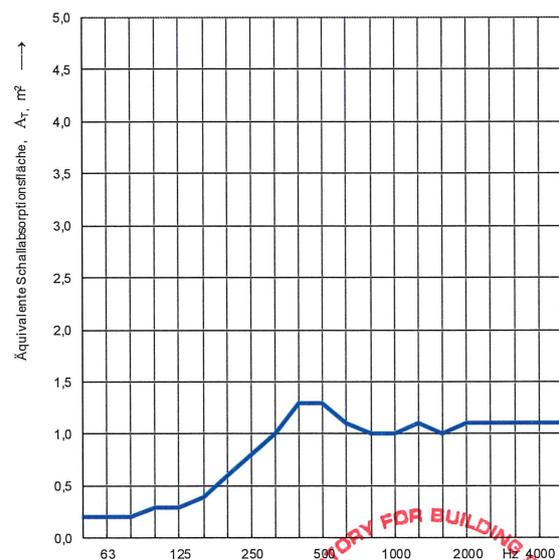


Protokoll

| Äquivalente Schallabsorptionsfläche nach ISO 354 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------------------|----------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|--|
| Messung der Schallabsorption im Hallraum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auftraggeber: | XAL GmbH, Auer-Welsbach-Gasse 36, AT-8055 Graz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfdatum: | 25.08.2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beschreibung: | Prüfung in Anlehnung an EN ISO 354, Durchführung der Prüfung mit reduzierter Anzahl an Mittelungen. Produktname: TRIG-O 500 mit TRIG-O ABSORBER 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Objekt: | Aufbau des Prüfkörpers gemäß EN ISO 354, Punkt 6.2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Aufbau bestehend aus insgesamt 4 Stück TRIG-O ABSORBER 1000 mit Einsatzleuchte TRIG-O 500 (4x gleichschenkeliges Dreieck mit Seitenlänge: 1000 mm, Höhe: 237 mm) in einem Abstand von mind. $d = 200$ cm zueinander zufällig verteilt. Element bestehend aus hochgekanntem PET-Filz ($d = 9$ mm), (Ober- und Seitenfläche absorbierend). Innenliegend eingelassen 4 Stück TRIG-O 500 (dreieckige Leuchte mit Seitenlänge: 500 mm, Höhe: 100 mm). Leuchte bestehend aus Alu-Blech und rückseitigem Stahlblech (Vorder- und Seitenfläche nicht absorbierend). Elemente mit rückseitigem Montageblech versehen.</p> <ul style="list-style-type: none"> • PK-Fläche (Vorder- und Seitenfläche): $4 \times 1,155 \text{ m}^2 = 4,62 \text{ m}^2$ • Abstand vom Boden zur Unterkante des Prüfkörpers: --- • Konstruktionshöhe: $d = 237$ mm • Gewicht je Einsatzleuchte: $\sim 4,05$ kg • Art.-Nr. Leuchte: 000365908 • Gewicht je Absorber: $\sim 5,03$ kg • Art.-Nr. Absorber: 000338360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hallraum leer: | Hallraum mit Prüfobjekt: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative Luftfeuchtigkeit: | 60,4 % | Relative Luftfeuchtigkeit: | 51,3 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperatur: | 23,3 °C | Temperatur: | 23,4 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Luftdruck: | 97,6 kPa | Luftdruck: | 97,4 kPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fläche des Prüfmaterials: | 4,62 m ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volumen des Hallraums: | 244,3 m ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Totale Raumfläche S_T : | 240,1 m ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Frequenz f [Hz]</th> <th>A_T Terz [m²]</th> </tr> </thead> <tbody> <tr><td>50</td><td>0,2</td></tr> <tr><td>63</td><td>0,2</td></tr> <tr><td>80</td><td>0,2</td></tr> <tr><td>100</td><td>0,3</td></tr> <tr><td>125</td><td>0,3</td></tr> <tr><td>160</td><td>0,4</td></tr> <tr><td>200</td><td>0,6</td></tr> <tr><td>250</td><td>0,8</td></tr> <tr><td>315</td><td>1,0</td></tr> <tr><td>400</td><td>1,3</td></tr> <tr><td>500</td><td>1,3</td></tr> <tr><td>630</td><td>1,1</td></tr> <tr><td>800</td><td>1,0</td></tr> <tr><td>1000</td><td>1,0</td></tr> <tr><td>1250</td><td>1,1</td></tr> <tr><td>1600</td><td>1,0</td></tr> <tr><td>2000</td><td>1,1</td></tr> <tr><td>2500</td><td>1,1</td></tr> <tr><td>3150</td><td>1,1</td></tr> <tr><td>4000</td><td>1,1</td></tr> <tr><td>5000</td><td>1,1</td></tr> </tbody> </table> | Frequenz f [Hz] | A_T Terz [m ²] | 50 | 0,2 | 63 | 0,2 | 80 | 0,2 | 100 | 0,3 | 125 | 0,3 | 160 | 0,4 | 200 | 0,6 | 250 | 0,8 | 315 | 1,0 | 400 | 1,3 | 500 | 1,3 | 630 | 1,1 | 800 | 1,0 | 1000 | 1,0 | 1250 | 1,1 | 1600 | 1,0 | 2000 | 1,1 | 2500 | 1,1 | 3150 | 1,1 | 4000 | 1,1 | 5000 | 1,1 |  |
| Frequenz f [Hz] | A_T Terz [m ²] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 0,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 0,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 0,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 0,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 0,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 0,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 0,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 315 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 1,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 1,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 630 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 1,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2500 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3150 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5000 | 1,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name des Prüfinstitutes: | Labor für Bauphysik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nr. des Prüfberichtes: | B20-037-A17007-354_kaso_Aobj | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Datum: | 25.08.2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unterschrift: | DIJ. Kasim | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |