

Measurement of the equivalent sound absorption area according to DIN EN ISO 354

Measurement protocol



General test specimen description according to the manufacturer:

Acoustic Picture small
made of Active Core 20 mm,
Alpine Meadow light
600 x 600 mm; 40 mm perimeter frame made of Active Core 20 mm,
total height 40 mm
no backfill in the 20 mm cavity

No. Curve: Kurve (1)
Manufacturer: ORGANOID GmbH
Designation: Acoustic Picture small

Description of test setup:

Quantity: 1 pcs
Length: 600 mm
Width: 600 mm
Product height: 40 mm
Total height: 40 mm
Test area α_{Obj} , per object: 0,82 m²

Test standard requirements:

Equivalent sound absorption area

A_{Obj}

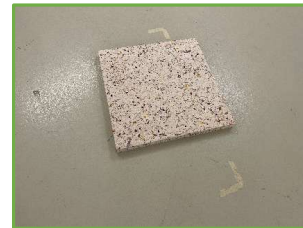
Corresponds to ISO 354:

yes

More information:

1 sample was measured at 3 positions
according to the standard lying on the ground

Figure/Photo - Measurement setup



Reverberation chamber and measurement method:

Measuring method: Sinus Sweep
Vol. echo chamber: 391,6 m³
Rel. humidity meas. empty: 44 %
Temp. meas. empty: 17,3 °C
Air pressure empty: 98,2 kPa

Room surface echo chamber: 322,2 m²
Rel. humidity meas. with test specimen: 45,9 %
Temp. measurement with test specimen: 17,8 °C
Air pressure with test specimen: 98,1 kPa

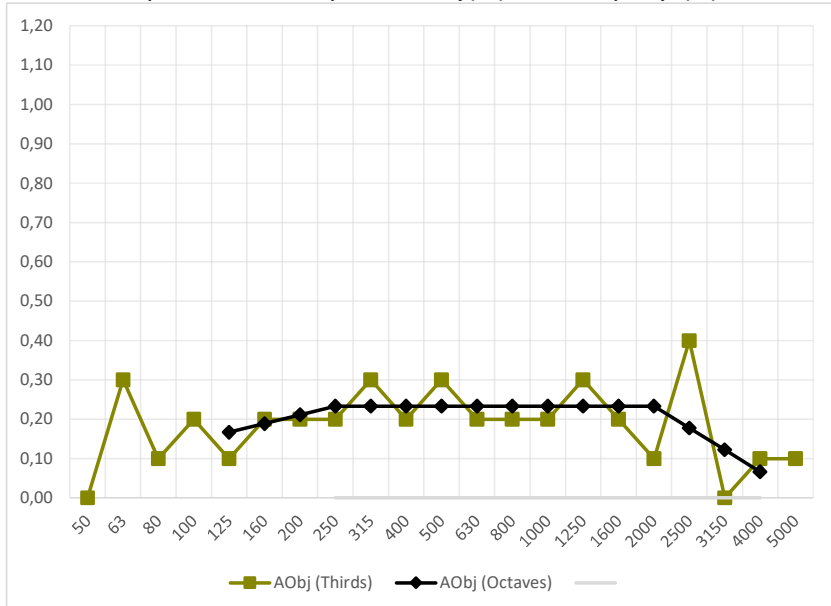
Display:

Curve thirds: yes
Curve octaves: yes
Reference curve: no



Equivalent sound absorption area A_{Obj} (m²) for each frequency f (Hz)

Frequency f (Hz)	Thirds A_{Obj} (m ²)	Octaves A_{Obj} (m ²)
50	0,00	0,13
63	0,30	
80	0,10	
100	0,20	0,17
125	0,10	
160	0,20	
200	0,20	0,23
250	0,20	
315	0,30	
400	0,20	0,23
500	0,30	
630	0,20	
800	0,20	0,23
1000	0,20	
1250	0,30	
1600	0,20	0,23
2000	0,10	
2500	0,40	
3150	0,00	0,07
4000	0,10	
5000	0,10	



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