



Timberix Catalogue

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

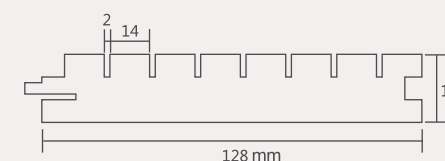
Timberix Grooved

Timberix™ wooden grooved 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.

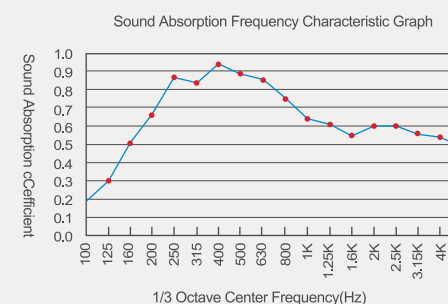
Grooved 28/3/13/3/28
National Cancer Centre, Singapore



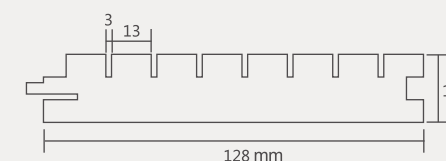
Pattern 14-2



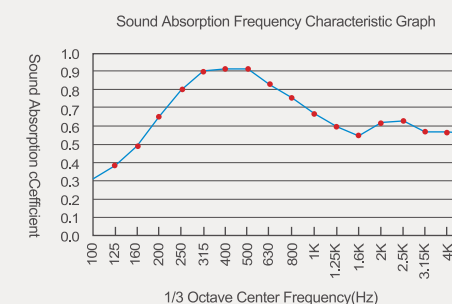
(Pattern 14-2) Perforation Rate:7.5%



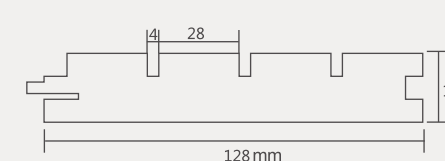
Pattern 13-3



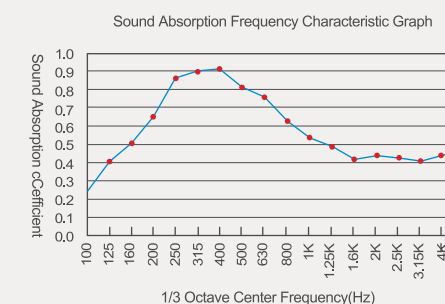
(Pattern 13-3) Perforation Rate:12%



Pattern 28-4



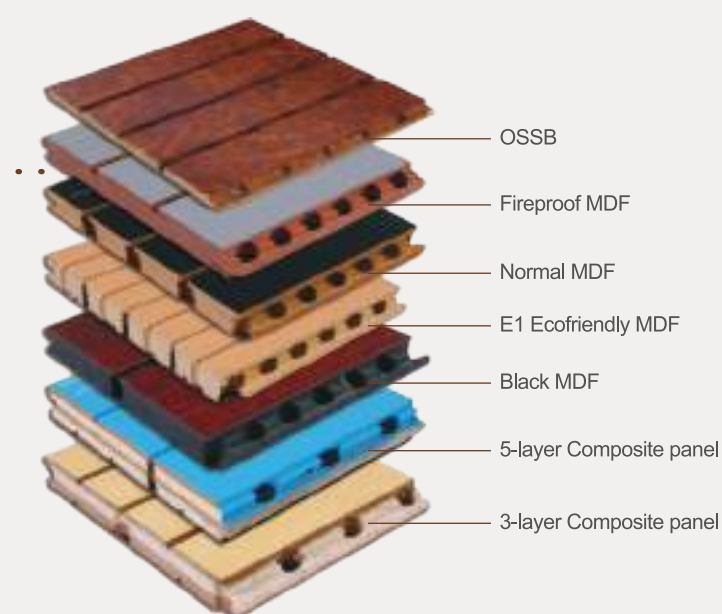
(Pattern 28-4) Perforation Rate:7%



Our wooden 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™ wooden grooved panels come in 4 different patterns: 13-3, 14-2, 28-4, 59-5. The first number refers to the slat size (mm) and and second number refers to the groove size (mm). 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.

Specifications

1. Structure: Base Material, Finishing & Fleece
2. Material: E1 MDF, FR MDF, MgO Composite Board, etc.
3. Finishing: Paint, Melamine, PP, Veneer, etc.
4. Standard Dimension: 2420*192mm, 2420*128mm
5. Standard Thickness: 12mm, 15mm, 18mm
6. Standard Pattern: 13-3, 14-2, 28-4, 59-5
7. Eco-Friendly Test: EN 13986 = E1
8. Fire-Rated Test: EN 13501-1 = Class B s1, d0



Grooved Installation

A) Preparation

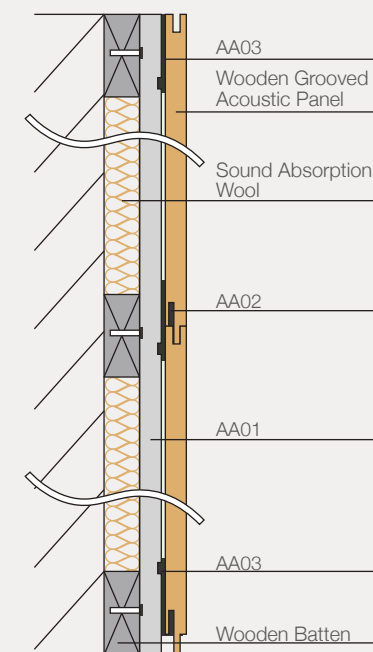
1. Place of installation must be dry, with temperature no less than 10 degrees Celsius.
2. Humidity level should be kept between 40% to 60%.
3. Timberix™ panels must be placed on site for at least 48 hours in order to adapt to the environmental conditions.
4. Distance between each wooden batten should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

B) Installation

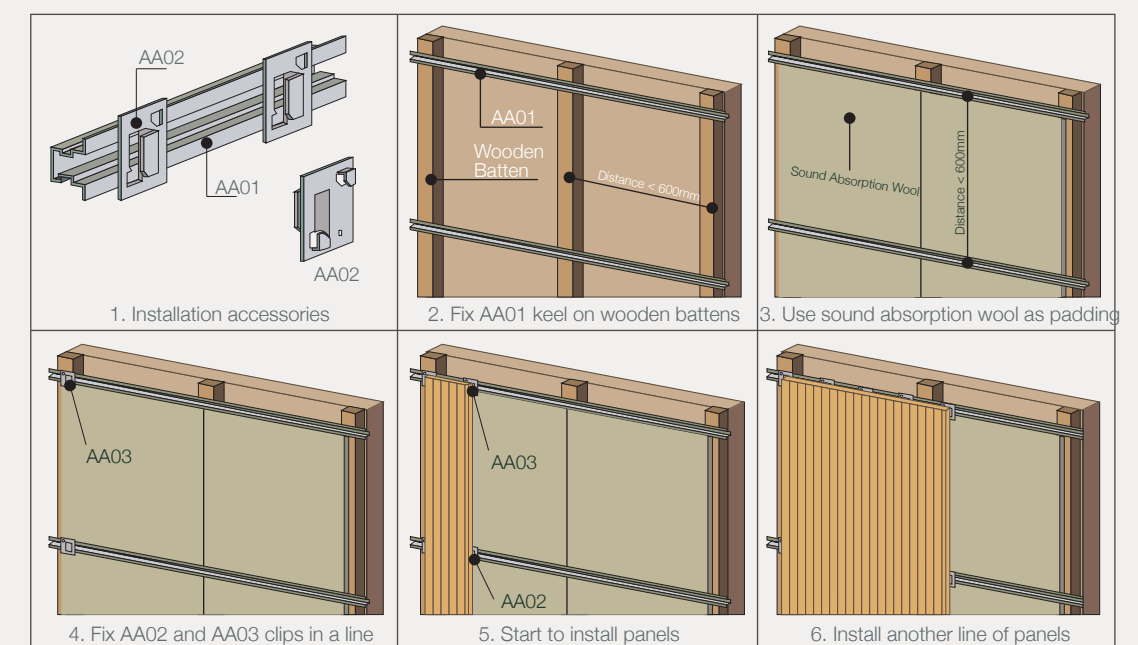
1. Mark out placement of Timberix™ panels, and take into account M&E positions.
2. Cut panels to size according to final positions.
3. Decide on type of installation system to use.
4. Install acoustic substrate of choice.
5. Join Timberix™ wooden grooved panels from top-to-bottom, and left-to-right.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

C) Installation System

1. Steel keel system
2. Wooden 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 Reveberation 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™ wooden 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

1. Structure: Basic Material, Finishing & Fleece
2. Material: E1 MDF, FR MDF, MgO Composite, etc.
3. Front Surface: Melamine, PP, Wood Veneer, Paint, etc.
4. Standard Dimension: 600mm x 600mm, 600mm x 1200mm, 1200mm x 1200mm, 1200mm x 2400mm
5. Standard Thickness: 12mm, 15mm, 18mm
6. Distances of Two Holes: 8/8mm, 16/16mm and 32/32mm
7. Diameter of Holes: 1, 2, 3, 4, 5, 6, 8, 10, 12mm, etc.
8. 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
9. 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
9. Hole Arrangement: Linear (E), Staggered (V)
10. Eco-Friendly Test: EN 13986 = E1
11. Fire-Rated Test: EN 13501-1 = Class B s1, d0

Our wooden 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.

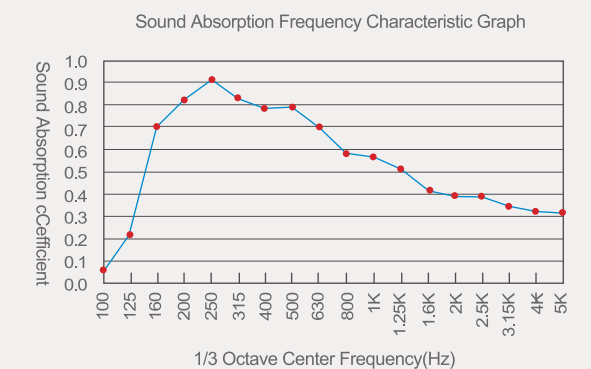
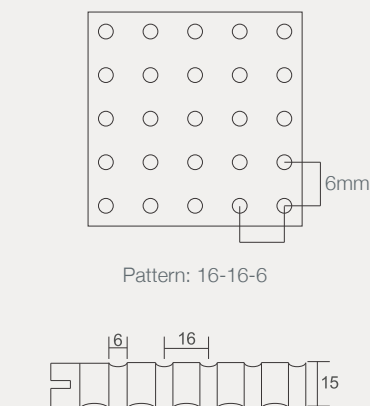
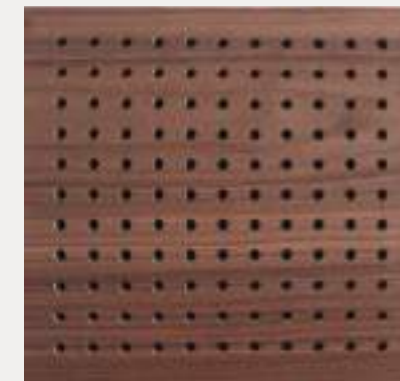
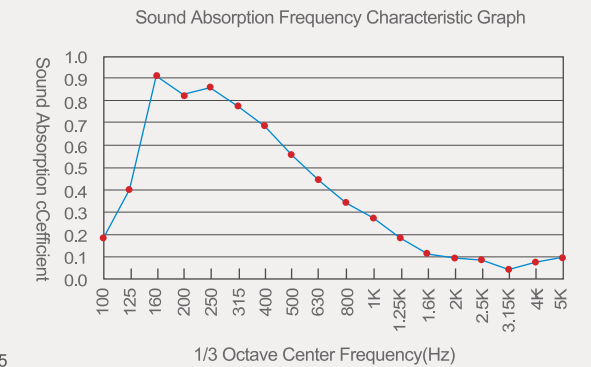
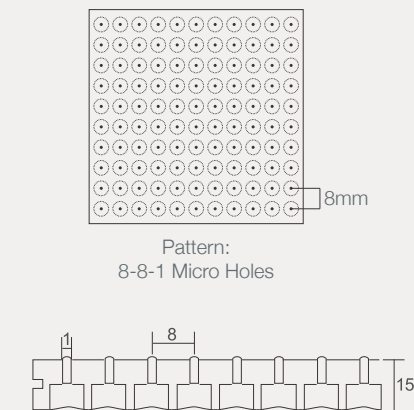
Perforated Installation

A) 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.

B) Installation

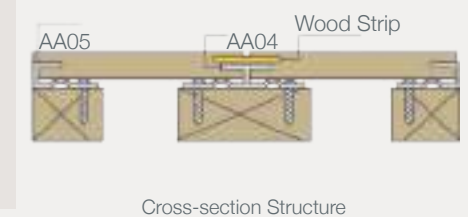
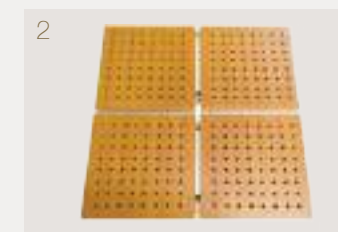
1. Mark out placement of Timberix™ panels, and take into account M&E positions.
2. Decide on type of installation system to use.
3. Install acoustic substrate of choice.
4. For wood laminate and veneer finishes, ensure that panels are installed with matching grain directions.
5. Clean surface of the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



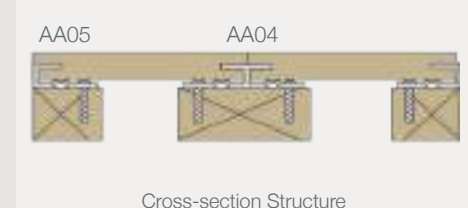
C) Installation System

Wooden panels expand and contract with changes in humidity and temperature. We strongly recommend using Installation System I (with gap) to prevent buckling of panels.

Installation System I (with gap)



Installation System II (without gap)





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



Restaurant

Location

Bayfront Ave, Tower 2, Singapore

Client

Marina Bay Sands

Architect

Kyriiacou 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.

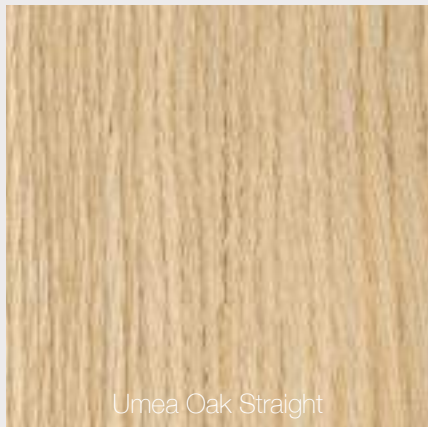
As a bespoke project, Timberix collaborated with Japanese artist Jun Inoue to have his artwork painted on the acoustic panels. The panels were flown to Japan to be painted before installing them in the restaurant. The original artwork on the Timberix panels is titled “The Ingredients That Arrived”.

Timberix™ Melamine

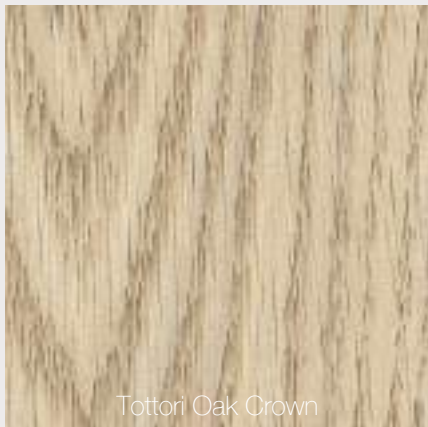
0.1mm Thick
Low-Pressure Laminate



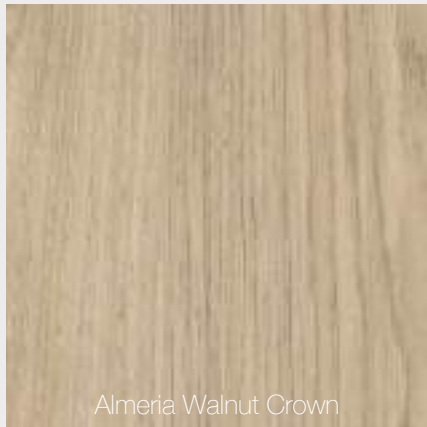
Akureyri Maple Crown



Umea Oak Straight



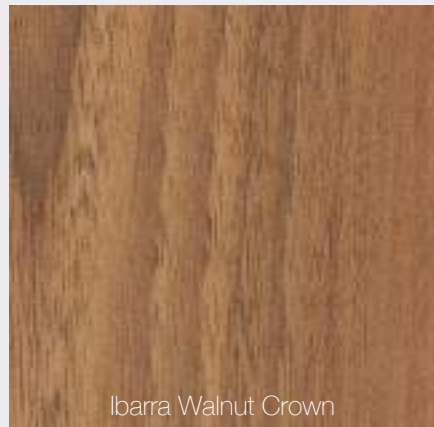
Tottori Oak Crown



Almeria Walnut Crown



Machala Rosewood Crown



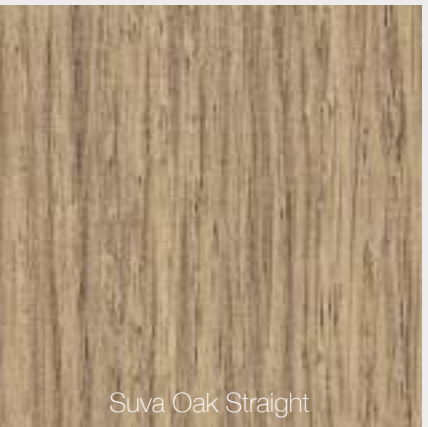
Ibarra Walnut Crown



Punto Fijo Walnut Crown



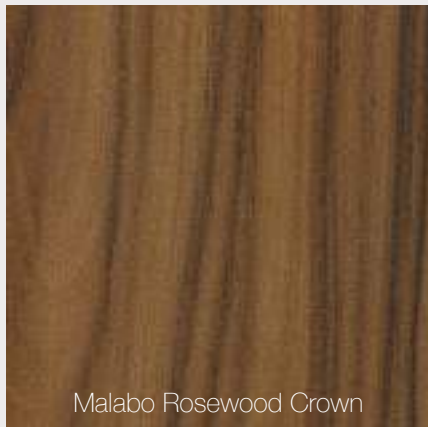
Maiduguri Walnut Crown



Suva Oak Straight



Teresina Oak Crown



Malabo Rosewood Crown



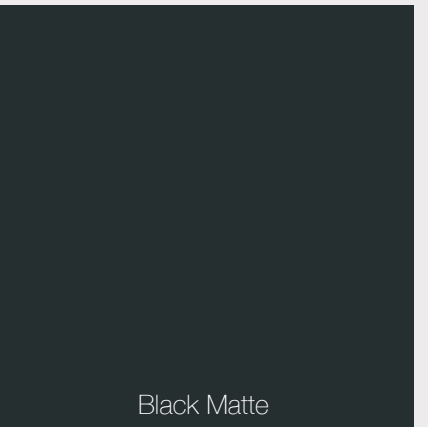
Djenne Walnut Crown



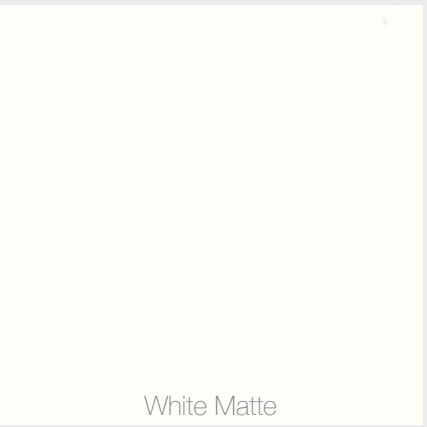
Nizwa Walnut Crown



Bejaia Walnut Crown



Black Matte



White Matte

Timberix™ Veneer

0.6mm Thick
Natural or Reconstituted



Sakai Bamboo Straight



Rijeka Oak Crown



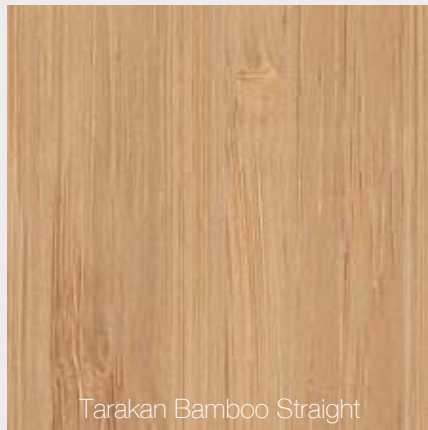
Kouvola Oak Straight



Tromso Oak Straight



Malmo Birch Figured



Tarakan Bamboo Straight



Yllas Sycamore Figured



Cuenca Anigre Straight



Esmeraldas Oak Crown



Nueva Loja Oak Crown



Makurdi Walnut Crown



Tarija Rosewood Crown



Gokarna Oak Crown



Nabeul Eucalyptus Straight



Black Glossy Paint



Ivory White Glossy Paint