

Lineawood Acoustic Slatted Panels

Real oak veneer architectural panels for dry interior walls and ceilings with integrated sound absorption.

PRODUCT OVERVIEW

Lineawood Acoustic Panels combine real oak veneer slats with a specially engineered MDF core, precision-milled rear openings, and acoustic fabric applied to both sides of the base. The panels are intended for dry indoor wall and ceiling applications where a coordinated architectural finish and improved sound absorption are required.

Sound absorption class	Class C
Weighted coefficient	α_w up to 0.65, tested assembly
Panel size	118" x 8.5" x 0.79" (3000 x 217 x 20 mm)
Panel coverage	Approx. 7.0 sq. ft. (0.65 m²)
Panel weight	Approx. 14.33 lbs. (6.5 kg)

TECHNICAL DATA

Characteristic	Technical data
Panel construction	MDF base with real oak veneer slats and acoustic fabric on both sides of the base
Slat configuration	Five slats, each 1.42" (36 mm) wide, with 0.31" (8 mm) spacing
Acoustic openings	40 precision-milled openings, each approximately 7.09" x 0.79" (180 x 20 mm); approximately 21% open area
Joining	Tongue-and-groove joints on all sides
Slat profile	Gently rounded edges; slats planed at a 45-degree angle
Finishes	Oak, White Oak, Mocha, and Black
Adhesive / coating	Water-soluble adhesive; UV-cured varnish for Oak and White Oak; water-based lacquer for Mocha and Black
Emissions	Finnish Emissions Class M1 certified
Applications	Dry interior walls and ceilings

Nominal dimensions: All dimensions shown are nominal. Final product selection and detailing should be confirmed against current production data, project conditions, applicable codes, and installation requirements.

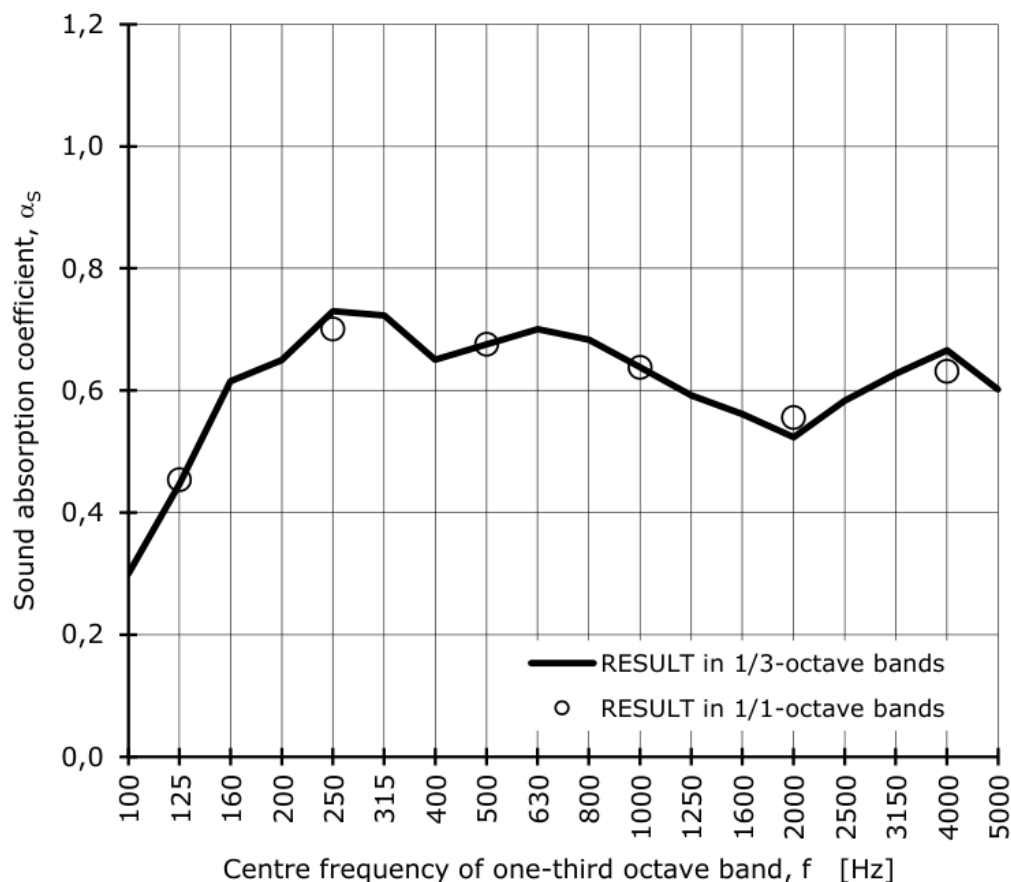
Acoustic Performance

Laboratory testing was conducted by the Turku University of Applied Sciences, Laboratory of Acoustics, in accordance with ISO 354:2003. Sound absorption class was determined in accordance with EN ISO 11654:1997.

Tested configuration	α_w	Absorption class
Panel + 1.97" (50 mm) mineral wool + 5.91" (150 mm) air gap	0.65	C
Panel + 7.87" (200 mm) air gap	0.55	D
Panel + 1.97" (50 mm) mineral wool	0.65	C
Panel + 1.97" (50 mm) air gap	0.60	C

Representative Sound Absorption Curve

The graph below shows the tested one-third octave and one-octave absorption results for the assembly consisting of the panel, 1.97" (50 mm) mineral wool, and a 5.91" (150 mm) air gap. This configuration achieved $\alpha_w = 0.65$ and Sound Absorption Class C.



TEST BASIS

ISO 354:2003 reverberation-room testing; EN ISO 11654:1997 classification. Test report SY20-18 dated February 19, 2020.

IMPORTANT LIMITATION

Acoustic performance depends on the complete installed assembly, including air cavity, insulation, framing, perimeter conditions, and mounting method. Results apply only to the tested configurations.

The original test report states that the results are valid only for the tested items and that the report, or any part of it, may not be reproduced without written approval of the Turku University of Applied Sciences. This data sheet summarizes the published results for product-selection purposes and does not replace the complete test