



Acupanel® | Contemporary | Acoustic Wood Wall Panel Range

Technical Sheet

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General information

Acupanel® handcrafted acoustic panels for walls and ceilings can easily transform any modern space. They are easy to install yourself, instantly enhancing your bedroom, living room, or office into a refined, modern space.

There are three panel options available:



Standard

Designed with consistency in mind. These panels use smooth, consistent grains for a harmonious interior look.



Premium

Crafted with real wood veneers with naturally varying grains, unique to each piece of wood.



Premium Oiled

Crafted with real wood veneers with naturally varying grains; hand oiled for a richer colour.

Acoustic properties	✓ Acoustic properties	✓ Acoustic properties	✓ Acoustic properties
Fire rating	✗ Not fire rated	✓ FR backing available	✓ FR backing available
Moisture resistant	✗ Not moisture resistant	✓ Yes*	✓ Yes*
Finish options	✗ Unoled	✗ Unoled	✓ Pre-oiled finish
Veneer material	▨ Engineered veneer	▨ Natural real wood veneer	▨ Natural real wood veneer
Look & feel	▨ Consistent grain texture	▨ Smooth grain texture	▨ Smooth grain texture
Care & maintenance	▨ Wipe panels with dry cloth	▨ Wipe panels with dry cloth	▨ Wipe panels with dry cloth

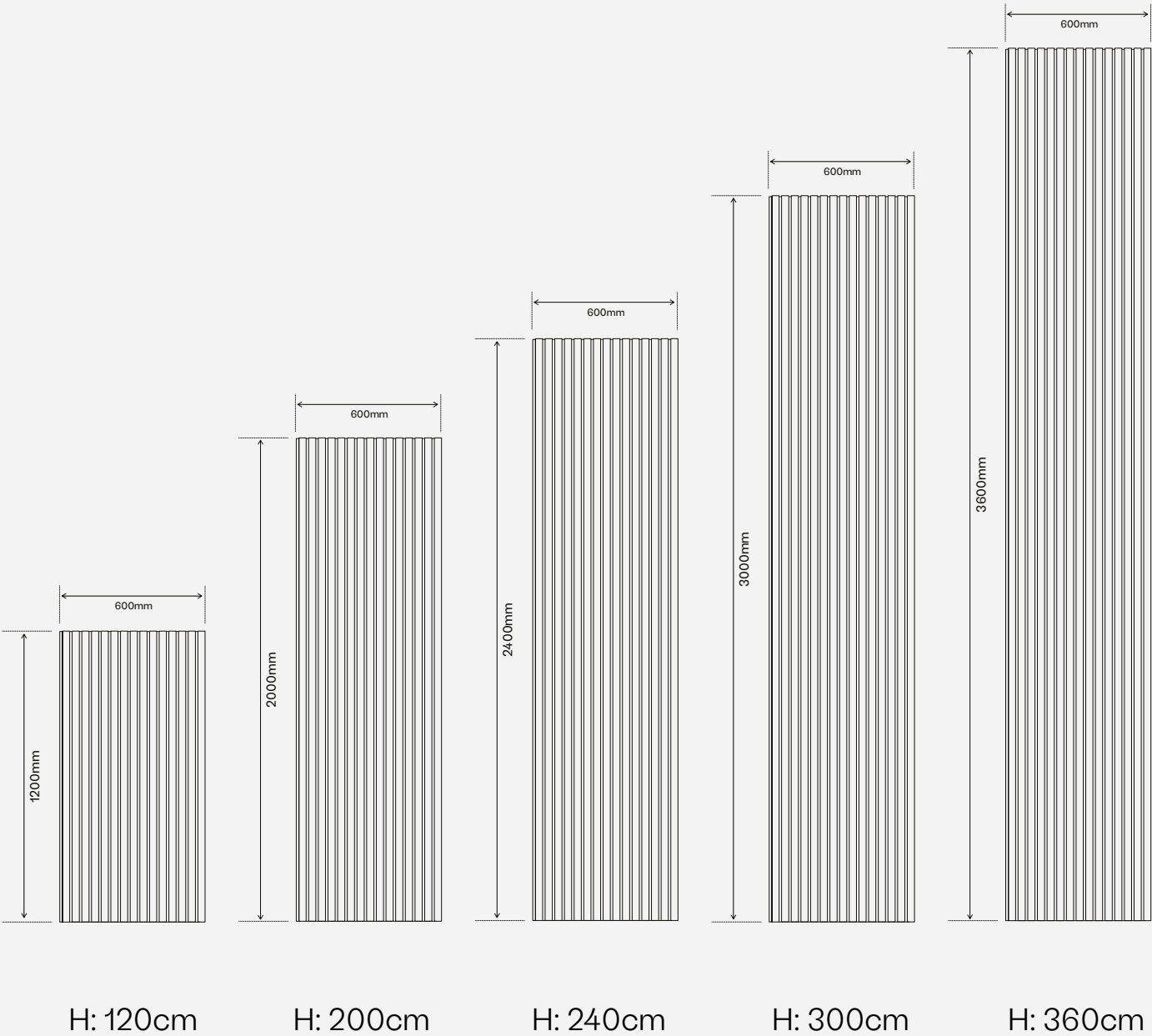
* Additional water-resistant finish required.

Dimensions

Product name	Material	Panel Dimensions (mm)	SQM	Weight (kg)
Standard				
Acupanel® Contemporary Oak Acoustic Wood Wall Panels	Engineered Veneer / MDF / Acoustic Felt Backing	2400(H) x 600(W) x 20(D)	1.44	12
Acupanel® Contemporary Walnut Acoustic Wood Wall Panels	Engineered Veneer / MDF / Acoustic Felt Backing	2400(H) x 600(W) x 20(D)	1.44	12
Premium				
Acupanel® Contemporary Oak Acoustic Wood Wall Panels	Real Wood Veneer / MDF / Acoustic Felt Backing	1200(H) x 600(W) x 20(D)	0.72	6
		2000(H) x 600(W) x 20(D)	1.2	9
		2400(H) x 600(W) x 20(D)	1.44	12
		3000(H) x 600(W) x 20(D)	1.8	16
		3600(H) x 600(W) x 20(D)	2.16	19-20
Acupanel® Contemporary Walnut Acoustic Wood Wall Panels	Real Wood Veneer / MDF / Acoustic Felt Backing	1200(H) x 600(W) x 20(D)	0.72	6
		2000(H) x 600(W) x 20(D)	1.2	9
		2400(H) x 600(W) x 20(D)	1.44	12
		3000(H) x 600(W) x 20(D)	1.8	16
		3600(H) x 600(W) x 20(D)	2.16	19-20
Premium Oiled				
Acupanel® Contemporary Oak Acoustic Wood Wall Panels	Satin Wood Oil / Real Wood Veneer / MDF / Acoustic Felt Backing	1200(H) x 600(W) x 20(D)	0.72	6
		2000(H) x 600(W) x 20(D)	1.2	9
		2400(H) x 600(W) x 20(D)	1.44	12
		3000(H) x 600(W) x 20(D)	1.8	16
		3600(H) x 600(W) x 20(D)	2.16	19-20
Acupanel® Contemporary Walnut Acoustic Wood Wall Panels	Satin Wood Oil / Real Wood Veneer / MDF / Acoustic Felt Backing	1200(H) x 600(W) x 20(D)	0.72	6
		2000(H) x 600(W) x 20(D)	1.2	9
		2400(H) x 600(W) x 20(D)	1.44	12
		3000(H) x 600(W) x 20(D)	1.8	16
		3600(H) x 600(W) x 20(D)	2.16	19-20

Technical Drawings

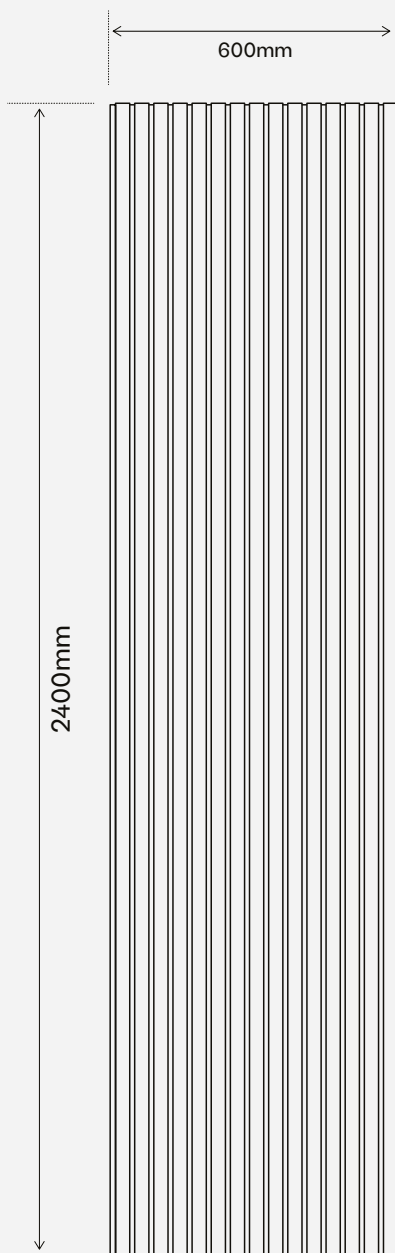
Sizes available for the Acupanel® Contemporary panels.



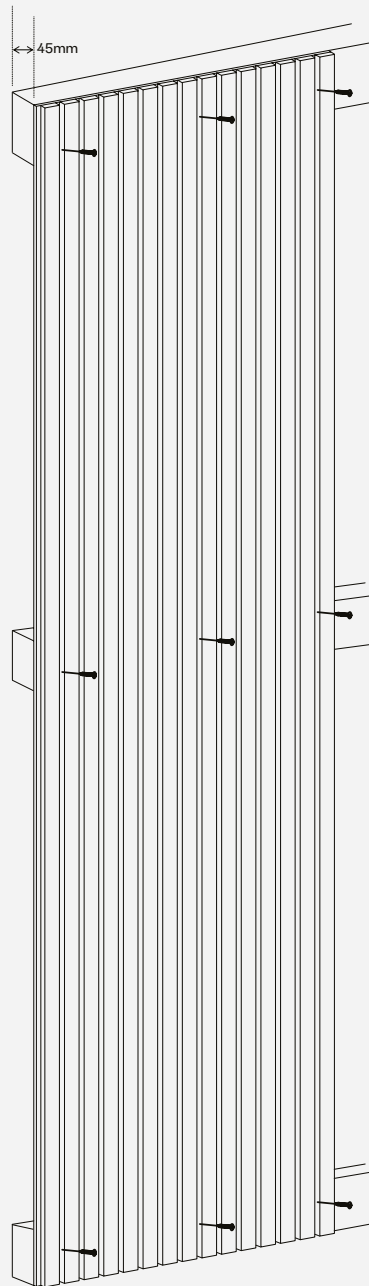
Technical Drawings

These technical drawings are based on the 2400mm(H) x 600mm(W) x 19mm(D) panel size.

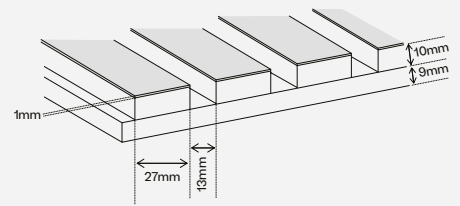
Non-batten mounted



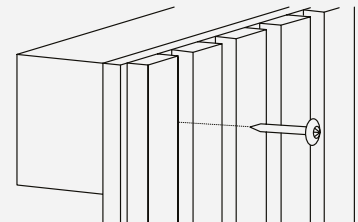
Batten mounted



Slat Dimensions



Screw placement



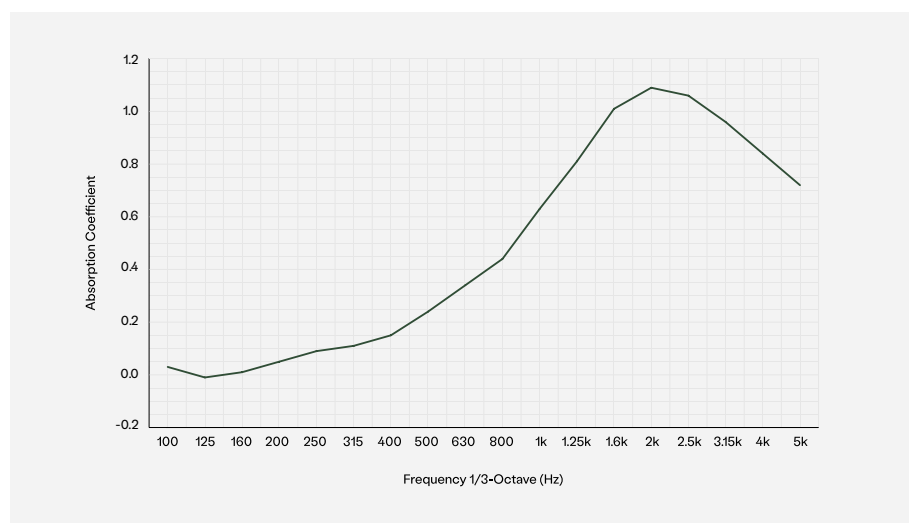
Sound absorption

Figure 1: (Non-Batten Mounted) Sound Absorption:

Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003.

The 11 panels were laid out flat on the concrete floor in the reverberation test room.
Closed frame around edges.

Test Area: 15.84m² Sab - Room volume 215m³ - Room surface area 238m².



Freq. Hz	a ^s
100	0.03
125	-0.01
160	0.01
200	0.05
250	0.09
315	0.11
400	0.15
500	0.24
630	0.34
800	0.44
1k	0.63
1.25k	0.81
1.6k	1.01
2k	1.09
2.5k	1.06
3.15k	0.96
4k	0.84
5k	0.72

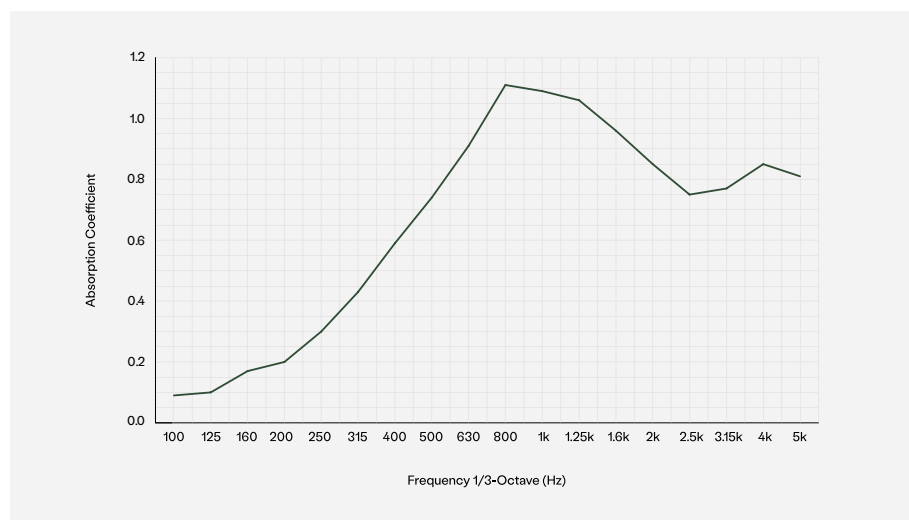
Figure 2: (Batten Mounted) Sound Absorption:

Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003.

Mounting with battens: Spacing 45mm behind panels. Closed frame around edges.

Test Area: 15.84m² Sab - Room volume 215m³ - Room surface area 238m².

If a product like Rockwool sound insulation is installed in-between the batten, behind the panels this will achieve Class A sound absorption.



Freq. Hz	a ^s
100	0.09
125	0.10
160	0.17
200	0.20
250	0.30
315	0.43
400	0.59
500	0.74
630	0.91
800	1.11
1k	1.09
1.25k	1.06
1.6k	0.96
2k	0.85
2.5k	0.75
3.15k	0.77
4k	0.85
5k	0.81

Installation Instructions

How to cut the Acupanel® Contemporary Acoustic Wood Wall Panels

For the Acupanel® Contemporary Acoustic Wood Wall Panel Range, if you are cutting width ways, we recommend a sharp, fine-tooth saw to cut through the slats and felt cleanly. To cut length ways, a Stanley knife can be used to cut through the felt.

Tools needed



Measuring tape



Fine tooth or sharp saw



Masking tape



Sandpaper



Colour screws



Battens (optional)



Level



Hand drill



Finishing oil and roller (optional)

How to install the Acupanel® Contemporary Acoustic Wood Wall Panels

There are three options we recommend for installing the Acupanel® Contemporary Acoustic Wood Wall Panels:

1. Gluing straight onto the wall:

A construction glue or grab adhesive is recommended for this. Simply apply the adhesive to the edges of the panel, and a large wave in the middle. Apply even pressure to the panel to stick this to the wall.

2. Screwing directly into the wall:

By using black screws for the black backing option or silver or grey screws for the grey-backed option, the panels can be screwed directly into the wall through the acoustic felt.

We recommend a minimum of 9 screws per panel to ensure the panel is secured safely to the wall.

If installing into ceilings then make sure they are screwed into ceiling joists.

Please ensure you are using the relevant fixtures and fittings for the surface you are installing onto

3. Screwing the panels into 45mm timber battens:

We recommend screwing 45mm timber battens to the wall and then screwing the panels directly into the battens through the acoustic felt to achieve optimum sound absorption. Combined with Rockwool sound insulation behind the panels in between the battens, this will achieve Class A sound absorption.

This is also a fantastic way to hide wires and work around pipework.

For panel dimensions and technical drawings, please see [pages 4-5](#).



Watch our online installation videos

Acoustic Panels Installation Guide:

https://www.youtube.com/watch?v=7K_DD_7ILsQ

Need help? Contact us:



Call customer service:

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Monday – Friday

9am – 5pm



Email customer service:

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