

# Fellert Even Better Concrete 25 mm (1 inch) absorbent board (density 96 kg/m<sup>3</sup>) Type E-400 mounting

SOUND ABSORPTION COEFFICIENT PER ASTM C423-09A

Measurement of sound absorption coefficient by the reverberation room method

Report number:

15-251-R2-M3

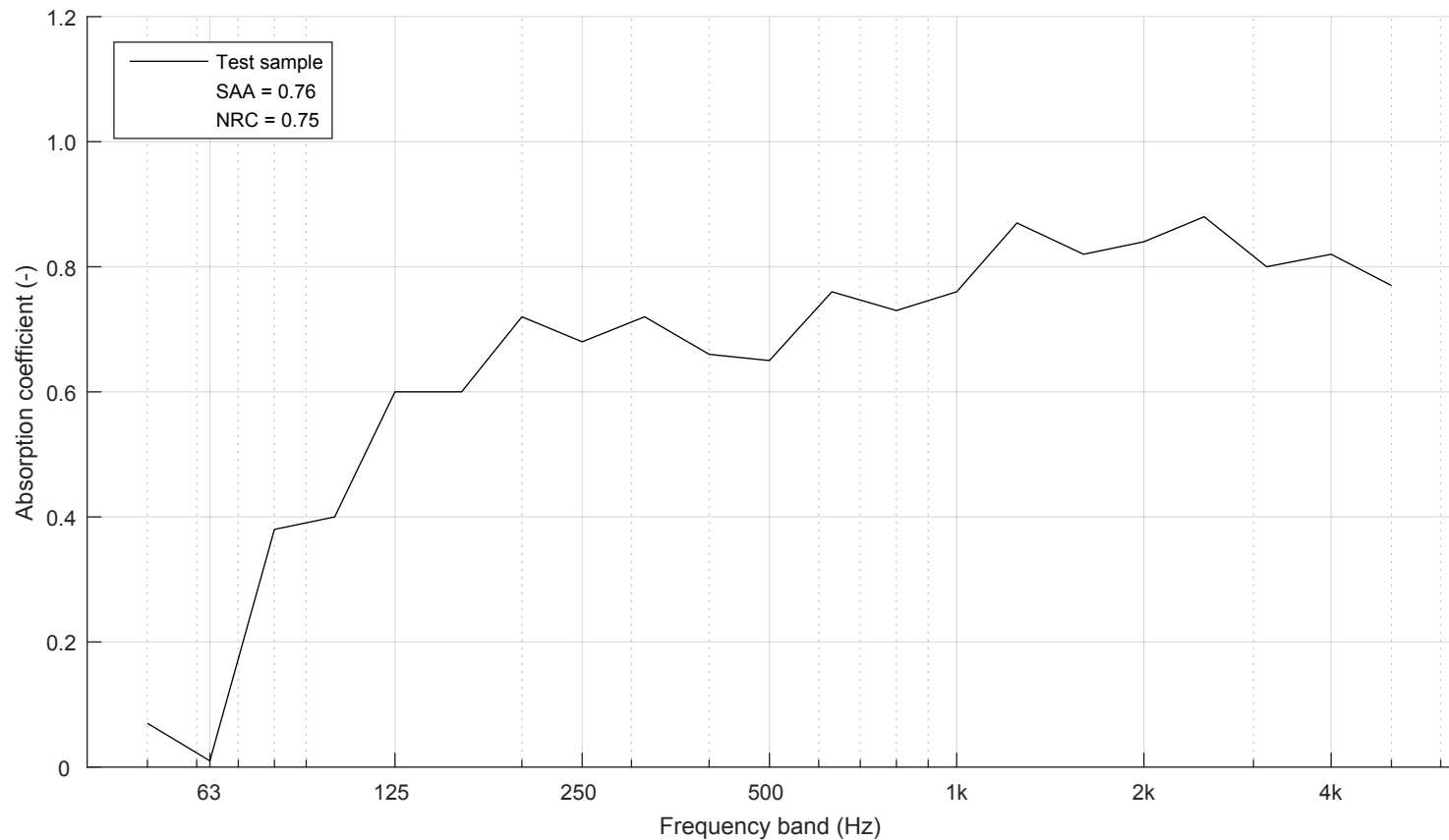
Date

2016-02-09

Frequency f [Hz]	Sound absorption coefficient $\alpha$
50	0.07
63	0.01
80	0.38
100	0.40
125	0.60
160	0.60
200	0.72
250	0.68
315	0.72
400	0.66
500	0.65
630	0.76
800	0.73
1000	0.76
1250	0.87
1600	0.82
2000	0.84
2500	0.88
3150	0.80
4000	0.82
5000	0.77

Client: Fellert Acoustical Ceilings AB  
 Manufacturer: Fellert Acoustical Ceilings AB  
 Product identification: Fellert Even Better Concrete  
 Description of test specimen: 25 mm (1 inch) absorbent board (density 96 kg/m<sup>3</sup>)  
 Type E-400 mounting per ASTM E795  
 Weight 2,9 kg/m<sup>2</sup>

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 16.0 °C (empty: 16.4 °C)  
 Air humidity: 50 % (empty: 53 %)  
 Air pressure: 98.6 kPa (empty: 98.4 kPa)  
 Size of specimen: 8.93 m<sup>2</sup>  
 Area weight: 10.7 kg/m<sup>2</sup>  
 Measurement date: 2015-12-22  
 Measured by: Magnus Karlsson



Sound Absorption Average (SAA): 0.76

Noise Reduction Coefficient (NRC): 0.75