

Client: Saint-Gobain Ecophon AB  
SE-265 03 Hyllinge, Sweden

**Results 2**

**Test specimen:**

Suspended ceiling, type: "Tonga dB 41 A", made of stone wool tiles (test object S 12178-13).

Suspended ceiling made of stone wool tiles, covered with glass veil back-facer (back) and painted glass fibre surface on the visible side (front). The tiles were placed at a distance of 200 mm from the reverberation chamber floor to the upper side of the tiles to form a test area of 11.9 m<sup>2</sup>. A frame made out of wooden composite ((27 mm thick, 200 mm high) was built around test area.

The joints between the test area and the frame and between the frame and the floor of the reverberation room were sealed with tape.

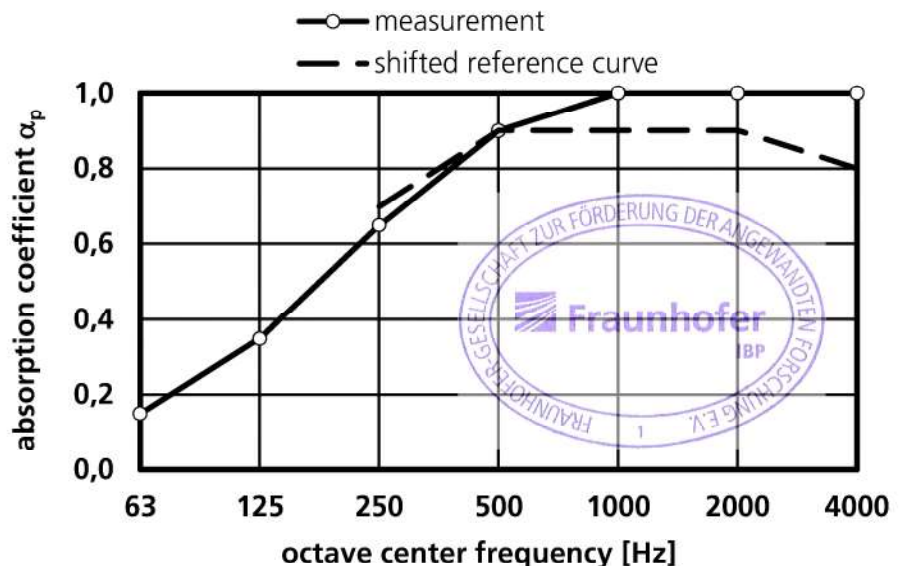
Standard dimension of one tile: 1200 mm x 600 mm x 38 mm (length x width x thickness)  
Area related mass: 6.6 kg/m<sup>2</sup>  
Air flow resistance: unknown

Distance from the upper side of the tiles to the floor: 200 mm

Test date: 16.11.2023  
Test lab: rev. room P20  
Test area: 11.9 m<sup>2</sup>  
Volume: V = 392 m<sup>3</sup>  
Test noise: sine sweep

	without test obj.	with test obj.
Air temp.:	21.0 ± 0.3 °C	21.1 ± 0.3 °C
Rel. Humidity:	44 ± 2 %	46 ± 2 %
Stat. pressure:	970 ± 1 hPa	970 ± 1 hPa

f [Hz]	$\alpha_p$ [-]
63	0.15
125	0.35
250	0.65
500	0.90
1000	1.00
2000	1.00
4000	1.00



It is recommended to use this singular rating in conjunction with the complete sound absorption curve.

**weighted sound absorption coefficient (acc. EN ISO 11654)**  
 $\alpha_w = 0.90$   
**sound absorber class A**



The test was carried out in laboratory facilities of the IBP which is accredited according to DIN EN ISO/IEC 17025 by the Dakks. The accreditation certificate is D-PL-11140-11-00.

Stuttgart, February 15, 2024  
Head of the test laboratory: