

# Aircone scattering, structural depth 150 mm

SOUND SCATTERING PROPERTIES OF SURFACES ACCORDING TO SS ISO 17497:2004  
 Measurements of the random scattering coefficient in a reverberation room

Report number:  
 18-720-M6  
 Date:  
 2019-01-08

Frequency f [Hz]	Sound absorption $\alpha_s$	Scattering coefficient s
100	0,01	0,03
125	0,04	0,02
160	0,11	0,00
200	0,16	0,01
250	0,25	0,03
315	0,40	0,00
400	0,61 <sup>1</sup>	0,00
500	0,70 <sup>1</sup>	0,00
630	0,81 <sup>1</sup>	0,00
800	0,81 <sup>1</sup>	0,00
1000	0,89 <sup>1</sup>	0,00
1250	0,93 <sup>1</sup>	0,00
1600	0,83 <sup>1</sup>	0,00
2000	0,94 <sup>1</sup>	0,00
2500	0,86 <sup>1</sup>	0,00
3150	0,91 <sup>1</sup>	0,00
4000	0,96 <sup>1</sup>	0,00
5000	0,86 <sup>1</sup>	0,00

Client: Acouwood  
 Manufacturer: Abstracta  
 Test room identification: Akustikverkstan, test room 1  
 Product identification: Aircone  
 Description of test specimen: Pressed felt absorbers placed on the rotating baseplate.  
 Structural depth 150 mm provided by inverting a number of test objects.

Reverberation room volume: 200 m<sup>3</sup>  
 Area of test object: 7,07 m<sup>2</sup>  
 Measurement date: 2018-12-13  
 Measured by: Johan Jernstedt

	Baseplate		Test object	
	Fixed	Rotating	Fixed	Rotating
Temperature (°C):	12,9	12,3	11,8	11,8
Air humidity (%):	48,4	49,2	52,8	52,8
Air pressure (kPa):	100,9	100,9	100,8	100,8

<sup>1</sup> Sound absorption coefficient too high

