



ACUPANEL[®]

ACUPANEL[®] TECHNICAL SHEET

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Installation Instructions.

Dimensions.

Contemporary

Full panels:

(L) 2400mm x (W) 600mm x (D) 19mm

(L) 3000mm x (W) 600mm x (D) 19mm (Only available in Oak and Walnut)

Slats:

(L) 2400mm x (W) 27mm x (D) 10mm (13mm gap between slats)

Acoustic PET backing:

(L) 2400mm x (W) 600mm x (D) 9mm

Rustic and Colour Range

Full panels:

(L) 2400mm x (W) 600mm x (D) 21mm

Slats:

2400mm x 27mm x 12mm (13mm gap between slats)

Acoustic PET backing:

2400mm x 600mm x 9mm

Care and maintenance.

We recommend adding a protective finish to the panels if possible. Wood oil is perfect as it protects and keeps the natural look and feel of the wood. Once this is applied, light dusting or hovering will prevent any dust build-up. If you choose to keep the panels without a finish, then a dry cloth is needed to wipe the panels down.

Fire rating.

Fire rated felt backing is available upon request.

How to cut Acupanel®

For width ways, we recommend a sharp saw to cut through the slats and felt.

A craft knife can be used to cut through the felt to cut lengthways.

How to install Acupanel®

There are three different options for installing Acupanel®:

1. Gluing straight onto the wall:

A construction glue or grab adhesive is recommended for this.

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 at 200mm intervals across the width and 800mm down the length of the panel.

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

Please make sure the correct fixings are used if going into plasterboard, for example.

3. Screwing the panels into 45mm timber batons:

We recommend screwing 45mm timber batons to the wall and then screwing the panels directly into the batons through the acoustic felt to achieve optimum sound absorption.

Combined with Rockwool sound insulation behind the panels in between the batons, this will achieve Class A sound absorption.

For graphs and technical drawings, please see page 3.

For installation help, please contact:

01525 851166 or
sales@thewoodvenerhub.co.uk



Technical Drawings.

Figure 01:

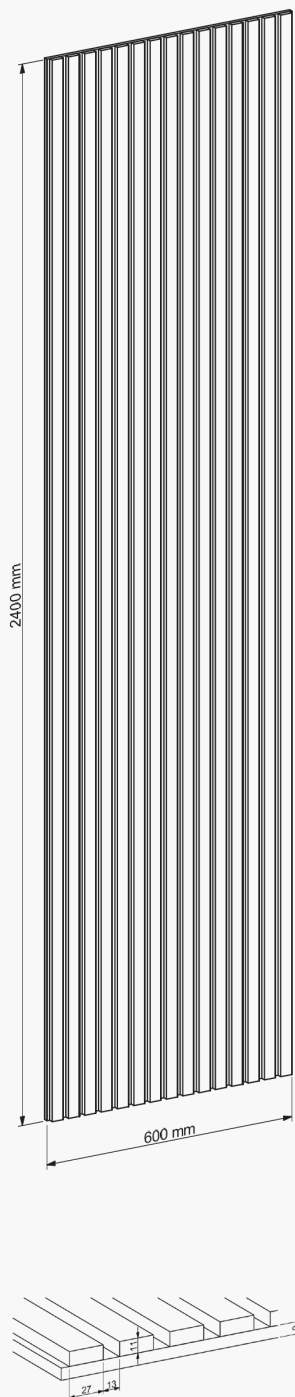


Figure 02:

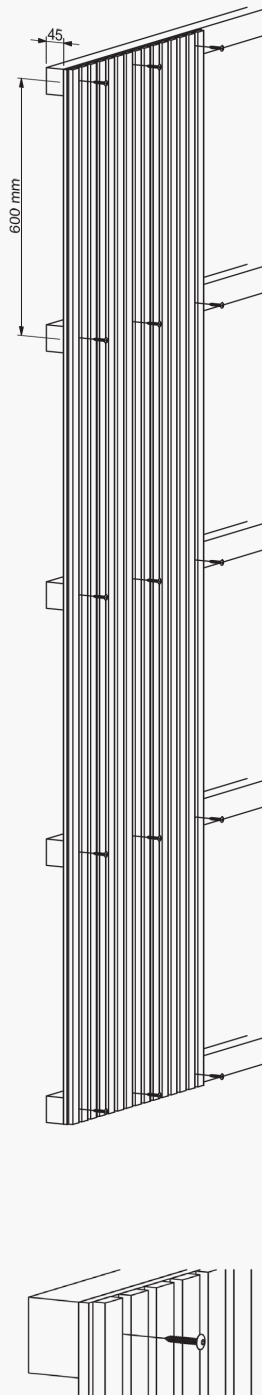


Figure 01 (Non-Batten Mounted) Sound Absorption:

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 m² Sab - Room volume 215 m³ - Room surface area 238 m².

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

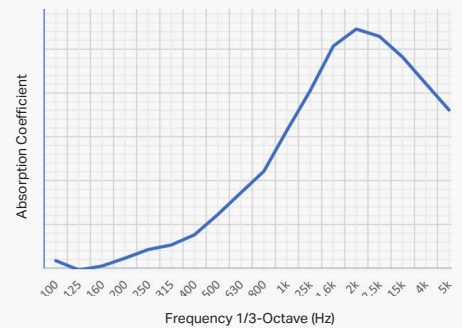


Figure 02 (Batten Mounted) Sound Absorption:

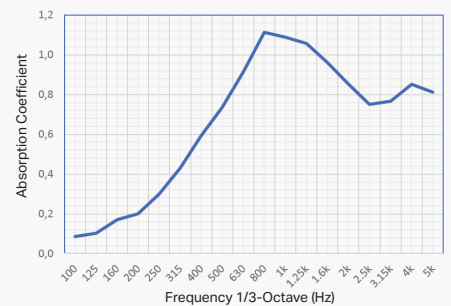
Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003.

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

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

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





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