

**WVH**<sup>®</sup>

# WVH<sup>®</sup> Essential Acoustic Wood Slat Panels Range

Technical Sheet

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# WVH® Essential Acoustic Wood Slat Panels Range

Embrace affordability and style with the Essential range, a testament to practicality and design ingenuity. Simplify your design aspirations without compromising on quality. Crafted with affordability in mind, our Essential Range offers a budget-friendly solution for enhancing your interior spaces.

Designed for those who seek practicality without sacrificing style, our Essential range features an engineered veneer rather than a natural wood giving a consistent colour and grain pattern throughout the panel. Each panel is thoughtfully crafted to exude a contemporary charm, providing a sleek backdrop for any environment.

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	<b>Fire rating</b>	The WVH® Essential Acoustic Wood Slat Panels are not fire rated.
	<b>Care and maintenance</b>	You can wipe the WVH® Essential Acoustic Wood Slat Panels clean with a dry cloth. You can also vacuum to prevent any dust build-up.
	<b>Finishes</b>	The WVH® Essential Acoustic Wood Slat Panels have no finish.
	<b>Material</b>	The WVH® Essential Acoustic Wood Slat Panels are made from engineered wood. Engineered wood veneer is a man-made veneer, created by layering thin slices of natural wood veneer into a block, and slicing it to create a new grain pattern. It offers a cost-effective, consistent and sustainable finish compared to solid wood veneer.
	<b>Acoustic properties</b>	The WVH® Essential Acoustic Wood Slat Panels have acoustic properties. For more details, please see sound absorption graphs on <a href="#">page 5</a> .
	<b>Not moisture resistant</b>	The WVH® Essential Acoustic Wood Slat Panels are not moisture-resistant.

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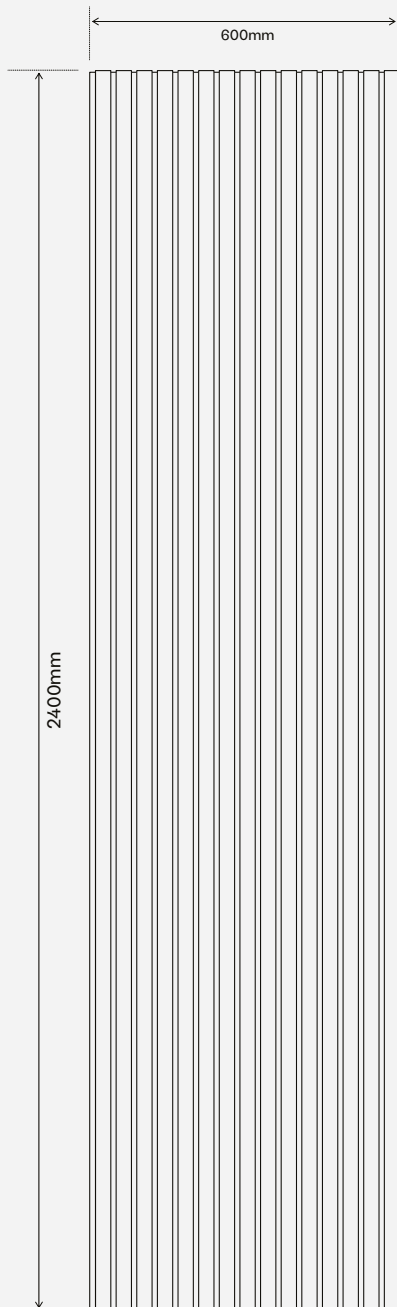
# Dimensions

Product name	Material	Dimensions per panel (mm)	m <sup>2</sup> per panel	Weight per panel (kg)
WVH® Essential Oak Acoustic Wood Slat Panels	Engineered Veneer / MDF / Felt Backing	2400mm (H) x 600mm (W) x 20mm (D)	1.44 m <sup>2</sup>	12kg
WVH® Essential Walnut Acoustic Wood Slat Panels	Engineered Veneer / MDF / Felt Backing	2400mm (H) x 600mm (W) x 20mm (D)	1.44 m <sup>2</sup>	12kg
WVH® Essential Grey Oak Acoustic Wood Slat Panels	Engineered Veneer / MDF / Felt Backing	2400mm (H) x 600mm (W) x 20mm (D)	1.44 m <sup>2</sup>	12kg
WVH® Essential Smoked Oak Acoustic Wood Slat Panels	Engineered Veneer / MDF / Felt Backing	2400mm (H) x 600mm (W) x 20mm (D)	1.44 m <sup>2</sup>	12kg

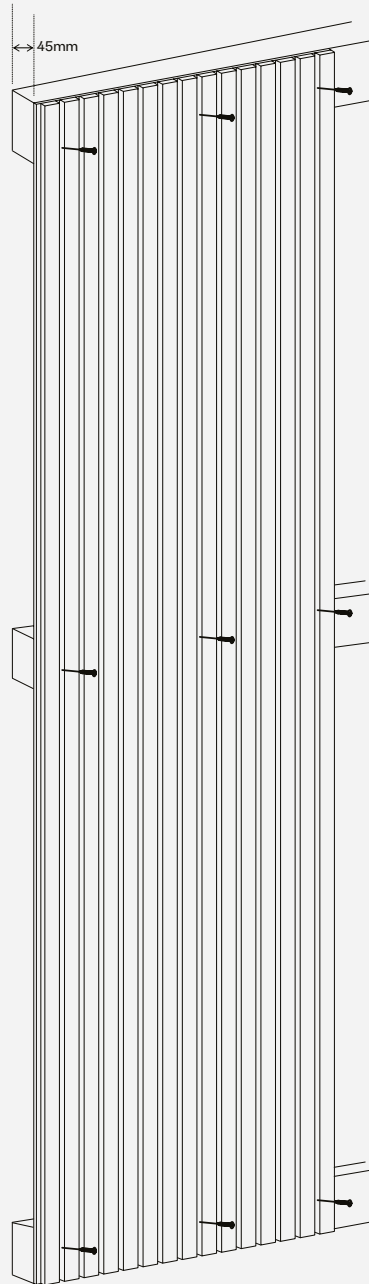
# Technical drawings

These technical drawings are based on the 2400mm (H) x 600mm (W) x 20mm (D) panel size.

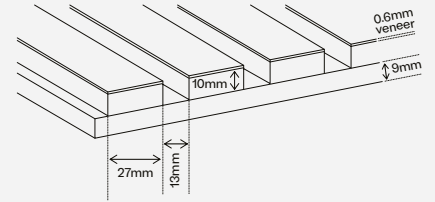
## Non-batten mounted



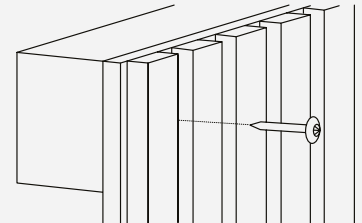
## Batten mounted



## Slat Dimensions



## Colour screw placement



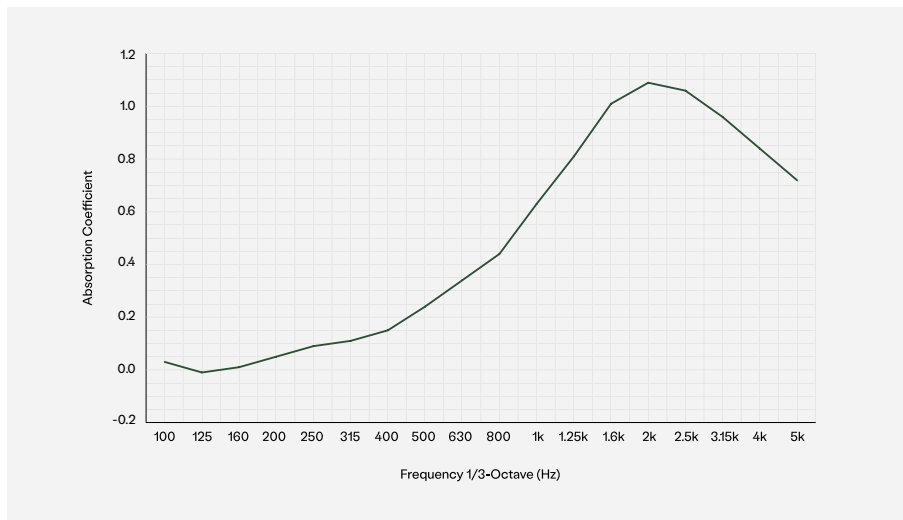
# Sound absorption

## 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: 15.84 m<sup>2</sup> Sab - Room volume 215 m<sup>3</sup> - Room surface area 238 m<sup>2</sup>.



Freq. Hz	a <sup>s</sup>
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

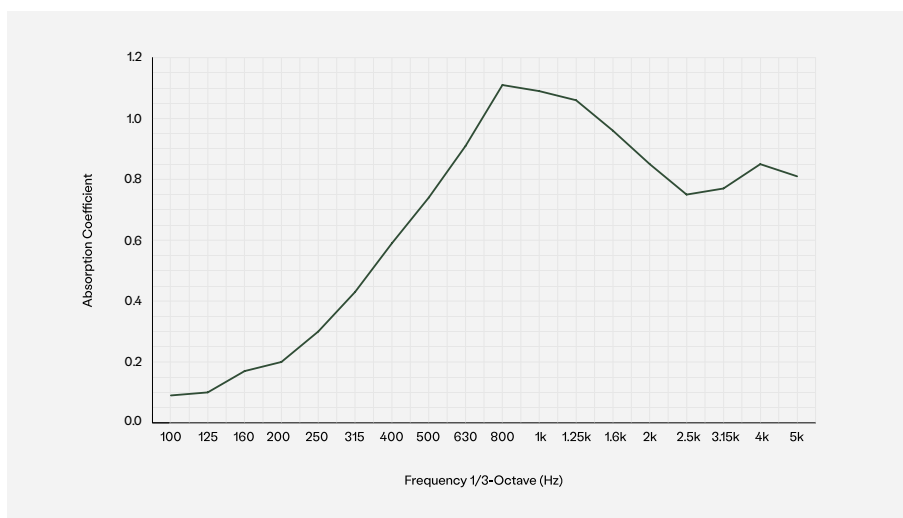
## Figure 2: (Batten Mounted) Sound Absorption:

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

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

Test Area: 15.84 m<sup>2</sup> Sab - Room volume 215 m<sup>3</sup> - Room surface area 238 m<sup>2</sup>

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 <sup>s</sup>
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 WVH® Essential Acoustic Wood Slat Panels

For the WVH® Essential Acoustic Wood Slat Panels 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 WVH® Essential Acoustic Wood Slat Panels

There are three options we recommend for installing the WVH® Essential Acoustic Wood Slat Panels Range:

### 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 3 & 4](#).



## Watch our online installation videos

Acoustic Panels Installation Guide:

[https://www.youtube.com/watch?v=7K\\_DD\\_7LLsQ](https://www.youtube.com/watch?v=7K_DD_7LLsQ)

# Need help? Contact us:



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Monday – Friday