



# HUSH AKUSTIIKKAPANEELIT

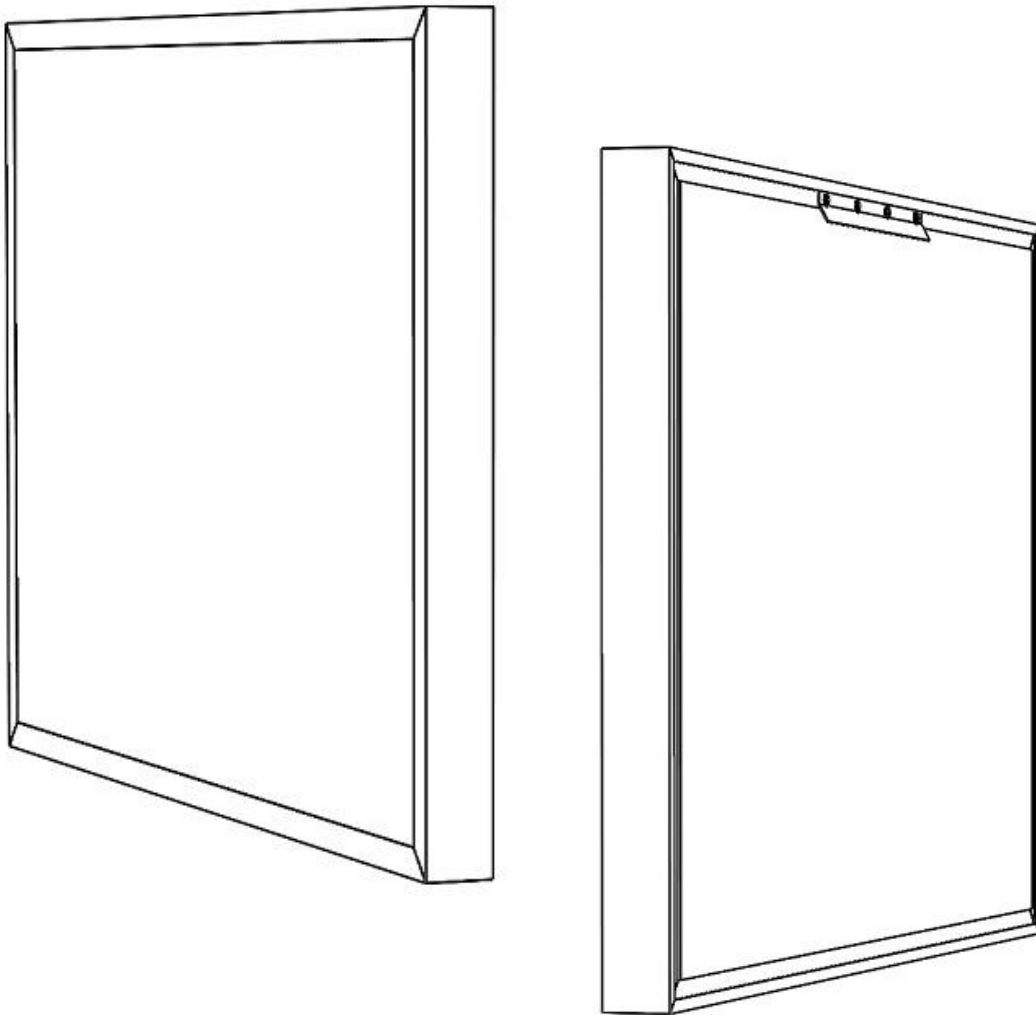
## TEKNINEN ESITE



[www.tk-team.com](http://www.tk-team.com)

# Rakenne

- Runkomateriaali: käsittelemätön puu, syvyys 50 mm.
- M1 sertifioitu, akustiikkatestattu ISO 354:2003, EN ISO 11654:1997 A-akustiikkaluokan villalevy, paksuus 50 mm.
  - Palo-ominaisuus A2 - s1,d0 - Europaloluokka.Villalevyn taustapuoli suljettu M1 sertifioidulla maalilla.
- Max Cotton kangasverhoilu 100% puuvillaa (myös muita vaihtoehtoja).
- Sinkitty teräksinen piilokiinnike.



## 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  $\alpha_s$  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  $\alpha_w$  was 1.00 and the sound absorption class for the specimen was A. Detailed results are presented in Annex 1.

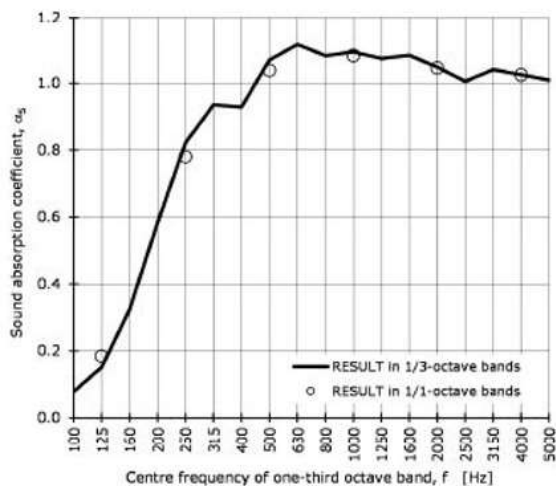
A material's sound absorbing properties are expressed by the sound absorption coefficient,  $\alpha$ , (alpha), as a function of the frequency.  $\alpha$  ranges from 0 (total reflection) to 1.00 (total absorption).

## 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 m<sup>2</sup> Test room volume: 155 m<sup>3</sup>  
Temperature of test room: 21 21 °C (without / with specimen) Room boundary area: 179 m<sup>2</sup>  
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 $\alpha_s$	1/1 $\alpha_s$	1/1 $\alpha_p$
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.

