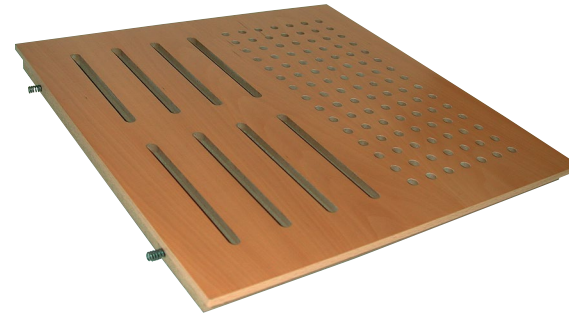


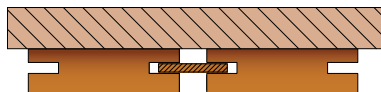
LAWAPAN® WALL

STANDARD & TREND | WOOD VENEERED ACOUSTIC PANELS

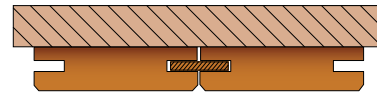
LAWAPAN® STANDARD and **LAWAPAN® TREND** are available as wall panels or ceiling strips, providing sound absorption through perforations or slots.



LAWAPAN® STANDARD is a 17 mm thick, wood veneered acoustic panel, installed with concealed clips (SK5/0) to a wood frame or with special turn clips (DK5/10) to T-sections. Distance between panels after installing: 1 mm, 5 mm or 10 mm. Connecting strips are installed between panels to ensure stability and create decorative reveal. Connecting strips can be a contrasting colour or matched with veneer. Edges are fully finished with real wood veneer edge banding.



LAWAPAN® TREND is a 17 mm thick, wood veneered acoustic panel with a bevelled edge. **LAWAPAN® TREND** panels are installed with concealed mounting clip (SK5/0) to a wood frame or with special turn clips (DK5/10) to 24 mm T-sections.



TYPE

Acoustic panel for interior application

MATERIALS

Face*: Sliced Real Wood Veneer, 0.6 mm
 Quality A, or as specified
 *FSC-Certified wood veneers available
 *Engineered wood veneers available
 *Painted finishes available
 *High Pressure Laminate (HPL) available

Finish: UV Premium Interior Lacquered - Clear

Base: Fire-retardant MDF

Back: Blind Veneer + Black Acoustic Fleece

Core (Optional): 50 mm acoustic core can be installed behind **LAWAPAN®** panels to maximise acoustic performance.
 Acoustic core and furring typically provided as separate items.

STANDARD DIMENSIONS (Custom sizes available)

Thickness: 17 mm

Size (L x W): 600 mm x 600 mm
 1200 mm x 600 mm
 2420 mm x 290 mm
 2420 mm x 600 mm
 2420 mm x 1200 mm

ACOUSTICS

NRC as high as 0.85 according to perforation and installation methods. A wide variety of sizes and configurations available in round or slotted perforations. Custom perforations available including square-edge perforation and micro perforation.

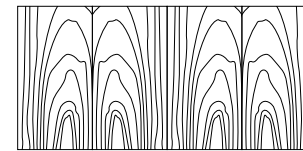
See perforation guide on subsequent pages.

MOUNTING

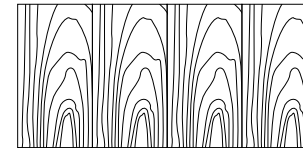
SK5/0, SK5/5 or SK5/10 clips provided by **eomac**, mounted to timber or metal furring. Special turn clips available when installing to T-grid.

WOOD VENEER

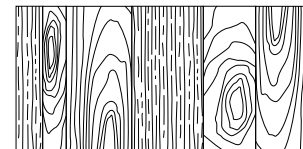
The view-side of panels are finished with a top quality, hand-selected veneer. Over 40 wood species are available in stock. Panels are finished in a premium clear lacquer over a three-stage process, ensuring only the highest standard and durability. Custom staining and PANTONE, RAL or NCS colour matching is available. Veneer sheets with a width of 10 cm to 20 cm are typically book-matched to ensure continuation. Slip-matched or mismatched sheets can be produced upon request, providing a natural or variable wood art effect.



Book-matched



Slip-matched



Mismatched

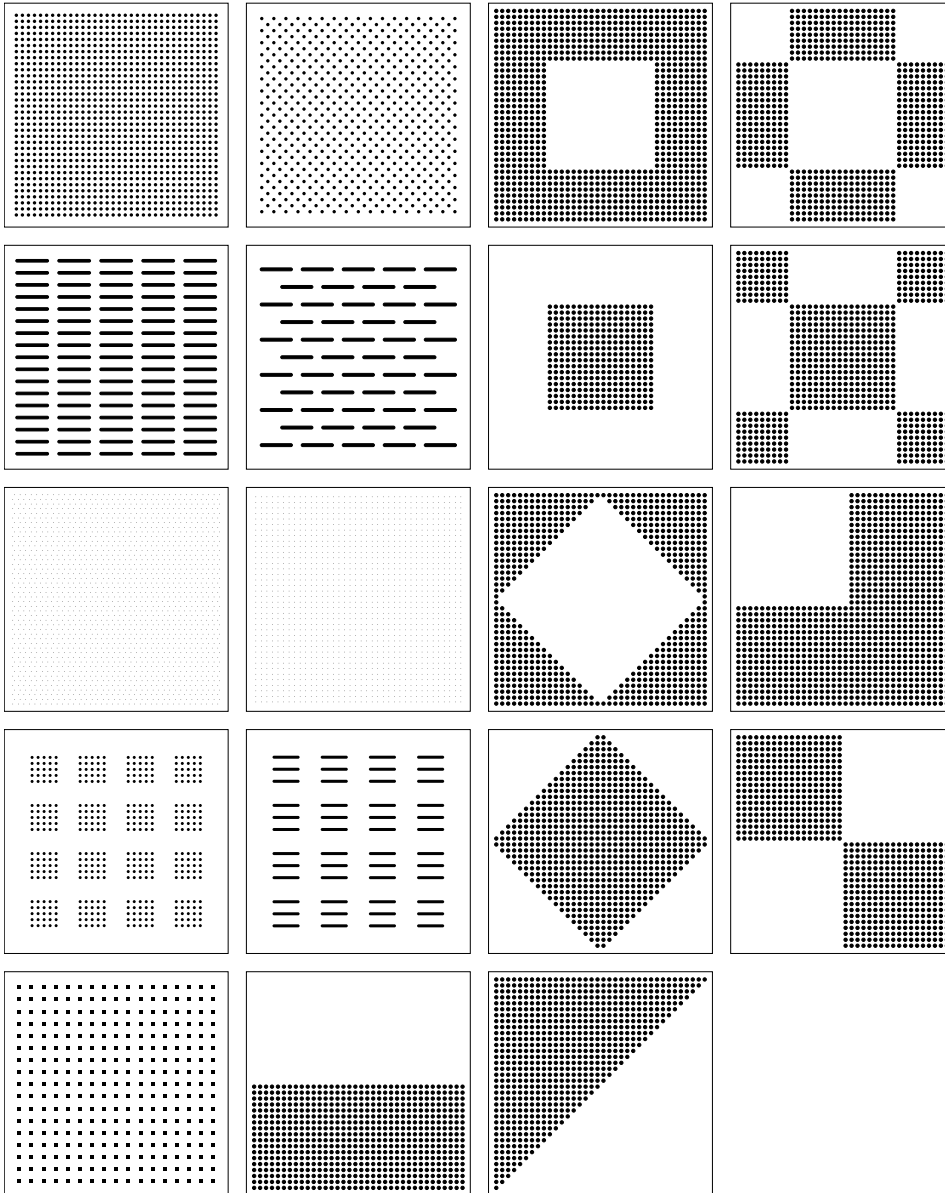
FLAMMABILITY

Fire test data performed by independent laboratories. Support documentation available upon request. Note that all data provided is for typical usage.

eomac is adaptable to other situations and custom applications.



CANADA: CAN/ULC-S 102: Class 1
 EU: EN 13501-1: Class B, s2, d0
 USA: ASTM E-84: Class A
 NFPA 265; UBC 8-2: Passes



SELECTING PERFORATION

Please review acoustic data and select the look and performance that meets any project criteria.

PERFORATION

Acoustics by means of a perforation with a diameter of 7 mm, 8 mm or 9 mm
 Centre to centre distance between perforations: 16 mm, 32 mm or 64 mm
 Panels are available with regular and irregular perforations.
 Custom-shaped perforations available upon request.

MICRO PERFORATION AND SQUARE-EDGE PERFORATION

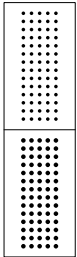
Available as STANDARD and TREND in panel size of 2400 mm x 600 mm
 Micro perforation of $\varnothing 1.5$ mm, regular distance 8 mm
 Number of perforations per m²: 10,500
 Square-edge perforation of 5 mm, regular distance 32 mm

SLOTS

Acoustics by means of a regular or irregular CNC grooved panel
 The diameter of the CNC grooved slot $\varnothing 8$ mm
 $\varnothing 7$ mm and $\varnothing 9$ mm available upon request, length of the slot approximately 87 mm
 Centre to centre distance between the slots: 24 mm, 32 mm or 48 mm

Various patterns can be combined to form unique designs.

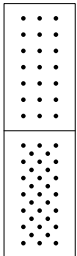
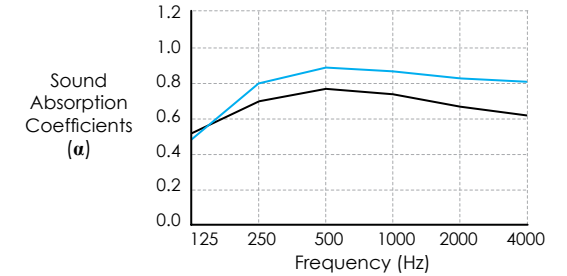
ACOUSTICS THROUGH PERFORATION & MICRO PERFORATION



— Regular perforation Ø7 mm: Centre to centre 16 mm; 15.0% perforation rate
 — Regular perforation Ø9 mm: Centre to centre 16 mm; 24.9% perforation rate
 Depth of construction: 200 mm

Perforation	Sound Absorption Coefficients (Hz)						α_w (ISO 11654)	NRC (ASTM - C423)
	125	250	500	1000	2000	4000		
Ø7 mm	0.52	0.70	0.77	0.74	0.67	0.62	0.70	0.70
Ø9 mm	0.48	0.80	0.89	0.87	0.83	0.81	0.90	0.85

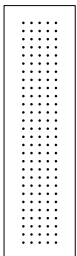
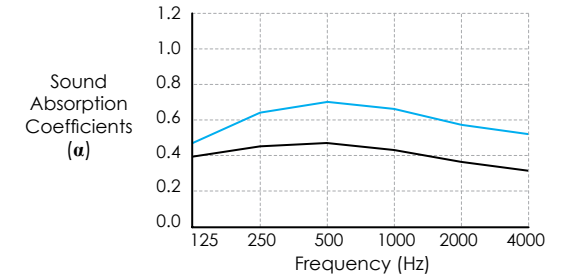
Values 1/1 octave



— Regular perforation Ø9 mm: Centre to centre 32 mm; 6.2% perforation rate
 — Irregular perforation Ø9 mm: Centre to centre 32/16 mm; 12.4% perforation rate
 Depth of construction: 200 mm

Perforation	Sound Absorption Coefficients (Hz)						α_w (ISO 11654)	NRC (ASTM - C423)
	125	250	500	1000	2000	4000		
Ø9 mm	0.39	0.45	0.47	0.43	0.36	0.31	0.40	0.45
Ø9 mm	0.47	0.64	0.70	0.66	0.57	0.52	0.60	0.65

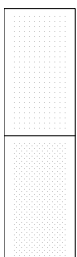
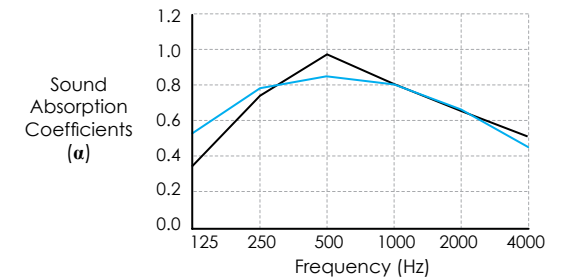
Values 1/1 octave



— Depth of construction: 67 mm
 — Depth of construction: 200 mm
 Regular perforation view side Ø5 mm, reverse side Ø9 mm: Centre to centre 16 mm; 7.7% perforation rate

Depth	Sound Absorption Coefficients (Hz)						α_w (ISO 11654)	NRC (ASTM - C423)
	125	250	500	1000	2000	4000		
67 mm	0.34	0.74	0.97	0.81	0.65	0.51	0.65	0.80
200 mm	0.52	0.78	0.85	0.80	0.66	0.45	0.65	0.80

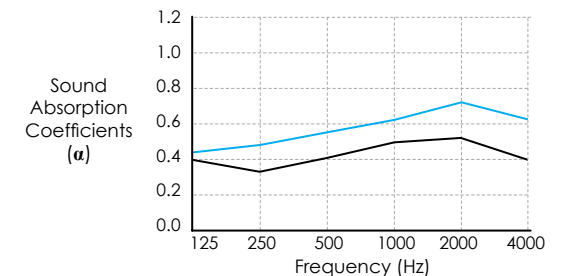
Values 1/1 octave



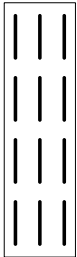
— Regular micro perforation Ø1.5 mm: Centre to centre 8 mm; 7.1% perforation rate
 — Irregular micro perforation Ø1.5 mm: Centre to centre 8/4.5 mm; 14.1% perforation rate
 Depth of construction: 67 mm

Perf. Rate	Sound Absorption Coefficients (Hz)						α_w (ISO 11654)	NRC (ASTM - C423)
	125	250	500	1000	2000	4000		
7.1%	0.39	0.32	0.40	0.49	0.51	0.39	0.50	0.45
14.1%	0.44	0.48	0.55	0.62	0.72	0.62	0.60	0.60

Values 1/1 octave



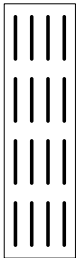
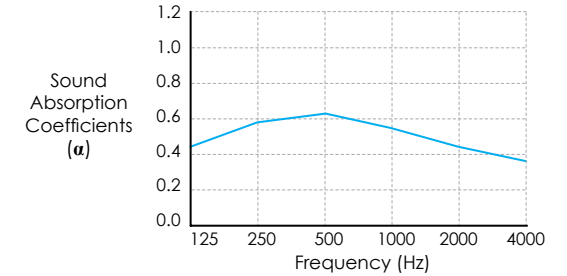
ACOUSTICS THROUGH SLOTS



— Regular slots, width 7 mm, length 97 mm, centre to centre 48 mm; 10.7% perforation rate
Depth of construction: 200 mm

Sound Absorption Coefficients (Hz)							α_w	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)	
0.44	0.58	0.63	0.55	0.44	0.36	0.50	0.55	

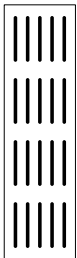
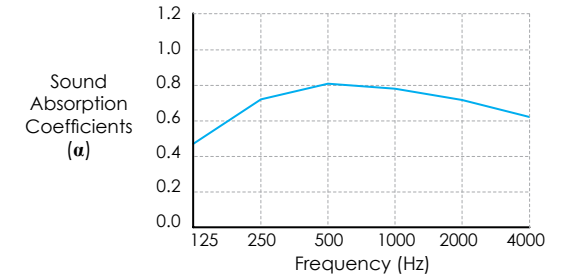
Values 1/1 octave



— Regular slots, width 7 mm, length 97 mm, centre to centre 32 mm; 16.1% perforation rate
Depth of construction: 200 mm

Sound Absorption Coefficients (Hz)							α_w	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)	
0.46	0.67	0.73	0.68	0.60	0.52	0.65	0.65	

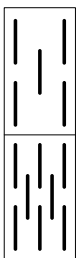
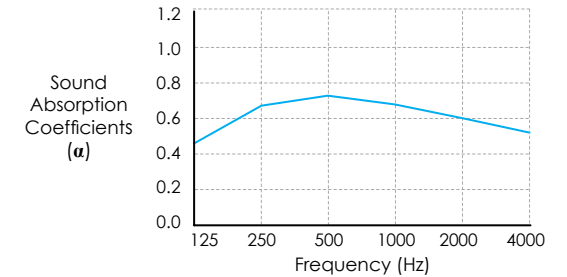
Values 1/1 octave



— Regular slots, width 7 mm, length 97 mm, centre to centre 24 mm; 21.4% perforation rate
Depth of construction: 200 mm

Sound Absorption Coefficients (Hz)							α_w	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)	
0.47	0.72	0.81	0.78	0.72	0.62	0.75	0.75	

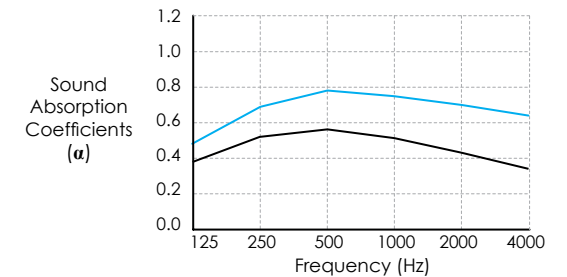
Values 1/1 octave



— Irregular slots, width 7 mm, length 97 mm, centre to centre 48 mm; 10.7% perforation rate
— Irregular slots, width 7 mm, length 97 mm, centre to centre 24 mm; 21.4% perforation rate
Depth of construction: 200 mm

Perf. Rate	Sound Absorption Coefficients (Hz)						α_w	NRC
	125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
10.7%	0.48	0.69	0.78	0.75	0.70	0.64	0.75	0.75
21.44%	0.38	0.52	0.56	0.51	0.43	0.34	0.50	0.50

Values 1/1 octave



INSTALLATION GUIDELINES

- Prior to installation, **LAWAPAN®** should be acclimatised for a minimum of 24 hours.
- Installation of **LAWAPAN®** can start only in a controlled environment, when temperature and humidity conditions have reached to the standard occupancy conditions.
- Humidity should not exceed 65%.
- Veneer is a natural product with natural colour and structure variations. As such it is advised that **LAWAPAN®** panels be sorted before assembly in order to ensure uniformity.
- Panels to be installed on furring (timber recommended) spaced according to panel sizes.
- Prior to mounting **LAWAPAN®** panels, ensure furring is plum and level.
- Secure **LAWAPAN®** panels with manufacturer supplied clips at furring points along mounting groove. If necessary, a finish nailer can be used for added support.
- It is recommended to leave a 2 mm gap between **LAWAPAN®** panels, which meet at short ends, to allow for potential expansion / contraction, as new construction settles.
- **LAWAPAN®** panels to be installed by qualified installers only.
- The methods described in this document are provided as guidance only. Relevant national building and installation codes should be strictly followed and take precedence.
- **eomac** is not responsible for any damage or deficiency caused by improper installation.

Typical LAWAPAN® WALL shop drawings available upon request.

For more information, please contact us.