

Sound absorption coefficient according to ISO 354 und ISO 11654

Measurement of sound absorption in a reverberation room, absorption coefficient α_s , practical absorption coefficient α_w

Client: Granorte
 Manufacturer: Granorte
 Installation: EPH

Product identification: **3D (wall)**
 Test room identification: Schalllabor 1 (EG)
 Date of test: 21/09/2016

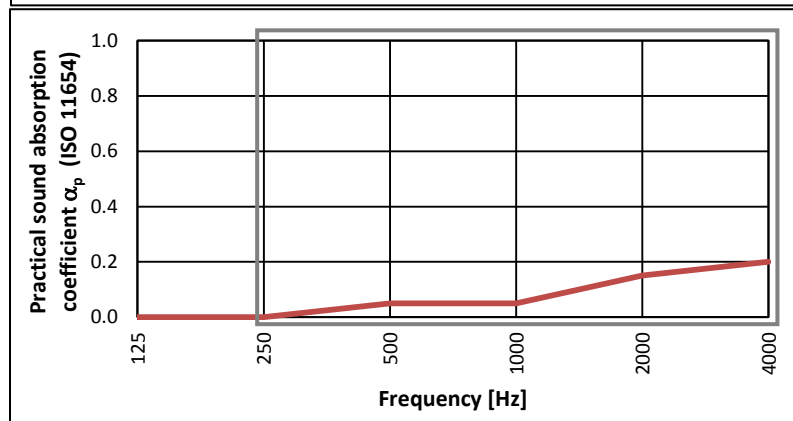
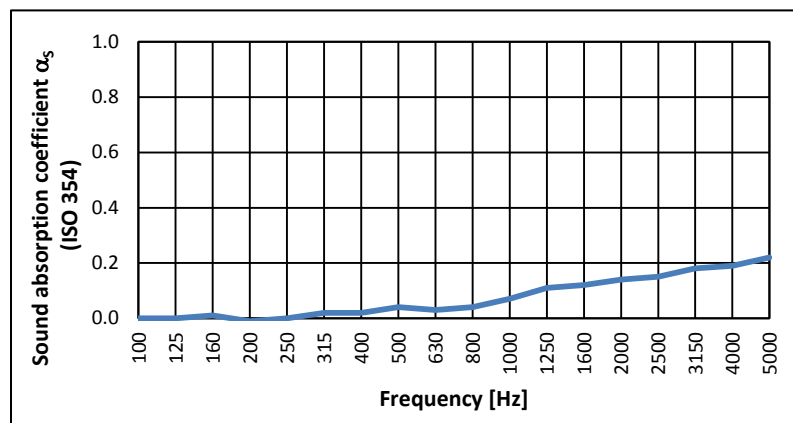
Description of the specimen/test set-up:

Cork wall tiles (3D tiles in different shapes),
 fixed with special film (Sigan-1, high-performance adhesiver)
 Reverberation room flooring

Area of specimen [m²]: 20.7
 Reverberation room volume [m³]: 76.9

| | | |
|----------------------------|---------------------------------|---------------------------|
| | <i>Empty reverberation room</i> | <i>Room with specimen</i> |
| Temperature [°C]: | 23.1 | 23.1 |
| Relative Humidity [%]: | 45.1 | 45.1 |
| Barometric pressure [kPa]: | 100.1 | 100.1 |

| Frequency [Hz] | α_s (ISO 354) 1/3 octave | α_p (ISO 11654) octave |
|----------------|---------------------------------------|-------------------------------------|
| 100 | 0.00 | |
| 125 | 0.00 | 0.00 |
| 160 | 0.01 | |
| 200 | -0.01 | |
| 250 | 0.00 | 0.00 |
| 315 | 0.02 | |
| 400 | 0.02 | |
| 500 | 0.04 | 0.05 |
| 630 | 0.03 | |
| 800 | 0.04 | |
| 1000 | 0.07 | 0.05 |
| 1250 | 0.11 | |
| 1600 | 0.12 | |
| 2000 | 0.14 | 0.15 |
| 2500 | 0.15 | |
| 3150 | 0.18 | |
| 4000 | 0.19 | 0.20 |
| 5000 | 0.22 | |



Frequency range for the rating according to ISO 11654

Weighted sound absorption coefficient α_w and classification according to ISO 11654:

$\alpha_w = 0.10$

Sound absorption class: -

Name of the testing institut:
 No. of test report/variant:

Entwicklungs- und Prüflabor Holztechnologie GmbH
 2716269-1/Variant-4

Date: 22/09/2016

Signature: Hauswald

