

Soundwave Wall Acoustic panel with 45 mm mineral wool

SOUND ABSORPTION COEFFICIENT PER ASTM C423-09A

Measurement of sound absorption coefficient by the reverberation room method

Report number:

17-159-M21

Date

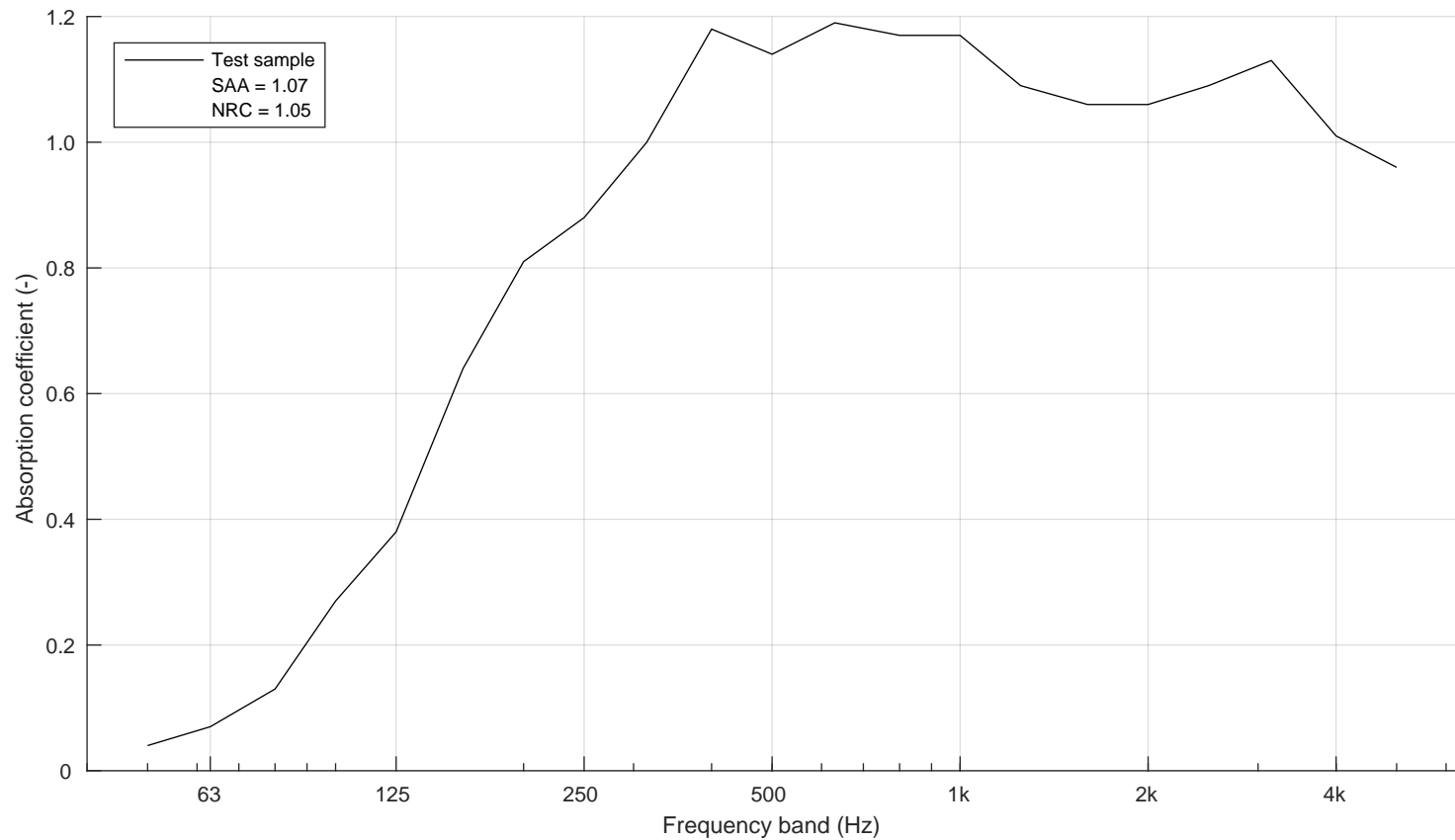
2017-06-07

Frequency f [Hz]	Sound absorption coefficient α
50	0.04
63	0.07
80	0.13
100	0.27
125	0.38
160	0.64
200	0.81
250	0.88
315	1.00
400	1.18
500	1.14
630	1.19
800	1.17
1000	1.17
1250	1.09
1600	1.06
2000	1.06
2500	1.09
3150	1.13
4000	1.01
5000	0.96

Client: Offecct
 Manufacturer: Offecct
 Product identification: Soundwave Wall with 45 mm mineral wool

Description of test specimen: Absorber of moulded polyester fibre placed on 45 x45 mm wood studs (c/c 585 mm). Airgap between studs filled with 45 mm Knauf Ecobatt 035 Glass fibre wool. 7x1 panels, each panel size 2340 x 585 x 50 mm. Total thickness of test specimen 95 - 105 mm. Placed directly on floor, type A mounting.

Reverberation room volume: 200 m³
 Temperature: 17.9 °C (empty: 18.5 °C)
 Air humidity: 51 % (empty: 56 %)
 Air pressure: 99.2 kPa (empty: 99.2 kPa)
 Size of specimen: 9.6 m²
 Area weight: kg/m²
 Measurement date: 2017-06-01
 Measured by: Carl Nyqvist



Sound Absorption Average (SAA): 1.07

Noise Reduction Coefficient (NRC): 1.05