

Specification Guide

Groove™ Wall Tiles are made with advanced CNC-cutting technology. Each tile starts as a high-quality acoustic panel, then undergoes detailed cutting to create intricate geometric patterns. This process ensures clean, consistent lines across every tile. The modular format allows for creative freedom; tiles can be rotated and rearranged to form unique variations within a single design style, giving you endless possibilities for wall layouts.



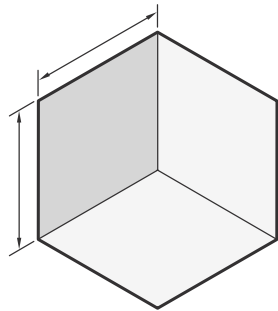
Groove™ Wall Tiles



Essential Information

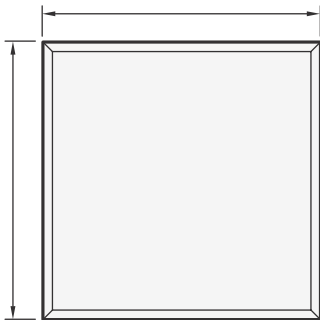
1. Space

What are the dimensions of the space you are designing?



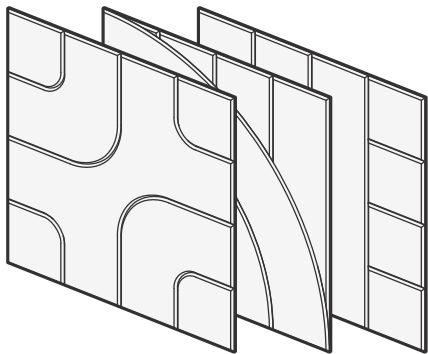
2. Size

What tile dimensions are available?



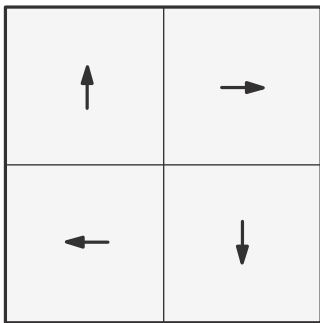
3. Style

What styles are available?



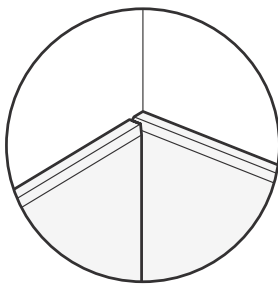
4. Layout

What orientations are possible?



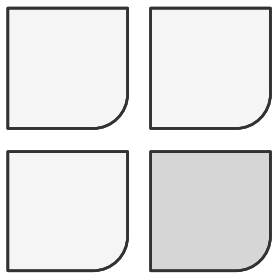
6. Detail Considerations

What install details should I consider?



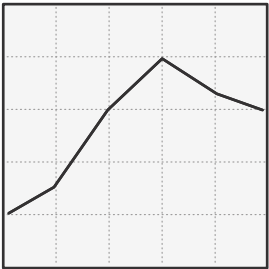
7. Colors

What colors and finishes are available?



8. Technical Information

What are the technical specifications?





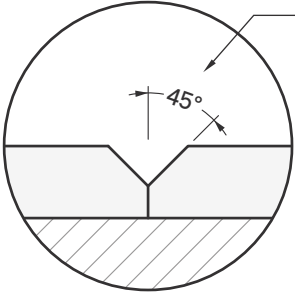
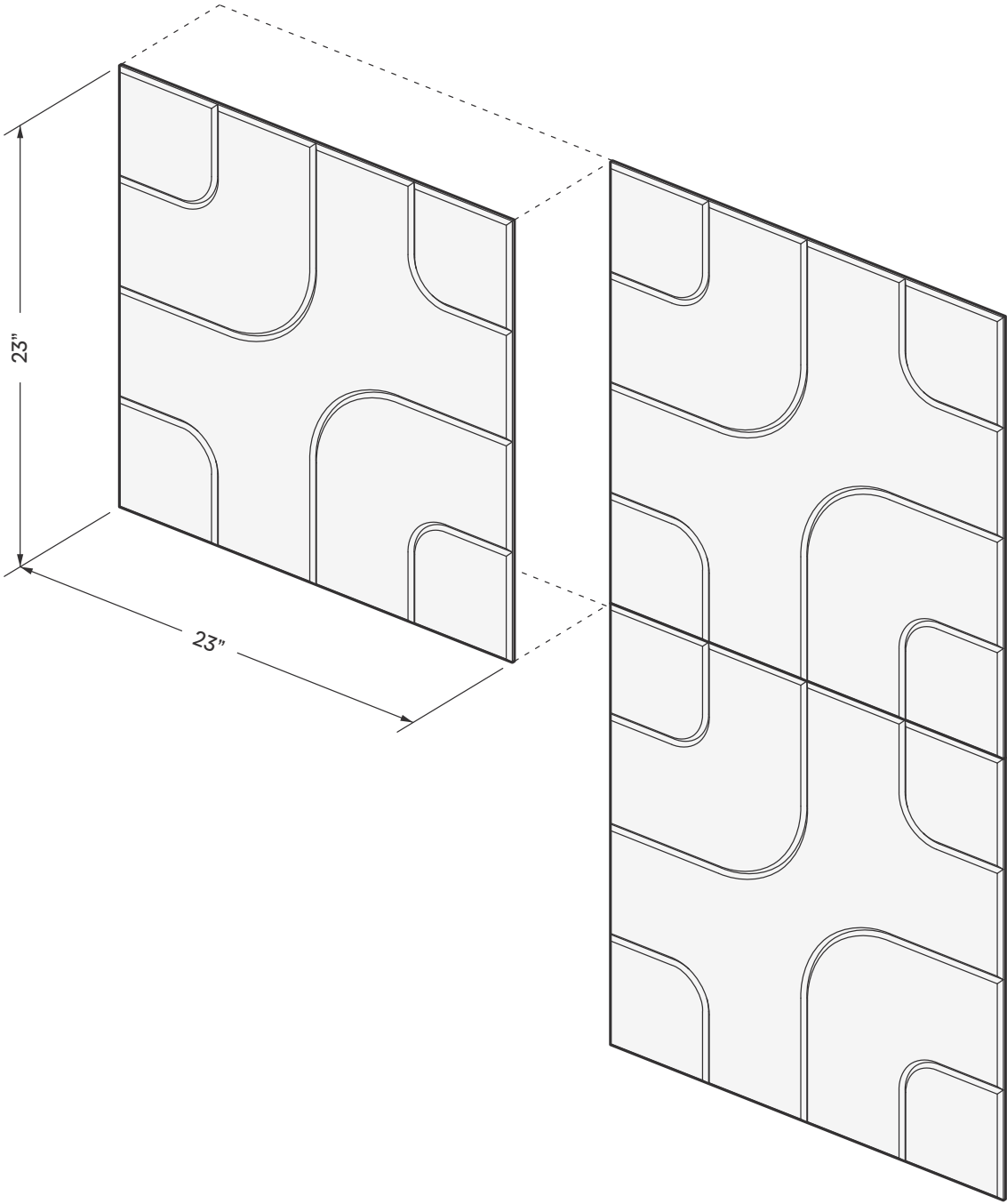
Standard Assembly

Tiles Dimensions

Tile Size 23" x 23" (584mm x 584mm)
Thickness 3/8" (9mm) and 1" (24mm)
See layouts page for added detail and options

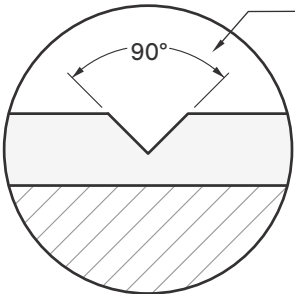
Connection

Peel-and-Stick All tiles come with pre-applied Peel-and-Stick adhesive backing as standard
See Product Installation Guide for further details



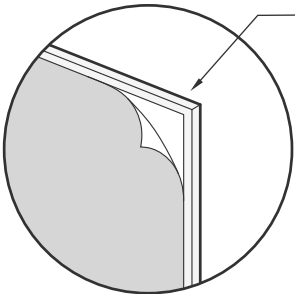
All tiles have a 45 degree beveled edge

Edge Detail



All Groove angles will be 90 degrees

Groove Detail



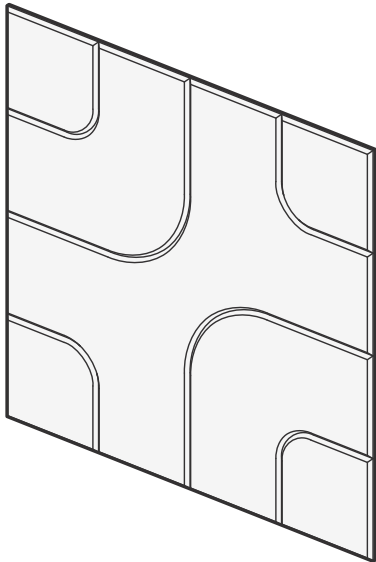
Peel-and-stick is pre-applied on the back of the tiles

Connection

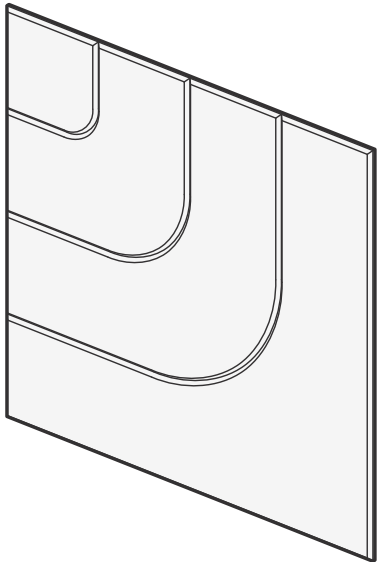


Styles Overview

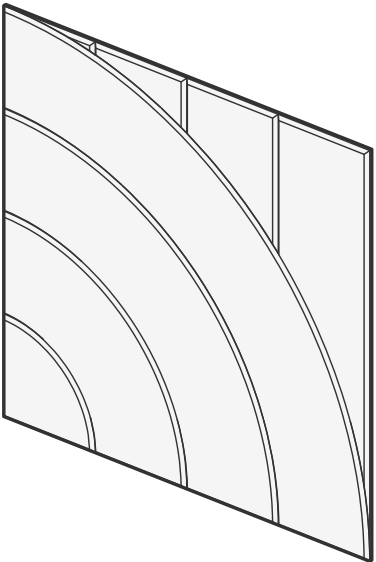
Intersect



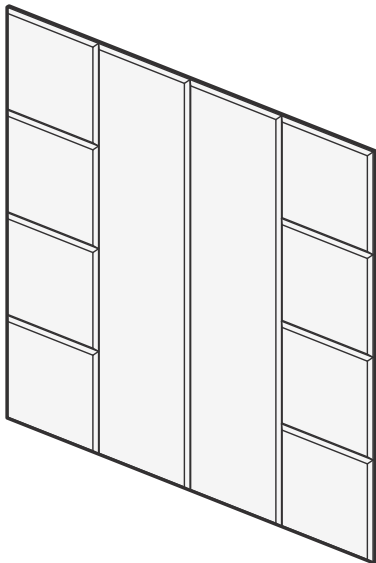
Track



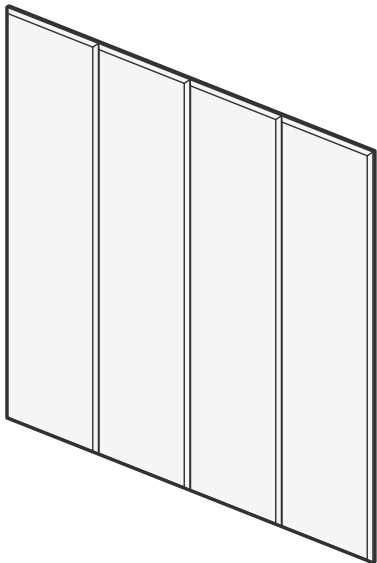
Sweep



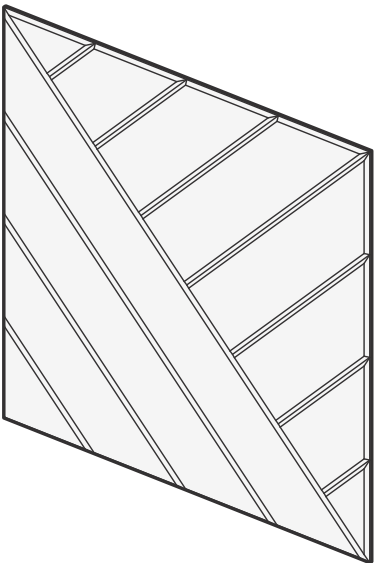
Weave



Rail



Switch

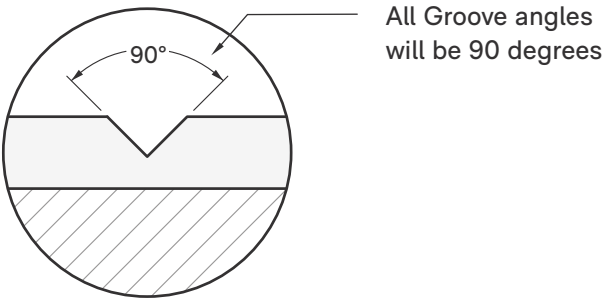




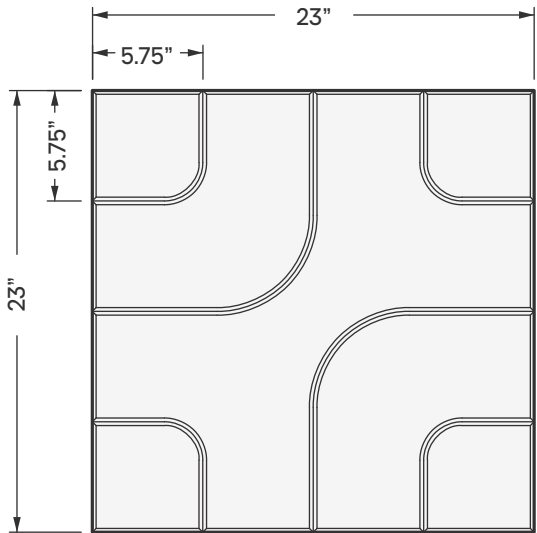
Intersect

- The Groove pattern on each tile maintains a 5.75" x 5.75" grid, allowing tiles to match horizontally, vertically, and when rotated
- There is more flexibility to install tile patterns as desired, these are suggested layouts to get you started

See [Combined Layouts](#) pages for further options

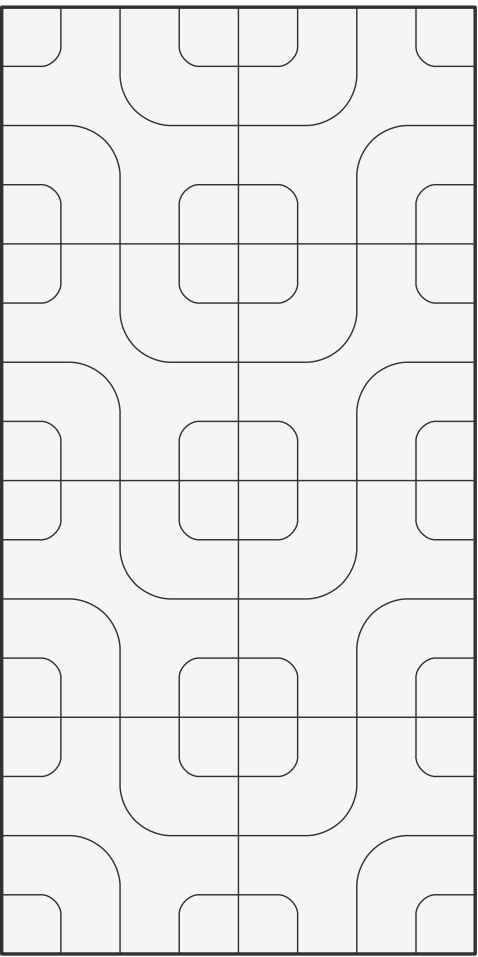
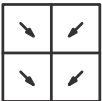


Tile Design



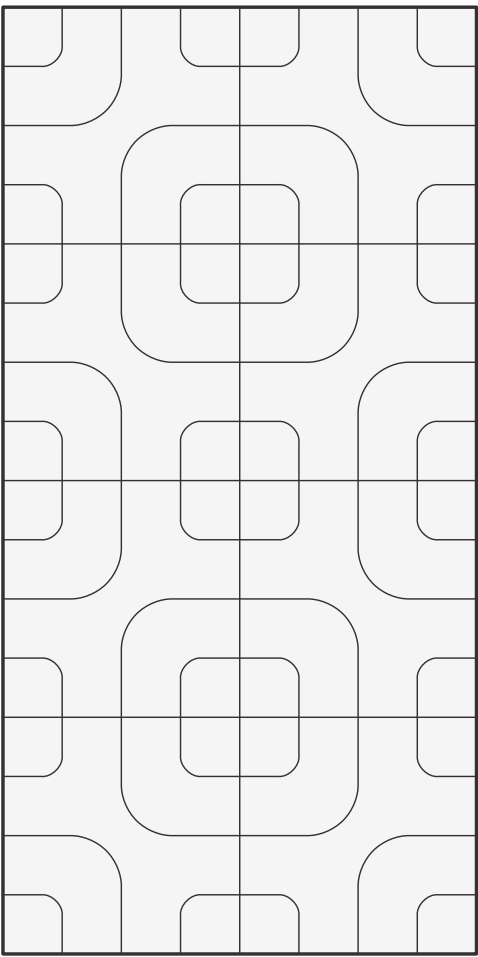
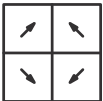
Layout 1

Representation of 8 tiles



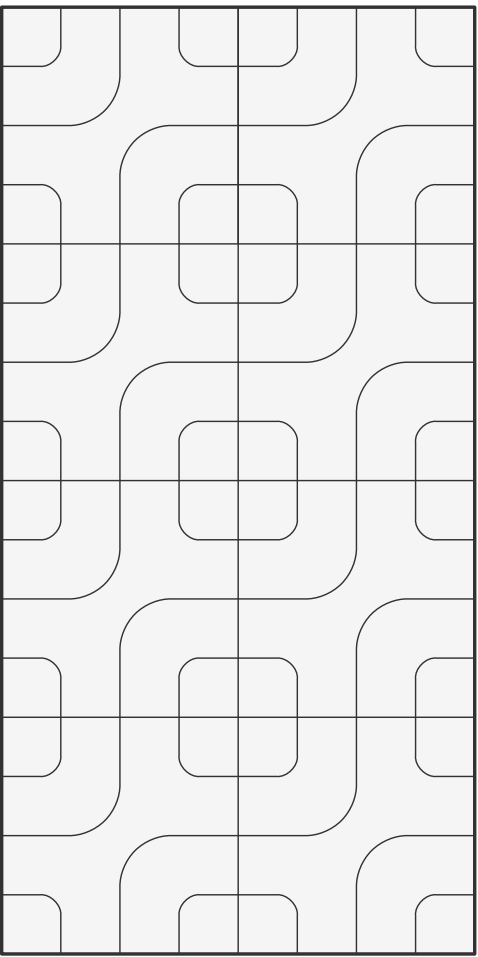
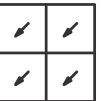
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles

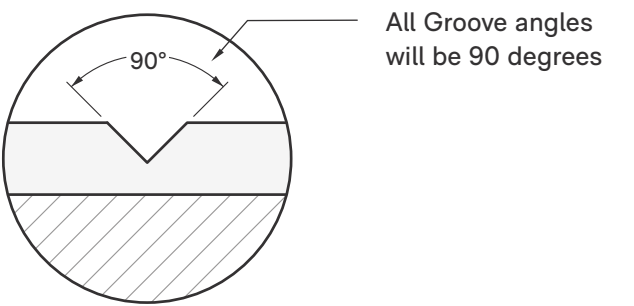




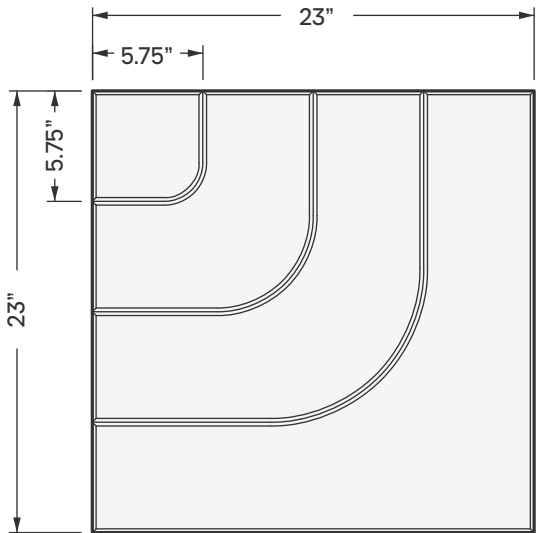
Track

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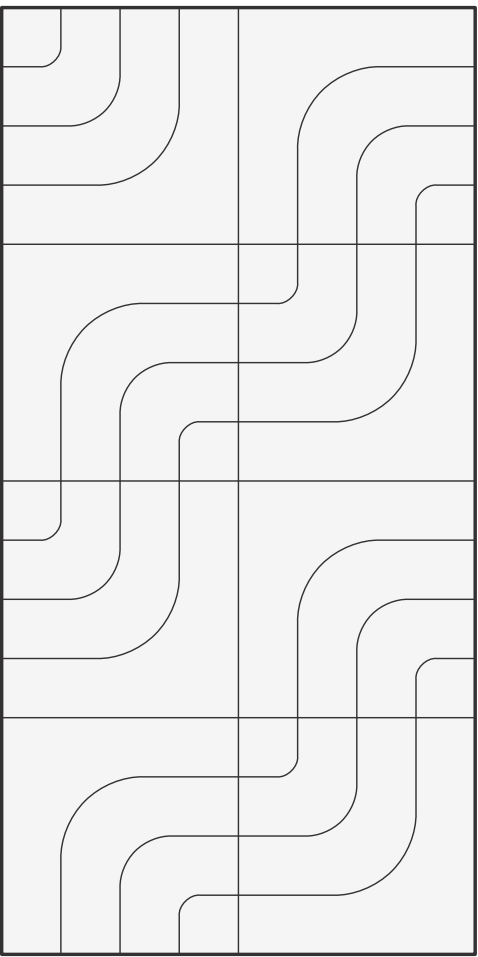
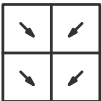


Tile Design



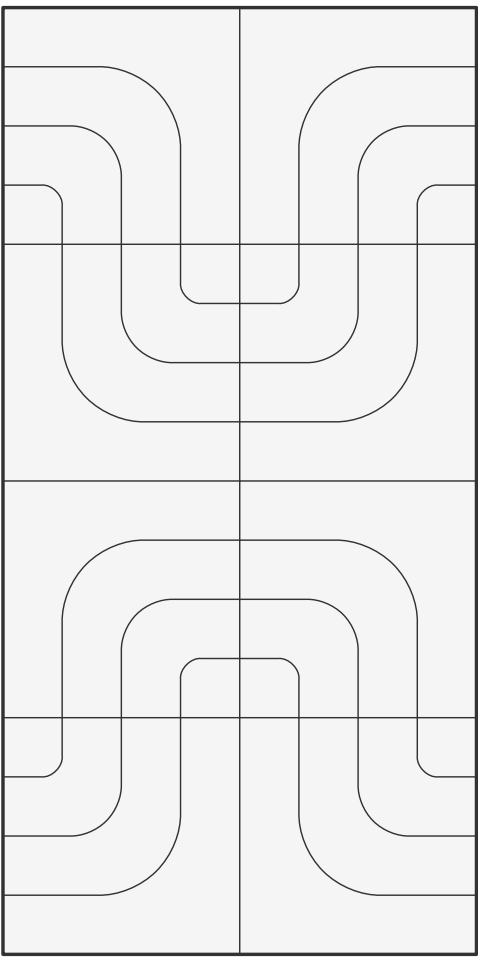
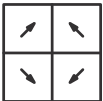
Layout 1

Representation of 8 tiles



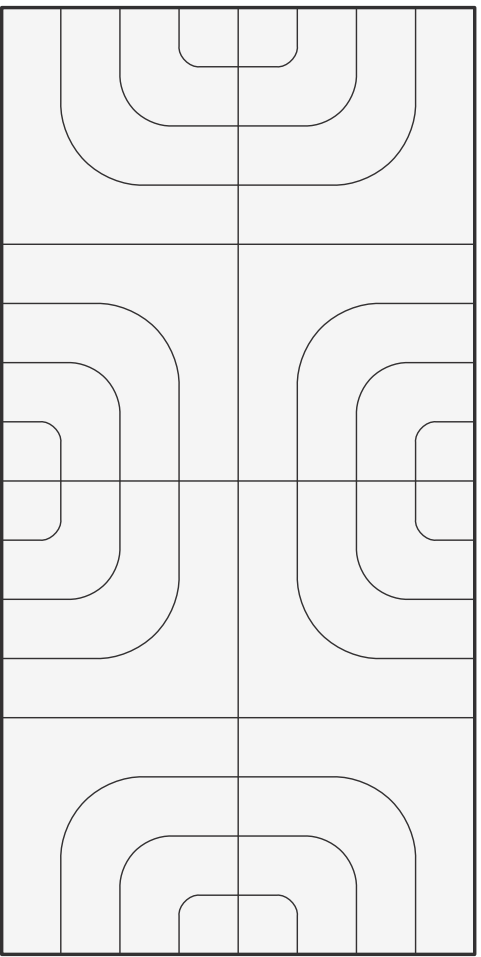
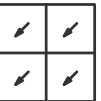
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles

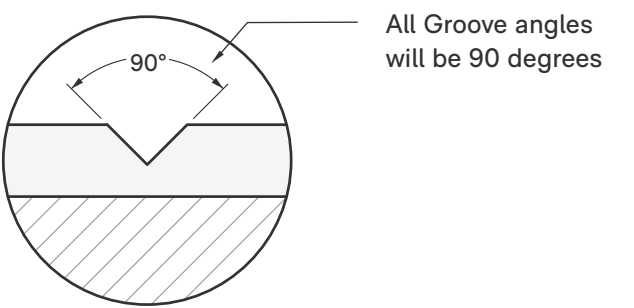




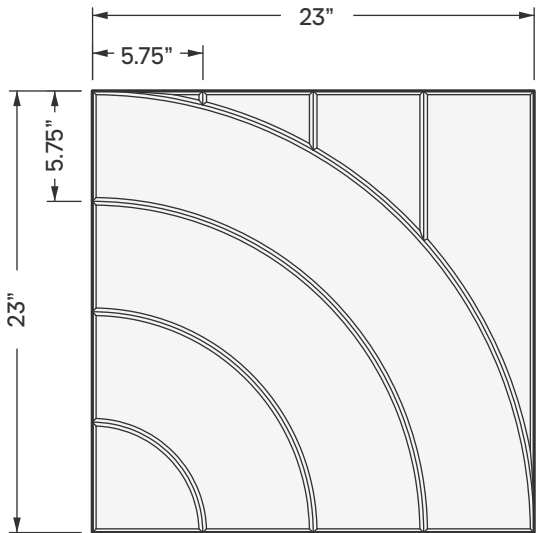
Sweep

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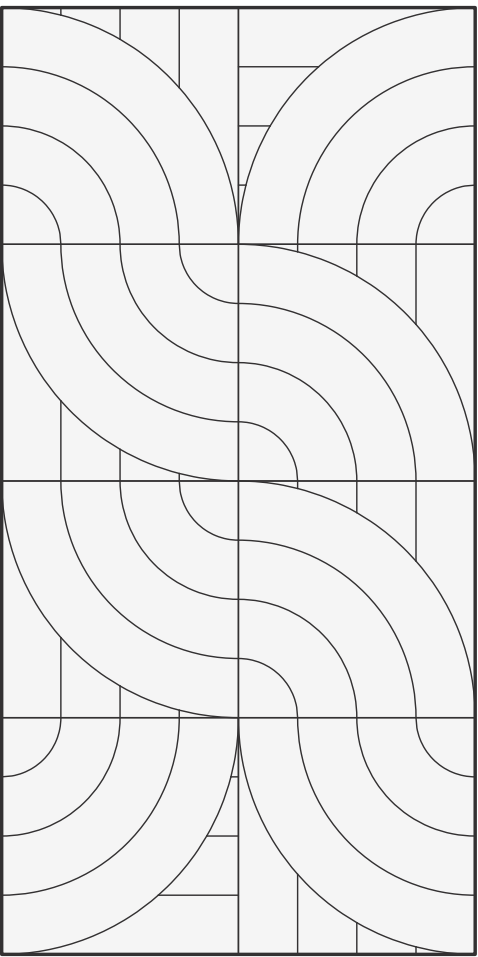
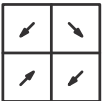


Tile Design



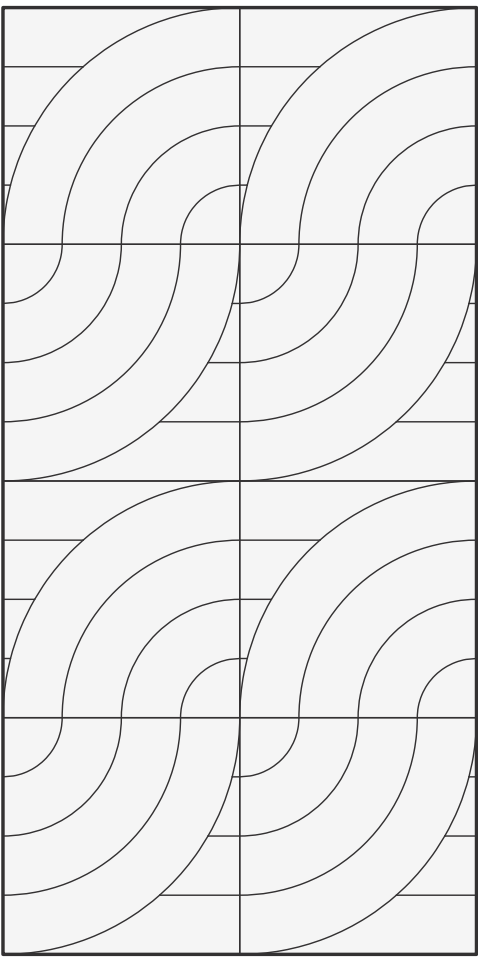
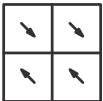
Layout 1

Representation of 8 tiles



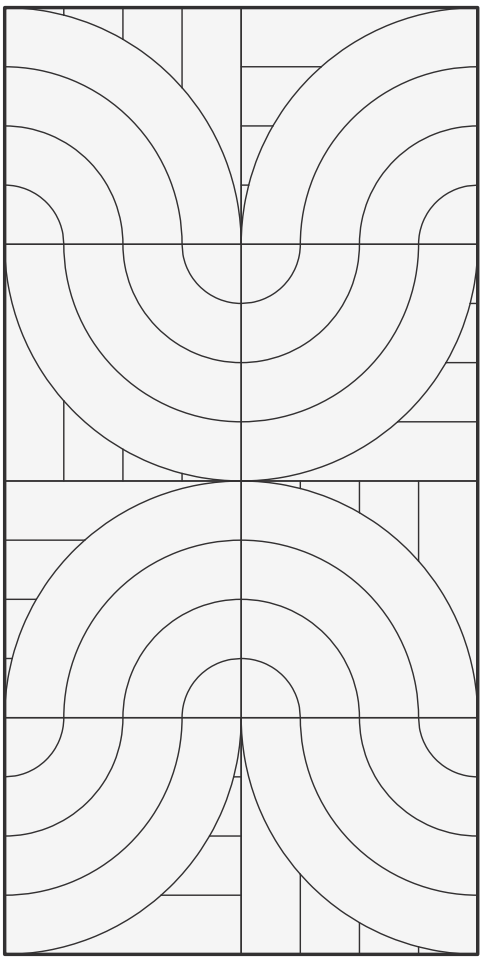
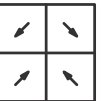
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles

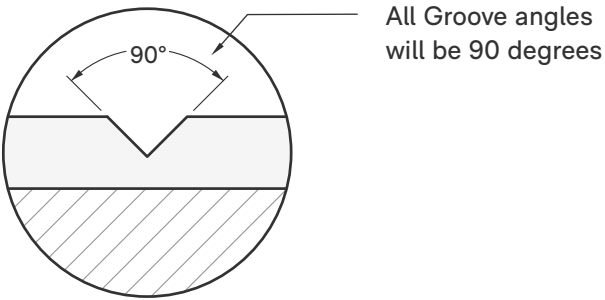




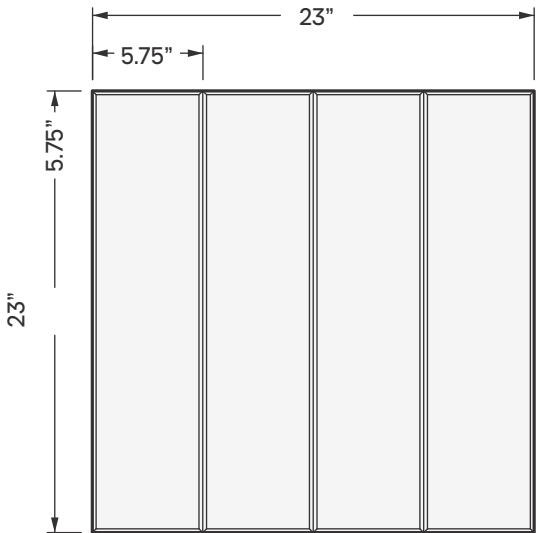
Rail

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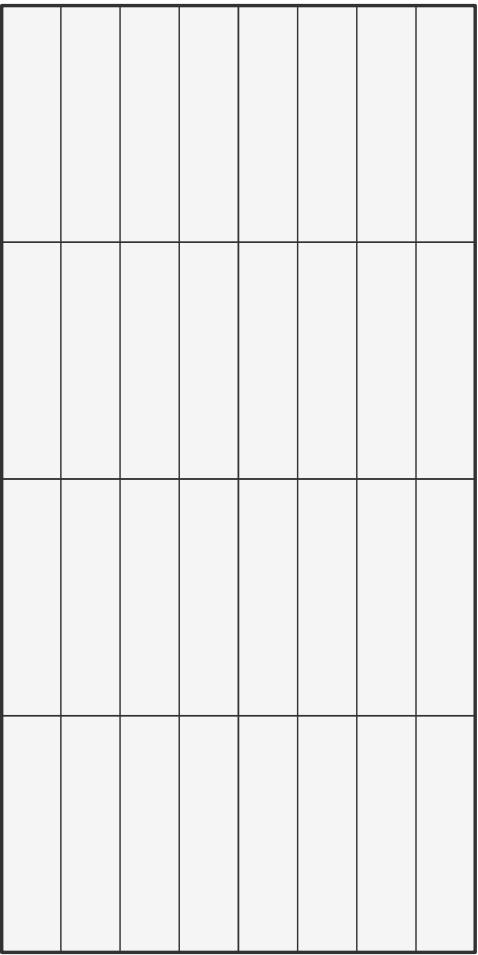
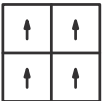


Tile Design



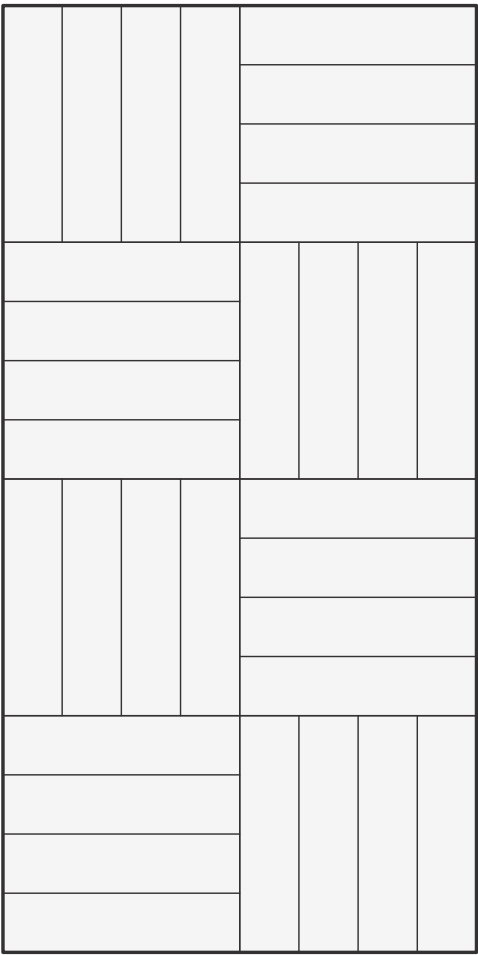
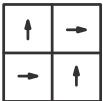
Layout 1

Representation of 8 tiles



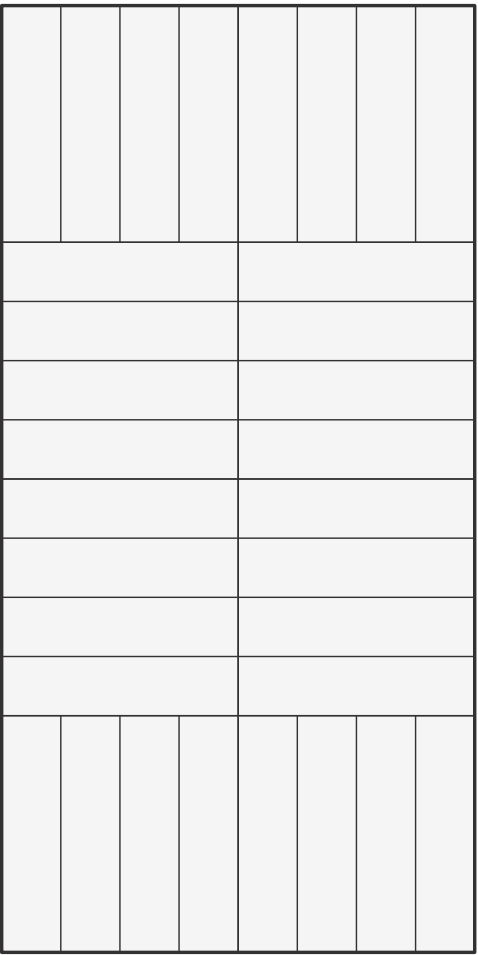
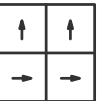
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles

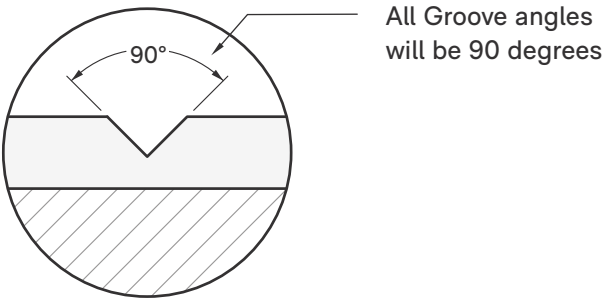




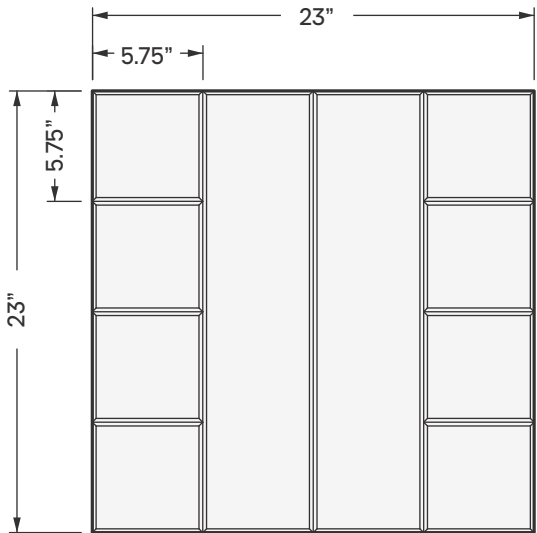
Weave

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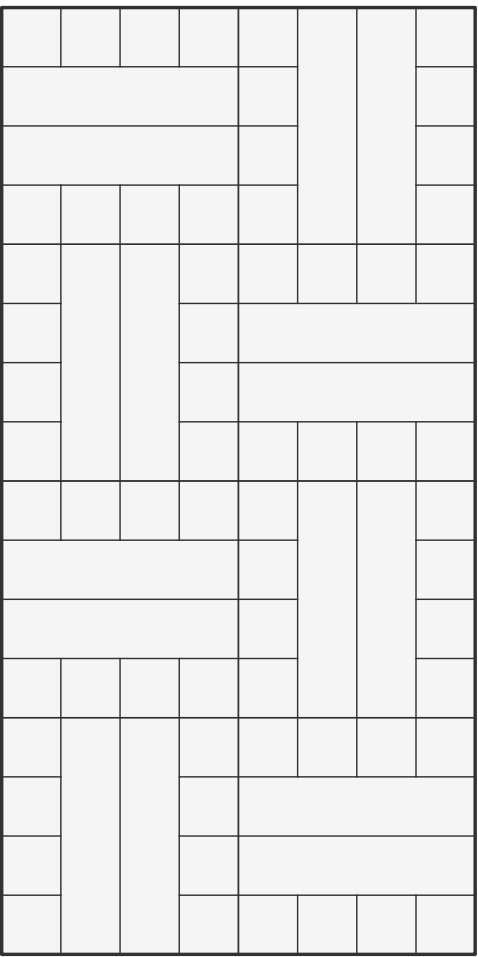
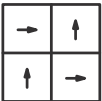


Tile Design



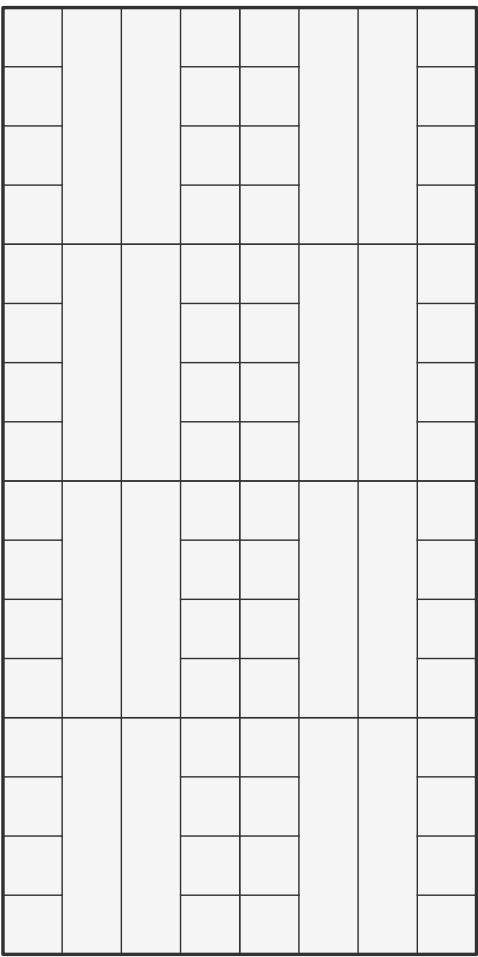
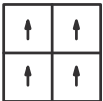
Layout 1

Representation of 8 tiles



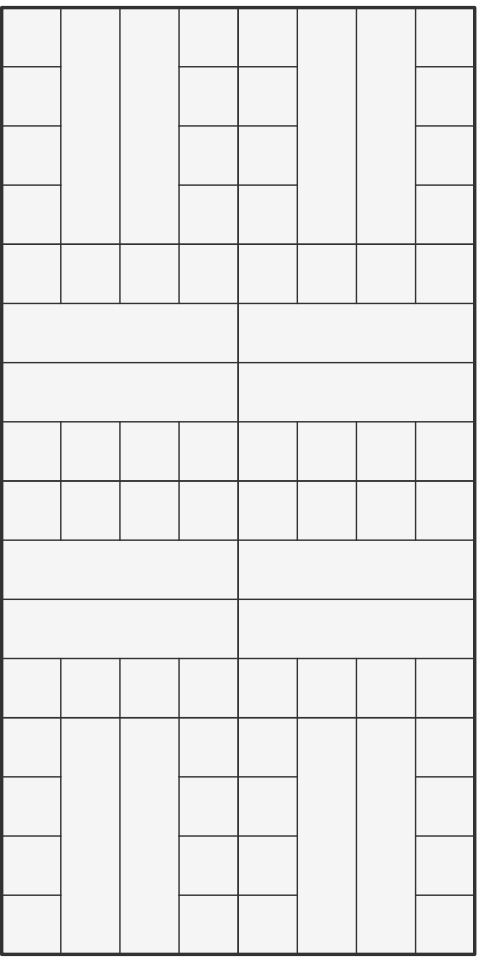
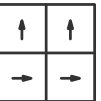
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles

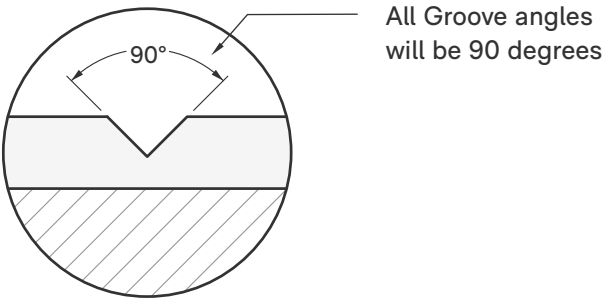




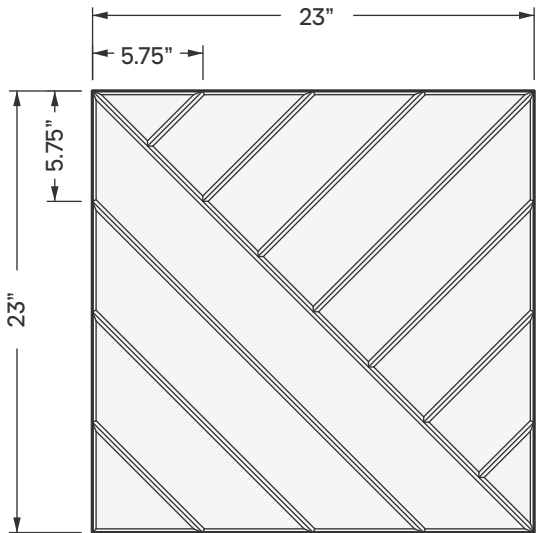
Switch

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See [Combined Layouts](#) pages for further options

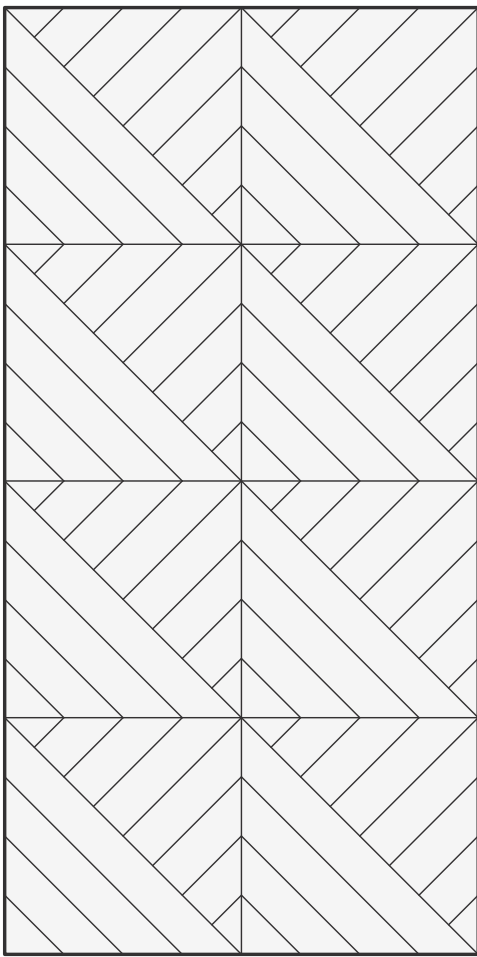


Tile Design



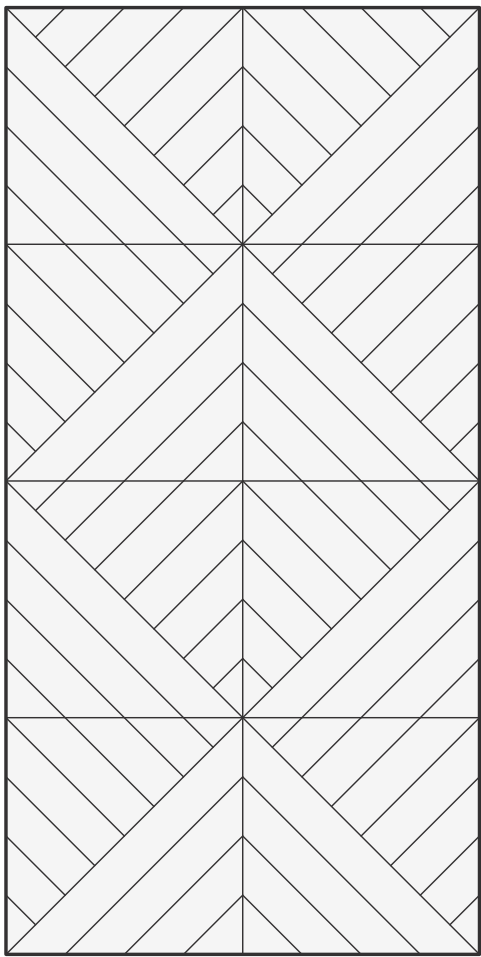
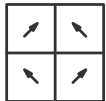
Layout 1

Representation of 8 tiles



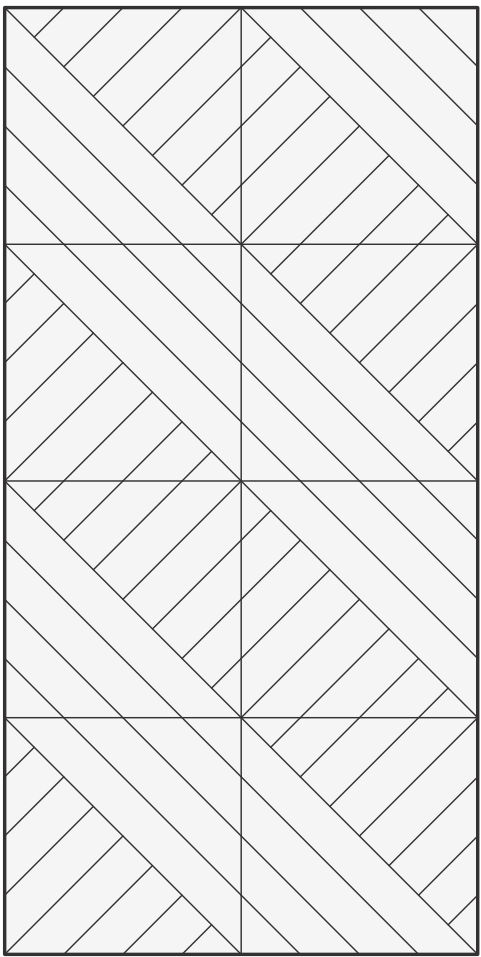
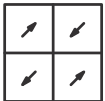
Layout 2

Representation of 8 tiles



Layout 3

Representation of 8 tiles





Combined Layouts

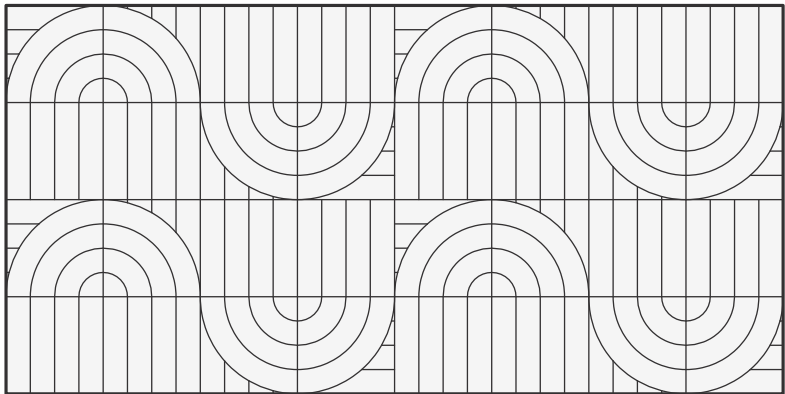
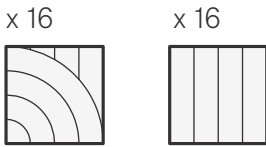
As all styles follow the same grid measurements, every style can be combined to create an extensive range of unique patterns.

Below are a selection of designs that can be produced, although more are possible.

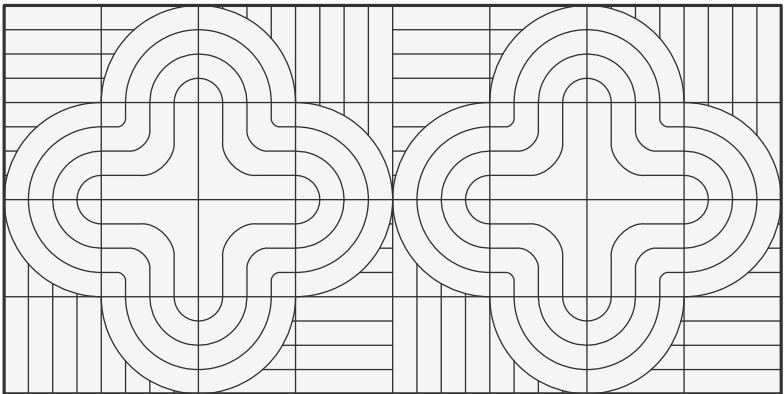
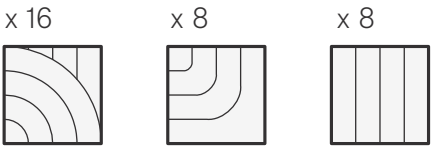
Each layout shows 32 tiles.

Quantities of each tile are shown above each layout.

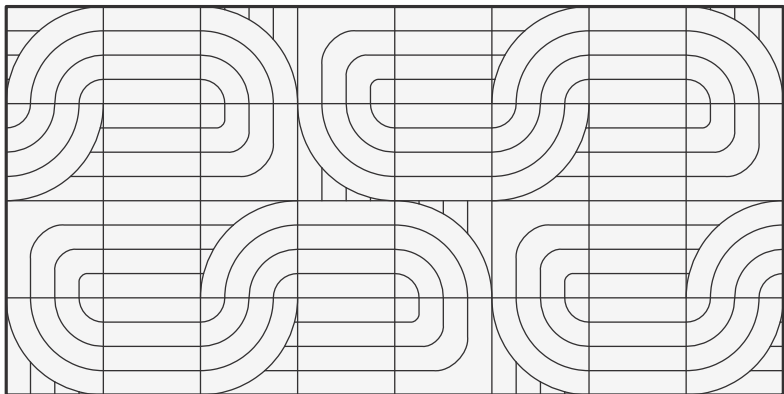
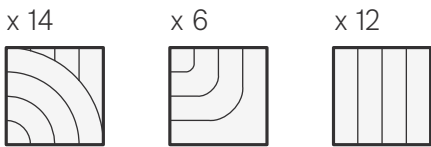
Sweep and Rail



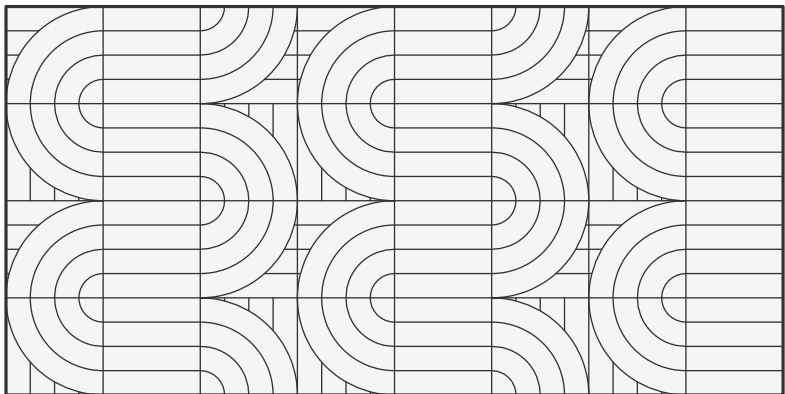
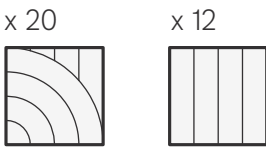
Sweep, Track, and Rail



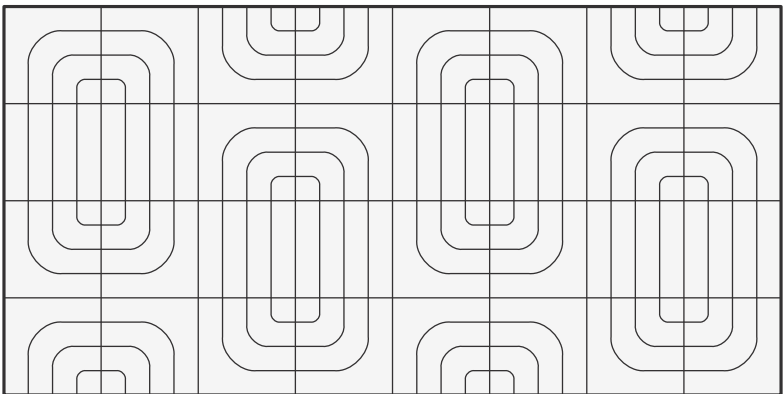
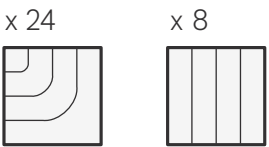
Sweep, Track, and Rail



Sweep and Rail



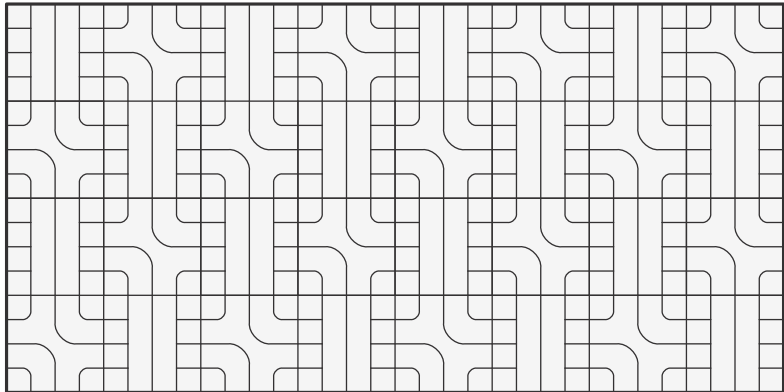
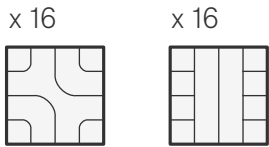
Track and Rail



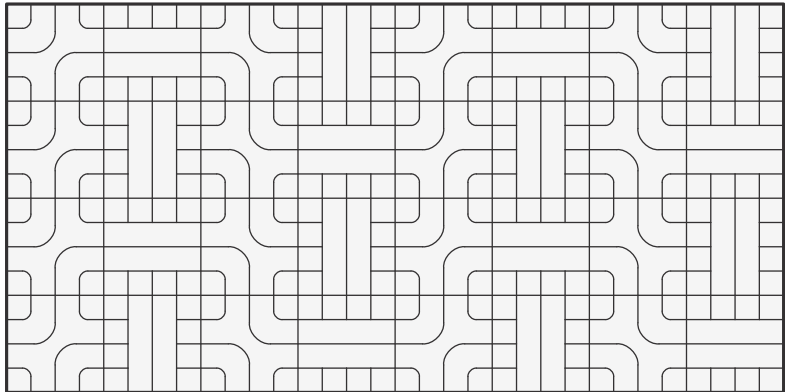
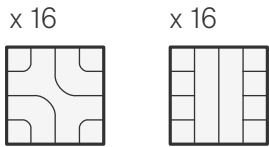


Combined Layouts

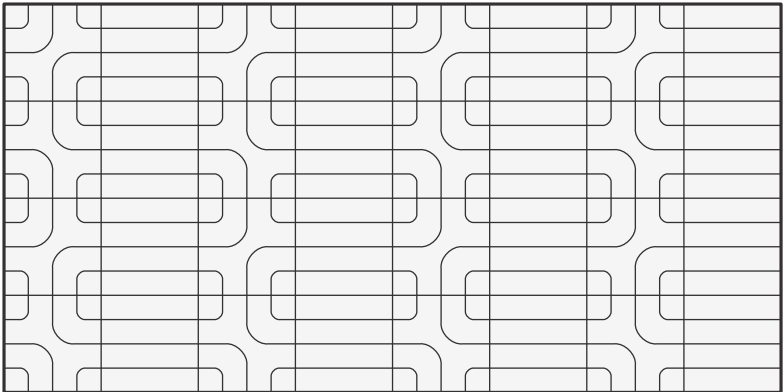
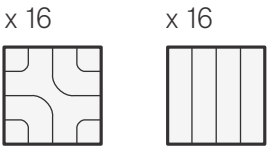
Intersect and Weave



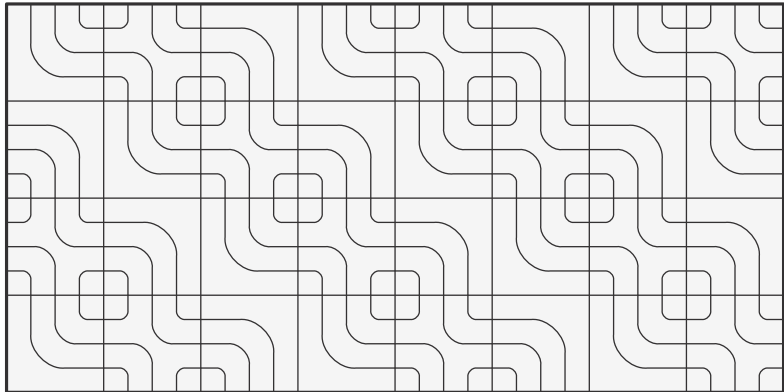
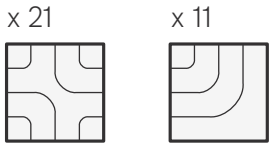
Intersect and Weave



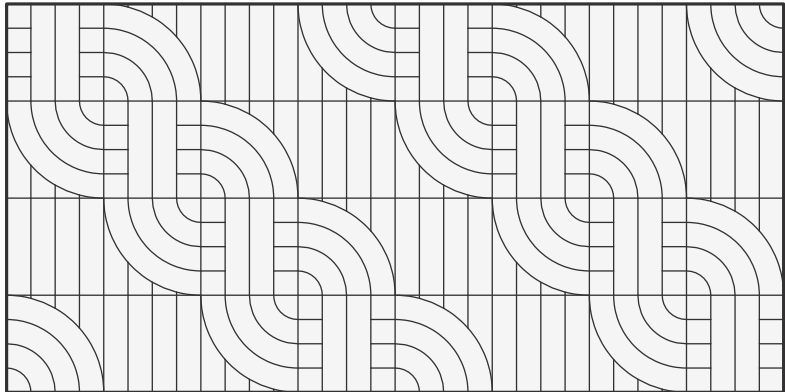
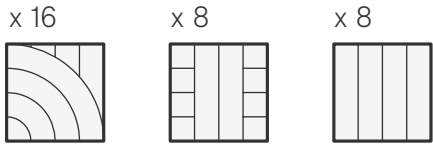
Intersect and Rail



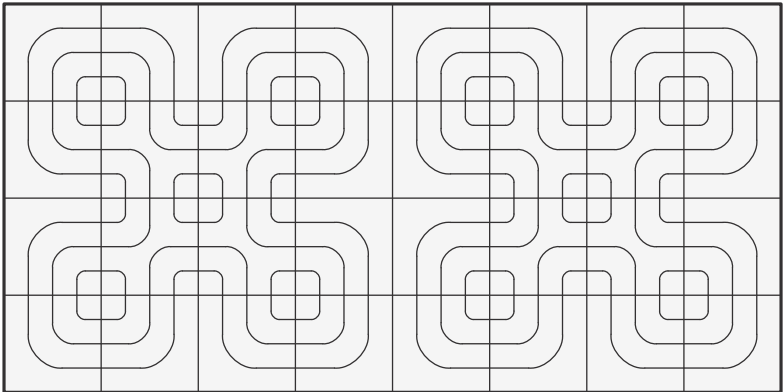
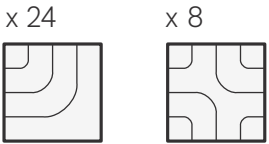
Intersect and Sweep



Sweep, Weave, and Rail



Track and Intersect

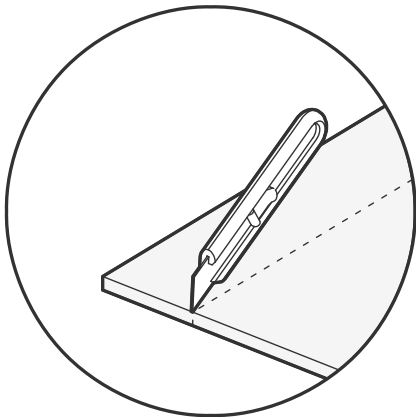




Detail Considerations

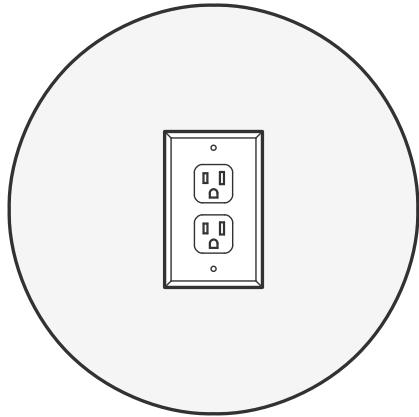
Trimming Tile

Groove Wall Tiles can be cut on-site if required.
We recommend using a snap blade knife and a straight edge.



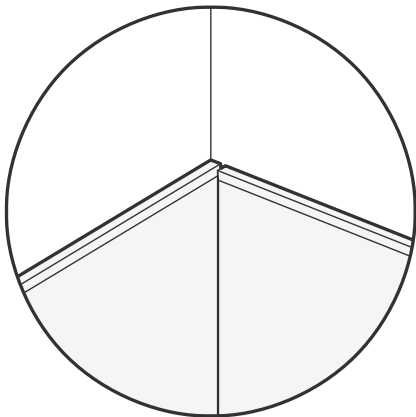
Power Outlets and Light Switches

Measure and cut out where the outlet would sit on the tile.
Apply the tile to the substrate and secure the outlet through the tile.



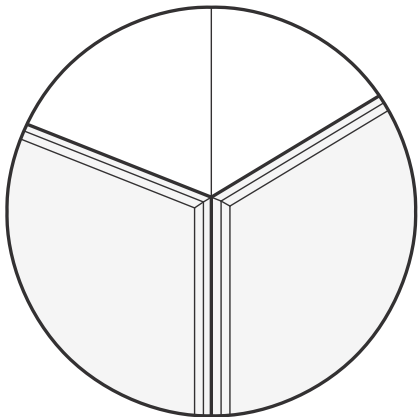
Internal Corners

We recommend a simple lap-join install. If the opposite end of your tiled wall has an exposed edge, we recommend starting the install from that end, and cutting the final tile to fit into this lap-join.



External Corners

Tile edges can be aligned to the wall edge when installed.
We recommend this treatment for both walls in a wrap-around detail.



For further installation details, please refer to the Groove Installation Guide.



Colors

Cube™ Colors

Groove panels are available in the full range of Cube™ colors.



Pavilion



Opera



Parthenon



Senado



Beehive



Terrace



Canyon



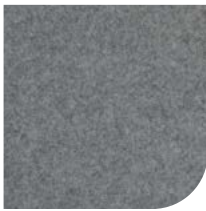
Sargazo



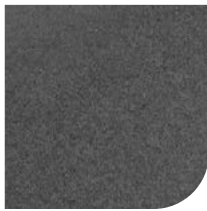
Savoye



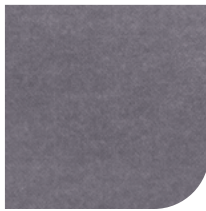
Rushmore



Flatiron



Herald



Cavalier



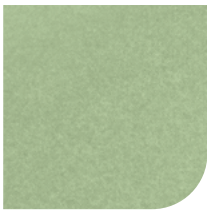
Falling Water



Muralla



Pinnacle



Acros



Highland



Gherkin



Tree House



Caspian



Empire



Petronas





Sound Materials

We're on a positive journey towards momentous change. It's about winning for the planet and its people, making a difference for healthy generations to come.

Sustainability is ingrained in everything we do, from fibre to finish. Our commitment to doing good now and in the future drives us to continuously evolve our practices, design with integrity, and take responsibility for the impact of our products. Our five sustainability pillars reflect this ethos, guiding our actions and shaping our decisions. Together, these pillars form a system that ensures our materials, products, and processes contribute meaningfully to a more sustainable world.



01



Climate change demands climate action

We are carbon neutral in everything we do.

02



Closing the loop

We are advocates for closing the loop on waste. We design with circularity front of mind.

03



Sustainable supply chain

We carefully select responsible suppliers and take action to mitigate unethical practices, and encourage good working conditions.

04



Supporting wellbeing in buildings

All our products are made using only safe materials. No harmful chemicals are present in our products.

05



Operating a business for purpose and profit

We strive to have a positive impact on our environment, our people, and the next generation.

Credentials

Sustainability isn't just a feature—it's a foundation. Our products are independently certified by trusted third-party certifications and labels to meet rigorous environmental and performance standards.

Our products also meet criteria for NABERS, WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project.



Declare.





Our Journey to Nature Positive

We want to make a material difference to the planet and its people. That's why we're not resting on achieving carbon neutrality across the organization and our products.

We're on a journey committed to Nature Positive, which ultimately delivers systems and products that contribute to biodiversity replenishment, carbon sequestration, and many positive environmental outcomes.

It's manufacturing that cares for human beings and the generations to come.

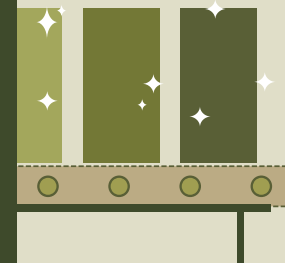
1967

Founded in Auckland, NZ, creating underfelt for the flooring industry.



1990

Established on-line recycling systems.



2020

Dematerialization project, which reduced raw material by 30% for core product.



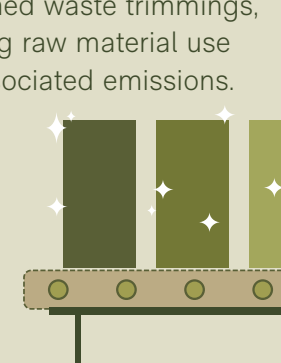
2017

First Environmental Product Declarations (EPDs) were published and started measuring GHG emissions.



2012

Reclaimed waste trimmings, reducing raw material use and associated emissions.



2021

We balanced all emissions from our acoustic products to zero.



2022

We balanced all emissions from our global operations to zero.



2025

We received the first NaturePositive+ Declaration in the construction industry for our first carbon negative product we launched in New Zealand. It uses a material with a -8.6 CO₂e carbon footprint.



Technical Information

Overview

NRC	0.30 - 0.70
Content	100% PET, min. 80% recycled
Form	Tile
Dimensions	23" x 23" (584mm x 584mm)
Thickness	3/8" (9mm) and 1" (24mm)
Origin	Fabricated in the USA

Acoustic Performance

Groove Wall Tiles are specifically designed to reduce and control reverberation and echo noise in building interiors.

Groove Wall Tiles are made from Cube™ as the base material.

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3/8" Cube		0.00	0.05	0.15	0.40	0.70	0.85	0.30
● 1" Cube		0.05	0.20	0.60	0.90	1.00	1.00	0.70

Fire Considerations

ASTM E-84-15a: **Class A rating**
(Tests RJ9445F-1a and RJ4479-1)
CAN/ULC-S102 (Test QA-2243F-3) 3/8" only

Fire test reports available on request.

20 Year Manufacturer's Guarantee

Product Specifications

- Hard body impact**There is no surface damage or penetration when subjected to hard body impacts. When adhered to 0.39" (10mm) plasterboard, the system can resist a 9 joule impact.
- Soft body impact**There is no surface damage or penetration when subjected to soft body impacts. When adhered to 0.39" (10mm) plasterboard, the system can resist a 70 joule impact.

- Microbial resistance (ASTM G21-15):**
Growth rating: 0
- Color fastness to light (ISO 105-B02:2014):**
Rating: 6
- Determination of colorfastness to rubbing (ISO 105-X12:2016):**
Dry assessment: 4 - 5
Wet assessment: 4 - 5
- Average % of water vapor sorption by weight after four days:** 0.4%

For care and maintenance guidance, refer to the Autex Acoustics Care and Maintenance Guide.

