

# FeltRoll Hanging 50 mm from wall

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

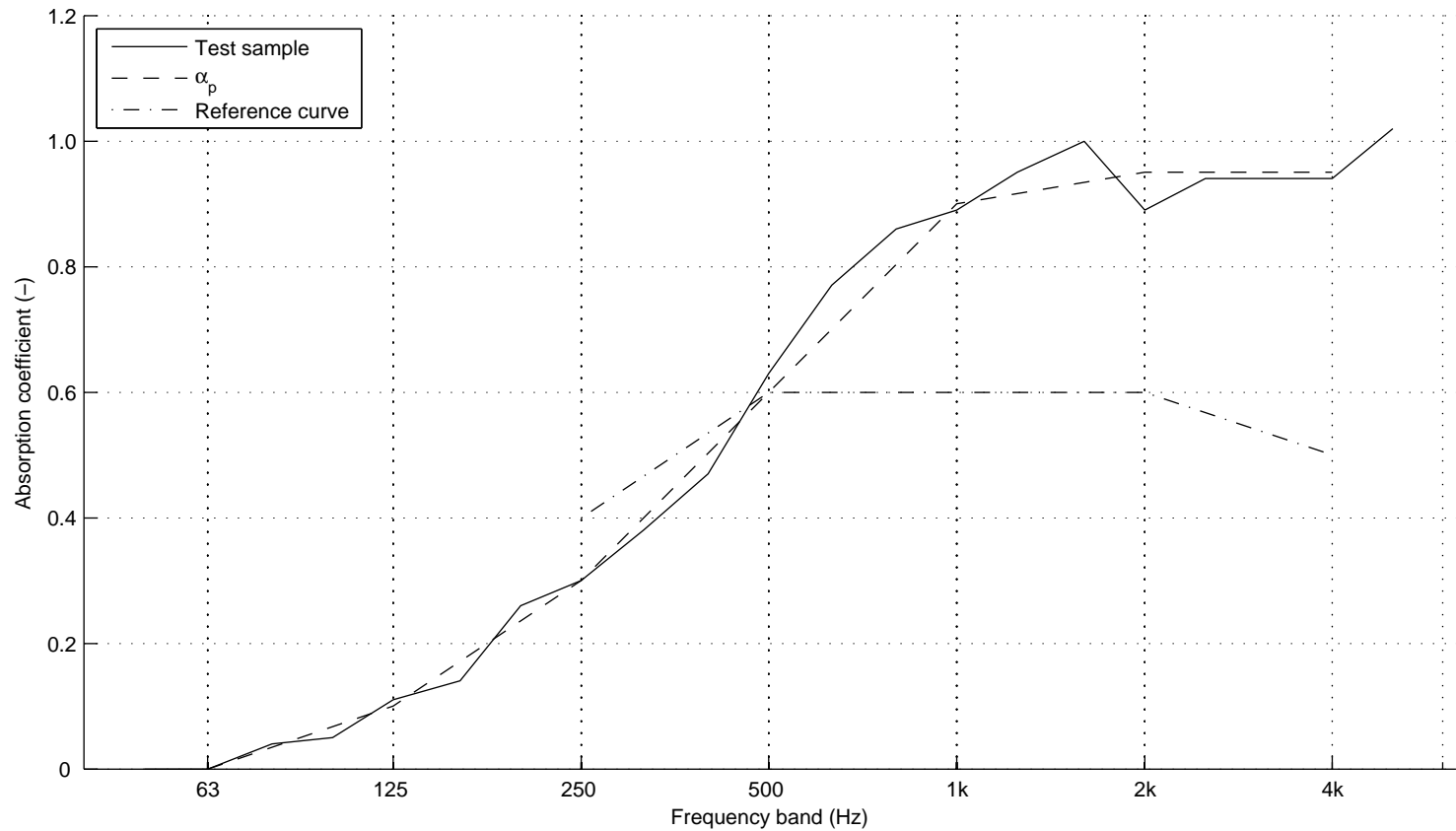


Report number:  
16-193-M12  
Date  
2016-11-07

| Frequency<br>f<br>[Hz] | Sound absorption<br>coefficient |            |
|------------------------|---------------------------------|------------|
|                        | $\alpha_s$                      | $\alpha_p$ |
| 50                     | 0.00                            |            |
| 63                     | 0.00                            | 0.00       |
| 80                     | 0.04                            |            |
| 100                    | 0.05                            |            |
| 125                    | 0.11                            | 0.10       |
| 160                    | 0.14                            |            |
| 200                    | 0.26                            |            |
| 250                    | 0.30                            | 0.30       |
| 315                    | 0.38                            |            |
| 400                    | 0.47                            |            |
| 500                    | 0.63                            | 0.60       |
| 630                    | 0.77                            |            |
| 800                    | 0.86                            |            |
| 1000                   | 0.89                            | 0.90       |
| 1250                   | 0.95                            |            |
| 1600                   | 1.00                            |            |
| 2000                   | 0.89                            | 0.95       |
| 2500                   | 0.94                            |            |
| 3150                   | 0.94                            |            |
| 4000                   | 0.94                            | 0.95       |
| 5000                   | 1.02                            |            |

Client: Rom & Tonik AS  
 Manufacturer: Rom & Tonik AS  
 Product identification: FeltRoll Hanging 50 mm from wall  
 Description of test specimen: Type G-50 mounting.  
 Thickness 10 mm.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 20.1 °C (empty: 24.8 °C)  
 Air humidity: 41 % (empty: 32 %)  
 Air pressure: 100.0 kPa (empty: 100.0 kPa)  
 Size of specimen: 6.1 m<sup>2</sup>  
 Measurement date: 2016-10-24  
 Measured by: Carl Nyqvist



$\alpha_w = 0.60(\text{MH})$

Absorption class = C