

# Wall

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

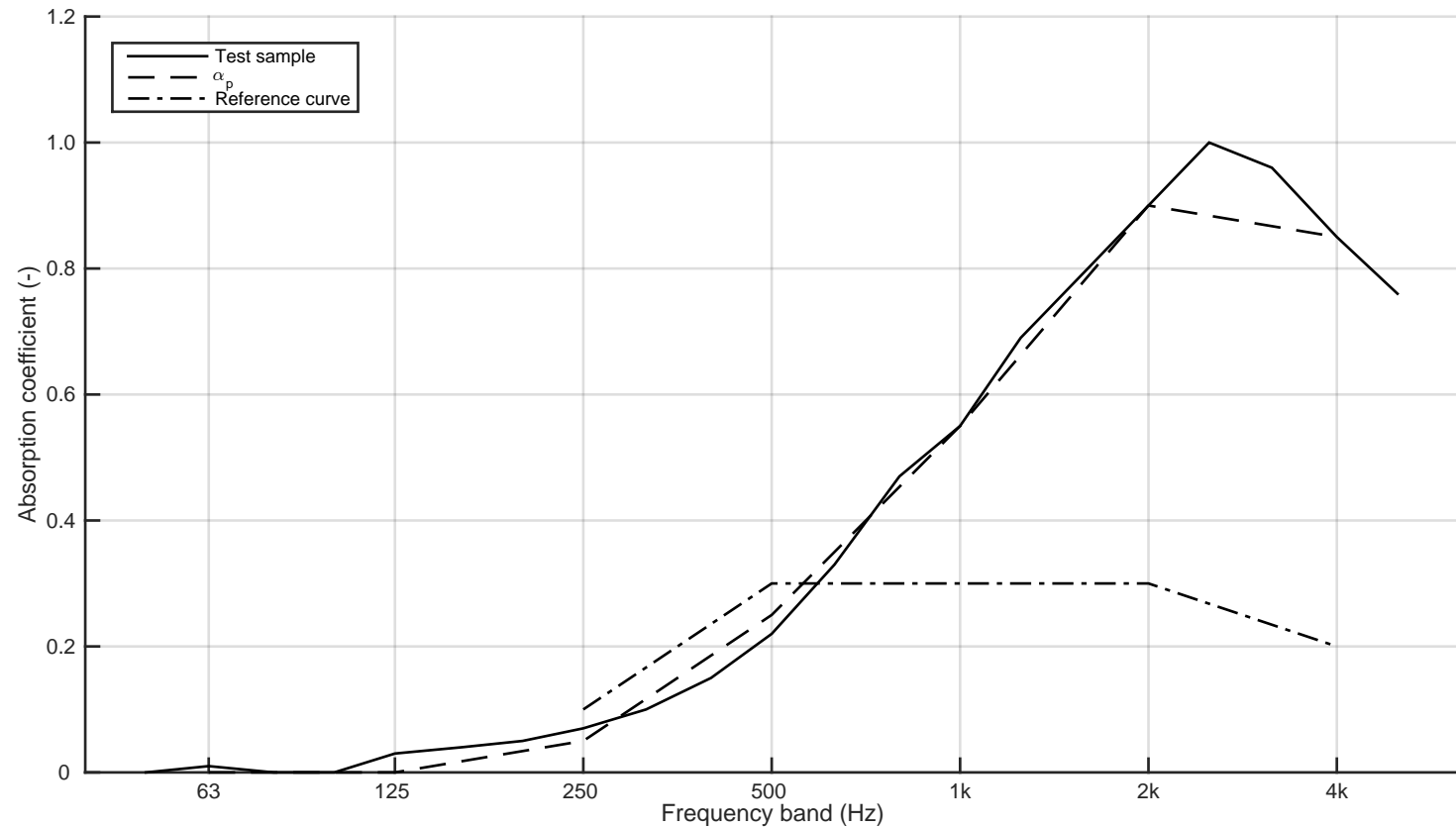


Report number:  
**15-226-M2**  
Date  
**2015-11-11**

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.00	
63	0.01	0.00
80	0.00	
100	0.00	
125	0.03	0.00
160	0.04	
200	0.05	
250	0.07	0.05
315	0.10	
400	0.15	
500	0.22	0.25
630	0.33	
800	0.47	
1000	0.55	0.55
1250	0.69	
1600	0.80	
2000	0.90	0.90
2500	1.00	
3150	0.96	
4000	0.85	0.85
5000	0.76	

Client: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Product identification: \_\_\_\_\_  
 Effect: \_\_\_\_\_  
 Effect: \_\_\_\_\_  
 Wall  
 Description of test specimen: Corrugated felt absorbers (each 2340x585x50 mm) placed directly on floor, type A mounting.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 14.5 °C (empty: 14.7 °C)  
 Air humidity: 63 % (empty: 63 %)  
 Air pressure: 97.6 kPa (empty: 97.6 kPa)  
 Size of specimen: 9.9 m<sup>2</sup>  
 Measurement date: 2015-11-10  
 Measured by: Carl Nyqvist



$\alpha_w = 0.30(\text{MH})$

Absorption class = D