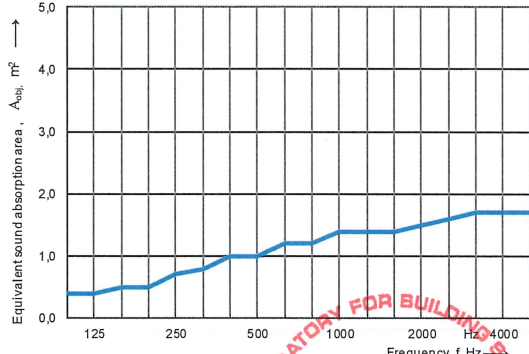


Protocol

| Equivalent sound absorption area according to ISO 354 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|--|
| Measurement of sound absorption area per object in a reverberation room | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client: | XAL GmbH, Auer-Welsbach-Gasse 36, AT-8055 Graz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date of test: | 28.04.2025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: | Productname: SOUNDCATCHER SOFT RD 1000 Type: double layer, PET felt, aluminum inset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object: | Test in full accordance with EN ISO 354. Setup of the test specimen in full accordance with EN ISO 354, section 6.2.2. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The setup consists of 3 individual elements (side length: 1000 mm, d ~7 mm, construction depth: ~150 mm) randomly distributed at a distance of at least d = 200 cm from each other. Element consisting of PET felt with round cut-out (diameter: ~230 mm) and an aluminium blind insert.</p> <p>Lamp shade model: SOUNDCATCHER SOFT RD 1000 Blind insert: Mita AC 240 RD BLIND SUSPENSION</p> <p>Distance to the floor with 4 adjustable feet each, consisting of threaded rods (M10, l = 1000 mm) and multiplex base plate.</p> <ul style="list-style-type: none"> • Test specimen area per element (front and back): $3 \times 2,07 \text{ m}^2 = 6,21 \text{ m}^2$ (total surface area PET material, without front sides, according to manufacturer) • Distance from the floor to the bottom edge of the test specimen: ~93,5 cm • Construction height: d ~108,5 cm • Weight per element: ~3,08 kg, without blind insert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty reverberation room: | Reverberation room with object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative humidity: | 51,9 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature: | 22,2 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barometric pressure: | 98,6 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative humidity: | 50,3 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature: | 22,0 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barometric pressure: | 98,6 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface area: | 6,21 m ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Room volume: | 244,3 m ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total room area S_T : | 240,1 m ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Frequency f [Hz]</th> <th>Aobj 1/3 octave [m²]</th> </tr> </thead> <tbody> <tr><td>100</td><td>0,4</td></tr> <tr><td>125</td><td>0,4</td></tr> <tr><td>160</td><td>0,5</td></tr> <tr><td>200</td><td>0,5</td></tr> <tr><td>250</td><td>0,7</td></tr> <tr><td>315</td><td>0,8</td></tr> <tr><td>400</td><td>1,0</td></tr> <tr><td>500</td><td>1,0</td></tr> <tr><td>630</td><td>1,2</td></tr> <tr><td>800</td><td>1,2</td></tr> <tr><td>1000</td><td>1,4</td></tr> <tr><td>1250</td><td>1,4</td></tr> <tr><td>1600</td><td>1,4</td></tr> <tr><td>2000</td><td>1,5</td></tr> <tr><td>2500</td><td>1,6</td></tr> <tr><td>3150</td><td>1,7</td></tr> <tr><td>4000</td><td>1,7</td></tr> <tr><td>5000</td><td>1,7</td></tr> </tbody> </table> | Frequency f [Hz] | Aobj 1/3 octave [m ²] | 100 | 0,4 | 125 | 0,4 | 160 | 0,5 | 200 | 0,5 | 250 | 0,7 | 315 | 0,8 | 400 | 1,0 | 500 | 1,0 | 630 | 1,2 | 800 | 1,2 | 1000 | 1,4 | 1250 | 1,4 | 1600 | 1,4 | 2000 | 1,5 | 2500 | 1,6 | 3150 | 1,7 | 4000 | 1,7 | 5000 | 1,7 |  |
| Frequency f [Hz] | Aobj 1/3 octave [m ²] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 0,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 0,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 0,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 0,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 315 | 0,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 630 | 1,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 1,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 1,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | 1,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 1,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2500 | 1,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3150 | 1,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 1,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5000 | 1,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of test institute: | Labor für Bauphysik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of test report: | B25-044-A17003-354a_kaso_Aobj | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date: | 28.04.2025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature: | DI J. Kasim | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |