

# Timberix Catalogue

Eco-friendly timber acoustic panels.  
Comes in grooved and perforations  
as small as 500 microns.



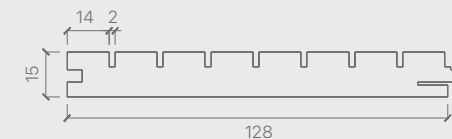
TM and 2027 © | Designed by Aid | [www.timberix.com](http://www.timberix.com) | [hello@timberix.com](mailto:hello@timberix.com)  
United States | United Kingdom | Switzerland | Dubai | South Africa | Singapore | Oceania

# Timberix Grooved

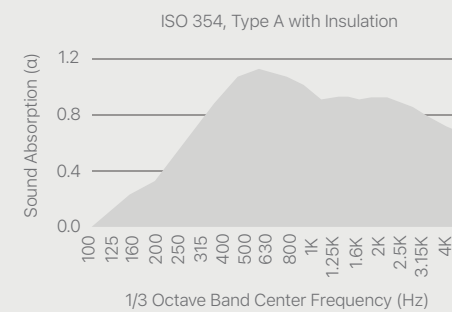
Timberix™ panels reduce echoes by trapping and diffracting sound in the grooves and perforation found on the surface. The sound that passes through the perforation is further absorbed by an acoustic substrate such as fibreglass or mineral wool, which reduces reverberation in the room. Smaller grooves are better at attenuating high frequency sounds, whereas larger grooves are better at controlling low frequency sounds.



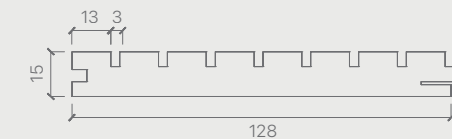
Pattern 14-2



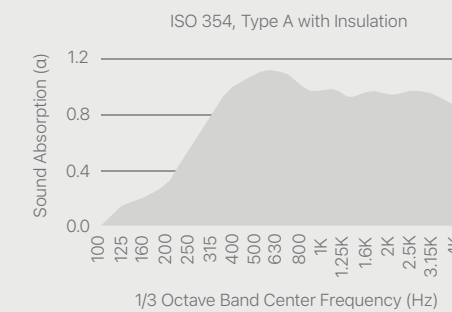
Open Area: 7.5%



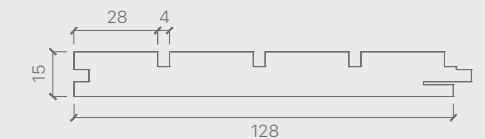
Pattern 13-3



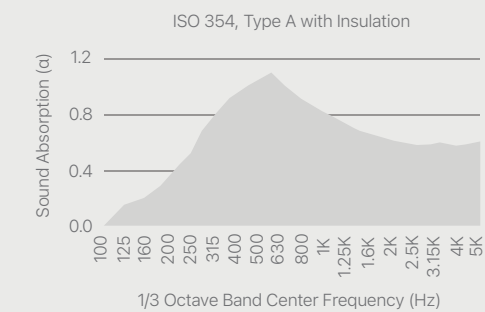
Open Area: 12%



Pattern 28-4



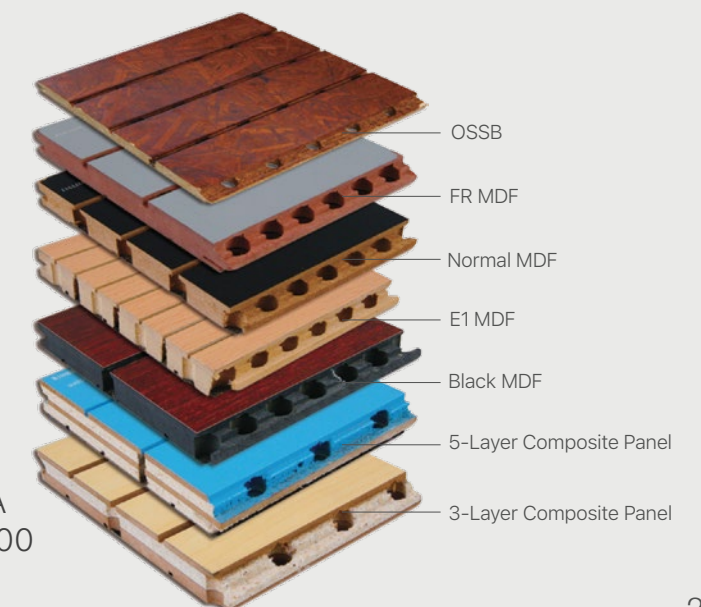
Open Area: 7%



Timberix™ Grooved acoustic panel is made up of a series of slats and grooves. Each panel has a machined tongue and groove joint for a seamless joinery. Timberix™ Grooved panels come in 4 different patterns: 13-3, 14-2, 28-4, 59-5. The first number refers to the slat size in mm and second number refers to the groove size in mm. The surface comes in 4 types of finishing: melamine, PVC, veneer, and paint. The base material can be made of MDF, fire-resistant MDF, eco-friendly MDF, black MDF, 3-layer composite, 5-layer composite or OSB.

## Specifications

Structure: Base Material, Finishing & Fleece  
 Core: E1 MDF, FR MDF, Black MDF, MgO  
 Surface Finish: Melamine, PVC, Veneer, Paint  
 Standard Dimension: 2420 x 192mm, 2420 x 128mm  
 Standard Thickness: 12mm, 15mm, 18mm  
 Standard Pattern: 13-3, 14-2, 28-4, 59-5  
 Formaldehyde Emission: EN 13986 = E1  
 Fire Classification: EN 13501-1 = Class B s1, d0  
 Weighted Absorption ( $\alpha_w$ ): ISO 11654 = 1.00, Class A  
 Noise Reduction Coefficient (NRC): ASTM C423 = 1.00



# Grooved Installation

## Preparation

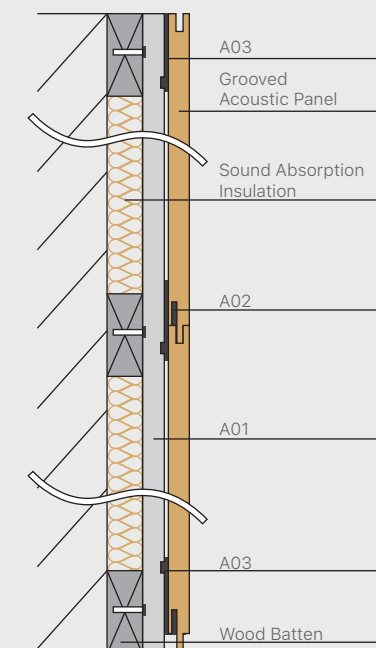
1. Place of installation must be dry, with temperature no less than 10 degrees Celsius.
2. Humidity level should be kept between 40% to 60%.
3. Timberix™ panels must be placed on site for at least 48 hours in order to adapt to the environmental conditions.
4. Distance between each wooden batten should be less than 500mm and that between each steel keel should be no more than 600mm.

## Installation

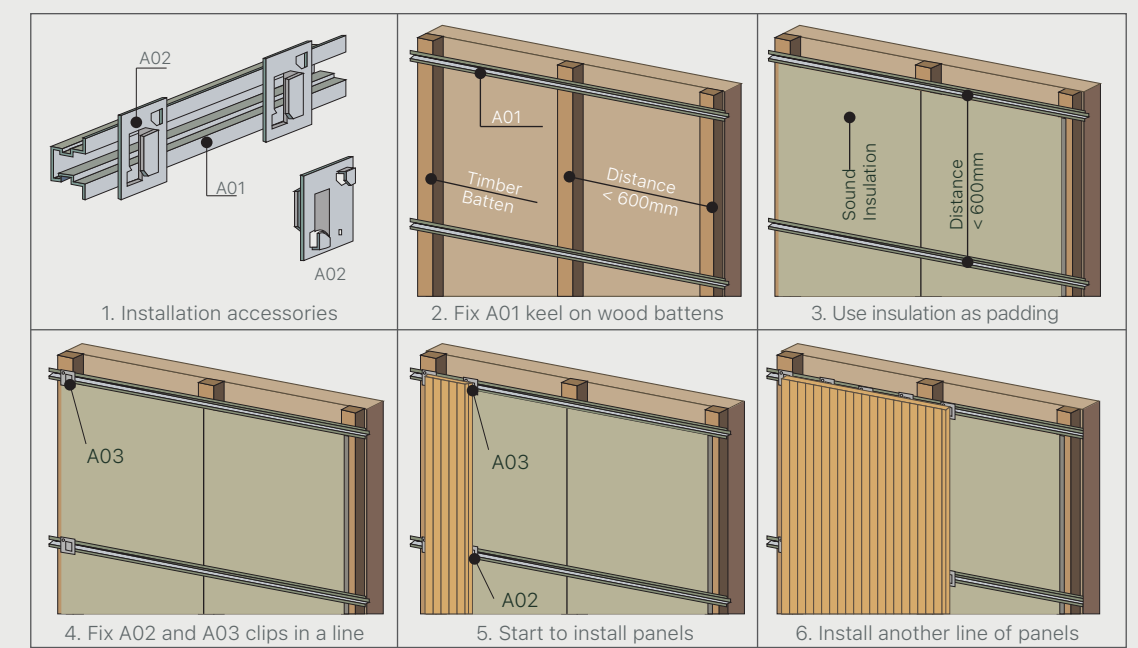
1. Mark out placement of Timberix™ panels, and take into account M&E positions.
2. Cut panels to size according to final positions.
3. Decide on type of installation system to use.
4. Install acoustic substrate of choice.
5. Join Timberix™ Grooved panels from top-to-bottom, and left-to-right.
6. For wood laminate and veneer finishes, ensure that grooved panels are installed with matching grain directions.
7. Clean surface of the Timberix™ panels with compressed air and gently wipe with dry cloth.

## Installation Method

1. Steel keel system
2. Wood batten system



Cross-section Structure



Installation: Steel Keel System



Timberix™ Grooved 13/3  
Ang Mo Kio Show Flat, Singapore

**Media Hall**

**Location**  
Ang Mo Kio Show Flat, Singapore

**Client**  
Private

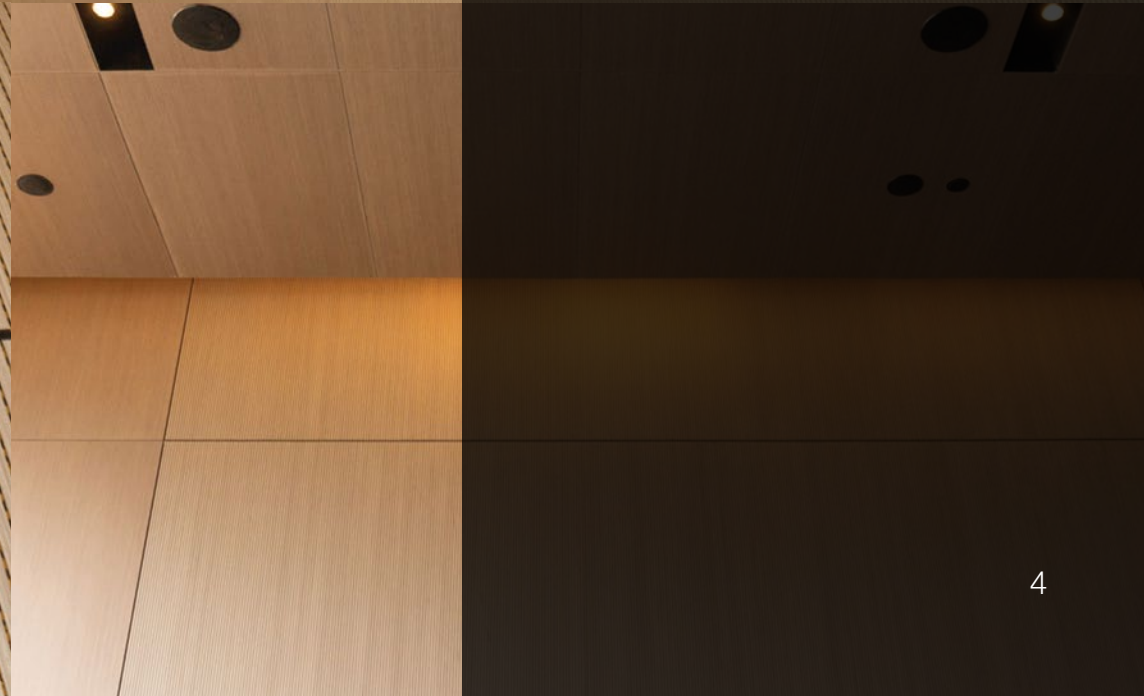
**Architect**  
W Architects

**Main Contractor**  
Tong Hai Yang Construction

The media hall located at Ang Mo Kio in Singapore was designed to achieve acoustics specifications of Sound Transmission Class (STC) 55, Impact Isolation Class (IIC) 50, and Reverberation Time to decay 60 Decibels (RT60) time of 0.8 seconds.

The client has shortlisted Timberix™ to achieve the required RT60 time.

Timberix™ Grooved panels with grooves 13/3 in oak veneer finish were installed onto the walls of the media hall. The acoustic panels were installed with 50mm insulation and 50mm air cavity, which reduces the mid-low frequency sounds.



# Timberix Perforated

Timberix™ Perforated panels is made with a 2-layer perforation structure, which traps and diffracts sound in the holes. The sound that passes through the perforation is further absorbed by an acoustic substrate such as fibreglass or mineral wool, which reduces reverberation in the room. The perforation comes in many sizes ranging from 1mm to 25mm. Smaller holes are better at attenuating low frequency sounds, whereas larger holes are better at reducing high frequency sounds.

## Specifications

Structure: Basic Material, Finishing & Fleece  
Core: E1 MDF, FR MDF, Black MDF, MgO  
Surface Finish: Melamine, PVC, Veneer, Paint  
Standard Dimension: 600mm x 600mm, 600mm x 1200mm, 1200mm x 1200mm, 1200mm x 2400mm  
Standard Thickness: 12mm, 15mm, 18mm  
Distances of Two Holes: 8/8mm, 16/16mm and 32/32mm  
Diameter of Holes: 1, 2, 3, 4, 5, 6, 8, 10, 12mm, etc.  
Standard Pattern: E8/8/3, E16/16/6, E16/16/8, E32/32/6, E32/32/8, V8/8/3, V16/16/6, V16/16/8, V32/32/6, V32/32/8  
Microperforated Pattern: E4/4/1, E8/8/1, V4/4/1, V8/8/1, V1.8/1.8/0.5, V3.6/1.8/0.5  
Hole Arrangement: Linear (E), Staggered (V)  
Formaldehyde Emission: EN 13986 = E1  
Fire Classification: EN 13501-1 = Class B s1, d0  
Weighted Absorption ( $\alpha_w$ ): ISO 11654 = 1.00, Class A  
Noise Reduction Coefficient (NRC): ASTM C423 = 1.00

Timberix™ Perforated acoustic panel is made up of a series of perforations. Each panel has a machined groove joint for either a seamless or gap joinery. Timberix™ Perforated panels come in 10 standard patterns and the microperforated panels come in 6 standard patterns. The first alphabet refers to the hole arrangement (E is linear and V is staggered), the second pair of numbers refer to the distance between the two holes, and the last number refers to the hole diameter. The surface comes in 4 types of finishing: paint, melamine, PP, and veneer. The base material can be made of MDF, fire-resistant MDF, eco-friendly MDF, black MDF, 3-layer composite, 5-layer composite or OSB.

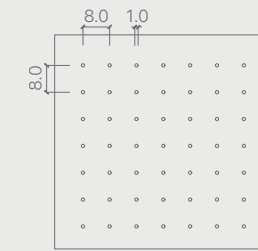
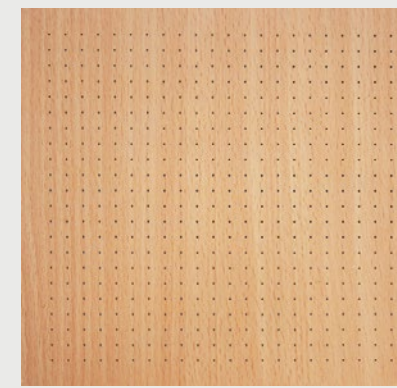
# Perforated Installation

## Preparation

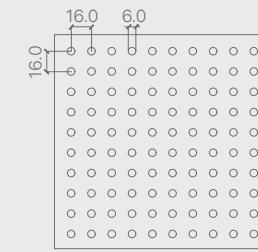
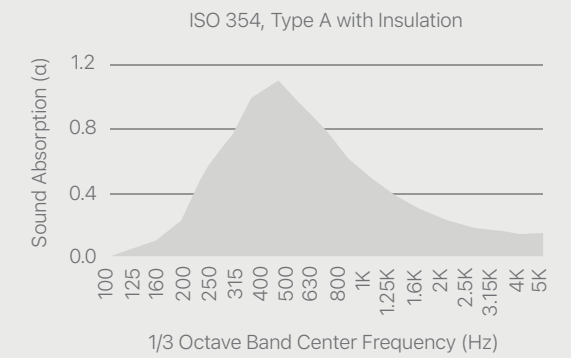
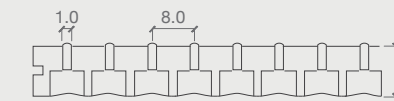
1. Place of installation must be dry, with temperature no less than 10 degrees Celsius.
2. Humidity level should be kept between 40% to 60%.
3. Timberix™ panels must be placed on site for at least 48 hours in order to adapt to environmental conditions.

## Installation

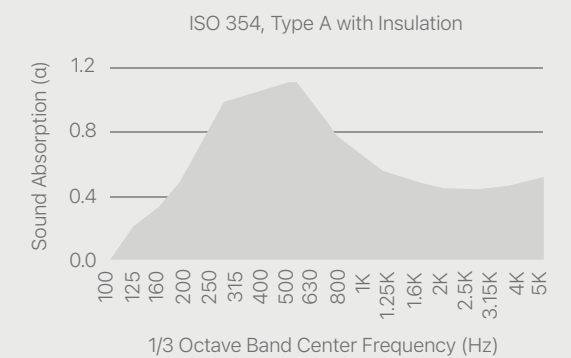
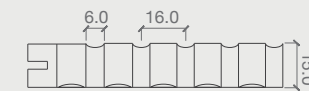
1. Mark out placement of Timberix™ panels, and take into account M&E positions.
2. Decide on type of installation system to use.
3. Install acoustic substrate of choice.
4. For wood laminate and veneer finishes, ensure that panels are installed with matching grain directions.
5. Clean surface of the Timberix™ panels with compressed air and gently wipe with dry cloth.



Milliperforated E 8/8/1



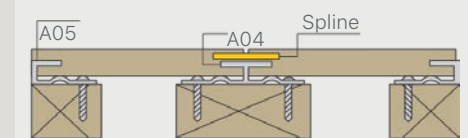
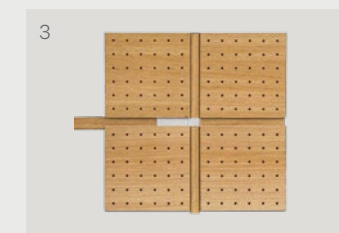
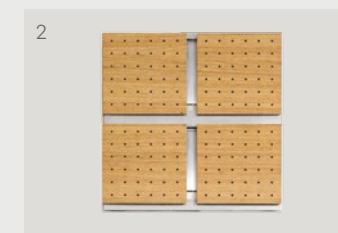
Perforated E16/16/6



## Installation Method

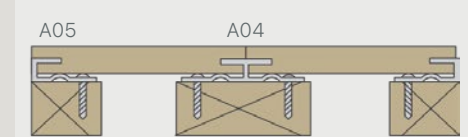
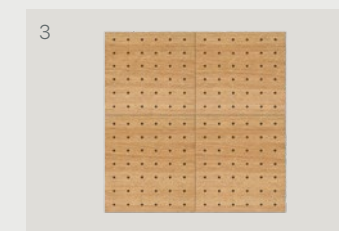
Perforated panels expand and contract with changes in humidity and temperature. We strongly recommend using installation system with gap to prevent buckling of panels.

### Installation System with Gap



Cross Section

### Installation System without Gap



Cross Section



Timberix™ Microperforated V3.6/1.8/0.5  
Wakuda, Singapore

## Restaurant

### Location

Bayfront Ave, Tower 2, Singapore

### Client

Marina Bay Sands

### Architect

Kyriacou Architects

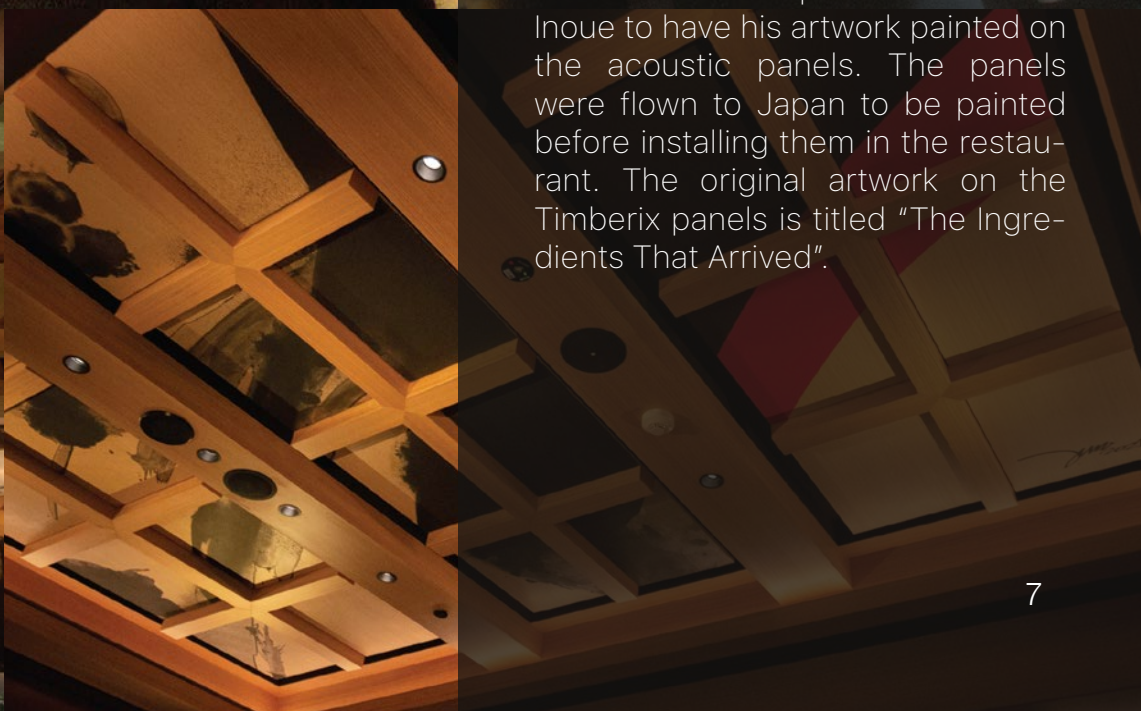
### Main Contractor

Kingsmen Projects

Wakuda is a Japanese restaurant by chef Tetsuya Wakuda who owns 2 Stars Michelin restaurant Waku Ghin. The restaurant opened its doors in the iconic Marina Bay Sands Hotel in April 2022. Timberix™ microperforated V3.6/1.8/0.5 acoustic panels were installed to manage reverberations for a comfortable Japanese omakase dining experience.

These microperforated panels have approximately 500,000 perforations per square metre. They attenuate sound through resonance absorption and the acoustic substrate behind the panels.

As a bespoke project, Timberix collaborated with Japanese artist Jun Inoue to have his artwork painted on the acoustic panels. The panels were flown to Japan to be painted before installing them in the restaurant. The original artwork on the Timberix panels is titled "The Ingredients That Arrived".

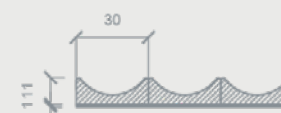


# Timberix Flexible

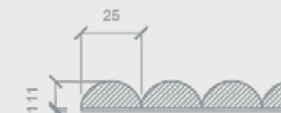
Timberix™ Flexible and Special panels are engineered to improve interior acoustic performance. Precision ribbed and fluted linear profiles diffuse and scatter incident sound waves, helping to reduce echo and flutter without the need for perforations. The sculpted ribbed and fluted geometry creates a more balanced and acoustically comfortable environment while maintaining a refined architectural appearance. With a flexible double-ribbed and fluted construction, the panels adapt easily to curved or irregular surfaces. This makes them ideal for complex architectural geometries where acoustic control, visual continuity, and design flexibility are essential.

## Flexible

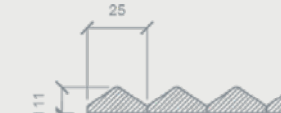
Timberix™ Flexible panels feature linear ribs and flutes that diffuse sound and reduce reflections, allowing seamless installation on curved or irregular surfaces.



Fluted Flex 30



Ribbed Flex 25



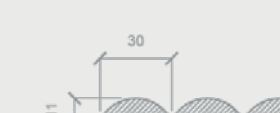
V-Grooved Flex 25



Slatted Flex 25



Double Ribbed Flex 25



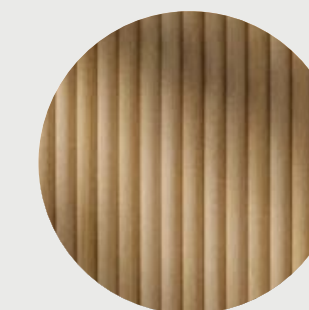
Ribbed Flex 30

## Non-Flexible

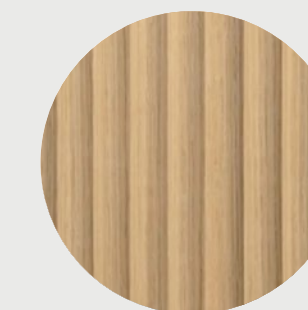
Timberix™ Special panels use linear ribbed and fluted profiling to diffuse sound, reducing echo and enhancing acoustic comfort through surface articulation without perforations.



Fluted 29



Ribbed 21



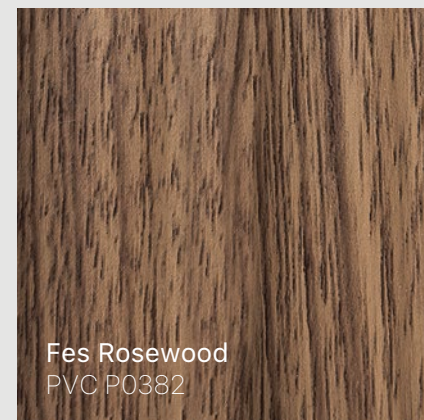
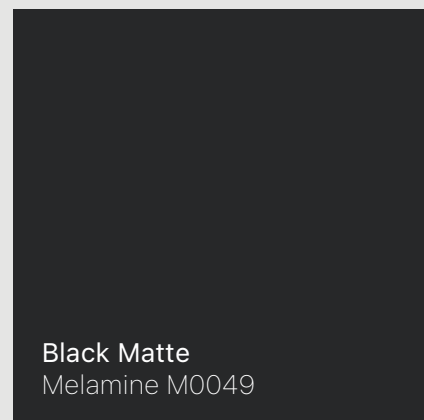
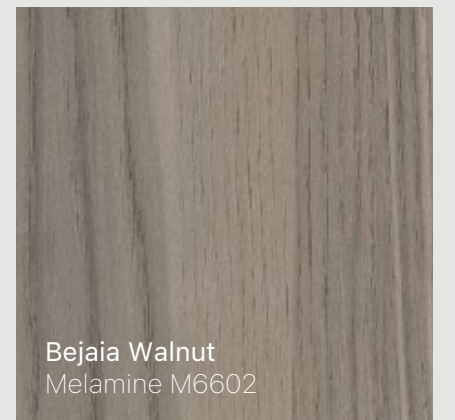
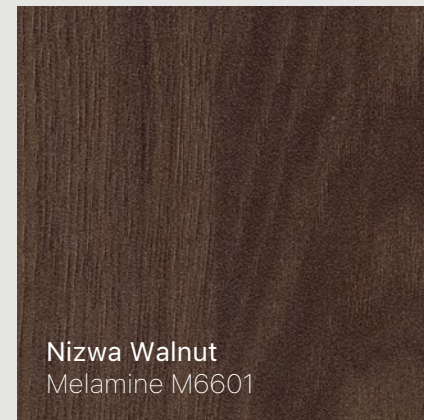
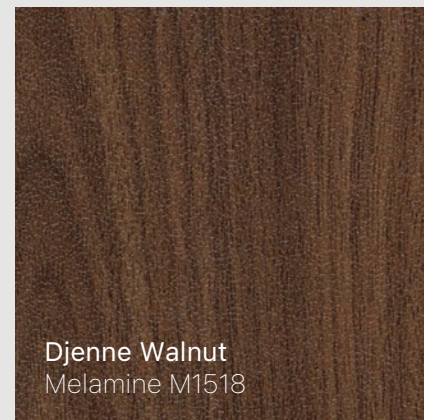
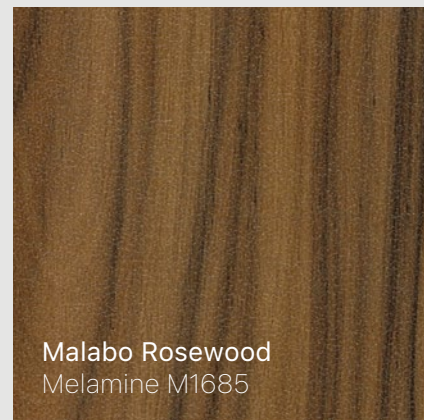
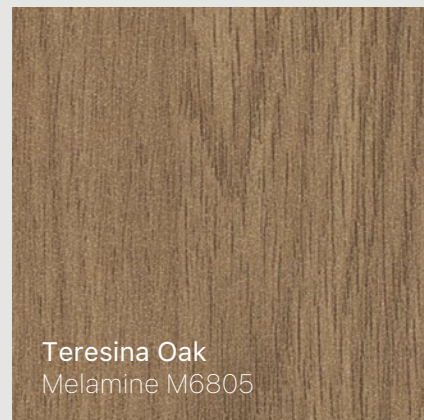
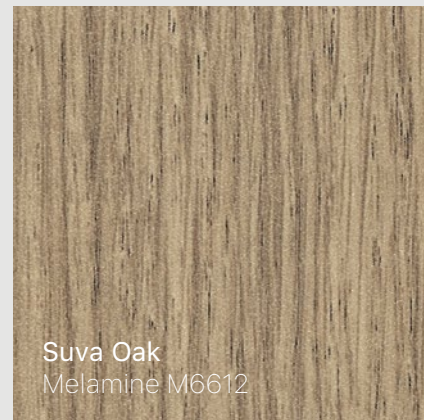
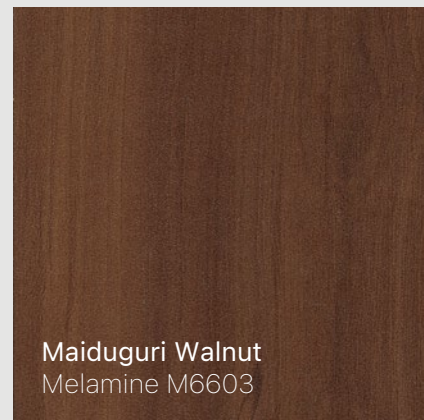
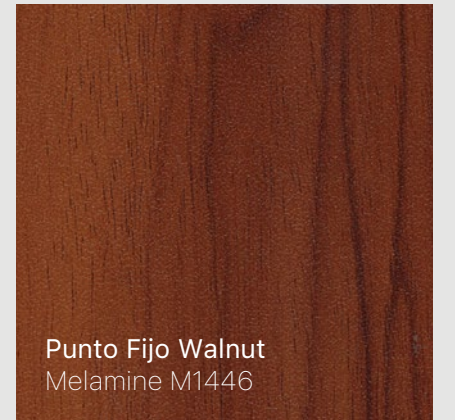
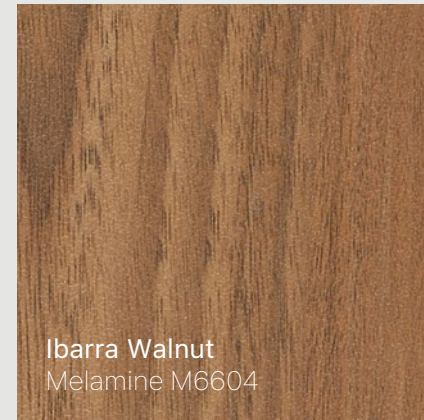
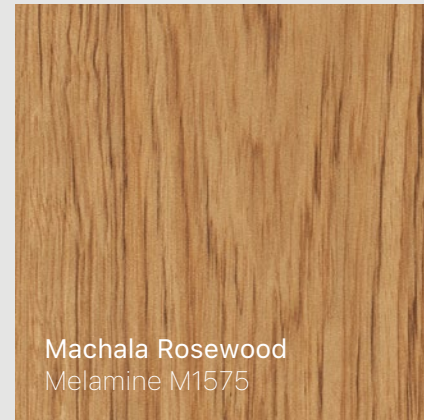
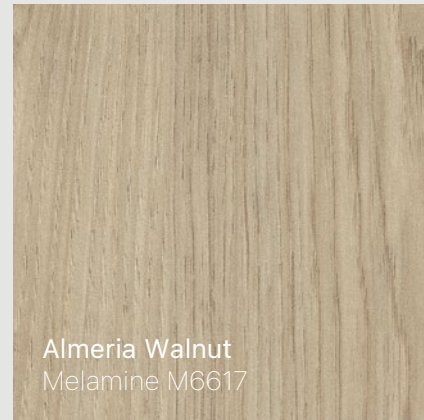
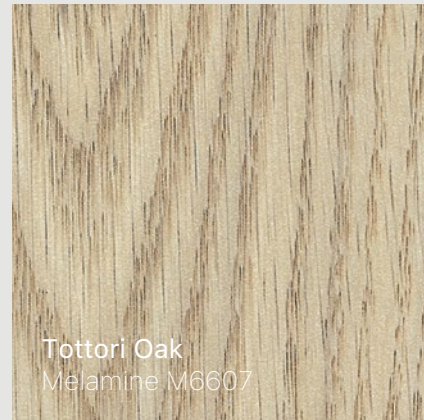
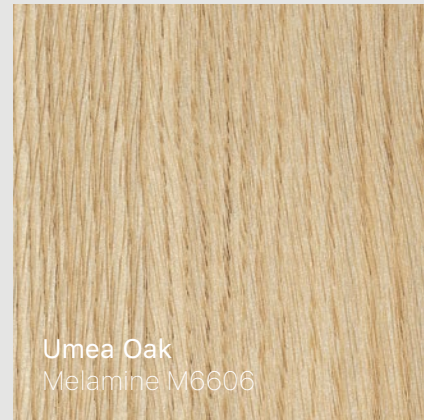
Ribbed 32

# Specifications Melamine & PVC

Weighted Absorption (aw) ISO 11654 = 1.00, Class A | Noise Reduction Coefficient (NRC) ASTM C423 = 1.00

Thickness 0.1mm | Finish Matte, Satin, Gloss

Edge Banding None, PVC, ABS | Fire Classification EN 13501-1 = Class B s1, d0 | Formaldehyde Emission EN 13986 = E1



# Specifications Veneer & Paint

Thickness 0.6mm | Finish Matte, Satin, Gloss

Weighted Absorption (aw) ISO 11654 = 1.00, Class A | Noise Reduction Coefficient (NRC) ASTM C423 = 1.00

Edge Banding None, PVC, ABS | Fire Classification EN 13501-1 = Class B s1, d0 | Formaldehyde Emission EN 13986 = E1

