

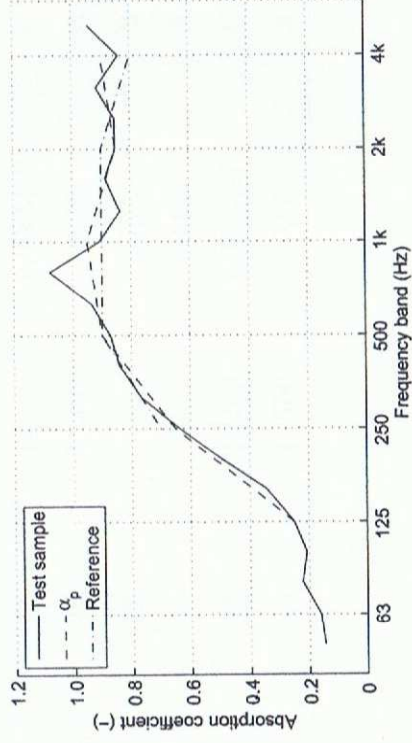
## SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Client: Fellert Acoustical Ceilings AB

Object: Fellert Even Better Silk on 39 mm  
glass fibre board (density 96 kg/m<sup>3</sup>) +  
12,5 mm gypsum board  
Type E-400 mounting

| Frequency<br>(Hz) | $\alpha_s$<br>(-) | $\alpha_p$<br>(-) |
|-------------------|-------------------|-------------------|
| 50                | 0.15              |                   |
| 63                | 0.16              | 0.20              |
| 80                | 0.22              |                   |
| 100               | 0.21              |                   |
| 125               | 0.25              | 0.25              |
| 160               | 0.34              |                   |
| 200               | 0.50              |                   |
| 250               | 0.64              | 0.65              |
| 315               | 0.77              |                   |
| 400               | 0.84              |                   |
| 500               | 0.87              | 0.90              |
| 630               | 0.93              |                   |
| 800               | 1.08              |                   |
| 1000              | 0.91              | 0.95              |
| 1250              | 0.84              |                   |
| 1600              | 0.89              |                   |
| 2000              | 0.85              | 0.85              |
| 2500              | 0.85              |                   |
| 3150              | 0.91              |                   |
| 4000              | 0.84              | 0.90              |
| 5000              | 0.94              |                   |



$\alpha_w = 0.90$  (Absorption class A)

Date of test: 12-02-12

Object surface: 8.9 m<sup>2</sup>

Relative humidity: 48 %

Date: 12-02-28

Reverberation room volume: 200 m<sup>3</sup>

Temperature: 6 °C

Test report 12-27-M8

Signature: Magnus Karlsson

