APA PRODUCT REPORT®

Zip-O-Laminators Acoustic Sound Panel
Zip-O-Laminators, LLC

PR-L353
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Products: Zip-O-Laminators Acoustic Sound Panel
Zip-O-Laminators, LLC, 2701 West 1st Ave., P.O. Box 2236, Eugene, OR 97402
(541) 343-6968
www.zipolog.com

1. Basis of the product report:
   - 2024, 2021, 2018, and 2015 International Building Code (IBC): Section 2303.1.3 Structural glued laminated timber
   - 2024, 2021, 2018, and 2015 International Residential Code (IRC): Sections R502.1.3 and R802.1.2 Structural glued laminated timber
   - ANSI 117-2020 and ANSI 117-2015 recognized in the 2024 and 2021 IBC and IRC, and 2018 IBC and IRC, respectively
   - ANSI A190.1-2022, ANSI A190.1-2017, and ANSI A190.1-2012 recognized in the 2024 IBC and IRC, 2021 and 2018 IBC and IRC, and 2015 IBC and IRC, respectively
   - 2024, 2018, and 2015 ANSI/AWC NDS, National Design Specification for Wood Construction recognized in the 2024 IBC and IRC, 2021 and 2018 IBC and IRC, and 2015 IBC and IRC, respectively
   - 2021 ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS)
   - Qualification test data

2. Product description:
   Zip-O-Laminators acoustic sound panel products are glued laminated timber manufactured in accordance with ANSI A190.1. The panel produced in accordance with layup combination recognized in ANSI 117 is notched as shown in Figure 1. Zip-O-Laminators acoustic sound panel products are used as roof or floor (interior application), and are manufactured in nominal widths of 3 to 48 inches, depths of 5-1/8 to 12 inches, and lengths up to 30 feet.

3. Design properties:
   Allowable design properties for Zip-O-Laminators acoustic sound panel products are listed in Table 1. Only the shaded area of the cross section, as shown in Figure 1, shall be considered effective when evaluating structural capacities. The allowable spans for Zip-O-Laminators acoustic sound panel products shall be in accordance with the recommendations provided by the manufacturer, or shall be determined based on the design properties listed in Table 1, as appropriate.

   When used as diaphragm, Zip-O-Laminators acoustic sound panel is considered as laminated decking and must be sheathed with wood structural panel sheathing in accordance with the requirement of Section 4.2 of the Special Design Provisions for Wind and Seismic (SDPWS).

   The acoustic performance of the panels is beyond the scope of this report.

4. Product installation:
   Zip-O-Laminators acoustic sound panel products shall be installed in accordance with the recommendations provided by the manufacturer and the construction documents approved by the engineer of record. Permissible details shall be in accordance with the engineering drawings.

5. Fire-rated assemblies:
   Design of fire-resistant exposed wood members in accordance with Chapter 16 of the National Design Specification for Wood Construction (NDS), or Section 722.1 of the 2024, 2021, 2018, and 2015 IBC shall be applicable to Zip-O-Laminators acoustic sound panel products. Only the shaded area of the cross section, as shown in Figure 1, shall be considered effective in fire design of wood members.

6. Limitations:
   a) Zip-O-Laminators acoustic sound panel products listed in this report shall be designed in accordance with the applicable code and the National Design Specification for Wood Construction using the allowable design properties specified in this report.
   b) Zip-O-Laminators acoustic sound panel products shall meet the dimensions specified in ANSI 117 and ANSI A190.1.
   c) Zip-O-Laminators acoustic sound panel products are recognized in this report are intended to be used in floor and roof applications where span is along the length of the panel and be supported perpendicular to laminations at panel ends and/or intermediate locations. Use of Zip-O-Laminators acoustic sound panel with bearing parallel to the laminations is outside the scope of this report.
   d) Only the shaded area of the cross section, as shown in Figure 1, shall be considered effective in structural calculations. Additional notching or drilling Zip-O-Laminators acoustic sound panel has not been evaluated and is outside the scope of this report.
   e) Zip-O-Laminators acoustic sound panel products listed in this report are produced at the Zip-O-Laminators' Eugene, Oregon facilities under a quality assurance program audited by APA.
   f) This report is subject to re-examination in one year.

7. Identification:
   Zip-O-Laminators acoustic sound panel products listed in this report are identified by a label bearing the manufacturer's name (Zip-O-Laminators) and/or trademark, the APA assigned plant number (1120), the product standard (ANSI A190.1), the APA logo, the product name, the report number PR-L353, and a means of identifying the date of manufacture.

Table 1. Allowable Design Values for Zip-O-Laminators Acoustic Sound Panel for Normal Duration of Load(1,2)

Product Name	Combination Symbol	Species(3)	Grade	All Loading				Bending about Y-Y Axis				Fasteners
				Modulus of Elasticity(4)			Compression Perpendicular to Grain	Loaded Parallel to Wide Faces of Laminations				Specific Gravity for Dowel-Type Fastener Design
								Bending(5)			Shear Parallel to Grain(6,7)	
								4 or More Lams	3 Lams	2 Lams		
				$E_{y\,true}$ (10^6 psi)	$E_{y\,app}$ (10^6 psi)	$E_{y\,min}$ (10^6 psi)	$F_{c\perp}$ (psi)	F_{by} (psi)	F_{by} (psi)	F_{by} (psi)	F_{vy} (psi)	SG
AL-FCP-P1	3	DF	L2D	2.0	1.9	1.00	650	2,100	1,850	1,550	230	0.50
Wet-use factors				0.833			0.53	0.8			0.875	see NDS

(1) The tabulated allowable design values are for normal duration of loading. For other durations of loading, see applicable building code. The tabulated allowable design values are for dry conditions of use. For wet conditions of use, multiply the tabulated values by the factors shown at the bottom of the table.

(2) Referenced design values must be adjusted, as applicable, in accordance with Section 5.3 of the NDS.

(3) DF = Douglas fir-Larch.

(4) The tabulated E values include shear-free (true) modulus of elasticity ($E_{y\,true}$), apparent modulus of elasticity ($E_{y\,app}$), and 5th percentile modulus of elasticity ($E_{y\,min}$). For calculating the total deflection due to bending, the tabulated $E_{y\,app}$ values shall be used, or as an alternative, the true (shear-free) bending deflection shall be calculated using the tabulated $E_{y\,true}$, which shall be added to the calculated shear deflection to determine the total deflection due to bending.

(5) The values of F_{by} are based on members 12 inches in depth. For depths less than 12 inches, F_{by} shall be permitted to be increased by multiplying by the flat use factor, $(12/d)^{1/9}$, where d is the beam depth in inches. When d is less than 3 inches, use the size adjustment factor for 3 inches.

(6) For non-prismatic members, notched members, members subject to impact or cyclic loading, or shear design of bending members at connections (2024 NDS 3.4.4.1 or 2018 and 2015 NDS 3.4.3.3), the tabulated F_{vy} values shall be multiplied by 0.72.

(7) The tabulated F_{vy} values are for members of 4 or more lams. The tabulated F_{vy} values shall be multiplied by a factor of 0.95 for 3 lams and 0.84 for 2 lams. For members with 5, 7, or 9 lams manufactured from multiple-piece lams with unbonded edge joints, the tabulated F_{vy} values shall be multiplied by a factor of 0.4. For all other members manufactured from multiple-piece lams with unbonded edge joints, the tabulated F_{vy} values shall be multiplied by a factor of 0.5. This adjustment shall be cumulative with the adjustment specified in Footnote 6.

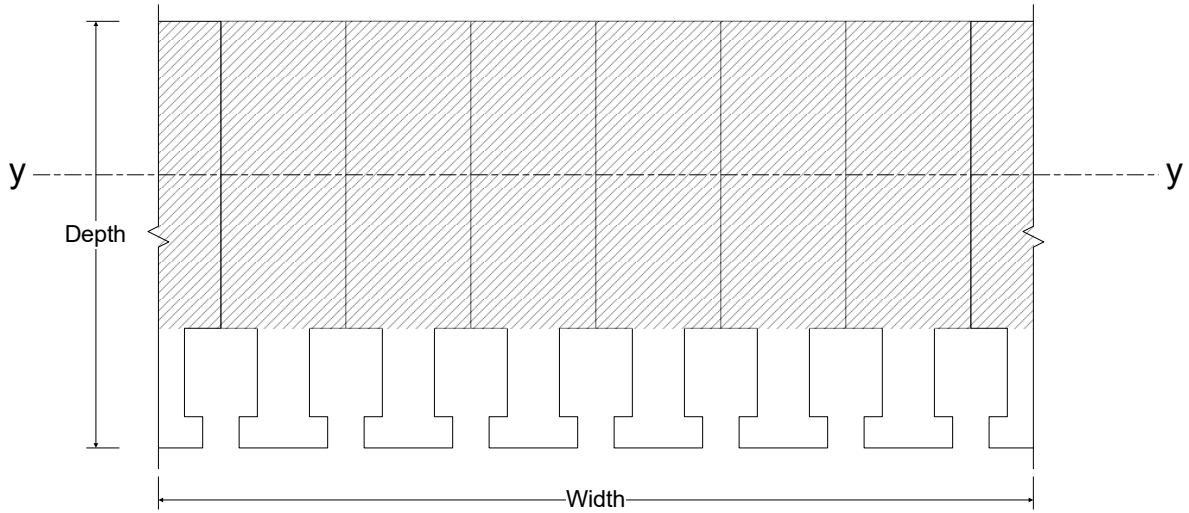

Figure 1 Cross section of Zip-O-Laminators acoustic sound panel.

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APA – THE ENGINEERED WOOD ASSOCIATION
HEADQUARTERS
7011 So. 19th St. ▪ Tacoma, Washington 98466
Phone: (253) 565-6600 ▪ Fax: (253) 565-7265 ▪ Internet Address: www.apawood.org

PRODUCT SUPPORT HELP DESK
(253) 620-7400 ▪ *E-mail Address*: help@apawood.org

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