

# FeltCeiling 300 mm total construction depth

SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

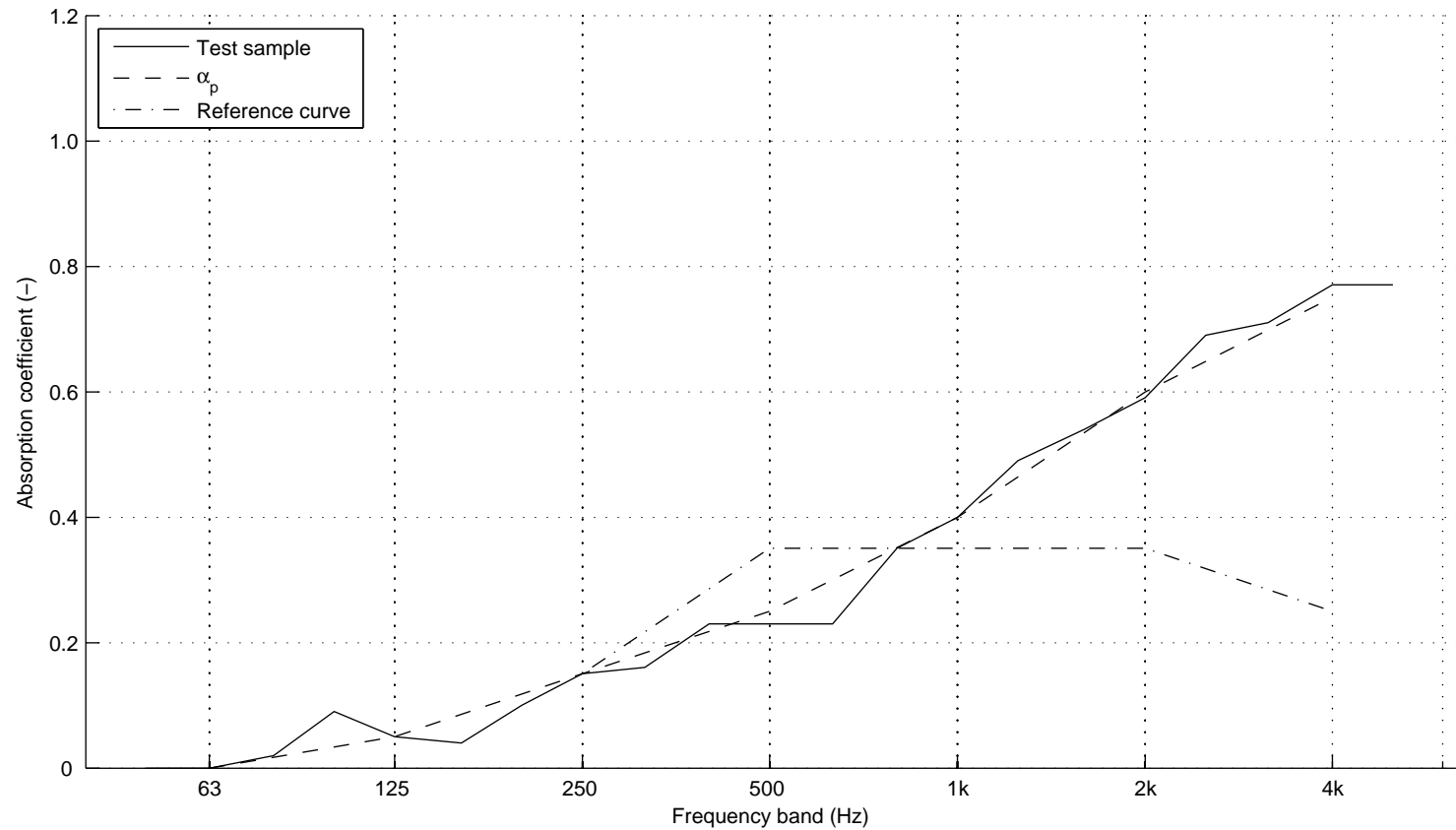


Report number:  
**16-193-M14**  
Date  
**2016-11-07**

Frequency f [Hz]	Sound absorption coefficient	
	$\alpha_s$	$\alpha_p$
50	0.00	
63	0.00	0.00
80	0.02	
100	0.09	
125	0.05	0.05
160	0.04	
200	0.10	
250	0.15	0.15
315	0.16	
400	0.23	
500	0.23	0.25
630	0.23	
800	0.35	
1000	0.40	0.40
1250	0.49	
1600	0.54	
2000	0.59	0.60
2500	0.69	
3150	0.71	
4000	0.77	0.75
5000	0.77	

Client: Rom & Tonik AS  
 Manufacturer: Rom & Tonik AS  
 Product identification: FeltCeiling  
 Description of test specimen: Type E-300 mounting.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 21.9 °C (empty: 20.4 °C)  
 Air humidity: 42 % (empty: 40 %)  
 Air pressure: 100.0 kPa (empty: 100.0 kPa)  
 Size of specimen: 10 m<sup>2</sup>  
 Measurement date: 2016-10-24  
 Measured by: Carl Nyqvist



$\alpha_w = 0.35(H)$

Absorption class = D