

ECHO SLAT ACOUSTIC WOODEN SLAT PANELS

Inspired by wood



WOODEN SLAT ACOUSTIC PANEL DATA SHEET

The wooden slat acoustic panel is an alternative design of the standard grooved acoustic panel, instead of having perforation on the back of the groove we are using recyclable and eco-friendly acoustic felt, creating more comfortable feeling on the design

Wooden slat acoustic panel maximum dimension is 2400x1200mm and is made from wooden batten 12mm deep and 27 mm width, with distance of 13mm in between. The slats are mounted on a base of polyester fiber felt acoustic panel with 9mm. The panel is 21 mm thick in total including the slats and the felt.



Standard Panel Sizes:-

2400×1200	2400×400	1200×400	600 × 600
	2400×600	1200×600	

Standardized sizes are (mm):- 2400x1200, 2400x600, 2400x400, 1200x400, 600x600mm. With a thickness of 21mm or 27mm

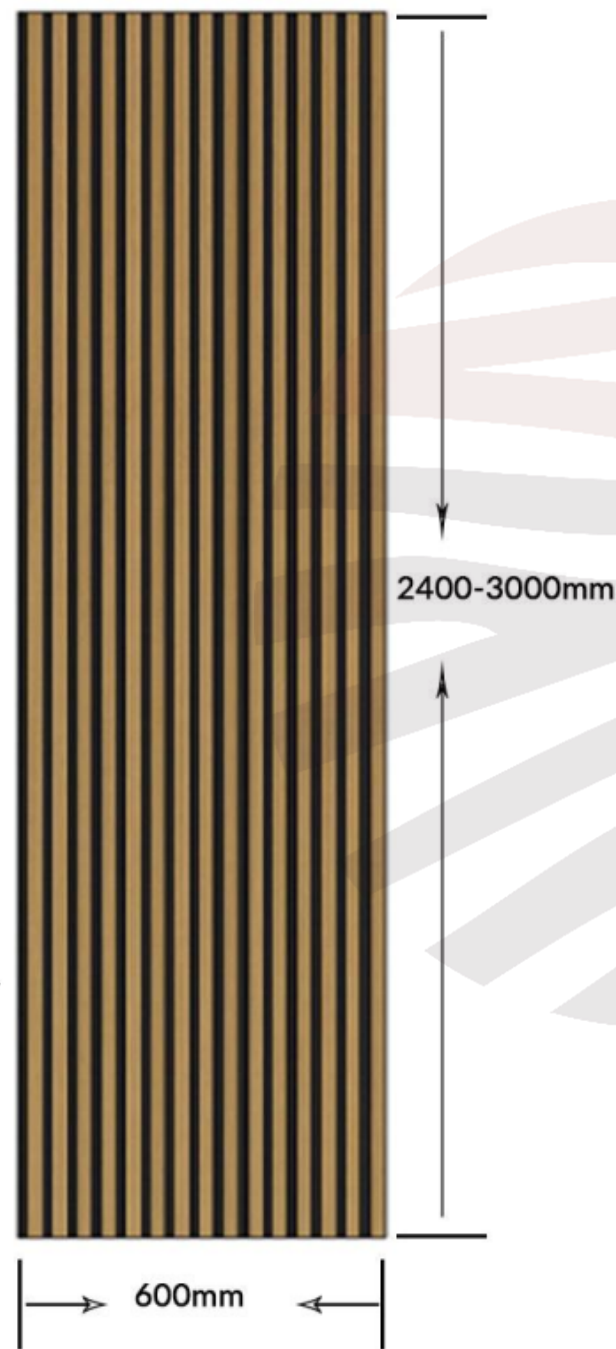
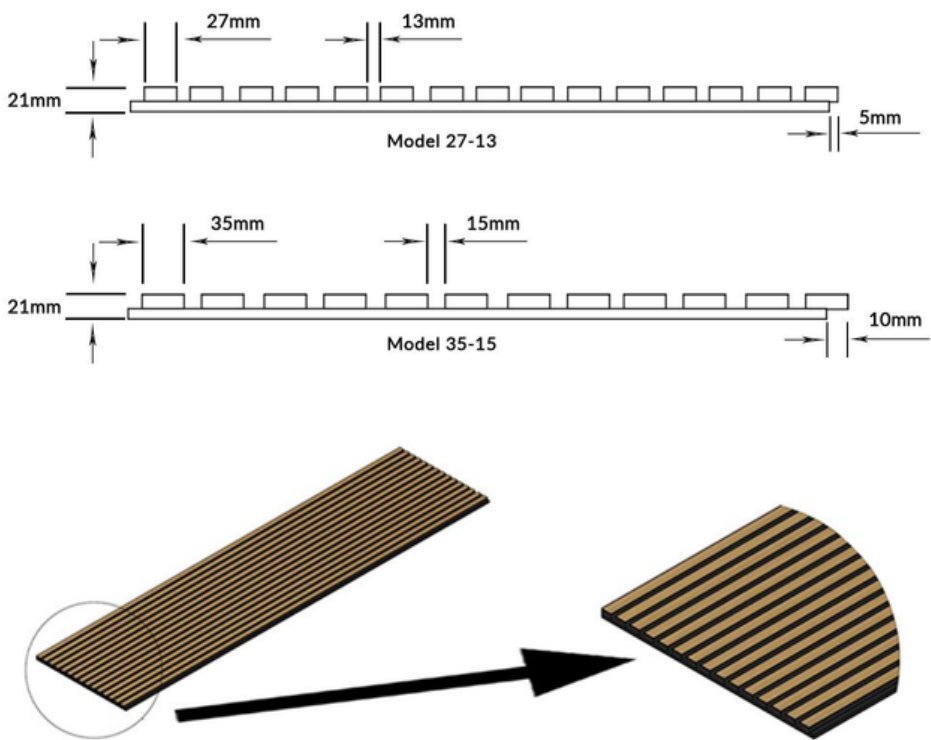
***Special sizes are (mm) : 2750 x 600 & 3000 x 600 (MOQ 100 Sheets)**

Echo Slat (Standard Product Specification)

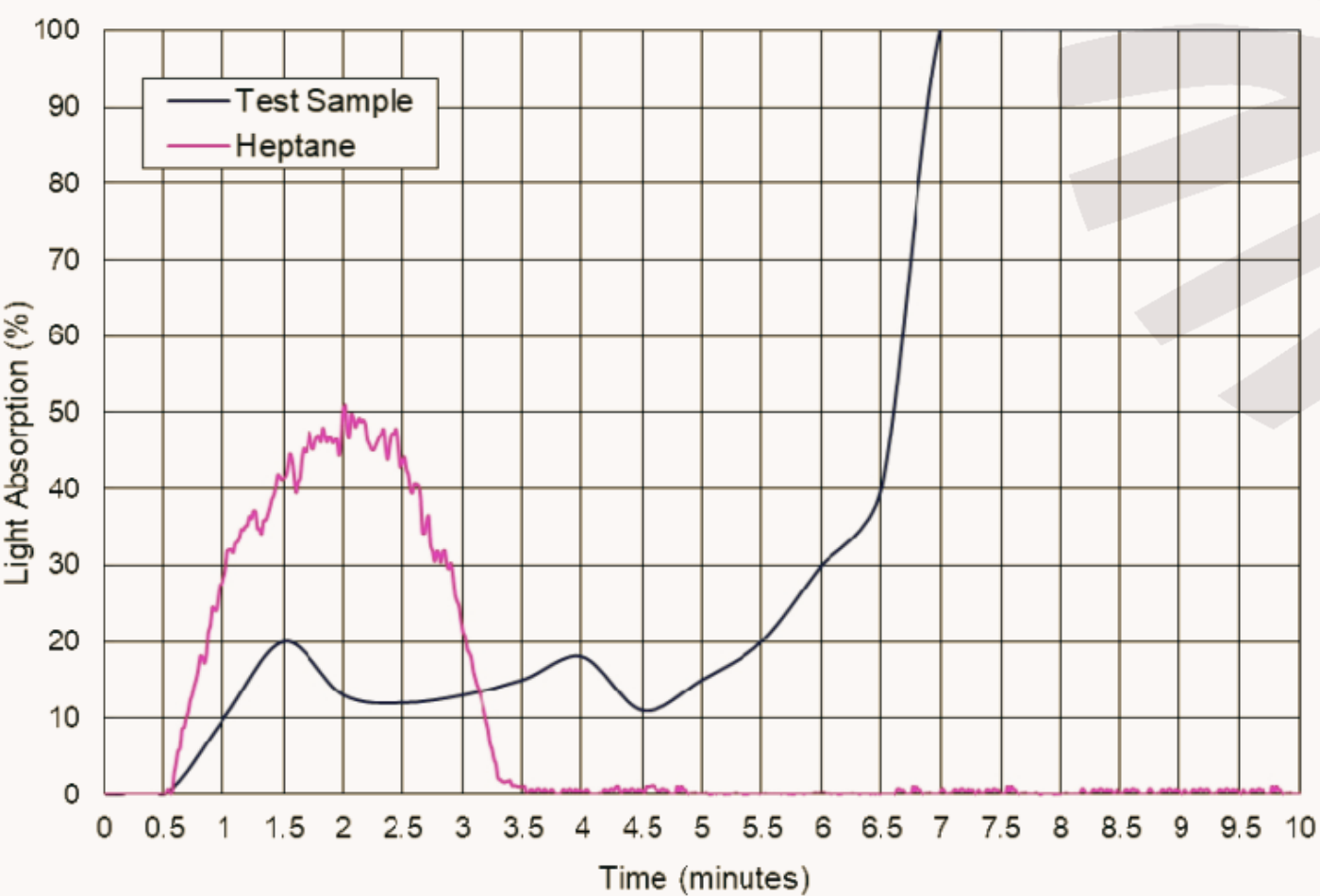
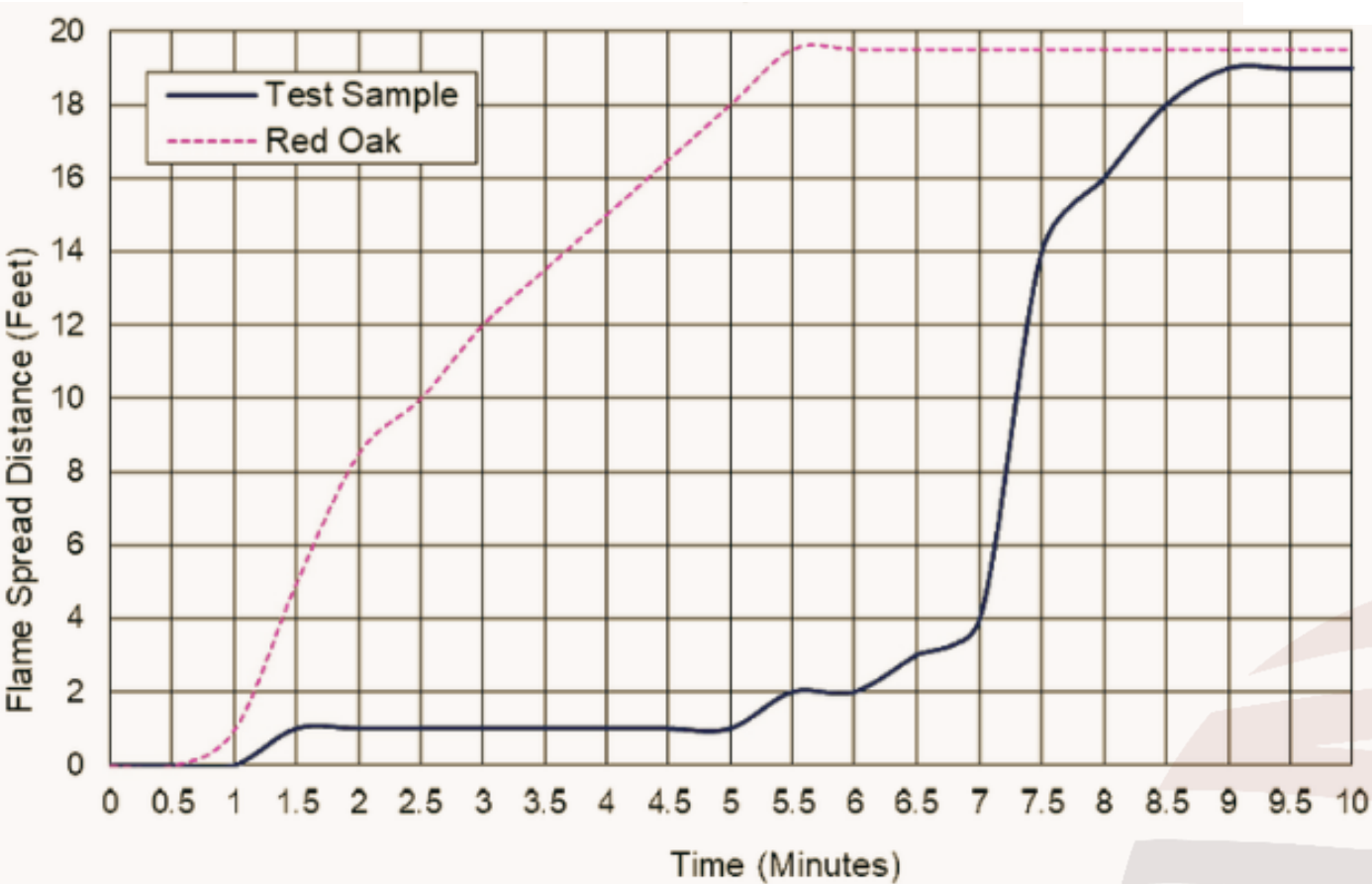
At Echo Slat Panels, we utilize medium-density fiberboard (MDF) as a core material in our acoustic fabric panels due to its exceptional properties. MDF is crafted from recycled wood pieces pressed together with adhesive under high temperature and pressure, resulting in a dense and sturdy board. This material is stronger than particle board, offers a veneer finish that mimics solid wood, and is lightweight compared to hardwood.

General Specifications

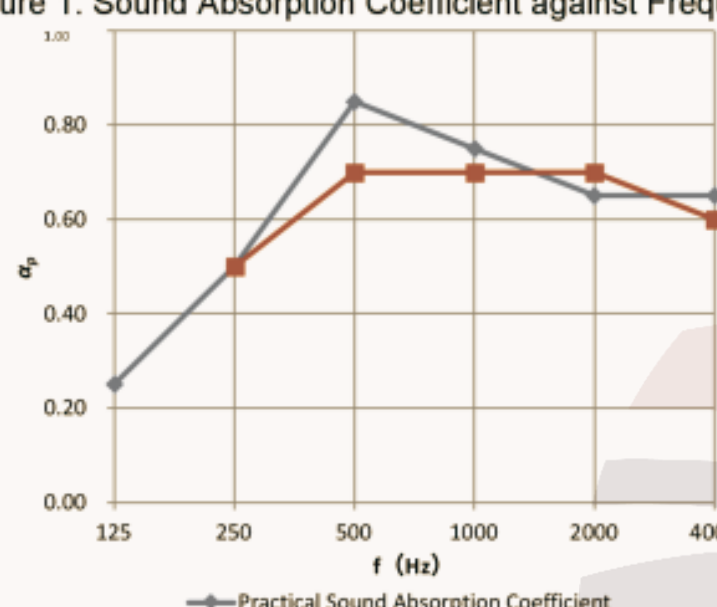
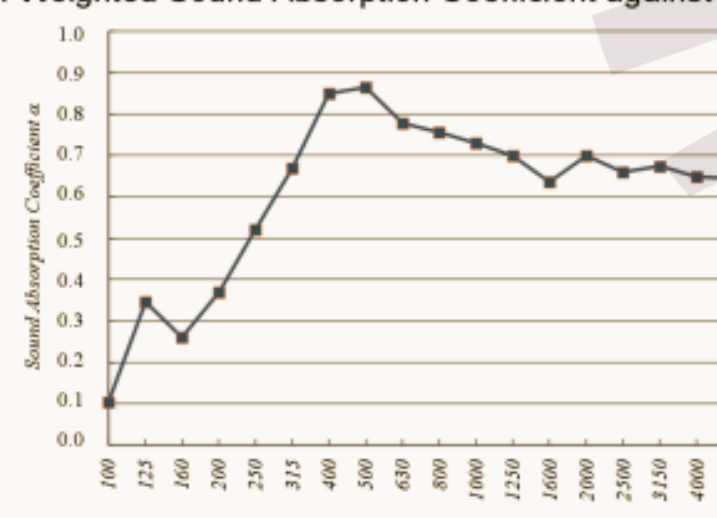
Material	9mm black polyester +E1 MDF with veneer finish
Panel Lengths	94.5"-118.1"(2400-3000mm)
Panel Width	23.6"(600mm)
Panel Thickness	0.83"(21mm)
Fire Rating	Customized
Acoustic Rating	NRC = 0.70



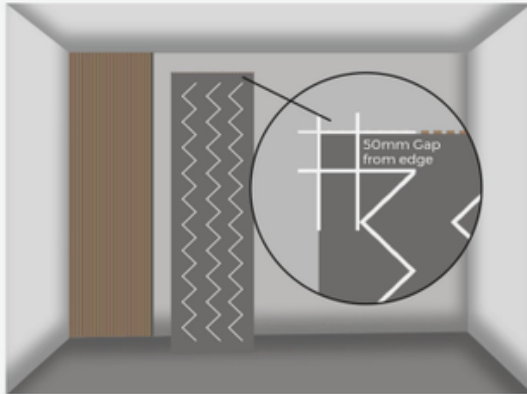
Test Report-Flame spread /smoke



Acoustic Slat Panels Test Report-Sound absorption

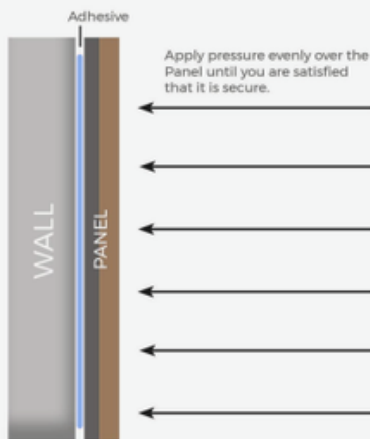
Additional Description		Slat Wood Acoustic Panels (Area:10.8m ²) were laid on a sub-frame with a 200mm airspace, this sound absorption structure was placed in the middle of the floor of the reverberation room and wrapped with 1mm steel panel.	
Test Results			
Frequency (Hz)	α	α_p	
100	0.10	0.25	Figure 1. Sound Absorption Coefficient against Frequency  Figure 2. Weighted Sound Absorption Coefficient against Frequency  Sound absorption class=C
125	0.35		
160	0.26		
200	0.37	0.50	
250	0.52		
315	0.67		
400	0.85		
500	0.87	0.85	
630	0.78		
800	0.76		
1000	0.73	0.75	
1250	0.70		
1600	0.64		
2000	0.70	0.65	
2500	0.66		
3150	0.67		
4000	0.65	0.65	
5000	0.65		
NRC	0.70		
aw	0.70		

INSTALLATION WITH ADHESIVE



STEP 1: APPLY ADHESIVE

As before, measure and cut your Slatted Panels to fit the wall (see step one from 'installation with screws'). Internal Slatted Panels can also be fitted directly onto walls using a fast acting wall grab adhesive. Using a caulking gun and a high quality product such as CTI Adhesive or another suitable wall grab adhesive, apply in a zigzag pattern down the length of the back of the Panel. We recommend at least three lines of adhesive per Panel. On average, one tube of adhesive will cover one to three Panels. Ensure there is at least a 50mm gap between the adhesive and the edge of the Panel to prevent adhesive from exuding.



STEP 2: ADHERE TO WALL

Position the Panel immediately in place against your wall, ensuring it is even with a spirit level, and secure firmly with pressure. Do not disturb the Panels until a sufficient amount of drying time has passed. Refer to the adhesive manufacturer's guidelines for this.



Please note that if Panels have been fitted with wall grab adhesive and ever need to be removed, this may damage the surface of the wall behind due to the grab-and-stick nature of the adhesive.

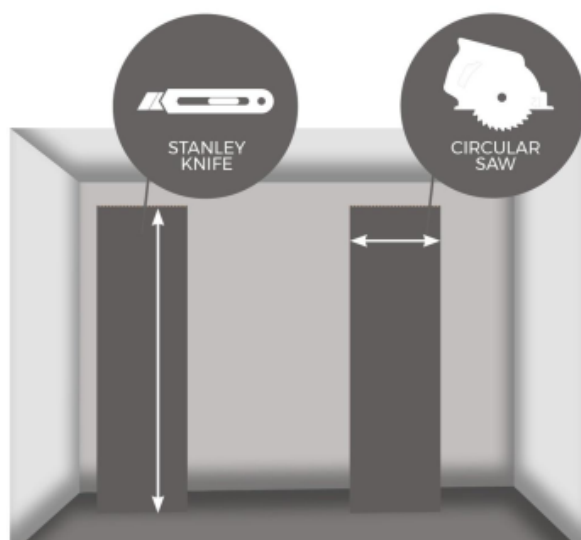


SOUNDPROOFING YOUR WALLS

Whilst the felt backing of the Panels will enhance the soundproofing of your walls when applied directly on to them, for additional sound-proof properties, you can install a 45mm timber batten subframe to your wall before fixing Internal Slatted Panels onto the battens through the felt backing. This, when combined with sound-absorbing mineral wool in between the timber battens and behind the Panels, will allow for maximum acoustic performance. Always check the structural integrity of your wall before installing a subframe for the Panels to be fitted upon.

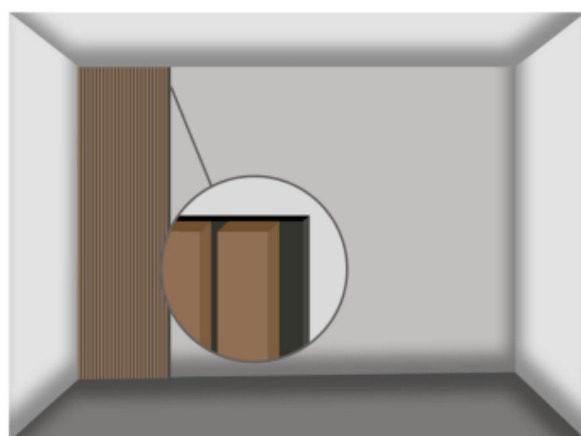


INSTALLATION WITH SCREWS



STEP 1: MEASURE AND CUT PANELS

Measure the height of the wall you are covering and mark your cut line using a pencil and square edge. Cut to size using a fine-tooth hand or circular saw to get a clean edge. If you are cutting length-ways down the Panel, the felt backing can be cut using a sharp Stanley knife. Panels can be fitted around any existing wall obstacles and features such as electrical sockets, so be sure to measure and cut the correct size for Panels that will be installed around these. Repeat this process for the number of Panels required for the entire wall. If the wall you are applying the Panels to is of varying heights or is not level (for example, old cottage walls), it is recommended that Panels are measured and cut individually to suit.

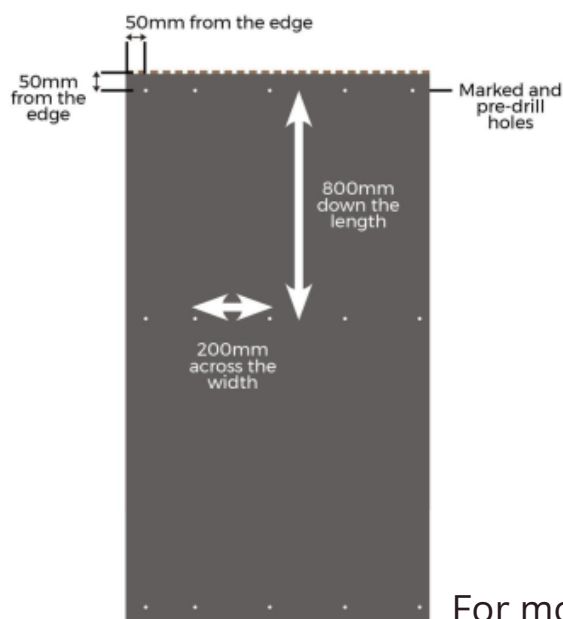


STEP 2: ALIGN YOUR PANELS

Begin installing onto your wall from left to right. Place your first Slatted Panel up to the wall, ensuring the felt lip is on the right and the wood-veneered slat is flush to the edge of the wall.

STEP 3: MARK OUT SCREW HOLES

Mark out on the felt backing where you are going to fix your screws – we recommend fixing at 200mm intervals across the width and 800mm intervals down the length of the panel. Always ensure your outer screws are spaced at least 50mm away from the edge of the Panel. Please note that we do not recommend Panels are screwed through the wood-veneered slats and only through the felt backing.



STEP 4: PRE-DRILL HOLES AND FIT TO WALL

Using appropriate screws (we recommend 35mm x 3.5mm screws in black to match the felt backing of the Panel), pre-drill your marked holes and then screw through to the wall, using a spirit level along the way to ensure a straight, professional finish. Continue this from left to right until all Panels have been fitted securely.

For more please contact below..

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