

## 0160WH/0160XXXWH

### Sound absorption coefficient ISO 354 Measurement of sound absorption in reverberation rooms

Test specimen: Calmuc Sound Absorber, Article 0160WH/0160XXXWH, colour 00 nature

Description of the test object:

- Thickness  $t = 2.07$  mm
- Specific airflow resistance according to EN 29053  $R_s = 1914$  Pa s/m
- Area specific mass  $m'' = 513$  g/m<sup>2</sup>
- Testing area width x height = 3.50 m x 3.00 m

Details about the mounting conditions:

- Mounting condition G-200 according to EN ISO 354, paragraph 6.2.1
- Fabric hanging flat
- 200 mm distance between fabric and wall of the reverberation room
- Mounting without circumferential frame

Room: E

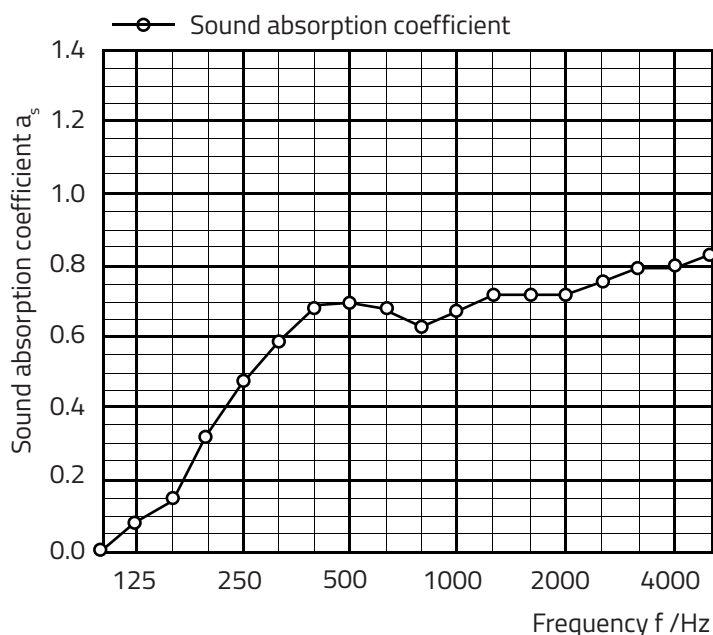
Volume: 199.60 m<sup>3</sup>

Size: 10.50 m<sup>2</sup>

Date of test: 2012-03-15

	$\theta$ [°C]	r.h. [%]	B[kPa]
without specimen	20.3	34.6	96.3
with specimen	20.5	33.9	96.3

Frequency [Hz]	$a_s$ 1/3 octave	$a_p$ octave
100	0.01	0.10
125	0.08	
160	0.14	
200	0.32	0.45
250	0.48	
315	0.59	
400	0.69	0.70
500	0.70	
630	0.68	
800	0.63	0.65
1000	0.67	
1250	0.71	
1600	0.72	0.75
2000	0.72	
2500	0.75	
3150	0.79	0.80
4000	0.80	
5000	0.83	



° Equivalent sound absorption area less than 1.0 m<sup>2</sup>

$a_s$  Sound absorption coefficient according to ISO 354

$a_p$  Practical sound absorption coefficient according to ISO 11654

Rating according to ISO 11654:  
Weighted sound absorption coefficient  $a_w = 0.70$   
Sound absorption class: C

Rating according to ASTM C423:  
Noise Reduction Coefficient NRC = 0.65  
Sound Absorption Average SAA = 0.64