



Specifications

Material: 100% PET Polyester, 100% Natural Wool Standard Dimension: 1200mm x 2400mm
Board Thickness: 6mm, 9mm, 12mm, 25mm
Eco-Friendly Test: Oeko-Tex® Standard 100
Fire-Rated Test: EN 13501-1 = Class B s1, d0
Acoustics Test: ISO 354 : 2003 NRC = 0.3 - 0.75

How is Polyx[™] Made?

Material Selection

The process begins with selecting high-quality 100% PET fibers. PET is known for its durability and eco-friendliness

Tumbling

The PET fibers undergo a tumbling process, where they are mixed and blended together. This helps create a uniform distribution of fibers with varying melting points.

Needle-Punching

In this step, the blended fibers are fed into a machine equipped with special needles. These needles interlock and entangle the fibers, creating a dense and cohesive fibrous structure.

Baking

The needle-punched fibrous sheet is then baked in an oven at controlled temperatures. This process melts the low-melting-point fibers, which fuse with the high-melting-point fibers. As the panel cools, the fibers solidify, forming a sturdy and effective acoustic material.



ne defining feature of these bevelled edge esign. With a distinct angled s not only serve as a design focal point but also p enhancing sound yx™ Bevel of Health, Singapore

Specifications

Material: 100% PET Polyester

Standard Dimension: 1200mm x 2400mm Standard Thickness: 6mm, 9mm, 12mm, 25mm

Groove Angle: 45°

Eco-Friendly Test: Oeko-Tex® Standard 100 Fire-Rated Test: EN 13501-1 = Class B s1, d0 Acoustics Test: ISO 354 : 2003 NRC = 0.3 - 0.7



9mm V-Groove Section Drawing



12mm V-Groove Section Drawing

How to Install

Prepare Your Space

Clear the area around the wall where you intend to install the panels. Make sure the wall surface is clean, dry, and free from dust or debris.

Plan Panel Placement

Determine the layout and placement of the panels on the wall.

Apply Mounting Adhesive

Apply the adhesive around the edges and at key points on the back of the panel.

Position the Panels

Start at one corner or edge and align the panel with the markings. Press firmly but gently to secure the panel in place.

Create a Pattern

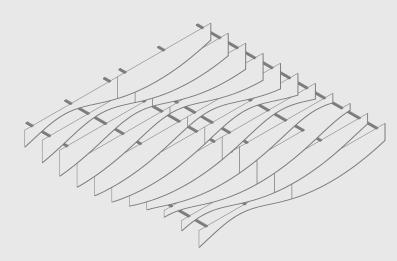
As you install subsequent panels, consider creating a pattern or arrangement that suits your aesthetic preferences. The bevelled edges of the panels can create interesting visual effects when arranged in various ways.



Specifications

Material: 100% PET Polyester

Standard Dimension: 1200mm x 2400mm Standard Thickness: 6mm, 9mm, 12mm, 25mm Standard Height: 150mm, 300mm, 600mm Eco-Friendly Test: Oeko-Tex® Standard 100 Fire-Rated Test: EN 13501-1 = Class B s1, d0 Acoustics Test: ISO 354 : 2003 NRC = 0.3 - 0.75



12mm Wave Baffle Isometric View

How to Install

Install Ceiling Batten

Install ceiling battens to the ceiling using appropriate screws or anchors. Make sure it is level and securely fastened. This channel will serve as the main support structure for hanging the baffles.

Slot Baffles into U-Channels

Slot the U-channels with threaded rods onto the polyester wave baffles. These U-channels should be oriented horizontally, with the threaded rods facing downward. Make sure they are securely attached to the baffles.

Secure the Baffles

Once all the baffles are hung, secure them in place by tightening the nuts on the threaded rods. This will prevent the baffles from moving or swinging.

Check Alignment

Step back and check the alignment and spacing of the baffles. Make any necessary adjustments to ensure they are levelled.





How to Install

Prepare the Wall

The wall should be clean, dry, and smooth. You may need to sand any rough spots and remove any debris or loose paint.

Mark Guidelines

Use a pencil or chalk and a level to draw guidelines on the wall. These will help you align the felt sheets correctly.

Test Fit

Before applying any adhesive, position a sheet of felt on the wall to see how it fits. Make any necessary adjustments to your guidelines.

Apply Adhesive

Apply the adhesive to the back of the felt sheet. Follow the adhesive manufacturer's guidelines for best results. Use a paint roller or spatula to spread the adhesive evenly.

Install Felt

Start at one corner of the wall and align the felt sheet with your guidelines. Press the felt into place, working your way across the sheet to remove any air bubbles. Use a clean roller or spatula to apply pressure evenly.

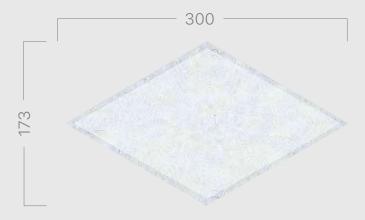
Shapes

Our state-of-the-art CNC cutting technology ensures that every panel is precision-cut to an exact dimension with a tolerance of +/- 0.5mm. This guarantees a perfect fit for an accurate installation on site.

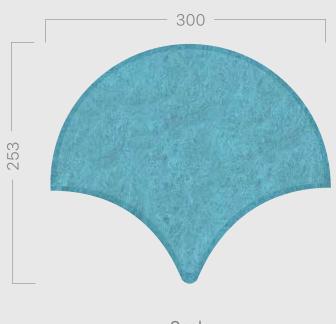
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Material: 100% PET Polyester

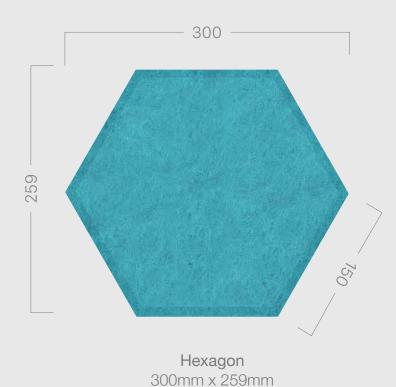
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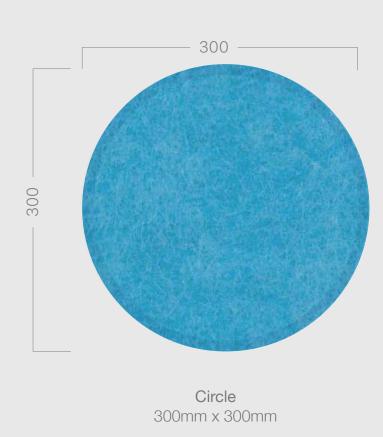


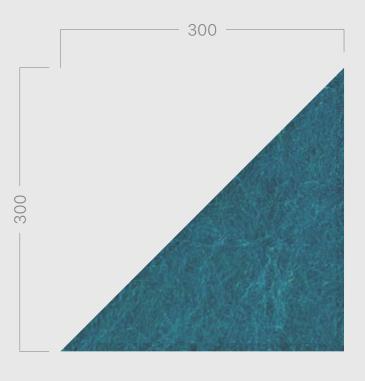
Diamond 300mm x 173mm



Scale 300mm x 253mm







Triangle 300mm x 300mm



SeaWorld, Abu Dhabi

Yas Island, Abu Dhabi, United Arab Emirates

Aspen Creations

Main Contractor

Acoustics Contractor Kinetics Middle East

At SeaWorld, Abu Dhabi, we've taken the legacy a notch higher with Polyx acoustic baffles. Covering an expansive 12,000m2, these 100% PET baffles not only control reverberation but also ensure that the magic of marine life is coupled with impeccable sound quality.

The space features 12mm Polyx™ polyester baffles, intricately CNC cut into wave patterns, enhancing both aesthetics and acoustics. These baffles play a pivotal role in ensuring an exceptional auditory experience for visitors, harmonizing the blend of design and sound at Flamingo Point.





SIM University

Location 41 Namly Avenue, Singapore

Client SIM University

Architect
D' Perception Pte Ltd

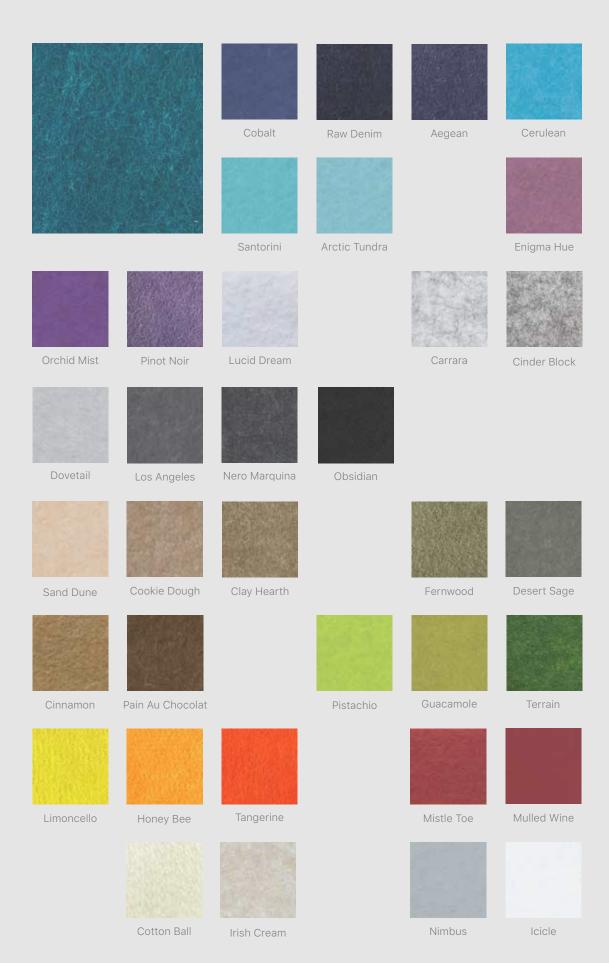
Main Contractor
Furntex Design & Contracts Pte Ltd

Acoustic Contractor Aural-Aid Pte Ltd

SIM University, now known as the Singapore University of Social Sciences (SUSS), is a publicly funded university in Singapore. It was established in 2005 as an autonomous university under the Singapore Institute of Management (SIM) Group.

12mm Polyx™ Baffles are installed on the ceiling of the newly renovated SIM Office. The baffles are designed to absorb and diffuse sound waves, reducing echo and improving the overall acoustic performance of the space. This is particularly beneficial in office environments where speech intelligibility and noise control are important.





BWF[™] | Spectre 1 | 100% Wool Felt | EN 13501-1 = Class B s1, d0

30277 Chocolate

27009 Taupe

Colours

30245 Cherry

30185 Terracotta 2023 Dark Brown Melange 30244 Orange 30361 Camel 26956 Mandarin 1019 Beige Brown Melange

26956 Mandarin 1019 Beige Brown Melange 1116 Pumpkin Melange 1028 Light Brown Melange

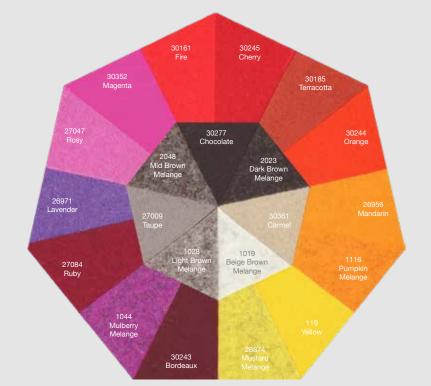
119 Yellow

26874 Mustard Melange

30248 Bordeaux

1044 Mulberry Melange

27084 Ruby 26971 Lavender 27047 Rosy 30352 Magenta



BWF | Spectre 2 | 100% Wool Felt | EN 13501-1 = Class B s1, d0

Colours

30412 Turquoise 2050 Black Melange
26978 Petrol Blue 30276 Black
30418 Azure 30290 Night Blue
26789 Dark Blue Raw White
30413 Violet 1017 Light Grey Melange

26762 Mild Grey

1613 Light Blue Melange 1024 Double Melange

3001 Double Brown Melange

30275 Fir-tree Green 26881 Moss Green

26878 Lime Green Melange

30251 Lime

1046 Light Green Melange 26934 Mint Green

