# AKUSLAT ACOUSTIC FLUTED PANELS

## ACOUSTIC WOOD SLAT PANELS

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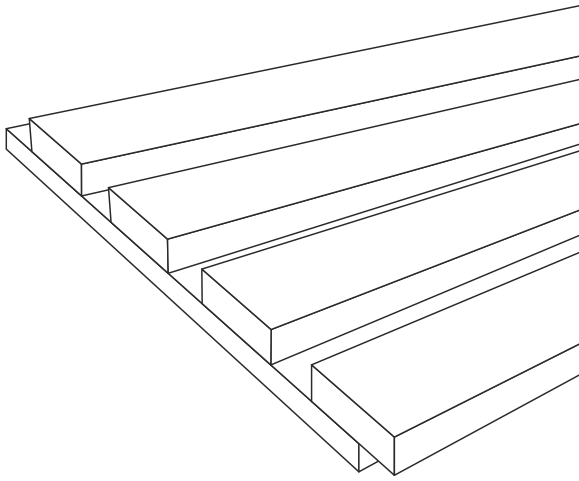


Akuslat Acoustic Fluted Panel is manufactured through a process which is free from chemicals, binders and adhesives. Each panel is created from responsibly sourced and environmentally friendly materials.

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.

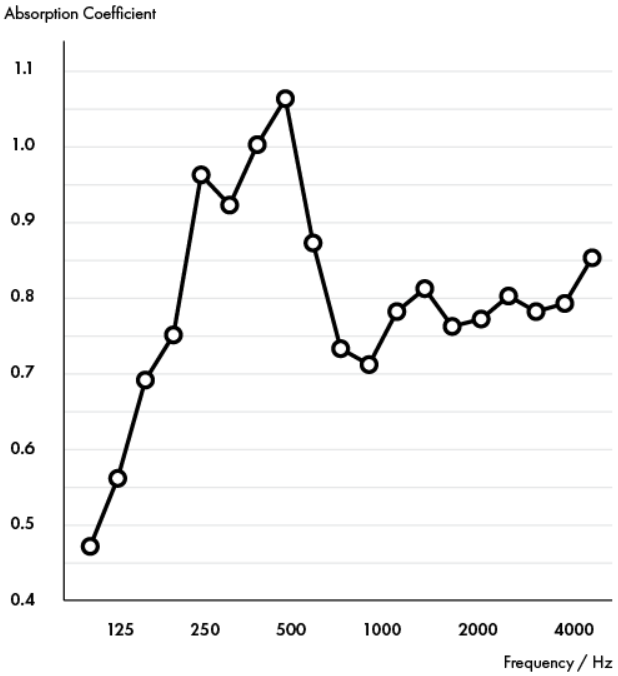
**Low Moisture Absorption**
Retains moisture in ambient air & controls humidity by absorbing & emitting less.

**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.

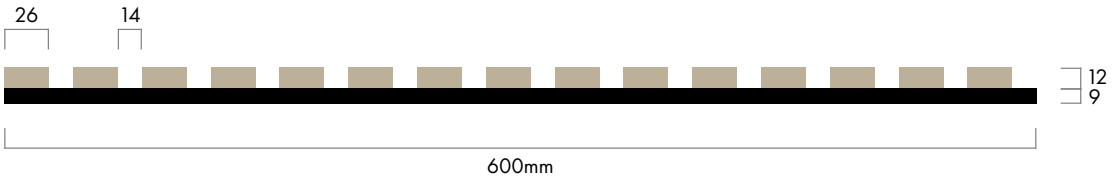
## Product Specifications

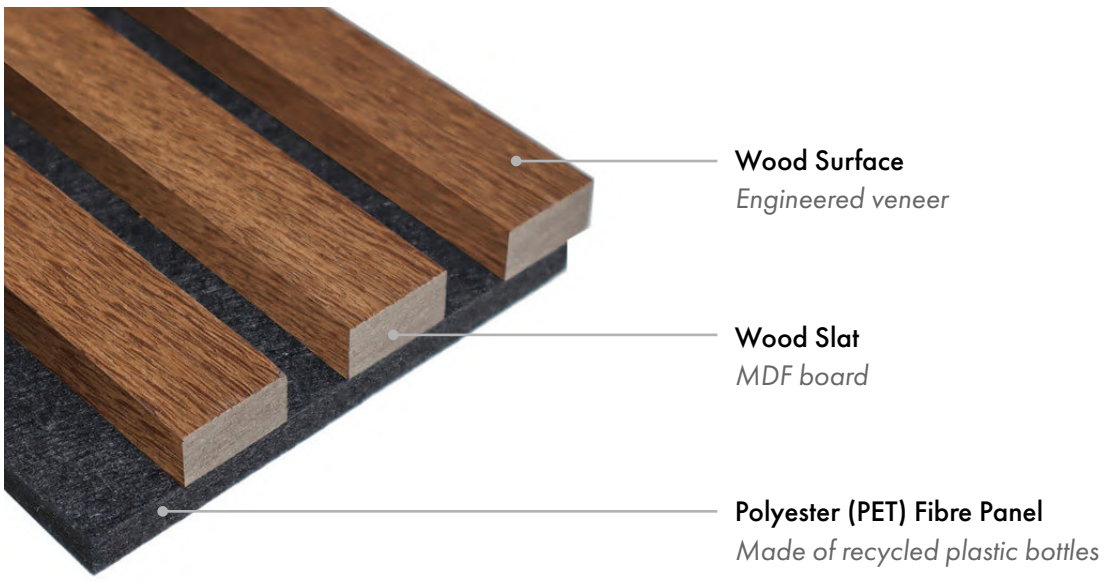
| | |
|---|---|
| **Composition** | 60% polyester fibre (PET) + 30% MDF + 10% Veneer |
| **Thickness** | 9mm PET + 12mm Wood Slat |
| **Weight** | 2,000gm/$m^2$ |
| **Panel size** | 600mm x 2,400mm |
| **Sound Absorption (ASTM C423-17)** | NRC 0.30 (no air gap) |
| **Thermal Conductivity (ASTM C518)** | 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



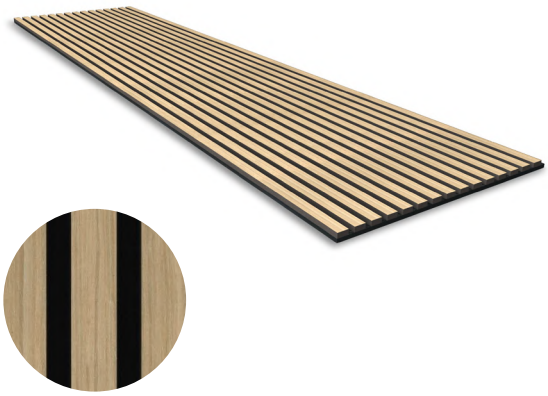



**Wood Surface**
*Engineered veneer*

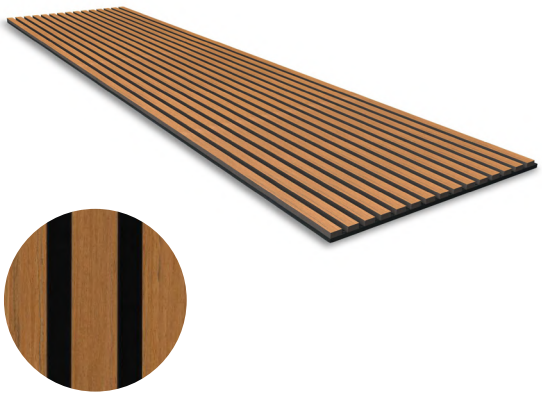
**Wood Slat**
*MDF board*

**Polyester (PET) Fibre Panel**
*Made of recycled plastic bottles*

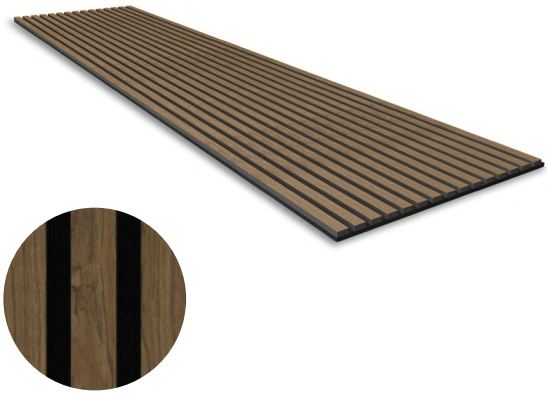
# VENEER CHART



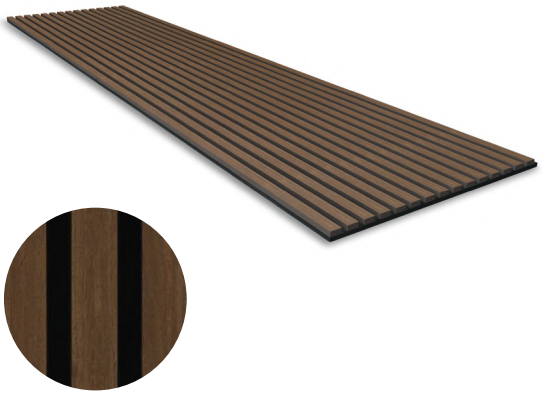
01 Washed Oak



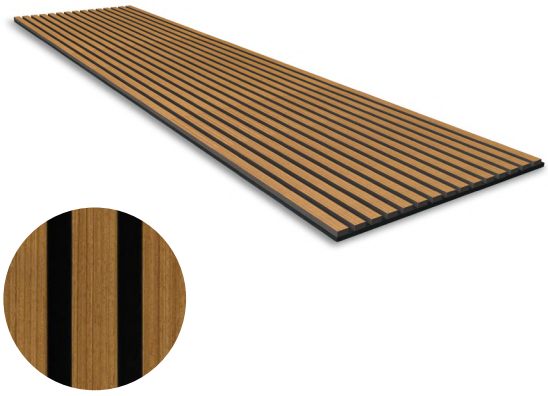
02 Teak



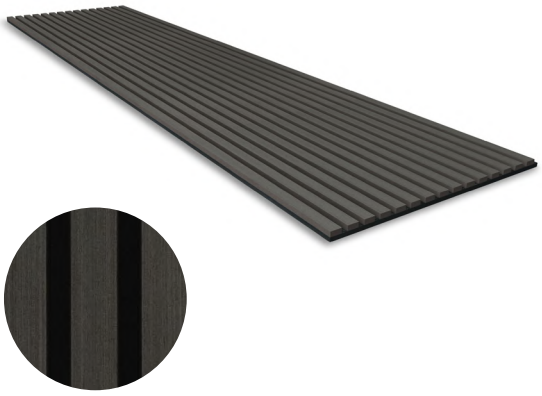
03 Walnut



04 Smoked Oak



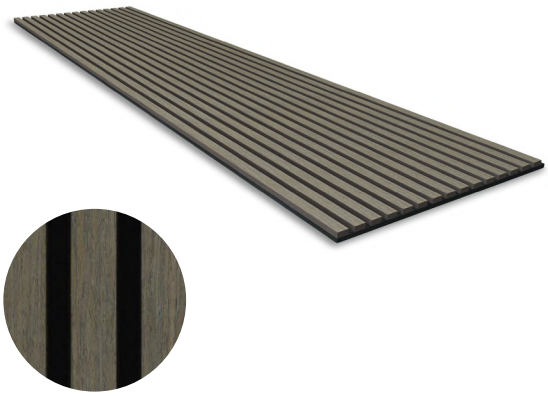
05 Teak



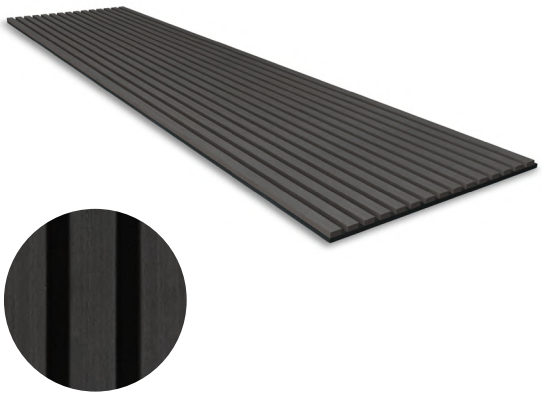
06 Wenge

**Properties of real wood veneer:*
*Real wood veneer can vary in color, grain structure and appearance from strip to strip and panel to panel.*

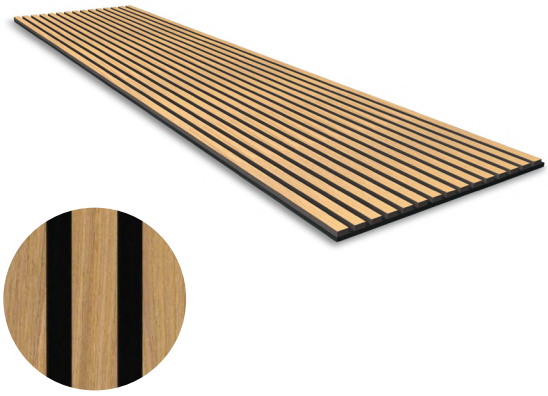
# VENEER CHART



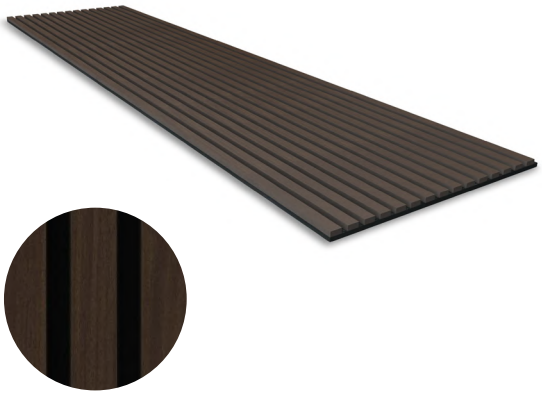
07 Slner Oak



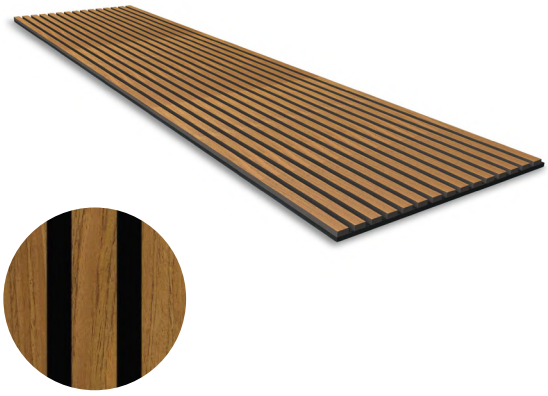
08 Black Oak



09 Oak



10 Black Walnut



11 Teak

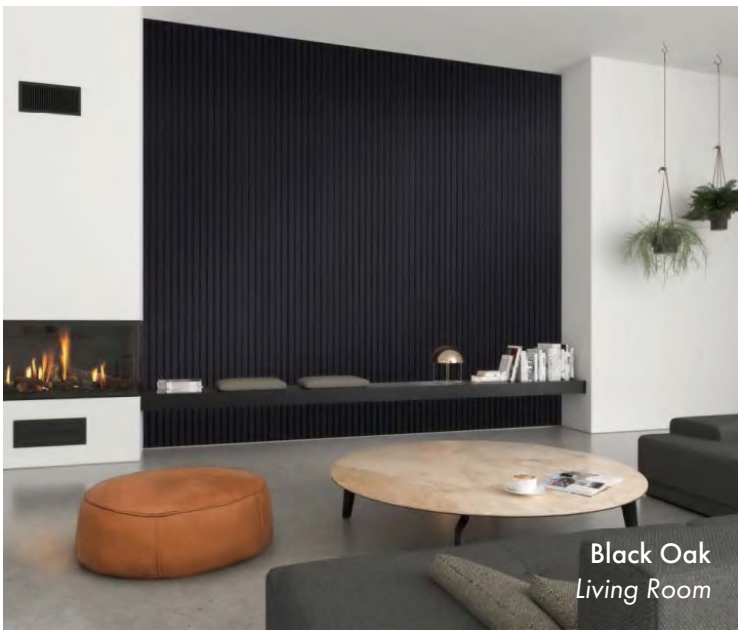
**Properties of real wood veneer:*
*Real wood veneer can vary in color, grain structure and appearance from strip to strip and panel to panel.*


Slner Oak
*Living Room*

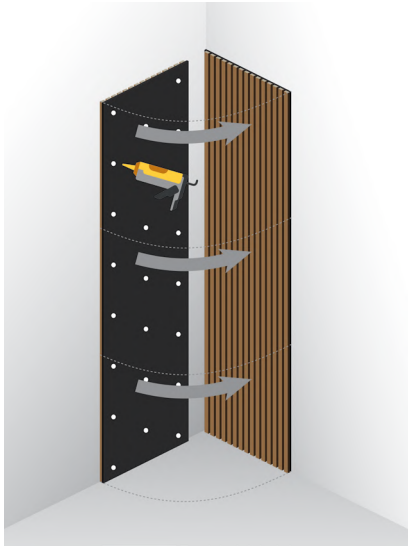

**Wenge**
*Living Room*


Oak
*Office*


Washed Oak
*Bedroom*


Black Oak
*Living Room*

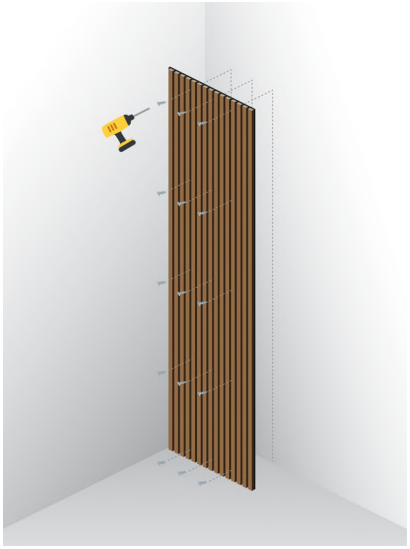
# INSTALLATION METHOD



## Method 1

**Gluing directly onto the wall**

A construction glue or grab adhesive is recommended for this.



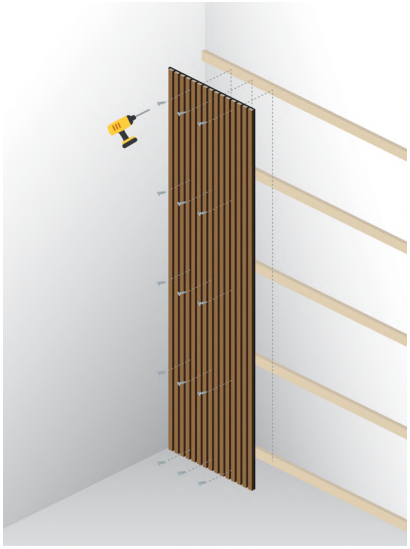
## Method 2

**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.

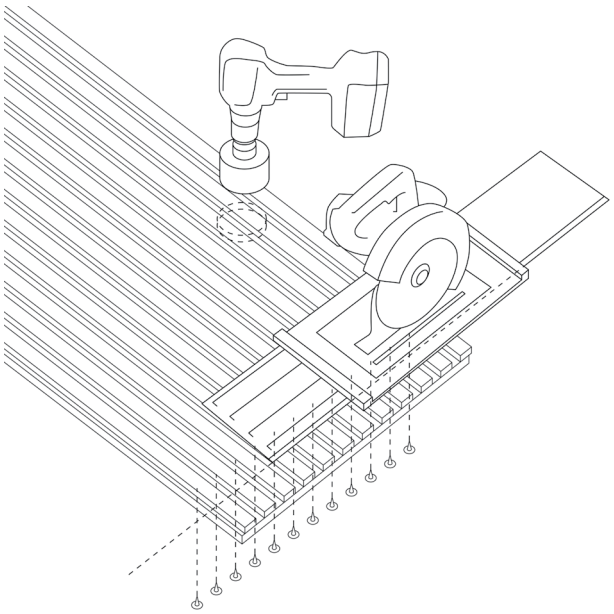


## Method 3

**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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**ENOCOUSTIC PTE LTD**

62 Oxley Bizhub 2
#01-41, Ubi Rd 1
Singapore 408734

+65 6926 2610
info@enocoustic.com.sg
www.enocoustic.com.sg
@enocoustic