

AKUSLAT ACOUSTIC FLUTED PANELS

ACOUSTIC WOOD SLAT PANELS

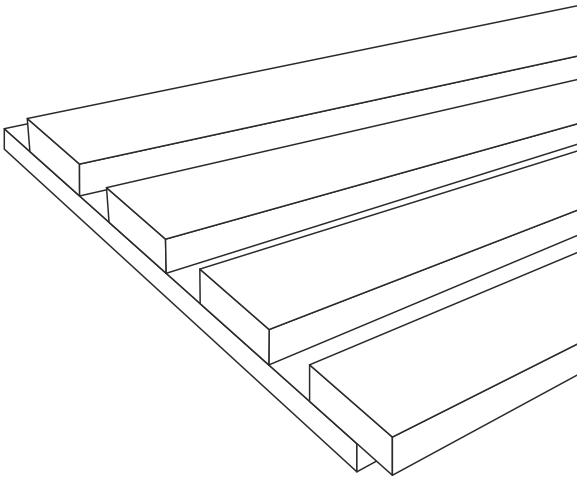
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AKUSLAT ACOUSTIC FLUTED PANELS



Akuslat Acoustic Fluted Panel is manufactured through a process which is free from chemicals, binders and adhesives. Each panel is created from responsibly sourced and environmentally friendly materials.

Suitable for both walls and ceilings, they can be installed in offices, shops, restaurants and home. Akuslat Acoustic Fluted Panels can complement any design theme from natural and earthy to sleek and contemporary. The panels offer excellent sound dampening function and aesthetic beauty, transforming your interior both visually and acoustically.

Key Features

Recyled Material
Raw materials consist of recycled post-consumer products e.g. plastic bottles.

Green Material
Sustainable manufacturing process free from chemicals, binders & adhesives.

High Sound Absorption
Helps to dampen noise & promote excellent acoustic performance in comfort.

Anti-rot & Anti-fungi
Able to withstand harsh environment & external weather without rotting.

Low Moisture Absorption
Retains moisture in ambient air & controls humidity by absorbing & emitting less.

Non-flammable
Product will melt & self-extinguish in case of contact with fire.

Fire Regulations
Complies with BS 476 Part 6 & 7 fire requirements under Singapore FSB regulations.

Product Specifications

Composition	60% polyester fibre (PET) + 30% MDF + 10% Veneer
Thickness	9mm PET + 12mm Wood Slat
Weight	2,000gm/m^2
Panel size	1,200mm x 2,400mm
Sound Absorption (ASTM C423-17)	NRC 0.30 (no air gap)
Thermal Conductivity (ASTM C518)	0.0361 W/m.K
Fire Test (EN 13501-1)	B-s1, d0
TVOC Emission Rate (ASTM D5116)	Non-detected
Formaldehyde Emission Rate (ASTM D5116)	Non-detected
Toxicity Test (BS EN 45545-2)	CIT < 0.75



FREQUENCY/HZ	125	250	500	1000	2000	4000	NRC
9 mm Panel (no air gap)	0.1	0.04	0.15	0.41	0.68	0.9	0.3

Panel Analysis



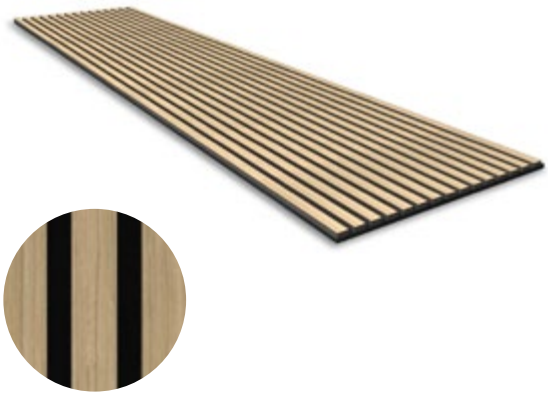


Wood Surface
Engineered veneer

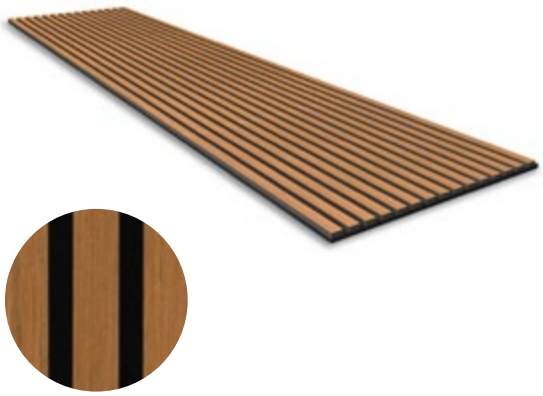
Wood Slat
MDF board

Polyester (PET) Fibre Panel
Made of recycled plastic bottles

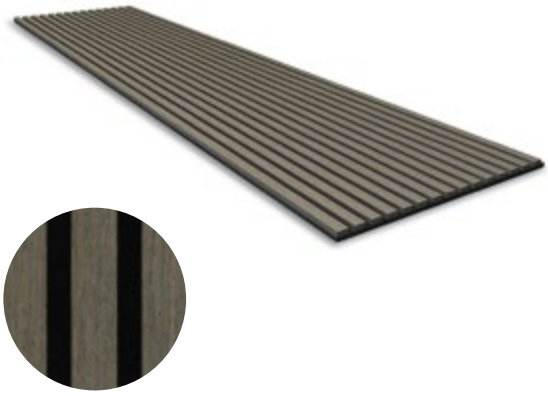
VENEER CHART



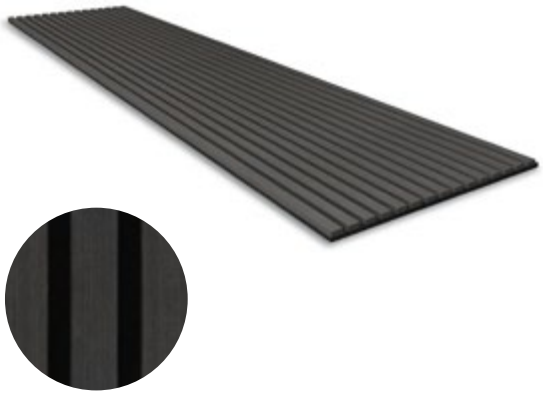
01 Washed Oak



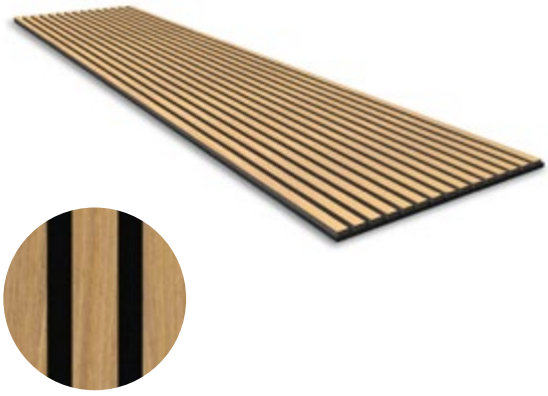
02 Teak



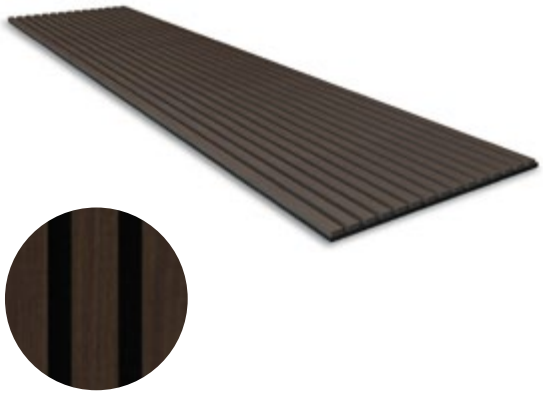
03 Slner Oak



04 Black Oak



05 Oak



06 Black Walnut

**Properties of real wood veneer:*

Real wood veneer can vary in color, grain structure and appearance from strip to strip and panel to panel.

PET BASE COLOUR CHART



Product may vary in colour due to fibre mix, which is an inherent feature of this product.

PET BASE COLOUR CHART


Salted Egg


Popcorn


Spring Green


Moss Green


Sage Green


Sage Grey


Rustic Olive


Limestone


Green Apple


Jade


Fern Green


Sun-dried Moss


Olive Green


Army Green


Green Bumblebee

Mint


Forest Green


Artic


Lake Green


Deep Green


Sapphire


Green Lagoon


Sea Blue


Marine Teal


Cloud Blue


Teal


Coral Blue


Steel Blue


Azure


Porcelain Blue


Royal Blue


Ocean Blue


Cobalt Blue


Turf Blue


Egyptian Blue


Denim


Navy Blue


Midnight Blue

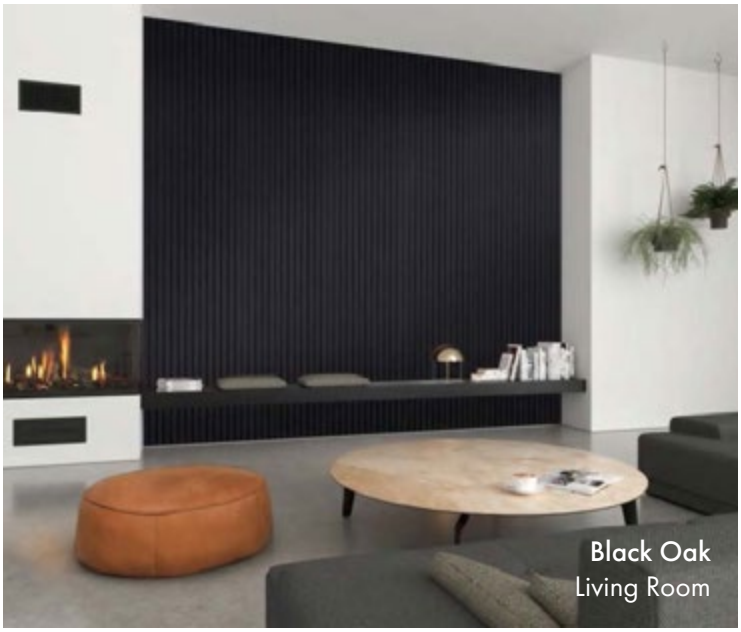
Product may vary in colour due to fibre mix, which is an inherent feature of this product.


Slner Oak
Living Room


TEAK
Living Room


Oak
Office


Washed Oak
Bedroom


Black Oak
Living Room

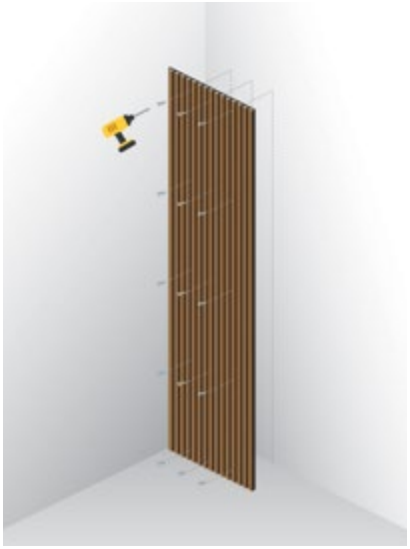
INSTALLATION METHOD



Method 1

Gluing directly onto the wall

A construction glue or grab adhesive is recommended for this.



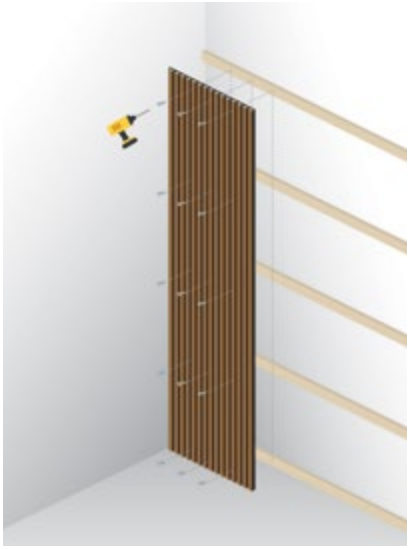
Method 2

Screwing directly into the wall

Using black screws for the black backing option or silver or grey screws for the grey backing, the panels can be screwed directly into the wall through the acoustic felt.

We recommend a minimum of 9 screws per panel at 3.15" intervals across the width and 24" intervals down the length of the panel.

If installing into ceilings, make sure they are screwed into ceiling joists. Please make sure the correct fixings are used if going into plasterboard, for example.

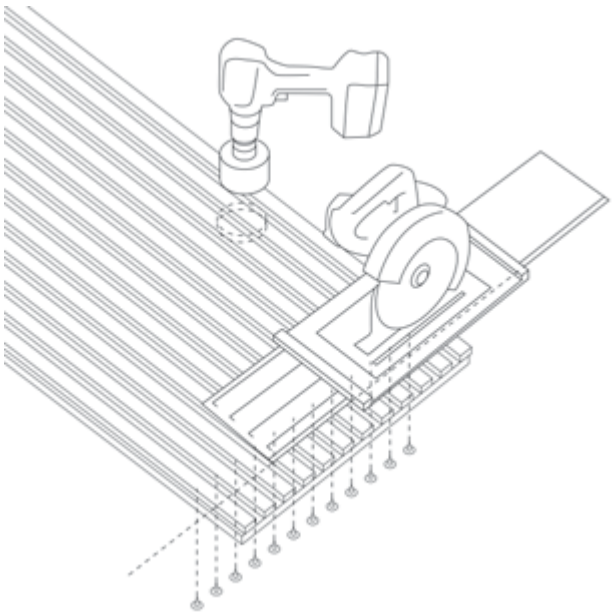


Method 3

Screwing the panels into 1.8" timber battens:

We recommend screwing 1.8" 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 behind the panels between the batons, this will achieve Class A sound absorption.



How to cut and drill

When sawing or drilling the acoustic panel, it is recommended that you first tape the area where the cut is made with regular masking tape.

Screw or staple the slats 50mm inside the intended saw cut. Use a fine-toothed hand saw for veneer or a countersink/circular saw with a fine-toothed blade equipped with a guide rail for best results.

Carefully sand the cut with sandpaper (fine-grained 240). The polyester fabric of the acoustic panel is easily cut with a sharp blade.

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