

# Even Better Silk Metallic on 25 mm (1,0 inch) acoustical board (density: 96 kg/m<sup>3</sup>) E-400 mounting

SOUND ABSORPTION COEFFICIENT PER ASTM C423-17

Measurement of sound absorption coefficient by the reverberation room method

Report number:

17-340-R2-M1

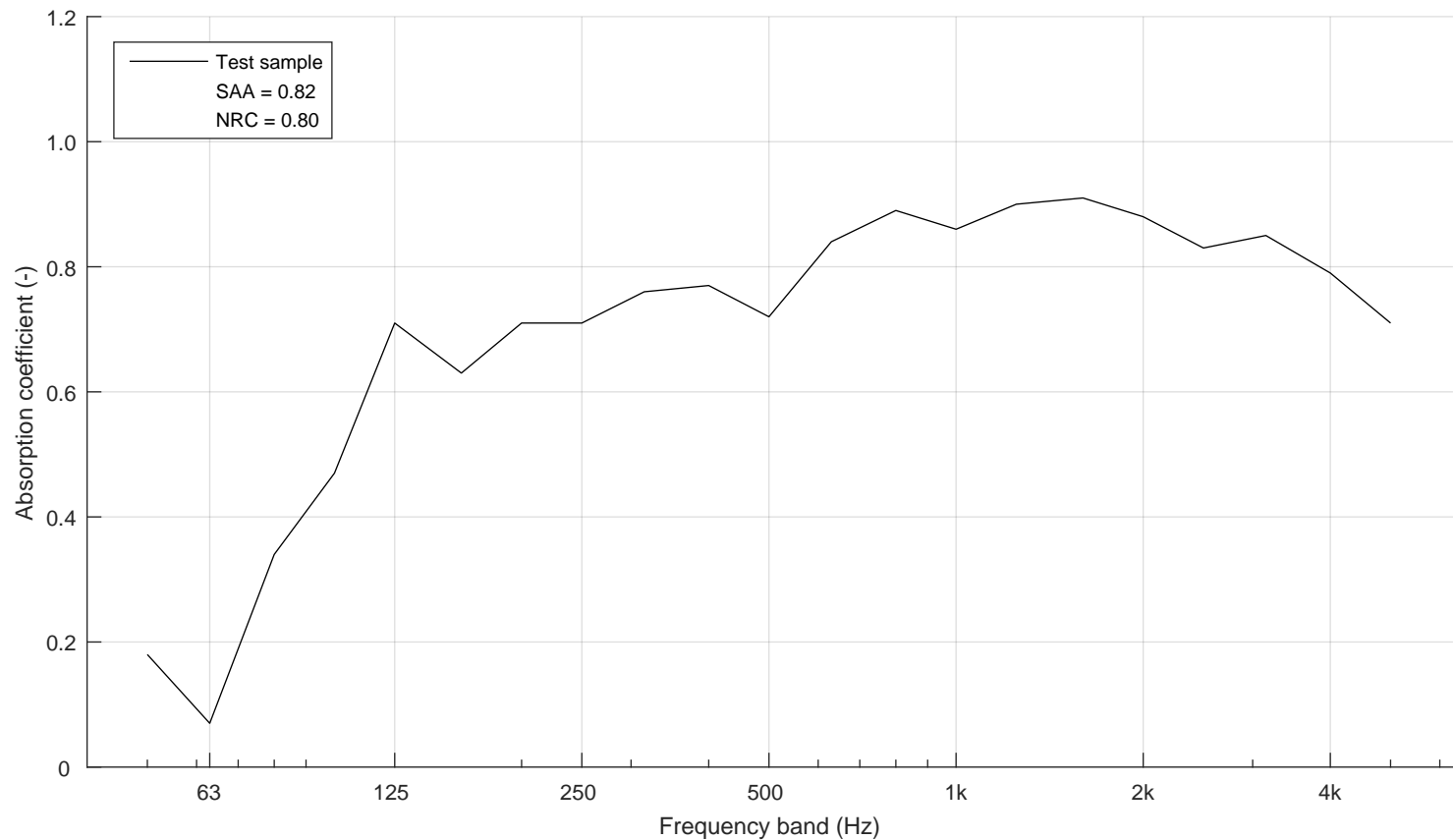
Date

2017-12-01

| Frequency<br>f<br>[Hz] | Sound absorption<br>coefficient<br>$\alpha$ |
|------------------------|---|
| 50                     | 0.18  |
| 63                     | 0.07  |
| 80                     | 0.34  |
| 100                    | 0.47  |
| 125                    | 0.71  |
| 160                    | 0.63  |
| 200                    | 0.71  |
| 250                    | 0.71  |
| 315                    | 0.76  |
| 400                    | 0.77  |
| 500                    | 0.72  |
| 630                    | 0.84  |
| 800                    | 0.89  |
| 1000                   | 0.86  |
| 1250                   | 0.90  |
| 1600                   | 0.91  |
| 2000                   | 0.88  |
| 2500                   | 0.83  |
| 3150                   | 0.85  |
| 4000                   | 0.79  |
| 5000                   | 0.71  |

Client: Fellert Acoustical Ceilings AB  
Manufacturer: Fellert Acoustical Ceilings AB  
Product identification: Fellert Even Better Silk Metallic  
Description of test specimen: 25 mm (1,0 inch) acoustical 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: 17.5 °C (empty: 20.7 °C)  
Air humidity: 35 % (empty: 36 %)  
Air pressure: 98.1 kPa (empty: 100.2 kPa)  
Size of specimen: 10 m<sup>2</sup>  
Area weight: 2,9 kg/m<sup>2</sup>  
Measurement date: 2017-11-29  
Measured by: Magnus Karlsson



Sound Absorption Average (SAA): 0.82

Noise Reduction Coefficient (NRC): 0.80