



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. Something like an oil is perfect as it protects and keeps the natural look and feel of the wood. Once this is applied a 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 all that is needed to wipe the panels down.

Fire Rating.

The acoustic backing used on the panels is certified to "B - s1, d0".

How to cut the Acupanel®.

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

To cut length ways a craft knife can be used to cut through the felt.

How to install Acupanel®.

There are 3 different options for installing Acupanel®:

1. Gluing straight onto the wall:

A construction glue or grab adhesive is recommend 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:

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

When combined with Rockwool 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:

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Technical Drawings.

Figure 01:

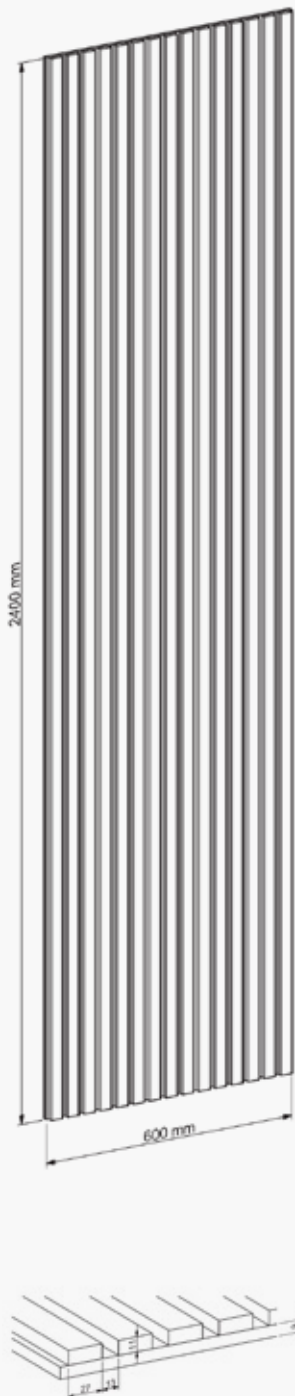


Figure 02:

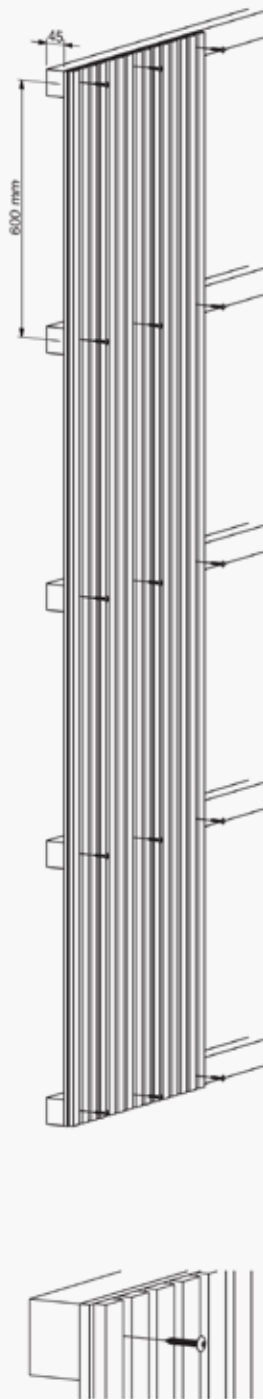


Figure 03:

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

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

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

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

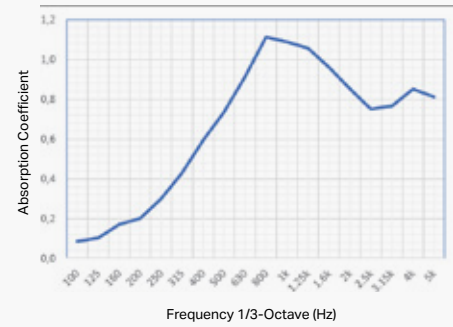


Figure 04:

Mounting: 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 m³

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

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

