

Lineawood Acoustic Slatted Panels

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



Lineawood slatted panels installed as a ceiling. Project installation shown for reference; the slatted and acoustic panel families are visually identical from below, so panel family, finish, and cavity build are as specified for that project rather than as documented on this sheet.

PRODUCT OVERVIEW

Lineawood Acoustic Panels combine real oak veneer slats with a specially engineered MDF base, precision-milled rear openings, and premium black acoustically transparent fabric applied to both sides of the base. The panels are intended for dry interior wall and ceiling applications where a coordinated architectural finish and improved sound absorption are required. Reference specification: Section 06 4216 - Wood Paneling.

Sound absorption class	Class C, EN ISO 11654
Weighted coefficient α_w	0.65, tested assembly
Panel size	118" x 8.5" x 0.75" (3000 x 217 x 19 mm)
Panel coverage	Approx. 7.0 sq. ft. (0.65 m ²) per panel
Panel weight	Approx. 14.33 lbs. (6.5 kg)
Product codes	LP1-B-O-05, LP1-B-W-05, LP1-B-M-05, LP1-B-B-05

TECHNICAL DATA

Characteristic	Technical data
Panel construction	Real oak veneer slats on a specially engineered MDF base, with precision-milled rear openings and premium black acoustically transparent fabric factory-applied to both sides of the machined base
Panel thickness	0.75" (19 mm)
Slat configuration	Five slats, each approximately 1.42" (36 mm) wide, with approximately 0.31" (8 mm) black reveal between slats
Acoustic openings	40 precision-milled openings, each approximately 7.09" x 0.79" (180 x 20 mm); approximately 21 percent open area
Joining	Precision tongue-and-groove joints on all sides
Slat profile	Exposed slat edges gently rounded and planed at approximately 45 degrees
Finishes	Oak, White Oak, Mocha, and Black
Adhesive / coating	Water-soluble adhesive compatible with MDF, veneer, and acoustic fabric; UV-cured varnish for Oak and White Oak, water-based lacquer for Mocha and Black
Emissions	Finnish Emission Classification M1 certified, subject to current manufacturer documentation
Certified wood	FSC-certified wood available where required by the Project
Surface burning characteristics	ASTM E84 rating to be established for the project-specific assembly; verify required class with the authority having jurisdiction
Related panel families	Slatted (Class E), Wet-Room, Outdoor, and Flat panels; see Section 06 4216. Wide (2.56"/65 mm) and mixed-width slats do not apply to the tested acoustic assembly
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.

Installation. This data sheet is issued for product selection and design coordination only. **It is not an installation instruction, and nothing on this document is to be used for installation.** Install in accordance with AAPG's current published installation instructions and the approved shop drawings. The dimensions, details, and data shown here describe the product; they do not describe the substrate preparation, sequence, fixings, or tolerances required to install it. Where this sheet and the installation instructions differ, the installation instructions govern.

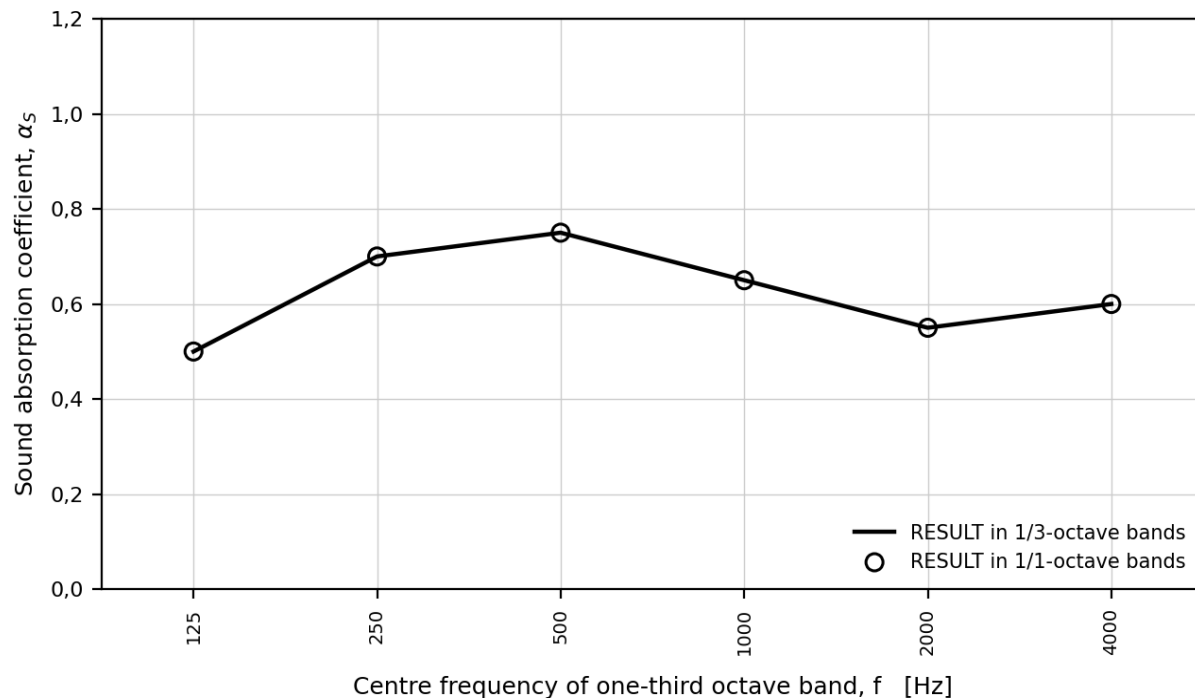
Acoustic Performance

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. The tested specimen consisted of slatted acoustic panels, nominal 118 in. by 8.5 in. (3000 mm by 217 mm), with five slats and 40 rear openings, over a total test area of 113 sq. ft. (10.5 m²).

Tested configuration	α_w	Absorption class
Panel + 2 in. (50 mm) mineral wool + 6 in. (150 mm) air gap	0.65	C
Panel + 8 in. (200 mm) air gap	0.55	D
Panel + 2 in. (50 mm) mineral wool, no air gap	0.65	C
Panel + 2 in. (50 mm) air gap	0.60	C

Practical Sound Absorption Coefficients

Octave-band practical sound absorption coefficients (α_p) for the Class C assembly incorporating 2 in. (50 mm) mineral wool. One-third-octave results for this assembly range from 0.29 at 100 Hz to a peak of 0.80 at 250 Hz.



TEST BASIS

ISO 354:2003 reverberation-room testing; EN ISO 11654:1997 classification. Turku University of Applied Sciences, Laboratory of Acoustics, Report SY20-18, dated February 19, 2020.

IMPORTANT LIMITATION

Test results are valid only for the tested specimens and mounting configurations. Changes in cavity depth, insulation, substrate, perimeter sealing, penetrations, or installed area may change performance. Performance shall not be extrapolated to untested mounting conditions.

LINEAWOOD PANELS TECHNICAL DATA SHEET

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 report.