

Even Better Silk Metallic on 39 mm (1,5 inch) acoustical board (density: 96 kg/m³) E-200 mounting

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

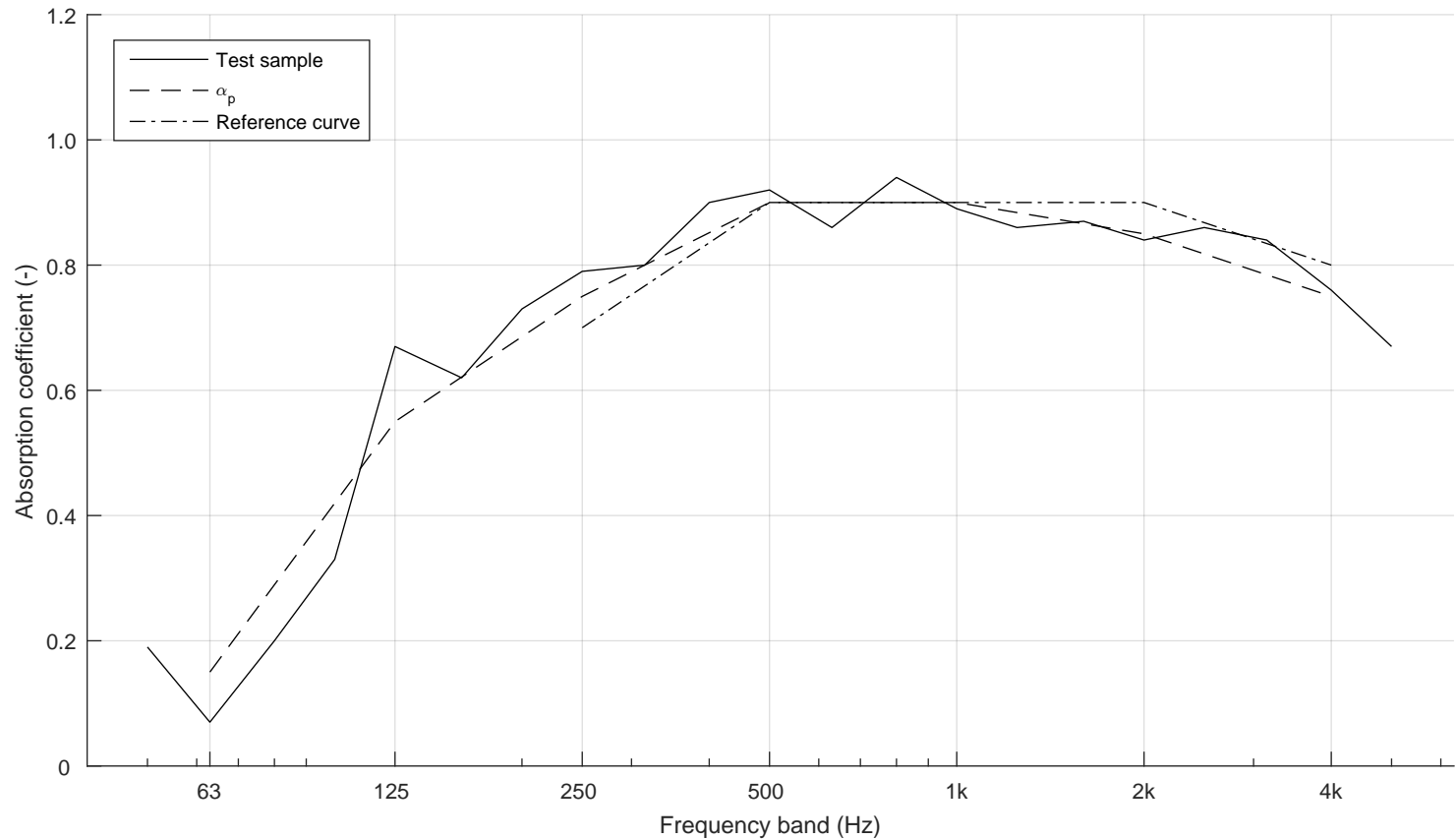


Report number:
17-340-R1-M5
Date
2017-12-01

| Frequency f [Hz] | Sound absorption coefficient | |
|------------------------|---------------------------------|------------|
| | α_s | α_p |
| 50 | 0.19 | |
| 63 | 0.07 | 0.15 |
| 80 | 0.20 | |
| 100 | 0.33 | |
| 125 | 0.67 | 0.55 |
| 160 | 0.62 | |
| 200 | 0.73 | |
| 250 | 0.79 | 0.75 |
| 315 | 0.80 | |
| 400 | 0.90 | |
| 500 | 0.92 | 0.90 |
| 630 | 0.86 | |
| 800 | 0.94 | |
| 1000 | 0.89 | 0.90 |
| 1250 | 0.86 | |
| 1600 | 0.87 | |
| 2000 | 0.84 | 0.85 |
| 2500 | 0.86 | |
| 3150 | 0.84 | |
| 4000 | 0.76 | 0.75 |
| 5000 | 0.67 | |

Client: Fellert Acoustical Ceilings AB
 Manufacturer: Fellert Acoustical Ceilings AB
 Product identification: Fellert Even Better Silk Metallic
 Description of test specimen: 39 mm (1,0 inch) acoustical board (density: 96 kg/m³)
 Type E-200 mounting
 Weight: 4,2 kg/m²

Reverberation room volume: 200 m³
 Temperature: 17.0 °C (empty: 20.7 °C)
 Air humidity: 36 % (empty: 36 %)
 Air pressure: 98.2 kPa (empty: 100.2 kPa)
 Size of specimen: 10 m²
 Measurement date: 2017-11-29
 Measured by: Magnus Karlsson



$\alpha_w = 0.90$

Absorption class = A

