



HUSH ACOUSTIC PANELS

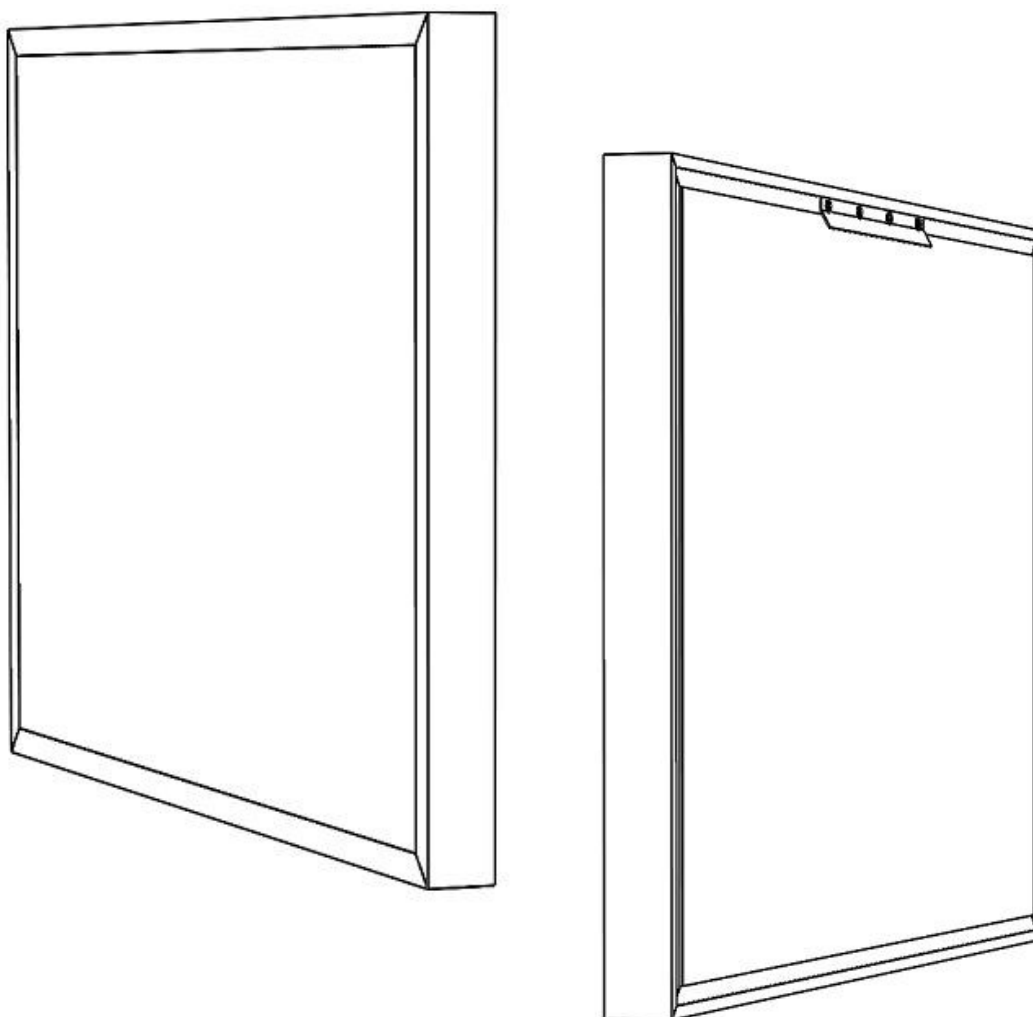
TECHNICAL BROCHURE



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Construction

- Frame material: untreated wood, depth 50 mm.
- M1 certified, acoustically tested ISO 354:2003, EN ISO 11654:1997 , acoustic class A wool sheet, thickness 50 mm.
 - Fire quality A2 - s1,d0 – European fire classification.Background of the wool sheet is sealed with M1 certified paint.
- Max Cotton fabric upholstery 100% cotton (also optional fabrics).
- Galvanized steel hidden fastener.



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DETERMINATION OF ACOUSTIC ABSORPTION COEFFICIENT IN LABORATORY CONDITIONS

1 CLIENT

Taulukeskus TK-Team, Tender January 30, 2019.

2 DESCRIPTION OF THE COMMISSION

Sound absorption coefficient α_s was measured for the specimen within 100–5000 Hz according to ISO 354:2003. Sound absorption class was determined according to EN ISO 11654:1997.

3 RESULTS

The weighted sound absorption coefficient α_w was 1.00 and the sound absorption class for the specimen was A. Detailed results are presented in Annex 1.

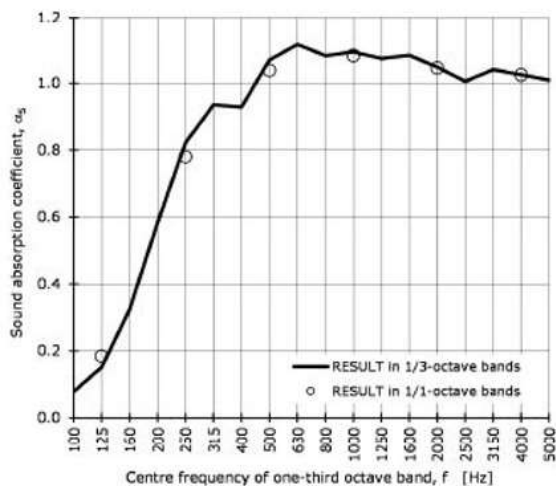
A material's sound absorbing properties are expressed by the sound absorption coefficient, α , (alpha), as a function of the frequency. α ranges from 0 (total reflection) to 1.00 (total absorption).

Determination of acoustic absorption coefficient according to ISO 354:2003 in laboratory conditions

Client: Taulukeskus TK-Team Oy
Mounting by: Jarkko Hakala
Test laboratory: Turku University of Applied Sciences, Laboratory of Acoustics
Lemminkäisenkatu 14-18 B, 20520 Turku, Finland. www.turkuamk.fi

Specimen area: 11.5 m² Test room volume: 155 m³
Temperature of test room: 21 21 °C (without / with specimen) Room boundary area: 179 m²
Relative humidity: 55 57 % (without / with specimen) Test date: 12.3.2019
Atmospheric pressure: 99 100 kPa (without / with specimen) Test file identification: T120319a

f (Hz)	1/3 α_s	1/1 α_s	1/1 α_p
100	0.08		
125	0.15	0.18	0.20 **
160	0.32		**
200	0.58		
250	0.82	0.78	0.80
315	0.94		
400	0.93		
500	1.07	1.04	1.00
630	1.12		
800	1.08		
1000	1.09	1.08	1.00
1250	1.07		
1600	1.08		
2000	1.05	1.05	1.00
2500	1.00		
3150	1.04		
4000	1.02	1.02	1.00
5000	1.01		



Absorption class (EN ISO 11654)

A

** Total absorption area of the empty test room is higher than ISO 354 requires.

The uncertainty of the test result is higher than ISO 354 expects.

