



Acupanel® | Grainmatch Acoustic Wall Panels

Technical Sheet

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Acupanel® Grainmatch Acoustic Wall Panels

A beautifully designed, strip decorative wall and ceiling panel which boasts high-quality acoustic properties. The panels can be easily applied to walls and ceilings, whether for domestic or commercial use.

The Acupanel® Grainmatch Acoustic Wall Panels are designed with a luxury, wrapped real wood veneer finish on the slats. The acoustic felt backing features a printed wood grain design, to create a solid wood panel effect. Fast and simple installation allows you to quickly transform any space with ease.



Printed Felt Backing

The felt backing has a wood grain effect printed on the surface, so that when the wood slats are attached, it gives the impression of being a solid wood panel. Grainmatch Oak will have an oak wood grain print and colouring, with Grainmatch Walnut features a walnut wood grain print and colouring.



Fire rating

The Grainmatch panels do not have a fire rating. A selection of our panels are available fully fire-rated; please [contact our customer care team](#) for availability.



Care and maintenance

Wipe the panels clean with a dry, microfibre cloth. A light dusting or vacuuming will also prevent any dust build-up.



Superior sound absorption

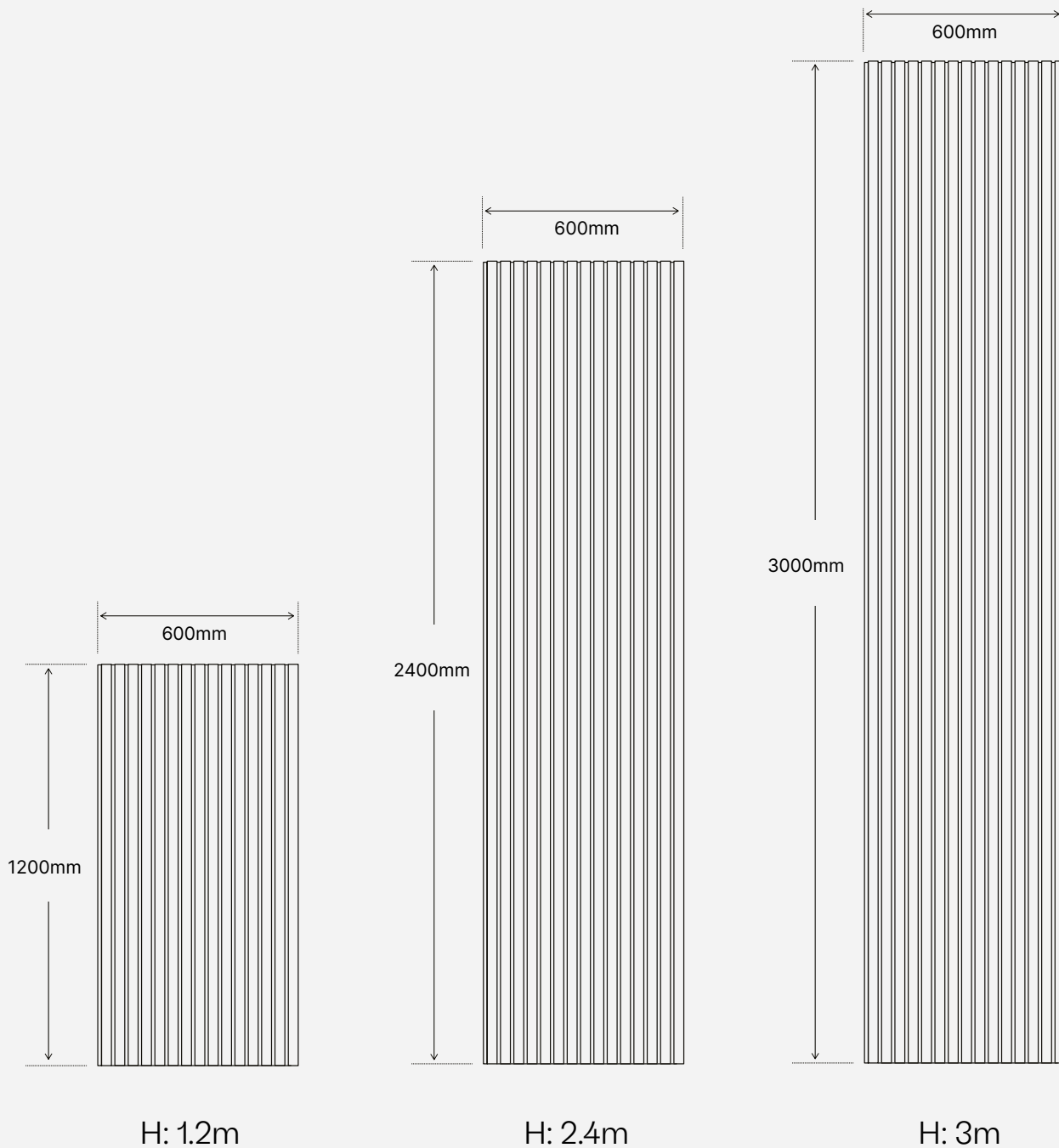
These panels achieve a Noise Reduction Coefficient (NRC) rating of 0.8, and have a great impact on sound absorption. Please see [page 6](#) for more information.

Dimensions

	Product Name	Material	Panel Dimensions (mm)	Sq. M Per Panel (m²)	Weight (kg)
	Acupanel® Grainmatch Oak Acoustic Wall Panels	Wrapped Wood Veneer / MDF / Printed Acoustic Felt Backing	1200(H) x 600(W) x 21(D)	0.76	7
			2400(H) x 600(W) x 21(D)	1.44	12
			3000(H) x 600(W) x 21(D)	1.80	16
	Acupanel® Grainmatch Walnut Acoustic Wall Panels	Wrapped Wood Veneer / MDF / Printed Acoustic Felt Backing	1200(H) x 600(W) x 21(D)	0.76	7
			2400(H) x 600(W) x 21(D)	1.44	12
			3000(H) x 600(W) x 21(D)	1.80	16

Technical Drawings

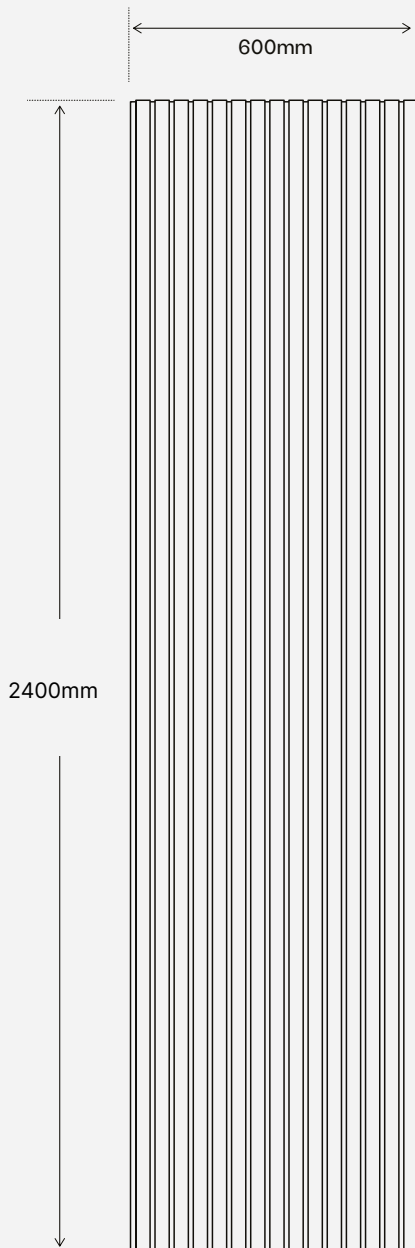
These technical drawings show all the sizes available for the Acupanel® Grainmatch Acoustic Wall Panels.



Technical Drawings

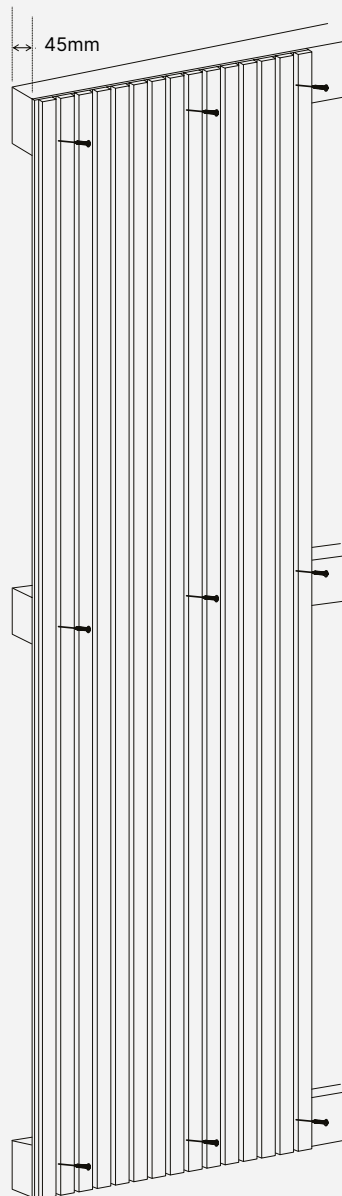
These technical drawings are based on the
2.4m size: 2400mm(H) x 600mm(W) x 21mm(D)

Non-batten mounted

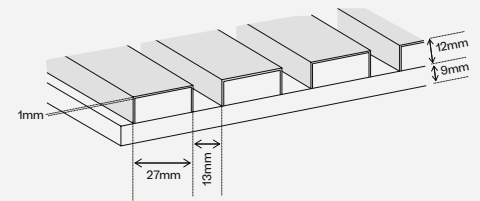


Batten mounted

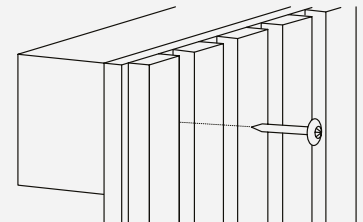
If installing onto 45mm battens, use a minimum of three to ensure stability and prevent panel bowing. For best results, space battens at 30–40cm intervals.



Slat Dimensions



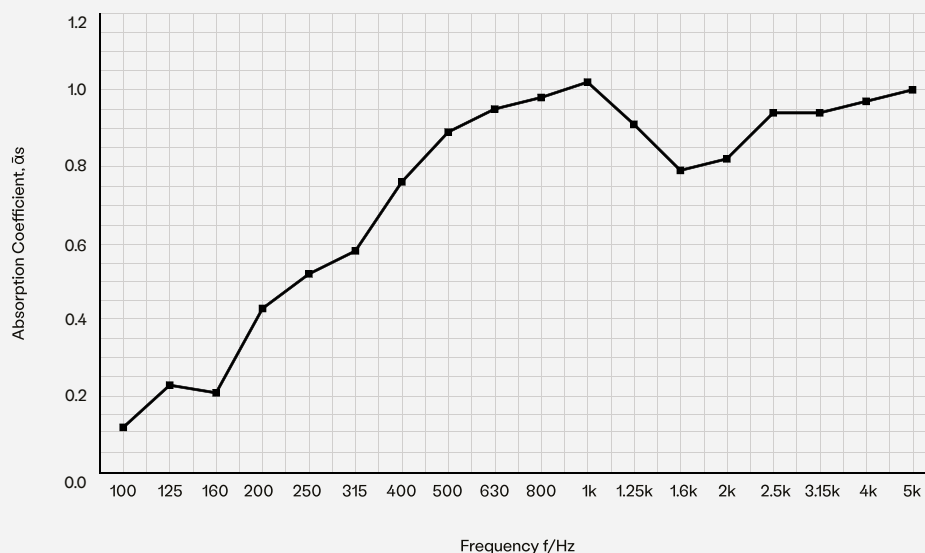
Screw placement



Sound absorption

DS/EN ISO 354:2003 Measure of Sound Absorption Coefficient.
Testing period March 20th 2023 - March 27th 2023

Sample Description:	1200mm x 1200mm x 9mm
Surface Density:	1.90kg/SQM
Test Conditions:	Ambient Temperature 15.0 Degrees Centigrade
Relative Humidity:	86.8%RH
Volume of Reverberation Room:	260m ³
Test Area Dimensions:	0.8SQM (3.6m x 3.0m)
Mounting Type:	E - 100mm back cavity and baffle enclosure



Freq. Hz	a ^s
100	0.12
125	0.23
160	0.21
200	0.43
250	0.52
315	0.58
400	0.76
500	0.89
630	0.95
800	0.98
1k	1.02
1.25k	0.91
1.6k	0.79
2k	0.82
2.5k	0.94
3.15k	0.94
4k	0.97
5k	1.00

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.73
Noise Reduction Coefficient (NRC) is 0.80

The below chart shows the NRC and its effect on sound absorption.
To improve your NRC rating and the impact.

Noise Reduction Coefficient	Effect on Sound Absorption
0.80 and above	Very high
0.50 < 0.80	High
0.20 < 0.50	Considerable
0.10 < 0.20	Significant
Up to 0.10	Low

Installation Instructions

Tools needed

-  Measuring tape
-  Sharp, fine-tooth saw
-  Utility knife
-  Masking tape
-  Sandpaper
-  Screws
-  Screw stickers
(12 stickers provided per panel)
-  Construction glue or grab adhesive
-  Battens (optional)
-  Level
-  Hand drill

How to cut:

We recommend applying masking tape to the area you plan to cut, to reduce the number of wood splinters that can come loose. Mark the cut lines with a pencil on the masking tape.

- For cutting the panel width-ways, we recommend a sharp, fine-tooth saw to cut through the slats and felt cleanly. Sand the cut edges of the panel until smooth.
- To cut the panel length ways, a Stanley knife can be used to cut through the felt. A few passes may be required to cleanly cut through the felt.

Note: When cutting your panels, it's important to check where you are cutting in relation to the backing staples. If you cut the panels close to the staples, you may notice some slats lifting away from the backing where the panel has been cut. This is completely normal and is quickly rectified by adding additional staples through the backing felt or using a grab adhesive on the back of the slats.



Watch our online
installation videos

Click to watch



Installation Instructions

How to install:

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



Option 1: Glueing straight onto the wall

If you choose to install your panels on the wall with glue, we recommend using a construction glue or grab adhesive to ensure your panels stay in place. Simply apply the adhesive on the felt backing, starting around the edges with a large wave in the middle, and place the panel on your wall. Apply even pressure to the panel to stick it to the wall.

Please note that glueing the panels is a permanent installation method, and removing them may damage the wall behind. We do not recommend this method if you are in a rental property.



Option 3: Installing panels onto timber battens (better acoustics)

Attaching the panels to battens not only improves the acoustics, but is a great way to hide wires and work around pipes.

Use a minimum of three battens to ensure stability and to prevent the panel from bowing. For best results, we recommend spacing the battens at 30–40cm intervals. Use a level to ensure battens are straight and evenly spaced. Screw the panels directly into the battens, through the acoustic felt.

If you are looking to improve the acoustic properties of the panels, we recommend the battens to be at least 45mm thick. By installing a product like Rockwool behind the panels and between the battens, and you can achieve an NRC rating of above 0.80, which significantly impacts sound absorption.



Option 2: Screwing directly into the wall

The panels can be screwed directly into the wall through the acoustic felt. Unlike our other panels, you can use any colour screw, as we provide colour and texture-matched stickers with every Grainmatch panel. Simply peel off the paper protecting the adhesive, and stick it to the screw head.

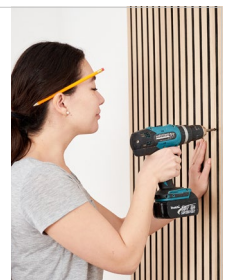
We recommend a minimum of 6 screws per panel to ensure it is secured safely to the wall, and we provide 12 stickers per panel to cover the screws.

We recommend installing the panels into existing joists or wooden studs where possible, but if you are installing directly into the wall, use appropriate wall plugs to ensure the panels are securely fixed in place.

If installing the panels on a ceiling, ensure they are screwed into ceiling joists, or battens are used to provide additional support.

Watch our online installation videos

Click to watch



Need help? Contact us:



Call customer service:

01525 851 166

Monday – Friday

9am – 5pm



Email customer service:

sales@thewoodveneerhub.co.uk



Use live chat:

thewoodveneerhub.co.uk

(Click the pop-up in the bottom right of the screen)

Monday – Friday