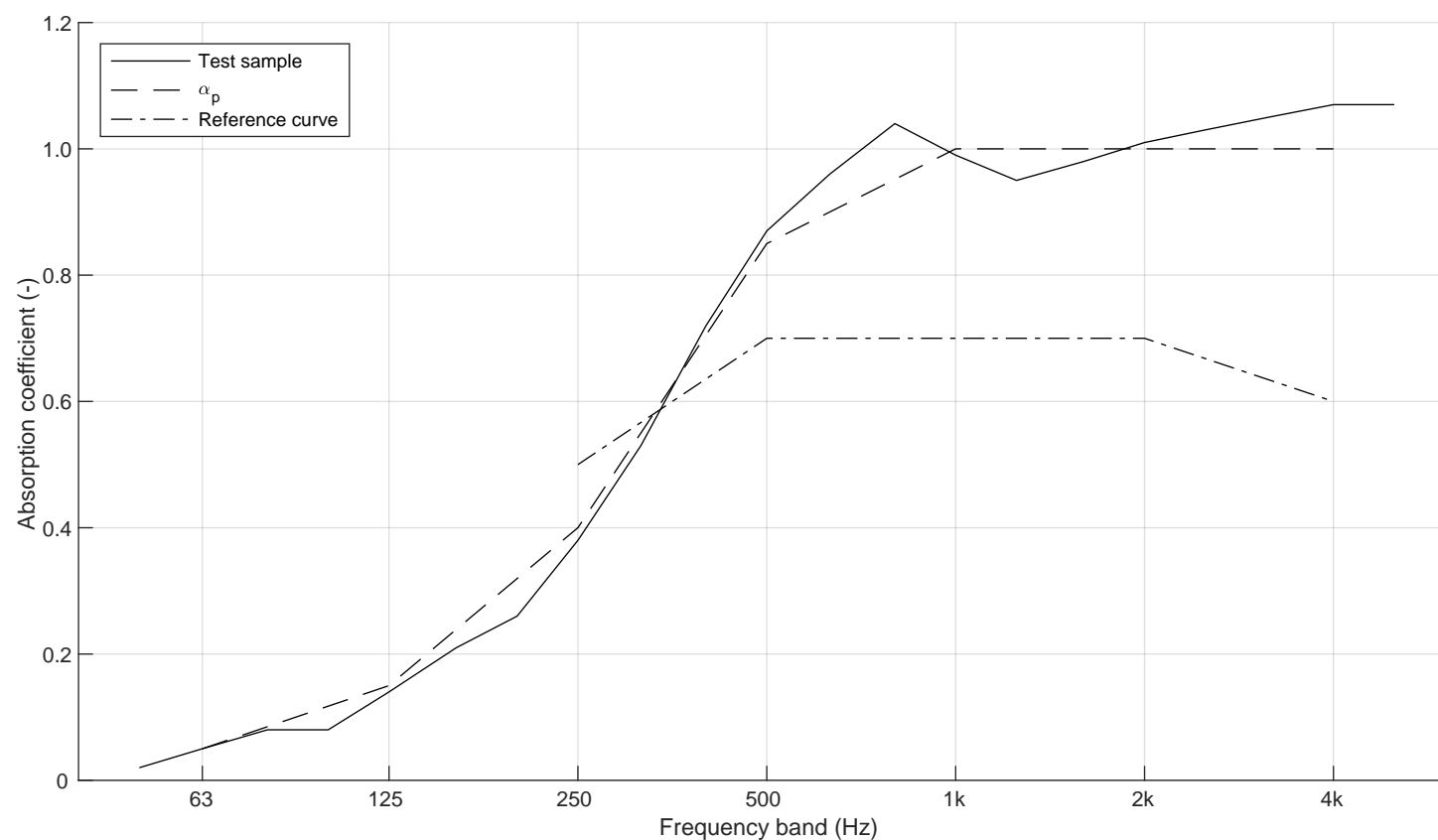
Report number:
19-725-M6
Date
2019-12-18

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.02	
63	0.05	0.05
80	0.08	
100	0.08	
125	0.14	0.15
160	0.21	
200	0.26	
250	0.38	0.40
315	0.53	
400	0.72	
500	0.87	0.85
630	0.96	
800	1.04	
1000	0.99	1.00
1250	0.95	
1600	0.98	
2000	1.01	1.00
2500	1.03	
3150	1.05	
4000	1.07	1.00
5000	1.07	

Client: Nordgröna AB
 Manufacturer: Nordgröna AB
 Product identification: Pixel
 Description of test specimen: Sound absorber made of small squares, Pixels, made of reindeer moss. Measurement of one Pixel is 50x50 mm and height 60 mm. Delivered on pads with 12 Pixels. Type A mounting according to ISO 354.

Reverberation room volume: 200 m³
 Temperature: 16.1 °C (empty: 15.7 °C)
 Air humidity: 43 % (empty: 44 %)
 Air pressure: 97.9 kPa (empty: 97.9 kPa)
 Size of specimen: 10 m²

Measurement date: 2019-12-11
 Measured by: Joachim Schubert



$\alpha_w = 0.70(\text{MH})$

Absorption class = C