

Trällit Akustik Normal 35mm, E-200

SOUND ABSORPTION COEFFICIENT ACCORDING TO SS-EN ISO 354:2003 AND SS-EN ISO 11654:1997

Measurement of sound absorption coefficient in a reverberation room



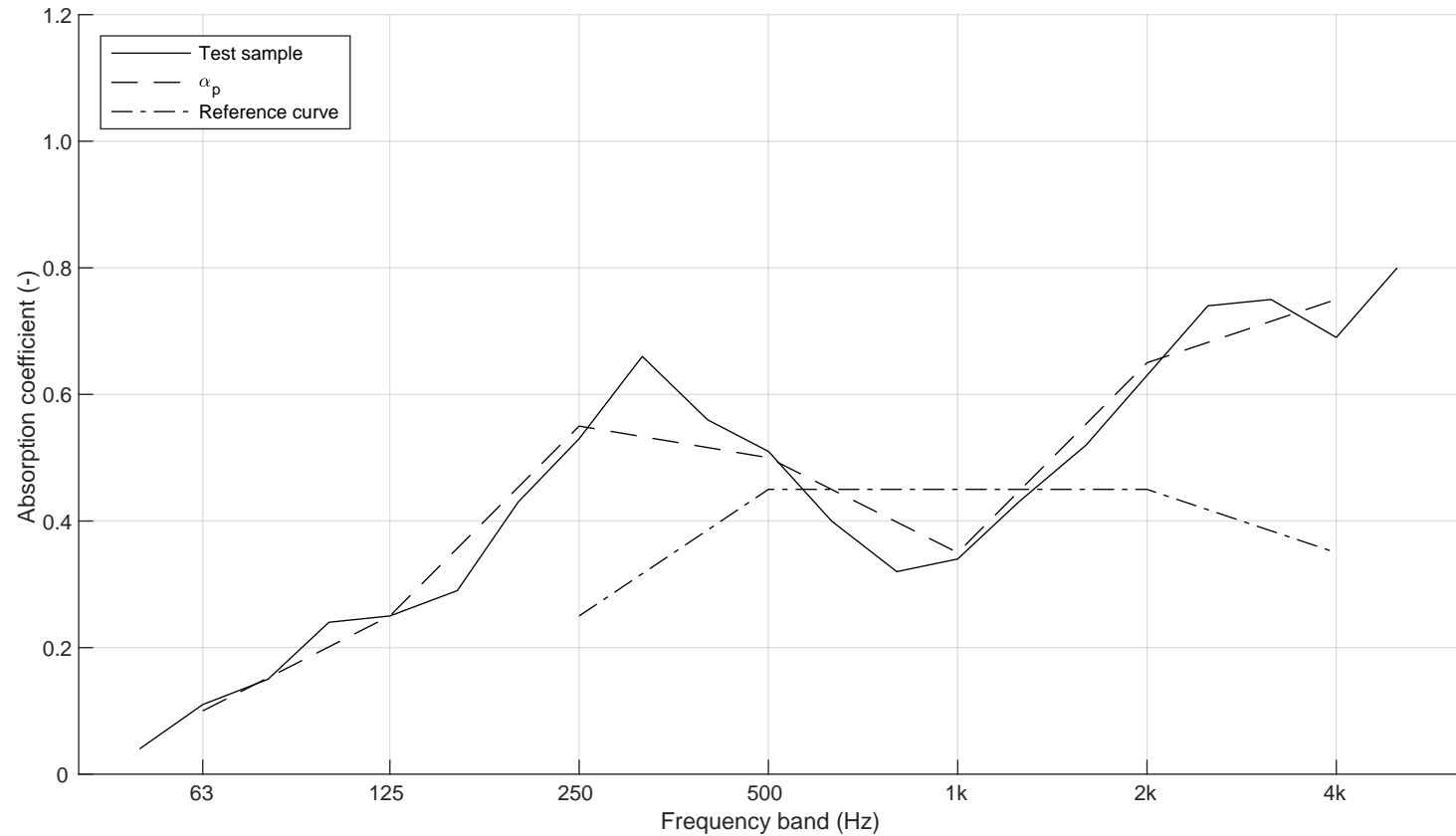
Report number:
2191-M16
Date
2022-07-04

Frequency f [Hz]	Sound absorption coefficient	
	α_s	α_p
50	0.04	
63	0.11	0.10
80	0.15	
100	0.24	
125	0.25	0.25
160	0.29	
200	0.43	
250	0.53	0.55
315	0.66	
400	0.56	
500	0.51	0.50
630	0.40	
800	0.32	
1000	0.34	0.35
1250	0.43	
1600	0.52	
2000	0.63	0.65
2500	0.74	
3150	0.75	
4000	0.69	0.75
5000	0.80	

Client: Trällit AB
 Manufacturer: Trällit AB
 Product identification: Trällit Akustik Normal 35mm

Description of test specimen: Panels of cement bonded wood wool. Thickness 35 mm.
 2.5 mm wool width (Normal).
 Mounted in a grid with total construction height 200 mm (E-200).

Reverberation room volume: 200 m³
 Temperature: 20.4 °C (empty: 20.2 °C)
 Air humidity: 58 % (empty: 58 %)
 Air pressure: 98.5 kPa (empty: 98.5 kPa)
 Size of specimen: 10 m²
 Measurement date: 2022-06-22
 Measured by: Carl Nyqvist



$\alpha_w = 0.45(\text{LH})$

Absorption class = D