

# LAWAPAN® WALL

STANDARD & TREND | WOOD VENEERED ACOUSTIC PANELS

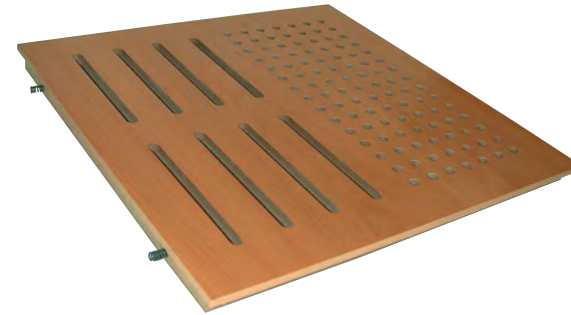
LAWAPAN® STANDARD and LAWAPAN® TREND are available as wall panels or ceiling strips, providing sound absorption through perforations or slots.



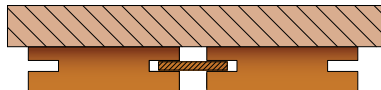
# LAWAPAN® WALL

STANDARD & TREND | WOOD VENEERED ACOUSTIC PANELS

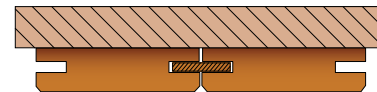
**LAWAPAN® STANDARD** and **LAWAPAN® TREND** are available as wall panels or ceiling strips, providing sound absorption through perforations or slots.



**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.

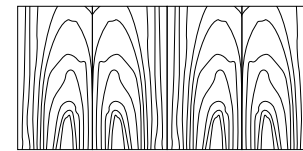
**See perforation guide on subsequent pages.**

## MOUNTING

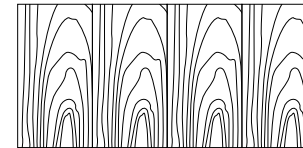
SK5/0, SK5/5 or SK5/10 clips provided by **eomac**, mounted to timber or metal furring. Special turn clips available when installing to T-grid.

## WOOD VENEER

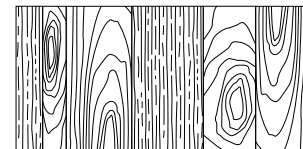
The view-side of panels are finished with a top quality, hand-selected veneer. Over 40 wood species are available in stock. Panels are finished in a premium clear lacquer over a three-stage process, ensuring only the highest standard and durability. Custom staining and PANTONE, RAL or NCS colour matching 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

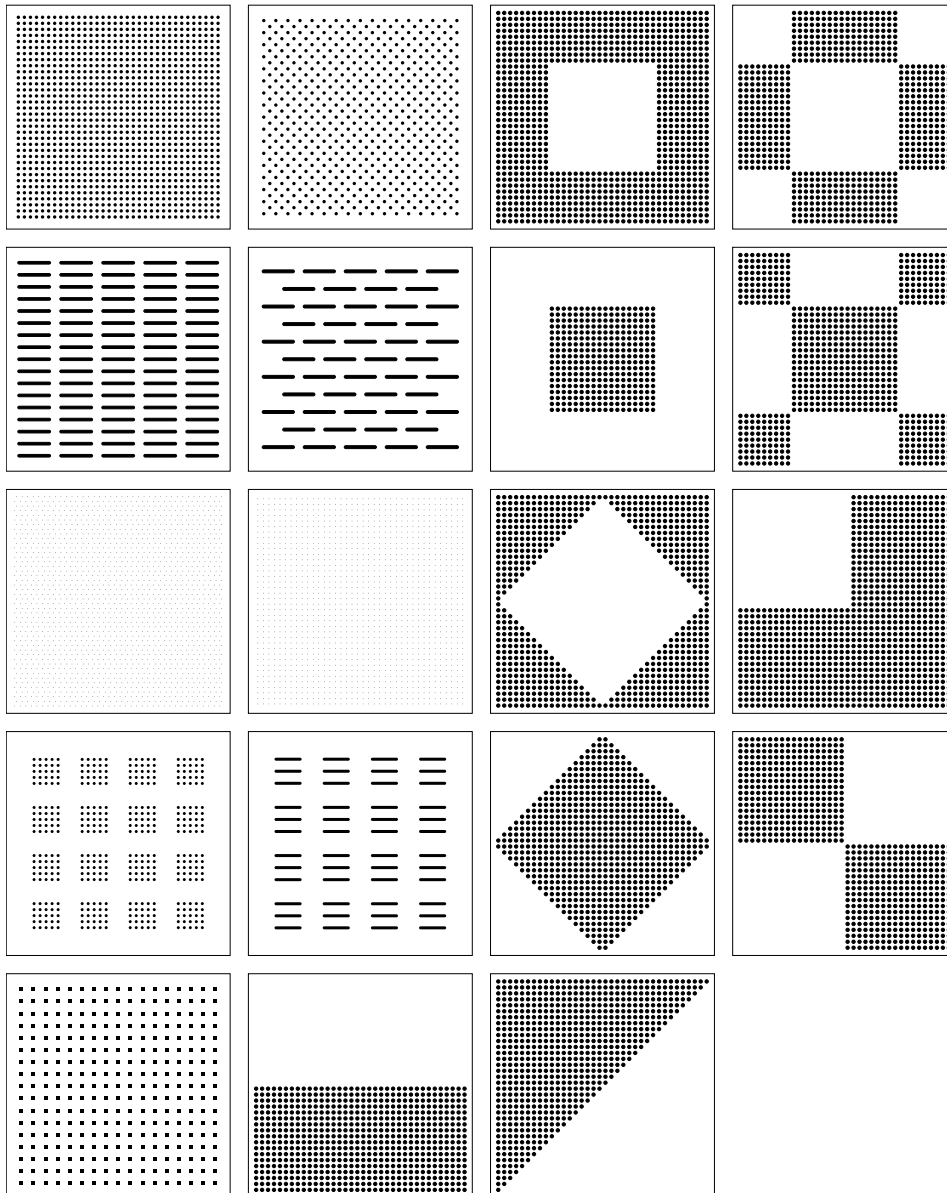
## FLAMMABILITY

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



Various patterns can be combined to form unique designs.

### 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.

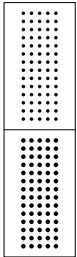
### MICRO PERFORATION AND SQUARE-EDGE PERFORATION

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  $m^2$ : 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

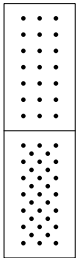
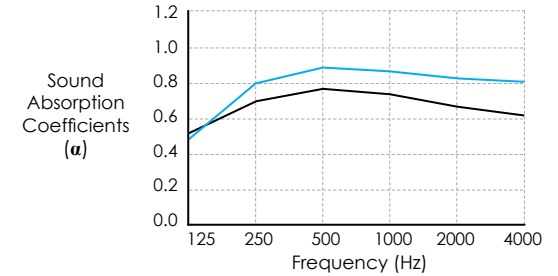
ACOUSTICS THROUGH PERFORATION & MICRO PERFORATION



— 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)						$\alpha_w$	NRC
	125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
Ø7 mm	0.52	0.70	0.77	0.74	0.67	0.62	<b>0.70</b>	<b>0.70</b>
Ø9 mm	0.48	0.80	0.89	0.87	0.83	0.81	<b>0.90</b>	<b>0.85</b>

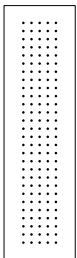
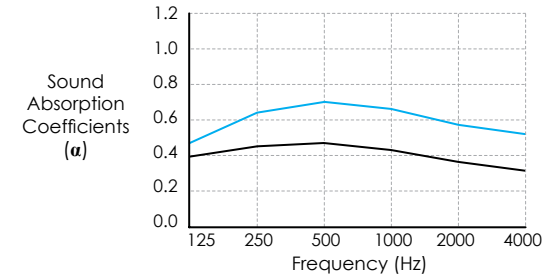
Values 1/1 octave



— 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)						$\alpha_w$	NRC
	125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
Ø9 mm	0.39	0.45	0.47	0.43	0.36	0.31	<b>0.40</b>	<b>0.45</b>
Ø9 mm	0.47	0.64	0.70	0.66	0.57	0.52	<b>0.60</b>	<b>0.65</b>

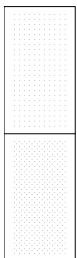
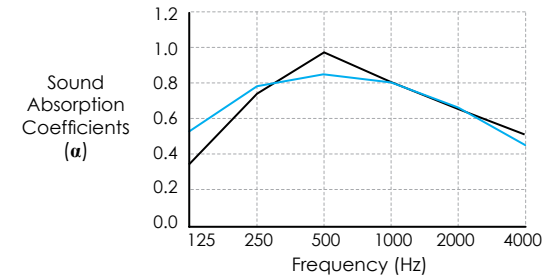
Values 1/1 octave



— 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)						$\alpha_w$	NRC
	125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
67 mm	0.34	0.74	0.97	0.81	0.65	0.51	<b>0.65</b>	<b>0.80</b>
200 mm	0.52	0.78	0.85	0.80	0.66	0.45	<b>0.65</b>	<b>0.80</b>

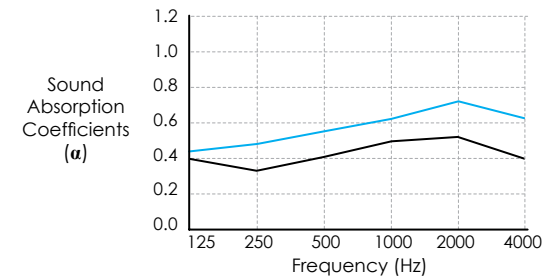
Values 1/1 octave



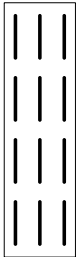
— Regular micro perforation Ø1.5 mm: Centre to centre 8 mm; 7.1% perforation rate  
 — Irregular micro perforation Ø1.5 mm: Centre to centre 8/4.5 mm; 14.1% perforation rate  
 Depth of construction: 67 mm

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

Values 1/1 octave



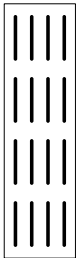
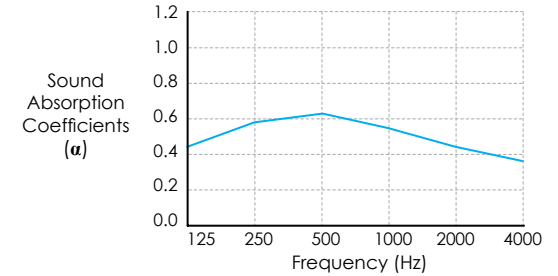
ACOUSTICS THROUGH SLOTS



— 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)						$\alpha_w$	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
0.44	0.58	0.63	0.55	0.44	0.36	<b>0.50</b>	<b>0.55</b>

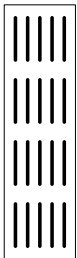
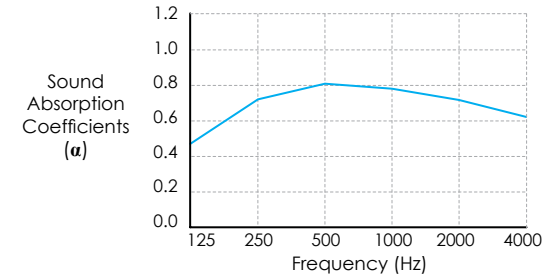
Values 1/1 octave



— 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)						$\alpha_w$	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
0.46	0.67	0.73	0.68	0.60	0.52	<b>0.65</b>	<b>0.65</b>

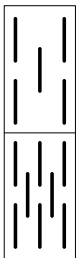
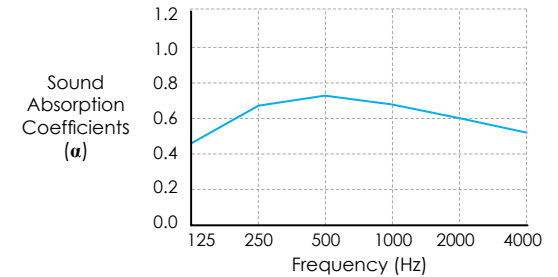
Values 1/1 octave



— 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)						$\alpha_w$	NRC
125	250	500	1000	2000	4000	(ISO 11654)	(ASTM - C423)
0.47	0.72	0.81	0.78	0.72	0.62	<b>0.75</b>	<b>0.75</b>

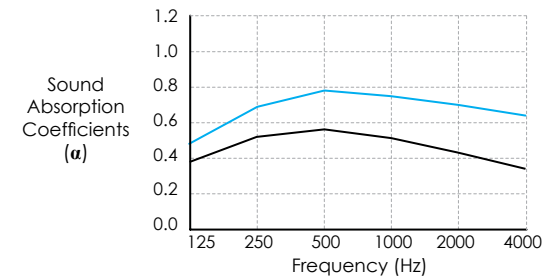
Values 1/1 octave



— 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)						$\alpha_w$	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	<b>0.75</b>	<b>0.75</b>
21.44%	0.38	0.52	0.56	0.51	0.43	0.34	<b>0.50</b>	<b>0.50</b>

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%. Temperature should be between 16 - 22 degrees Celsius.
- 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.**