



filzfelt • + submaterial





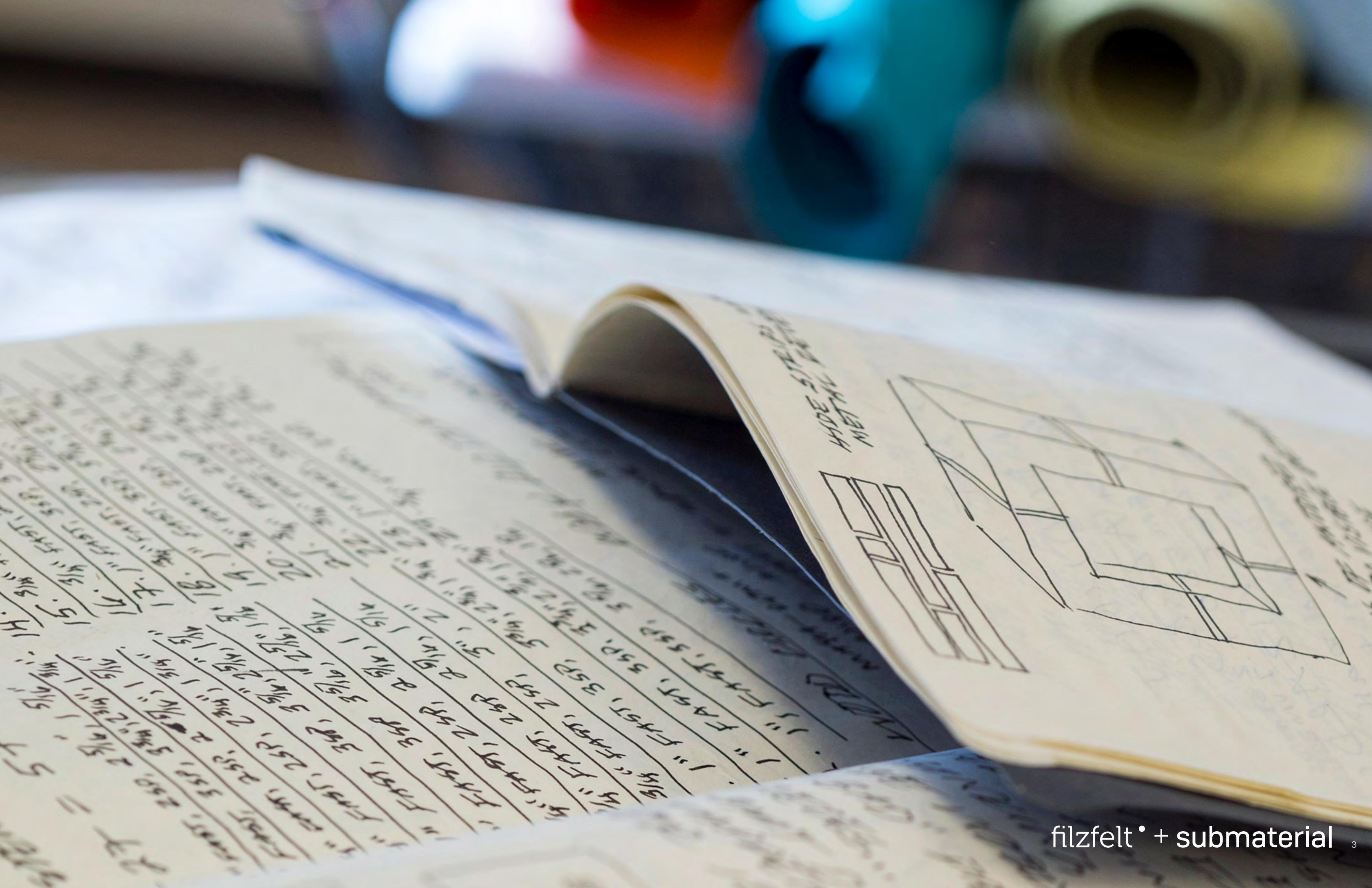
David Hamlin of Submaterial

## About Submaterial

On their surface, Submaterial designs have a clean, simple geometry balanced by unexpected warmth. The easy forms are precisely crafted in natural materials and yet every product also reveals something about the underlying design and fabrication process—an understandable and intuitive design language. This emphasis on natural materials and the scalable, modular qualities of the designs have placed Submaterial in a unique niche within the architecture and interior design community. Since the company was launched in 2006, Submaterial designs have been specified by a wide range of clients from global design and architecture firms to design-minded residential consumers.

Submaterial principal David Hamlin studied fine art at University of Colorado Boulder, leaving in 1989 to explore the design opportunities of the Pacific Northwest. For the next twenty years he embraced magazine cover illustration, furniture design, retail and merchandising design and finally entrepreneurship with the launch of his first company in 2001. Established in 2006, Submaterial relocated to the American Southwest and has enjoyed extensive success including a 2014 Interior Design Best of Year Award for the Figure No. 2 wallcovering.







# Natural Material Story

Manufactured in Germany—where the history of FilzFelt’s felt mill goes back 155 years—wool felt is one of the oldest man-made textiles. To produce felt, raw wool undergoes a wet felting process that involves matting, condensing and pressing the fibers. Felting, the natural characteristic of most animal fur to entangle and form matts, creates a textile superior to synthetic fibers. Natural characteristics include an inherent durability and resilience, excellent dye ability producing highly saturated colors, and natural flame resistance.


A high standard of dye processes in Germany and content of 100% wool make this product biodegradable and earth friendly. Felt also has a life cycle that is substantially longer than other synthetic materials. And since wool felt is made of sheep’s wool and viscous staple fibers, this means that after the felt product has been used or become worn out, it can be disposed of in an environmentally friendly manner as it is 100% biodegradable. In addition, due to the small piece size of the felt used in the Submaterial Collection, remnant material may be repurposed and the yield is highly efficient meaning that little-to-no waste material is produced.

On the other side of the European continent, the cork oak forests or montados are filled with medium-sized, evergreen trees along the Western Mediterranean. The bark of these unique trees regenerates itself and can be harvested every 15 to 18 years during its lifespan of 200 years. The forests yield approximately 340,000 tons of cork each year and Portugal is responsible for 55% of the world’s cork production. Cork has many unique natural characteristics making it lightweight, flexible, and naturally insulating while also being biodegradable, recyclable, and renewable.

The cork oak forests are one of the most important ecosystems in the world—on par with Amazonia, the African savanna, and Borneo—as they sustain over 200 animal and 135 plant species. In addition, these forests retain up to 14 million tons of CO<sup>2</sup> annually, contributing to the reduction of greenhouse gases. Composite cork is made from granulated post-industrial waste from cork wine stopper production or recycled cork that is mixed with resin. This mix is pressed into a mold and slowly heated and then sliced into sheets. The Submaterial Collection is backed with this composite cork to provide an acoustically absorptive, durable wallcovering system.





A wide-angle landscape photograph of a cork oak forest (montado) in Portugal. The scene features rolling hills covered in dry, golden-brown grass, dotted with numerous cork oak trees. The trees have dark, rounded canopies and are scattered across the slopes. In the foreground, there is a dense layer of low-lying green shrubs. The sky is filled with heavy, dark grey clouds, creating a dramatic and moody atmosphere.

“Using natural and sustainable materials such as wool felt and cork has always been a strong theme running through my product designs. They have a powerfully tactile quality and at the same time a simplicity and honesty that draws the hand and the eye.”

– David Hamlin, Submaterial



# Submaterial Collection

Taking advantage of the inherent thickness and rigidity of a natural, nonwoven textile—wool felt—the Submaterial Collection is a modular acoustic wallcovering system. In sixteen designs from sinuous organic patterns to repeated rectilinear forms, the patterns use varied thicknesses of felt in over sixty colors of wool felt to create customizable options. Made from a 100% natural, renewable material and low VOC adhesives, the composite cork-backed tiles or thermally-formed acoustic panels are covered in up to three thickness of wool felt to create depth and shadow or straightforward graphic patterning while providing soft sound absorption. These light, resilient, and sound softening tiles and panels assemble in standard patterns that are easy to install with standard wallcovering adhesive or Z-Clips. Submaterial acoustic wallcoverings provide an elevated, textural option and are meticulously crafted at the Submaterial studios in Albuquerque, New Mexico.



Horizontal Bar in 274 Senf with  
209 Bordeaux + 312 Lagune





## Bulb

Bulb's whimsical balloon-shaped concentric lines of 100% Wool Design Felt on edge conceal a workhorse acoustic substrate beneath. These smart acoustic panels butt together to minimize seams creating a continuous sound-softening surface that belies a lightweight, high-performing acoustic substrate. Customize the design beginning with over sixty colorways to choose from and finishing off with trim details to create a truly unique floor-to-ceiling wallcovering.



# Duet

Taking cues from beads of dew, the playfully random design of Duet features on-edge felt detailing punctuated by whimsical forms that curve and bow now and again. Bringing together clever and minimal seaming, easy installation, and an innovative, über thin acoustic board, this acoustic wall system is way more than meets the eye. Choose up to two colors of felt from oodles of standard colorways to create an uncommon installation of layered felt.



Duet in 175 Graphit + 300 Anthrazit



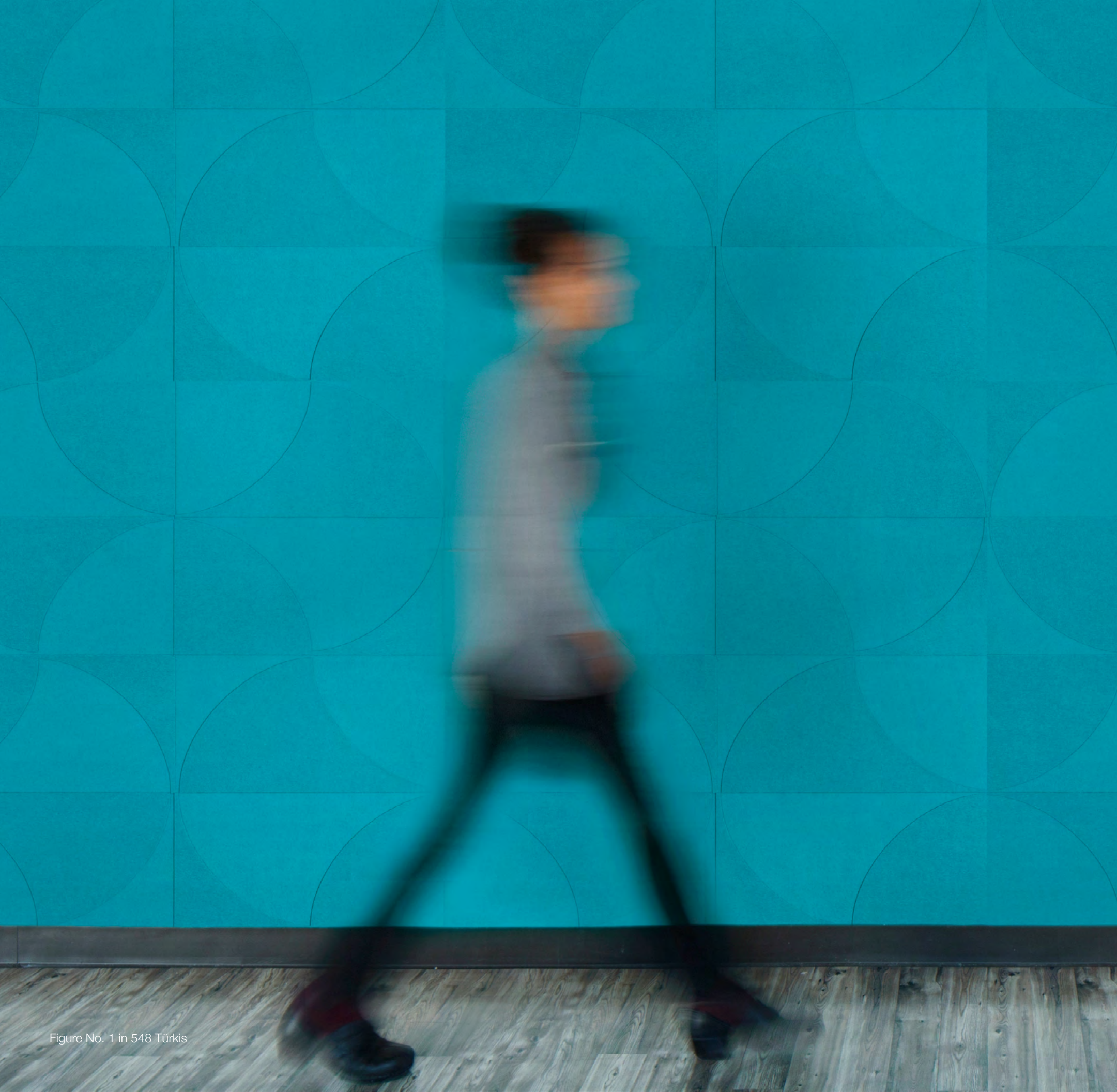


Figure No. 1 in 548 Türkis

## Figure No. 1

Figure No. 1 breaks free of the rectilinear box. This tile-based wallcovering system uses positive and negative versions of sinuous lines to create graphic, organic patterns and tactile dimension.



## Figure No. 2

Figure No. 2 is a pattern reminiscent of a whale's tail. The composite cork-backed tiles are covered in 3mm and 5mm felt to create depth and shadow.







Figure No. 3 in 116 Orange + 170 Asche

## Figure No. 3

Figure No. 3 is a symmetrical pattern of repeated arcs that gets a little groovy with its 1960s textile vibe. Each order includes equal numbers of four pattern elements that are arranged according to one standard configuration and attach to a wall surface with heavy-duty wallcovering adhesive.



# Figure No. 4

Figure No. 4 is ahead of the curve with its repeated quarter round sections in alternating felt thickness. Choose one color to keep the patterning subtle or play up the dimensionality with two colors (one 3mm and one 5mm) per wall.



Figure No. 4 in 102 Kirsche + 201 Rot





## Hex

There's no mistaking that the hexagon is one of our favorite shapes. Hex features an ever-so-slightly curved geometric pattern of repeated hexagonal shapes. These unconventional acoustic panels made from biodegradable and recyclable materials provide big-time sound softening and straightforward installation. Panels effortlessly butt together to create a floor-to-ceiling wallcovering that doesn't look like every other acoustic panel on the block.



# Horizontal Bar

Horizontal Bar really stacks up with projecting bars of felt that run horizontally. Choose three colors of felt to create a unique installation of randomly placed bands of felt and intentional pattern of seams. The scalable design of these floor-to-ceiling panels can be customized in size to suit each and every space and the ever-so-smart seaming allows for a continuous run of pattern, color, and all-natural texture.

Horizontal Bar in 274 Senf with  
209 Bordeaux + 312 Lagune







Imprint in 170 Asche

## Imprint

Inspired by the limestone hiking trails in New Mexico, Imprint features a textural and seemingly-random pattern created with on-edge detailing in alternating heights for a look that's down to Earth in over sixty colorways.



# Index Color Blocked

Index Color Blocked provides striking bands of eye-popping color. Choose from over sixty colors of 3mm Wool Design Felt that come together in a staggered design that has a pleasing random quality.



Index Color Blocked in 150 Weiß, 170 Asche, 175 Graphit, 300 Anthrazit + 312 Lagune





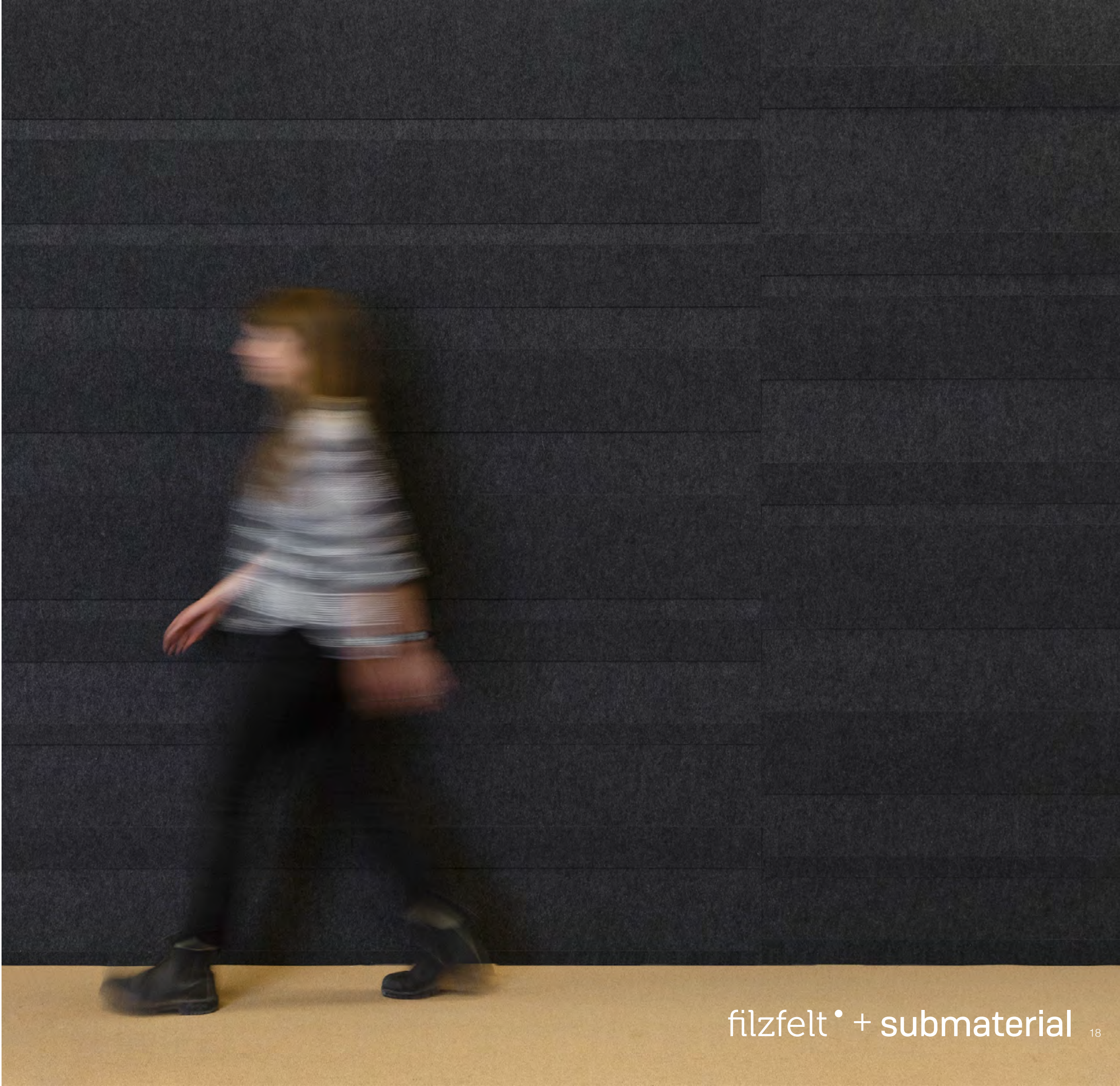
## Index Dimensional

Index Dimensional captures light and shadow in a pattern of repeated and staggered rectangles. Combining 100% wool felt with natural cork composite backing—two materials known for their acoustic properties—this tile-based wallcovering system installs easily with heavy-duty wallcovering adhesive.



# Index Linear

Thick, sound-softening wool felt and natural cork composite come together in Index Linear—a seamless, plank-style wall covering that adds linear emphasis to any space. As a vertical installation, Index Linear runs continuously from the floor to ceiling in heights up to 9’-0” (2.7 m). In a horizontal format, choose lengths up to 9’-0” (2.7 m). Planks are available in 2 in (5 cm), 4 in (10.2 cm), 6 in (15.2 cm), 8 in (20.3 cm), 10 in (25.4 cm), and 12 in (30.5 cm) widths and sold in either 3mm or 5mm felt thickness.







Index Solid in 156 Loden, 713 Kiwi + 732 Farn

## Index Solid

Index Solid enables customizable graphic, textural patterning with a single repeated element of 2'-0" x 6" (61 x 15.2 cm) tiles. Over sixty colors of 3mm Wool Design Felt allow bold to subtle compositions using the standard tile.



# Index Wide

Index Wide creates a bold and sculptural patterning with a decisively random feel. The larger 3'-0" x 1'-0" (91.4 x 30.5 cm) tile size makes for quicker coverage and the height variation between the wool felt strips brings a strong linear and dimensional quality to the design.

Index Wide in 308 Petrol, 423 Hellgrau, 425 Taubengrau, 540 Ozean, 626 Azur, + 686 Enzian







## Rain

Rain takes its cues from streaming raindrops and creates an unexpected design of diverging lines that is anything but ordinary. Choose up to two colors of felt from over sixty standard colorways to create an uncommon installation of layered felt. This felt covering masks an innovative acoustic board that is über thin, lightweight, and moisture-resistant making this system work hard and look good too.



# Ribsy

Just like its name, Ribsy wallcovering has a deep ribbed texture created with thick wool felt strips oriented on edge in alternating heights. This acoustic tile-based system creates wall-to-wall installations with subtle color variation between felt strips to create rich depth and texture. The easy-to-install 6-inch x 24-inch tiles are available in over fifty colors of natural 100 percent wool felt on a cork backing. The tiles provide a Noise Reduction Coefficient (NRC) of 0.35 to work its sound-softening magic in any space.





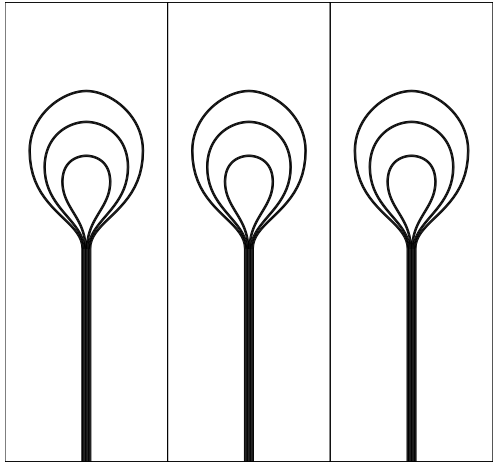


Vertical Bar in 415 Schilf with  
150 Weiß + 686 Enzian

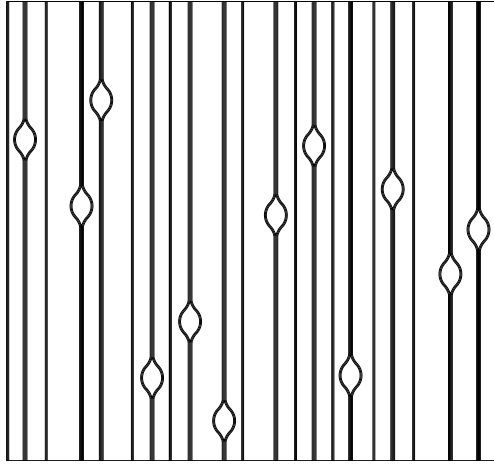
## Vertical Bar

Vertical Bar pushes past average with extra-long projecting bars of wool felt extending vertically. These seemingly simple bars feature three colors of felt selected from over sixty colorways so the color combination possibilities go on and on. Finish the edges and floor with trim to match plus this clever acoustic panel system contributes to LEED and is 100% VOC free to boot.





Bulb



Duet

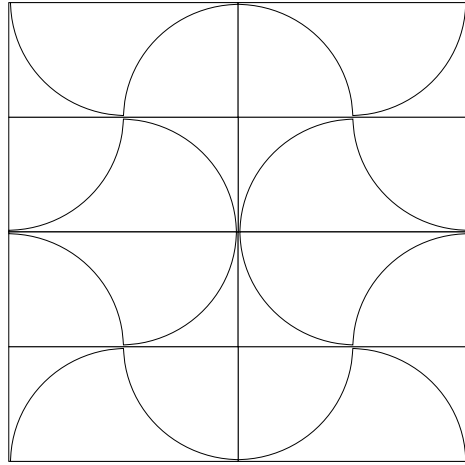


Figure No. 1

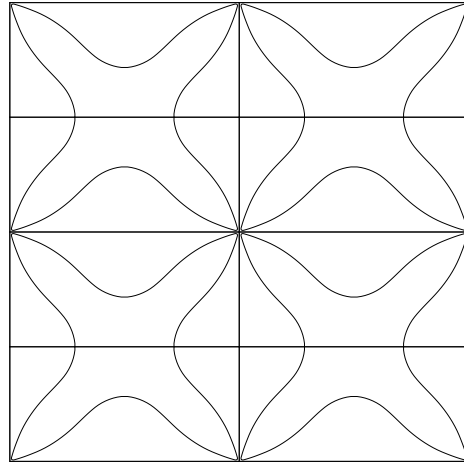


Figure No. 2

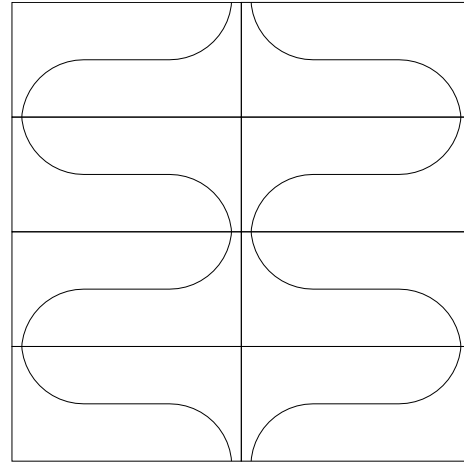


Figure No. 3

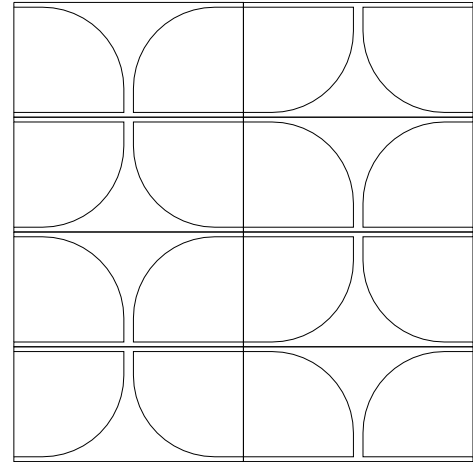
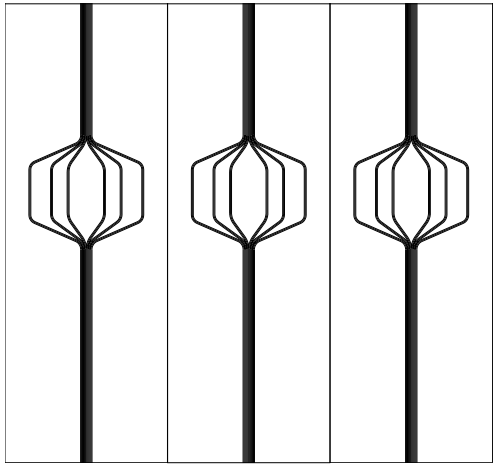
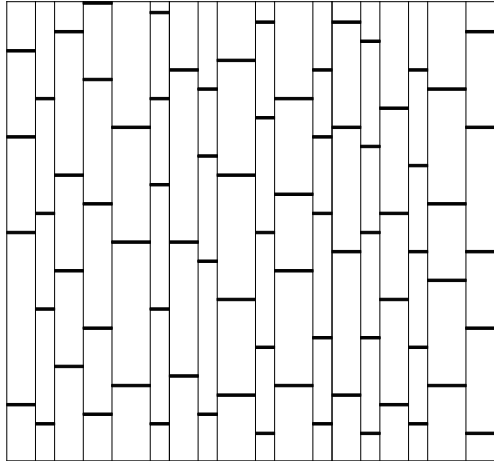


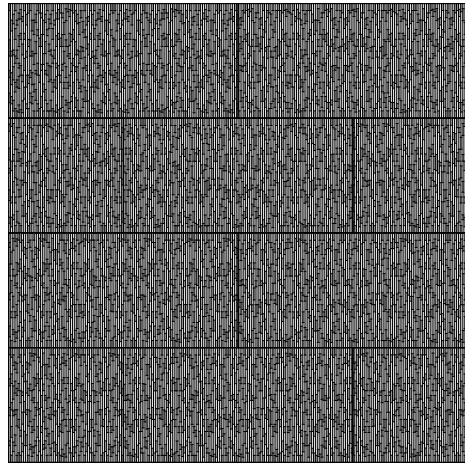
Figure No. 4



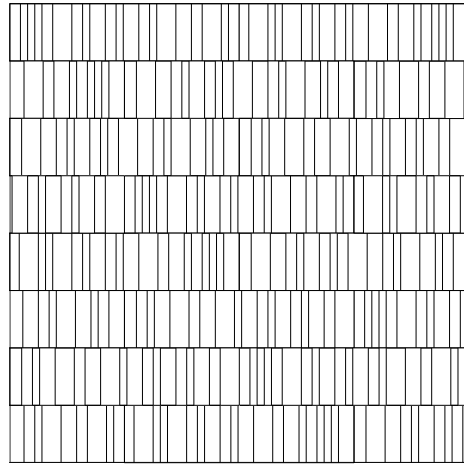
Hex



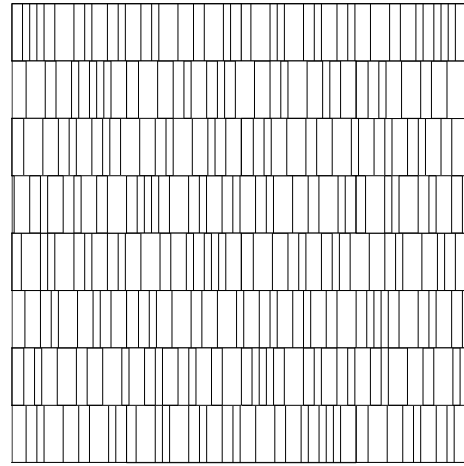
Horizontal Bar



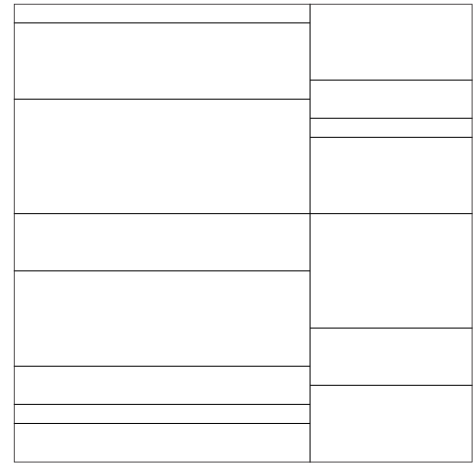
Imprint



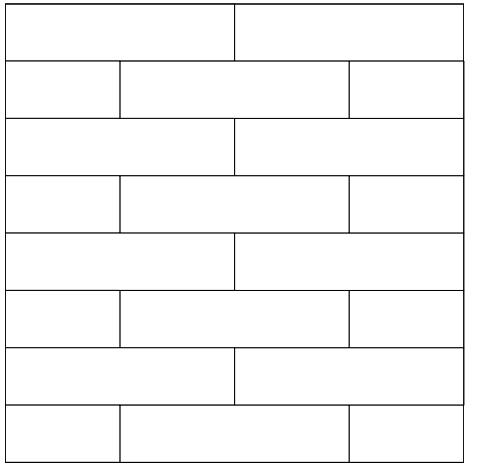
Index Color Blocked



Index Dimensional



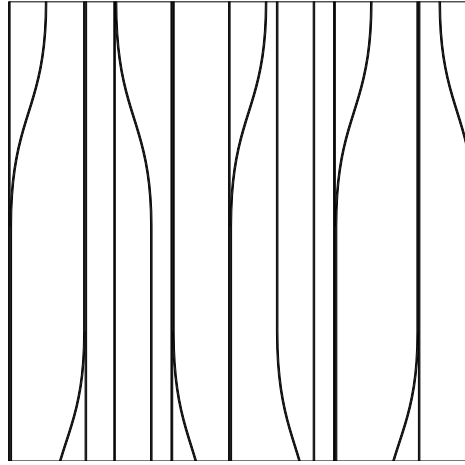
Index Linear



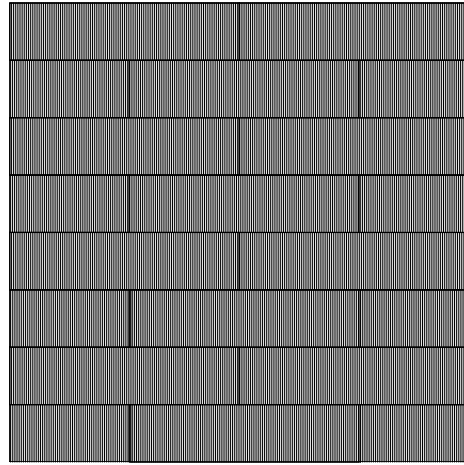
Index Solid



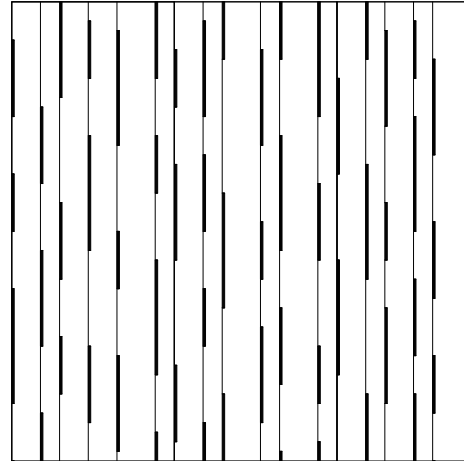
Index Wide



Rain



Ribsy



Vertical Bar



filzfelt • + submaterial

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