



Acupanel® Luxe Plus Fire-Rated Wall Panels

Technical Sheet

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Acupanel® Luxe Plus Fire-Rated Wall Panels

The Acupanel® Luxe Plus Fire-Rated Acoustic Slat Wall Panel is a wide-format, fire-rated slat panel built for commercial interiors. Fire compliance, acoustic performance, and finished presence, in a single specification.

The Luxe Plus Fire-Rated builds on the standard Acupanel® Fire-Rated range, with a wider, fully-wrapped slat format and redesigned spacing. Ten slats across the panel gives the wall a bolder, more architectural read than the standard profile. The adjusted spacing was developed specifically for the Acupanel® Glow LED Lighting range, so the panel works as an integrated lighting system, not just a surface finish.

Each panel achieves a b - s1, d0 fire rating tested against the BS EN 13501-1 Reaction to Fire standard, which is perfect for a range of commercial interior projects. Installed to the full specification, the panels can also achieve a Class A acoustic rating, reducing echo and reverberation across the space. Perfect for any commercial interior fit-out.



Fire rating

These panels achieve a b - s1, d0 fire-rating according to the BS EN 13501-1 testing standard.



Care and maintenance

Wipe the panels clean with a dry cloth. A light dusting or vacuuming is also suitable for cleaning these panels.



Finishes

Utilising fire-retardant (FR) material finishes to achieve compliance with Class A fire performance requirements, which are available in Oak and Walnut wood veneers



Superior sound absorption

These panels have a NRC rating of 0.75, which is a high impact on sound absorption. For more information, please refer to [page 7](#).



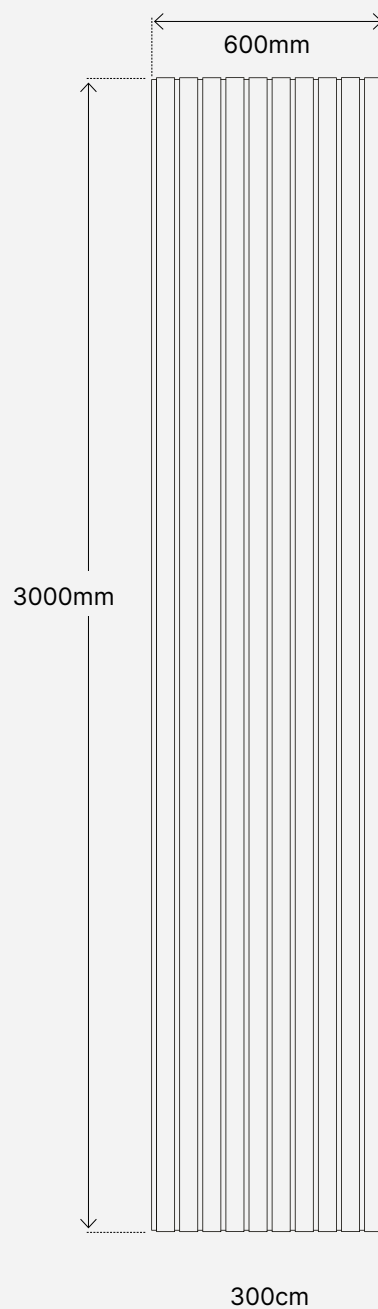
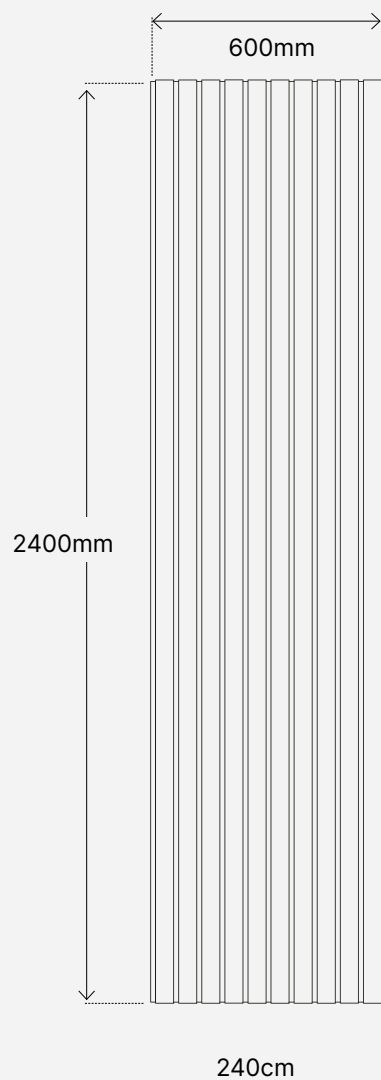
Residential & commercial

The recommended panel for commercial environments for adhering to building codes, and can be used in residential spaces as well.

Dimensions

Image	Product Name	Material/ Finish	Sizes	Dimensions (one single panel)	Coverage	Weight
	Acupanel® Luxe Plus Oak Fire-Rated Panels	• Oil Finish • Real Wood Veneer • Undyed MGO Core • Black Acoustic PET Felt Backing	240cm	2400 (L) x 600 (W) x 21 (D)	1.44 SQM	17.33 kg
			300cm	3000 (L) x 600 (W) x 21 (D)	1.8 SQM	24.48 kg
	Acupanel® Luxe Plus Wanut Fire-Rated Panels	• Oil Finish • Real Wood Veneer • Undyed MGO Core • Black Acoustic PET Felt Backing	240cm	2400 (L) x 600 (W) x 21 (D)	1.44 SQM	17.33 kg
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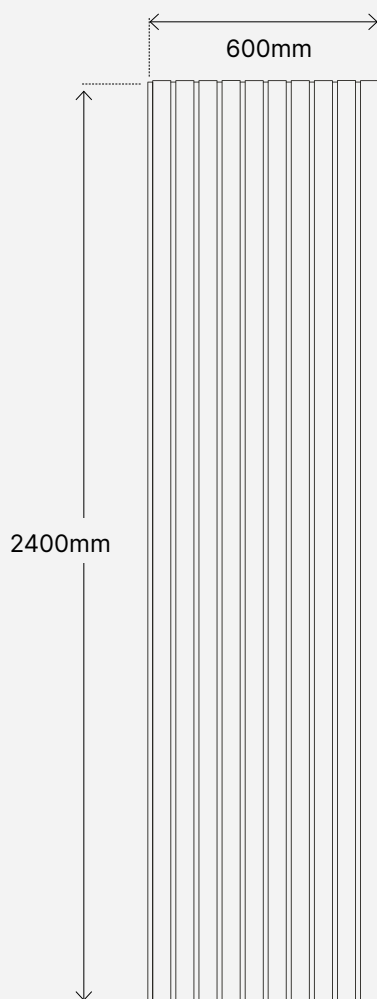
Technical drawings



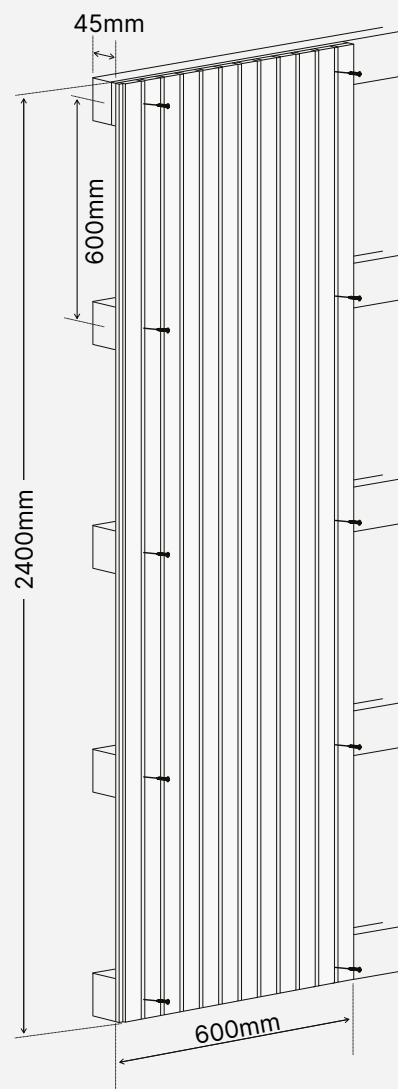
Technical Drawings

These technical drawings are based on the 240cm size.

Flush mounted

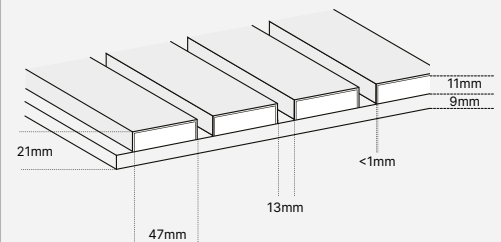


Batten mounted



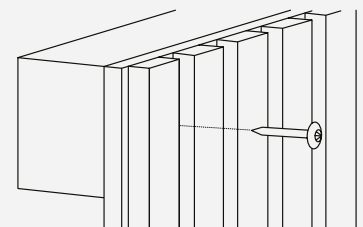
Not to scale

Slat Dimensions



Note: Measurements are approximate, as veneer thickness can range from (0.4–0.6 mm) and felt compression can vary.

Screw placement



Fire rating

A completely fire-rated panel for your projects. The Acupanel® Luxe Plus Fire-Rated panel achieves a b - s1, d0 rating, as tested against the European EN13501 1-1: 2018 standard.

Overview

A2/B	Classification class
s1	Smoke production
d0	Flaming droplets/particles

Test Report

I. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "Panel" is defined as a decorative sheet. Its classification is valid for the following end use application: decorative and sound proof.

b) Description

Description	Panel
Color	Wood Color + Black
Sample size	EN 13823: 1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Thickness	21.0mm (batten: 12.0mm, plate: 9.0mm)
Mass per unit area	12.9 kg/m ²
Tested (Exposed) surface	Batten surface

Mounting and fixing:

Fibre cement board, with its density approximate (1800±200) kg/m³, thickness approximate (8±2) mm, is as the substrate. The test specimens are fixed mechanically to the substrate with screws. With a horizontal joint in the long wing of the specimens, at a height of 600mm from the bottom edge of the specimen.

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)	3	10.8
	FIGRA _{0.4MJ} (W/s)		10.8
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		0.7
	SMOGR _A (m ² /s ²)		0
	TSP _{600s} (m ²)		4.6
	Flaming particles or droplets (Yes/No)		No
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper (Yes/No)		No

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, Panel, in relation to its reaction to fire behaviour is classified:

Fire Behaviour		Smoke production			Flaming droplets	
B	—	s	1	,	d	0

Reaction to fire classification: B-s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.

Sound absorption

Figure 1: (Batten Mounted) Sound Absorption:

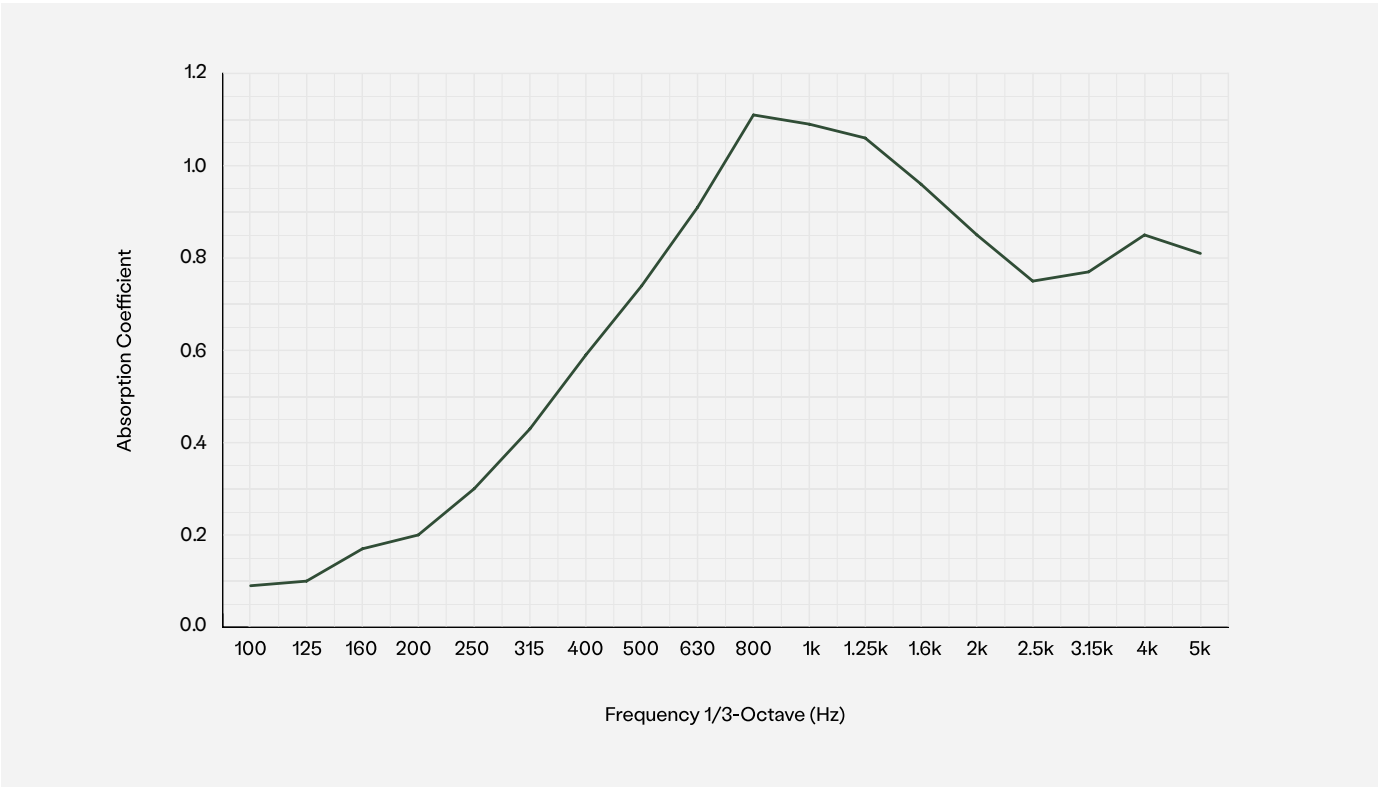
Measurement of sound absorption coefficient acc. DS/EN ISO 354:2003.

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



Installation instructions

How to cut the Acupanel® Luxe Plus Fire-Rated Wall Panels:

For the Acupanel® Luxe Plus Fire-Rated Wall Panels: 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. To reduce the number of splinters, use masking tape in the area you will be cutting, to keep wood splinters in place. If you have any rough edges, use sandpaper to clean them up.

Tools needed



Measuring tape



Sharp, fine-tooth saw blade



Masking tape (optional)



Sandpaper (optional)



Black screws



Battens



Level



Hand drill

How to install the Acupanel® Luxe Plus Fire-Rated Wall Panels:

Disclaimer: The fire rated panels only achieve the full b - s1, d0 fire rating and class A acoustic rating when installed on a gypsum plasterboard substrate rated A2- s1, d0, with 45mm battens and insulation material. There is to be no air gap. You can also mount the panels on substrates reaction to fire class A2 - s1, d0 or A1, where the minimum density of the substrate is 525kg/meters cubed.

If you are only installing the panels for the fire-rating benefits, there is no need for the 45mm battens or acoustic insulation - you can install straight onto your suitable substrate, as outlined above, with no air gap.

Valid for vertical and horizontal slat installations.

Do not apply any additional paints or finishes to the panel, as this will invalidate the fire-rating.

Screwing directly into the wall:

By using black screws to match the black backing, the panels can be screwed directly into the wall through the acoustic felt. We recommend a minimum of 8 screws per 240cm 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, as these panels are heavier than our standard panels.

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](#).

Need help? Contact us:



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9am – 5pm



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Use live chat:

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