# Sound absorption coefficient according to ISO 354:2003

Measurement of sound absorption coefficient in a reverberation room

Client: Liaver GmbH & Co. KG

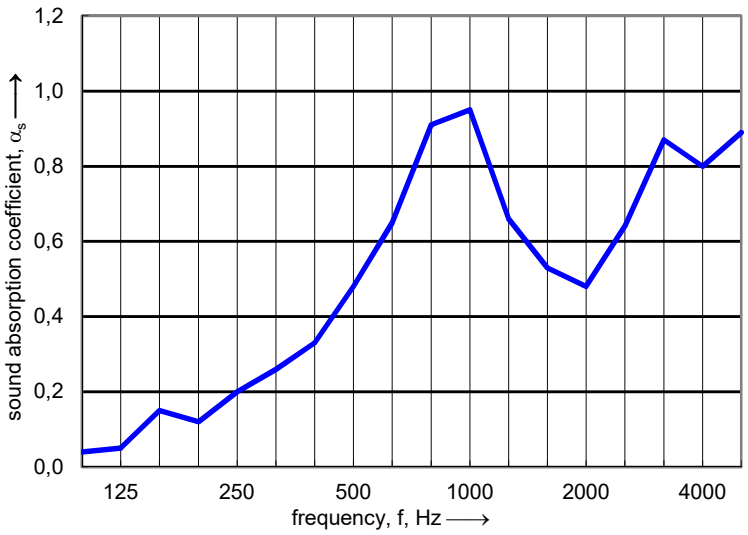
Date of test: 21.11.2016

Object: **Outdoor-Schallschutzplatte BT 60mm**

Outdoor - Noise Protection Panel BT 60 mm

| | | Empty reverberation room: | | Reverberation room with object: | |
|---|---|---|---|---|---|
| Surface area: | 12,00 $m^2$ | Relative humidity: | 54,0 % | Relative humidity: | 60,5 % |
| Reverberation room volume: | 205,9 $m^3$ | Temperature: | 21,1 °C | Temperature: | 21,0 °C |
| | | Barometric Pressure: | 993 kPa | Barometric Pressure: | 992 kPa |

| Frequency f [Hz] | $\alpha_s$ |
|---|---|
| 100 | 0,04 |
| 125 | 0,05 |
| 160 | 0,15 |
| 200 | 0,12 |
| 250 | 0,20 |
| 315 | 0,26 |
| 400 | 0,33 |
| 500 | 0,48 |
| 630 | 0,65 |
| 800 | 0,91 |
| 1000 | 0,95 |
| 1250 | 0,66 |
| 1600 | 0,53 |
| 2000 | 0,48 |
| 2500 | 0,64 |
| 3150 | 0,87 |
| 4000 | 0,80 |
| 5000 | 0,89 |




| DIN EN 1793-1:2017 | DIN EN ISO 11654 |
|---|---|
| $DL\alpha_{,NRD}$ = 4 dB | $\alpha_w$ = 0,5 |