

Sound absorption coefficient

Measurement of sound absorption in a reverberation room

Knauf AMF GmbH & Co. KG
Elsenthal 15
D-94481 Grafenau

Phone: +49 8552 422 - 0
 Fax: +49 8552 422 - 32
 Email: info@amf-grafenau.de

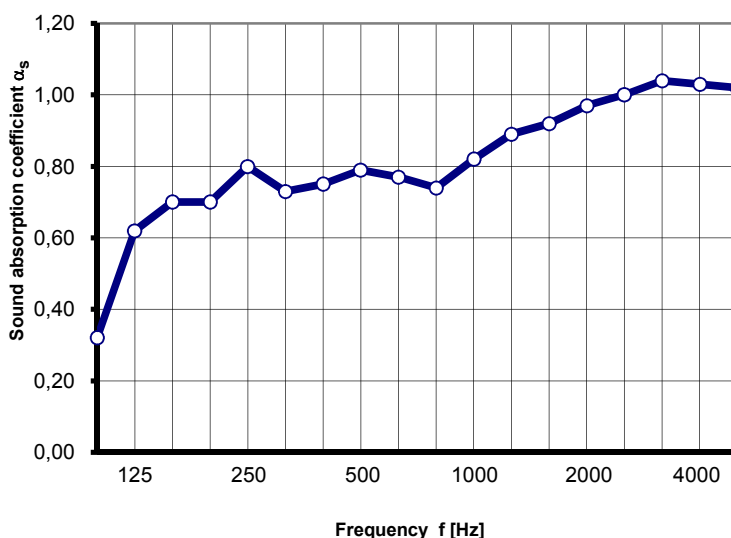
Test specimen: AMF-Thermatex Thermofon, 600x600mm

15,0 mm Test specimen with edge detail: SK

200 mm construction height



Frequency [Hz]	α_s 1/3 octave	α_p octave
100	0,32	0,55
125	0,62	
160	0,70	
200	0,70	0,75
250	0,80	
315	0,73	
400	0,75	0,75
500	0,79	
630	0,77	
800	0,74	0,80
1000	0,82	
1250	0,89	
1600	0,92	0,95
2000	0,97	
2500	1,00	
3150	1,04	1,00
4000	1,03	
5000	1,02	



α_s Sound absorption coefficient

α_p Practical sound absorption coefficient according to ISO 11654

Rating according to ISO 11654:

Weighted sound absorption coefficient α_w = 0,80 H
 Sound absorption class: B

Rating according to VDI 3755 - 2000:

extremely absorbing

Rating according to ASTM C 423-02a:

sound absorption average: SAA = 0,82
noise reduction coefficient: NRC = 0,85

This datasheet is based on Test Report No.:

M57 647/16

11.06.07

The information made available on this page has been diligently verified and is regularly updated. We do not, however, provide any guarantee that the information provided is at all times complete, correct or up-to-date. Information may be supplemented, removed or changed without prior notice. Product names, product descriptions and logos are registered trademarks and belong to the relevant rights owner. All details and technical information are based on results of tests carried out under laboratory conditions. It is the responsibility of the customer to verify that such details and information are suitable for the specific purpose for which they are to be used. Information is provided in accordance with the current state of the art. We reserve the right to make technical changes without prior notice. Mistakes, descriptive errors and changes are excepted. Our standard terms and conditions apply.