

3D Tiles

Thermoforming PET Felt



ABOUT US

Local Manufacturing

We are a longstanding supporter of Türkiye design and manufacturing, with over 90% of our textiles and acoustic products made locally.

Our History

In 1917, Gentuğ began as a textile-focused venture, but over the years, we've evolved beyond woven fabrics, transforming into leaders in decorative acoustic products. Our journey symbolizes a fusion of textile heritage and cutting-edge acoustic solutions, captured in the from looms to acoustic landscapes, our evolution reflects deliberate strides in design innovation. We've embraced a future where our commitment to uniqueness thrives in modern, decorative acoustic solutions, reshaping interior aesthetics.

Today, Felt Vibe® stands at the intersection of textile legacy and acoustic ingenuity. Our story is one of transformation, where past threads seamlessly weave into the vibrant tapestry of our acoustic future: decorative acoustic panel, sound and thermal insulation.

Felt Vibe® global design, local production

Our state of the art research and development facility is supported by a team of industrial designers, product engineers and acousticians. With 3 direct production facilities, extensive sales and specification teams, and local support available in multiple countries across 4 continents, we strive to deliver an innovative experience through our products and solutions.

Felt Vibe® produces design driven architectural acoustical solutions. Our raw material offers the highest standard in acoustical performance and is fully customizable offering solutions ranging from ceiling, walls, dividers, and furniture applications. We work with architects, interior designers, fit-out and refurbish companies, and global brands directly. We supply all of our local partners with raw material made from PET plastic and organic fibers. Due to the nature of our material, we can provide a wide array of design options, color choices, and bespoke print capabilities.



Düzce Factory

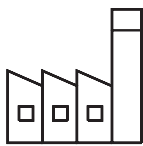


Gerede Factory



Tuzla Factory

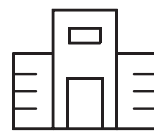
Business Overview



3 Factories
in Gerede, Tuzla, and Düzce



500 Employees
in Total

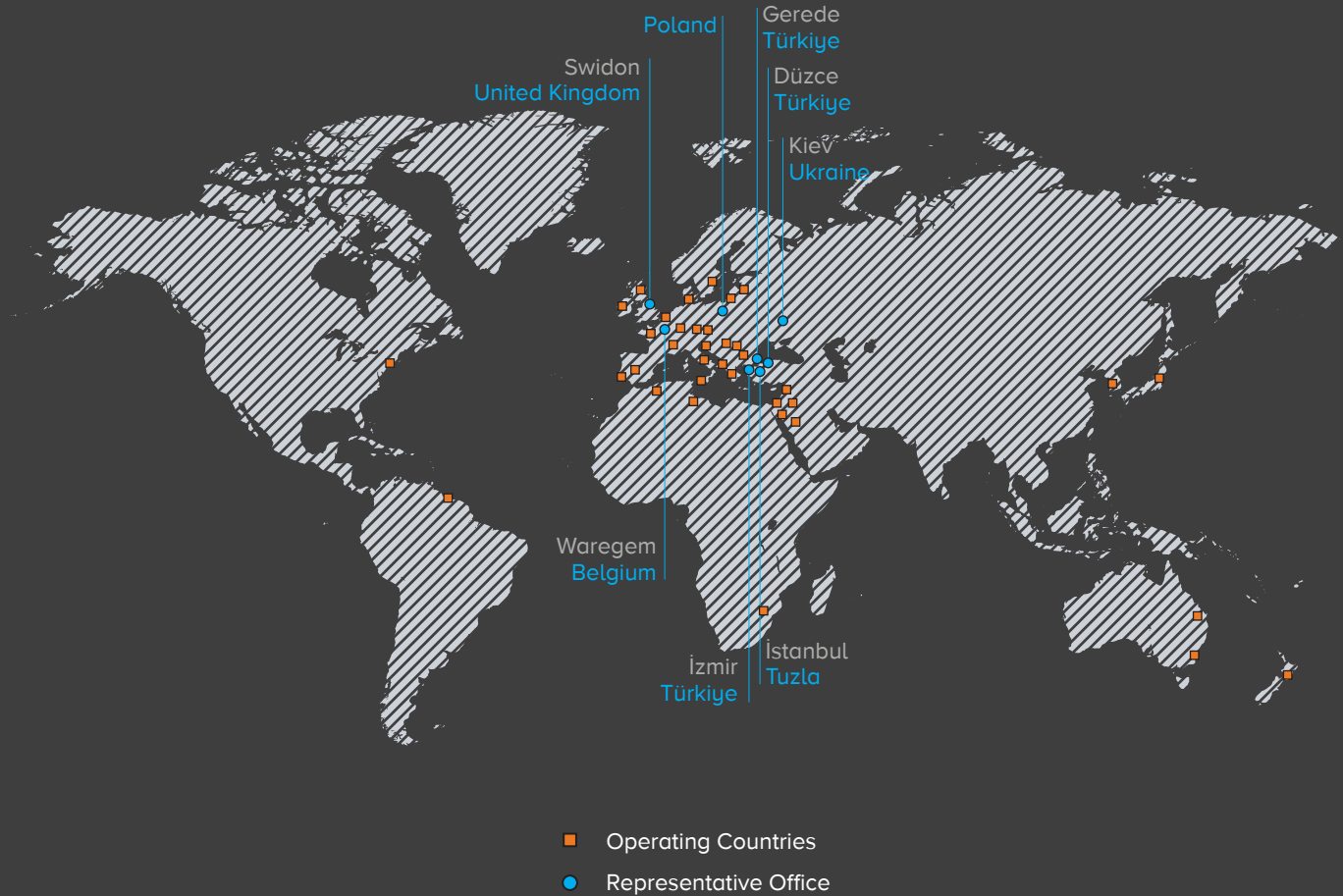


55.000 m²
Closed Production
Floor Spaces

In 68 Countries

Gentuğ Textile continues to contribute to our national economy by exporting its world-class products to more than 68 countries with exemplary customer service.

Australia, Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Irak, Ireland, Israel, Italy, Japan, Jordan, Lithuania, Libya, Macendonia, Malta, Netherlands, New Zealand, Poland, Portugal, Queensland, S. Africa, S.Korea, Scotland, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Suriname, Turkey, Ukraine, UAE, USA...



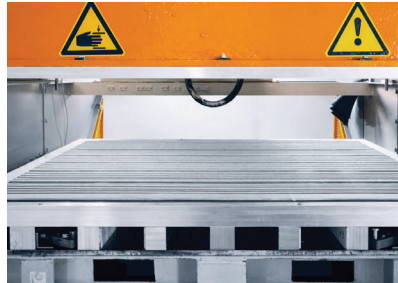
OUR PRODUCTION

Experienced staff and a full range of equipment allow us to create even the most complex designs. This is why our customer base is constantly growing: our flexibility, reliability and high quality are a credit to our production department.



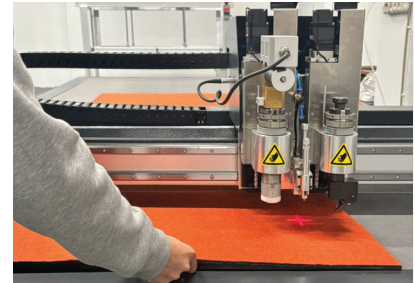
PET FELT PRODUCTION MACHINE

Using our PET felt production machine, we manufacture high-quality felt panels from fibers derived from recycled PET bottles. The process includes fiber forming, needle punching, and thermal pressing to achieve durable, consistent, and functional PET felt products suitable for acoustic and insulation applications.



WE THERMOFORM PET FELT

We are experts on PET felt and how it behaves during processing. When heated, it becomes extremely pliable and can be given unique shapes using the right machines. We have of presses: vacuum so that we can achieve the best results in line with our customers' expectations.



WE PERFORM CNC CUTTING

We offer computer-controlled cutting services that allow for highly detailed shapes and precise patterns. Our process ensures efficient material use with minimal waste, while enabling components to be easily combined. The system also supports cutting at various angles, making it ideal for V-grooved and chamfered edges. This technology provides extensive design flexibility and virtually limitless possibilities in form and structure.



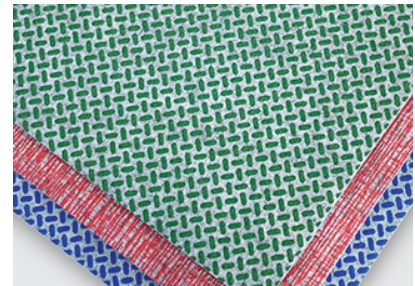
INKJET PRINTING MACHINE

We offer inkjet printing services on PET felt panels. Using our advanced inkjet printing technology, patterns, graphics, and custom designs are applied with high resolution, clarity, and long-lasting quality. This process allows PET felt panels to be customized both functionally and visually to meet project-specific requirements.



EMBOSED PINSONIC PET FELT

We apply geometric shapes on to acoustic felt with the pinsonic printed technique. With our 3 different decorative and modern pattern collections, we provide a sophisticated character and dimension layer to acoustic felt panels.



3D TEXTURE PET FELT FABRIC

Experience personalized acoustic panels with 3D Texture PET Felt Fabric, offering a range of colors and collections for ARKETA Panel materials.

3D Texture PET Felt Fabric, allows for creative, stylish transformations with adjustable material thickness for enhanced acoustic performance.

A new life for bottles

Plastic overproduction is one of the most pressing global challenges of our time. We produce plastic at an unprecedented scale, discard it far too quickly, and struggle to recycle it effectively. The consequences are visible across our planet.

- Every minute, the equivalent of one garbage truck filled with plastic is dumped into the oceans.
- Today, for every five fish in the sea, there is already one plastic bottle. By 2050, plastic is expected to outweigh fish in our oceans.
- In Europe, only around 30% of plastic waste is recycled. The remainder is incinerated or released into the environment.
- Globally, more than one million plastic bottles are sold every minute, many of which are used only once.

Turning Waste into Value

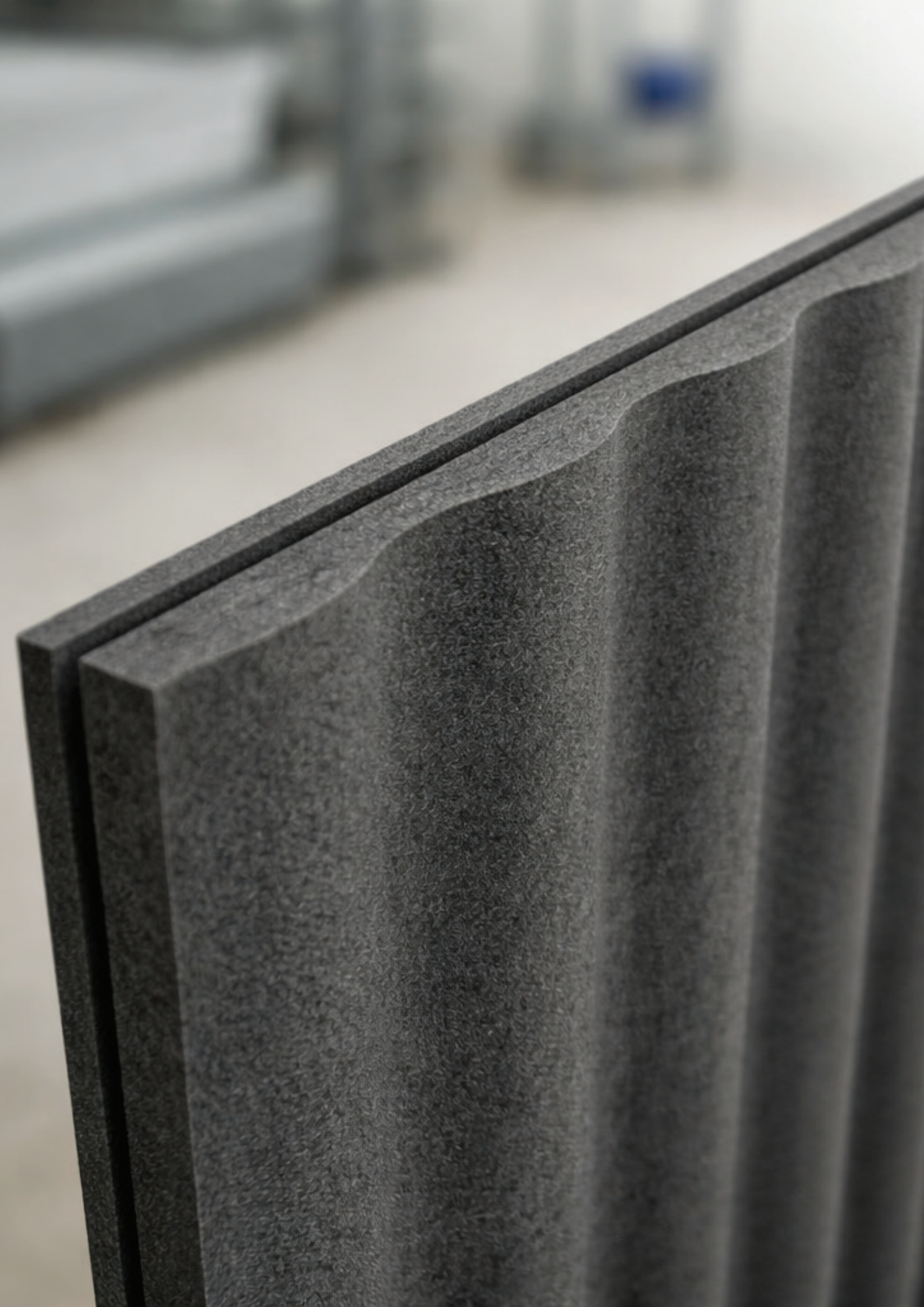
This reality demands a new approach. Plastic waste should no longer be seen as a problem, but as a resource. By extending the lifecycle of materials and transforming discarded bottles into high-performance products, we can reduce environmental impact, lower raw material consumption, and move closer to a circular economy.

Giving bottles a second life is not just an innovation. It is a responsibility.



Using rPET fabric made from recycled PET bottles helps reduce plastic waste while giving discarded materials a second life in both office and home environments.





We Thermoform PET Felt

We are experts on PET felt and how it behaves during processing. When heated, it becomes extremely pliable and can be given unique shapes using the right machines. We have 3 types of presses: vacuum, pneumatic and hydraulic, so that we can achieve the best results in line with our customers' expectations.

The hydraulic press, custom-made for our company, is perfectly adapted to the thermoforming of PET felt sheets. The high clamping force (up to 90 tonnes) allows the most complex shapes to be created from the sheets used. This results in extremely durable and attractive products.

Thermoforming solutions for business

Your idea. Our expertise.

Explore new production opportunities and realize the full potential of thermoforming technology.

Developing a product, a production line, or an entire brand?

We turn challenges into solutions.

Not every idea fits neatly into existing materials or standard processes. Sometimes the material you need doesn't exist yet. Sometimes current technologies fall short of the form or performance you're aiming for. And often, success depends on working with a team that truly understands your vision and knows how to realize it. That's why our clients choose us as a long-term partner, not just a supplier. We create solutions where others see obstacles.

How can we support you?

Our customers come to us with diverse requirements: from market-ready products to complex, often unseen components that are critical to the success of the final application. No matter the scope, the objectives remain the same—accuracy, performance, consistent quality, and suitability for serial production. We collaborate with manufacturers, brands, and designers at every stage of development, delivering results that demand know-how, advanced manufacturing capabilities, and a highly adaptable approach.

Why thermoforming?

When accuracy, consistency, and creative freedom are essential, thermoforming delivers. This technology makes it possible to produce complex, three-dimensional components with excellent structural stability in serial production. By combining multiple materials—such as technical nonwovens, outer fabrics, and flexible fillers—it also enables the creation of layered, high-performance forms.

What does this mean for you?

Greater design freedom and the ability to develop products that balance function and visual impact, all within a reliable and repeatable manufacturing process. For projects that require precision, scalability, and refined aesthetics, thermoforming offers a smarter path from concept to production.



Why partner with us?

We know that the result matters – but so does the way you get there.

TECHNOLOGY

Our products are manufactured using the “cold mould” thermoforming process - the material is first heated, then precisely shaped in temperature-controlled moulds that give it its final form and durability.

FLEXIBLE APPROACH

We adapt to the needs of your project - no matter the stage it's at. You can count on a tailored process, openness to non-standard solutions, and flexibility at every step. We handle both large-scale and short production runs, selecting materials, processes, and finishing methods to match your requirements.

FULL SUPPORT

We support you at every stage, not just in manufacturing. From technical consultation and product development to prototyping and hands-on problem solving, we work closely with you from the first idea to large-scale production. Our skilled engineers specialize in design, 3D modeling, and the implementation of cutting-edge manufacturing technologies.

MATERIALS

Using thermoforming technology, we shape RPET, fiber fillings, and specialized technical nonwovens. These materials may be paired with outer layers in various finishes, colors, and textures to align with your project's visual and performance requirements. Our production meets rigorous quality standards and adheres to ISO 9001 and certified processes, guaranteeing dependable and repeatable results.

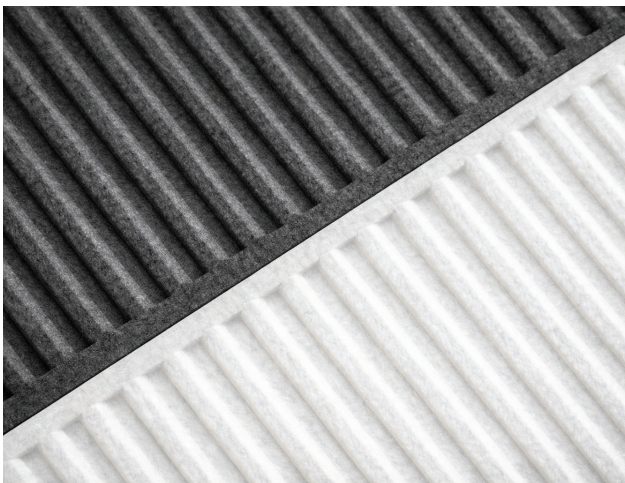
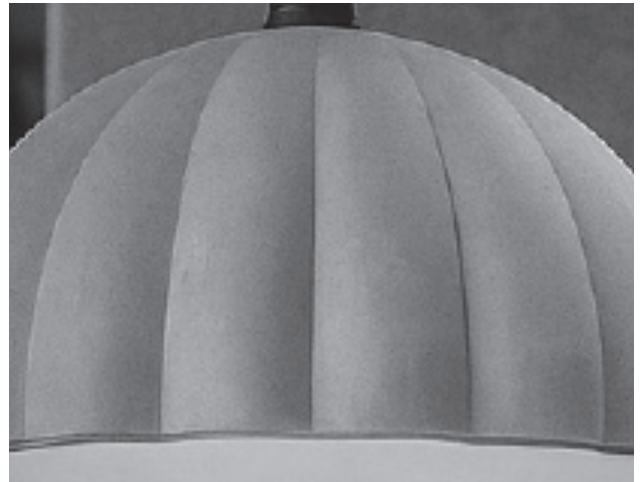
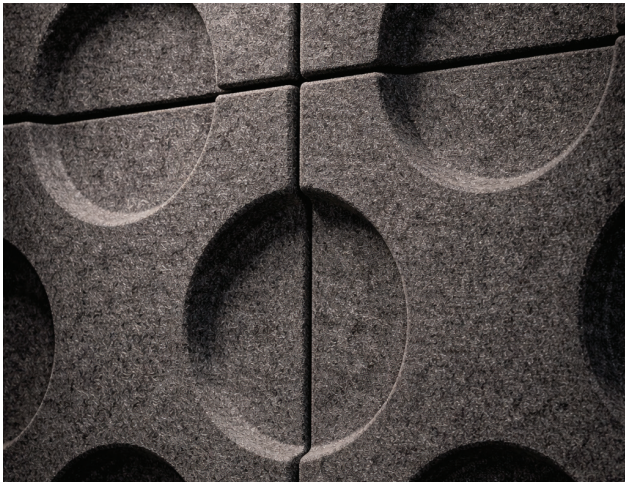
Technology

FeltVibe, we create innovative products with the use of thermoforming technology. Our love of good design means that we are constantly on the lookout for new forms of expression, while at the same time respecting the natural environment, which is an unlimited source of inspiration for us.

FeltVibe, we have an excellent understanding of our customers' needs, which we support with the advanced technology and experience of our team.

The thermoforming of rPET fibrous fabric, which is created from recycled plastic bottles, allows us to produce durable and attractive structural components with complex shapes.

Thermoforming technology is widely used for example in mass production of various types of decorative elements, furniture or components for automotive and transport industries.



We are not afraid of shapes

rPET fabric thermoforming is a technology that achieves spectacular results. Thanks to modern production lines, we can precisely form the most complex shapes. Waves, grooves and bends – even very deep ones – are not a problem for us.

The entire production process is overseen by experienced engineers who support our customers with their knowledge from the design stage, to achieve the best possible results.



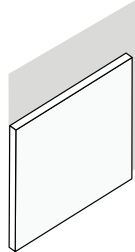
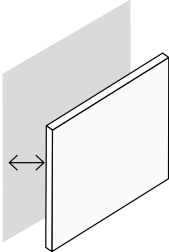
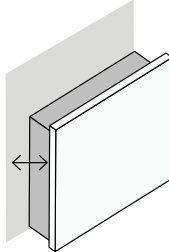
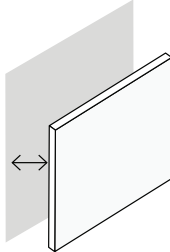
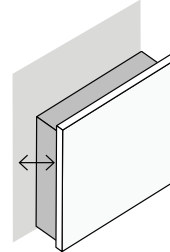
3D Acoustic PET Felt Tiles

3D Acoustic Felt Tiles, is designed to dampen noise while increasing sound clarity and speech intelligibility. 3D Acoustic Felt Tiles modern patterns and beautiful felted textures, transform the acoustics and aesthetics of any space. The tiles are designed as a tool kit for improving sound in a variety of environments including living rooms, home theaters, restaurants, lobbies and conference rooms. 3D Acoustic Felt Tiles provide a combination of absorption and diffusion. This combination reduces reverberation but additionally scatters directional sound, controlling flutter and slap-back echoes while retaining a certain amount of “live” room characteristics.

SPECIFICATIONS

COMPOSITION	60% Recyled Polyester (PET) (100% Pes), %100 Recyled Polyester
LENGTH X WIDTH	600mm x 600 x 30mm (*Tube Tiles h= 3mm)
THICKNESS & WEIGHT	ARKETA 6mm (±0.5mm) 1500 g/m ² (±10) ARKETA 12mm (±0.5mm) 2400 g/m ² (±10) (3D Tiles Tube) ARKETA ECOCO 6mm (±0.5mm) 1500 g/m ² (±10) ICHOS 6mm (±0.5mm) 1300 + 200 g/m ² (±10) PRINT FELT 6mm (±0.5mm) 1300 + 200 g/m ² (±10)
ACOUSTIC	NRC: 0.65 with 50 mm cavity NRC: 0.30 direct mount
FIRE RETARDANT	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
ENVIRONMENT	Non VOCs emission formaldehyde free and Phenol-free Oekotex Class 1, Phthalate Free
CLEANNING	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.
GENERAL	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

Acoustic Properties

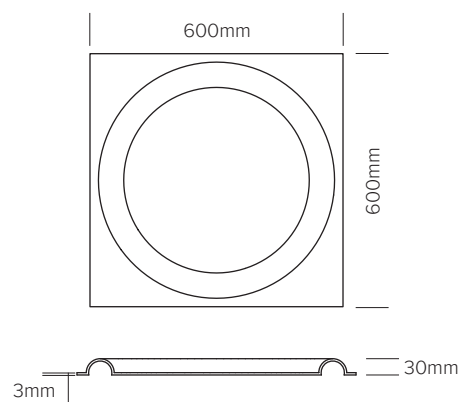
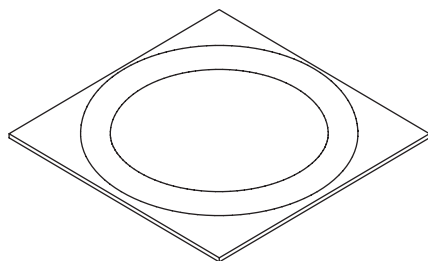
Mounting method					
	Directly on the wall	50mm cavity	50mm cavity + 500mm low density felt	100mm cavity	100mm cavity + 100mm low density felt
NRC	0.30	0.65	1.00	0.80	1.00
α_w	0.25	0.50	1.00	0.85	1.00

NRC = Noise reduction coefficient
 α_w = Sound absorption coefficient

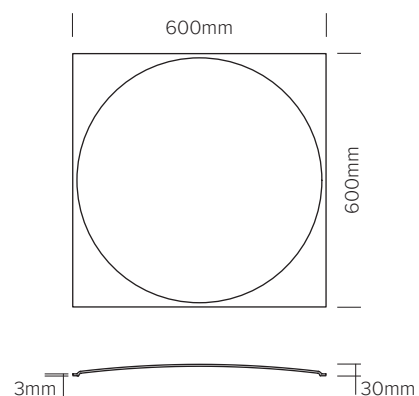
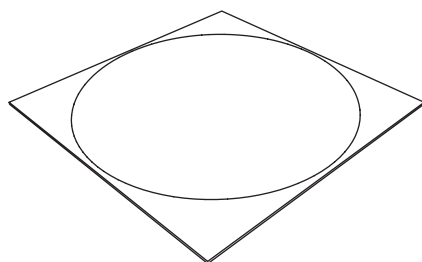
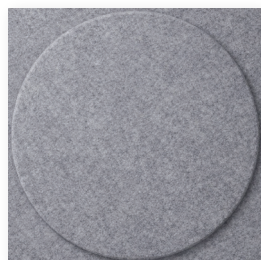


3D Acoustic PET Felt Tiles

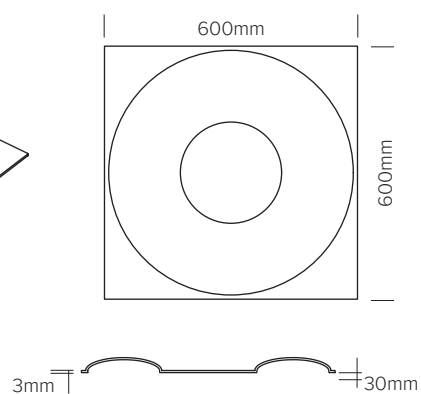
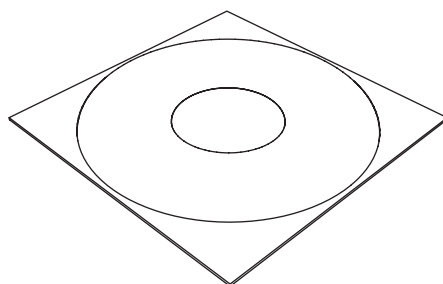
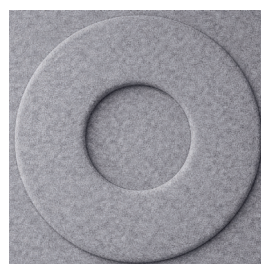
BALLANCE



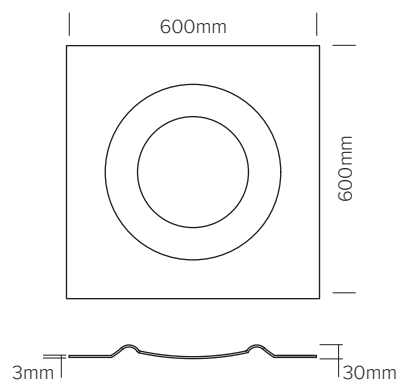
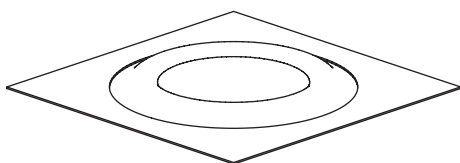
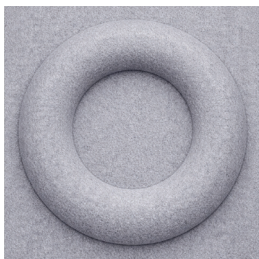
SUN



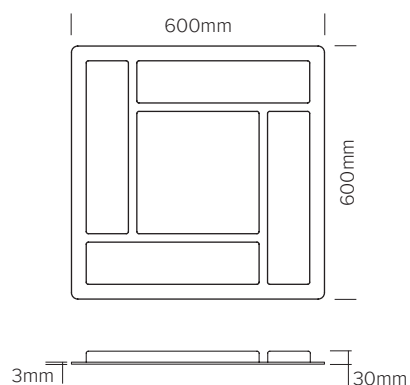
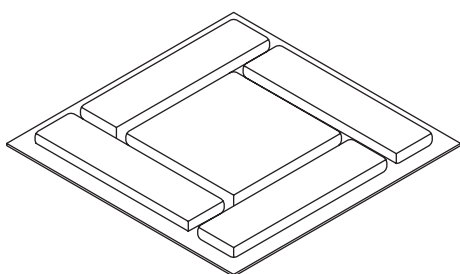
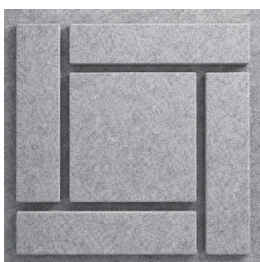
MOONSTONE



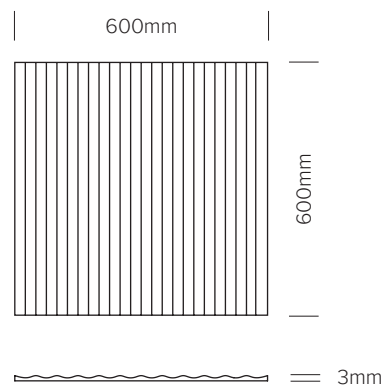
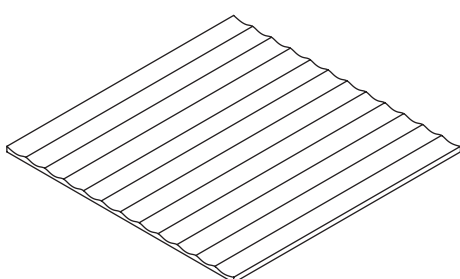
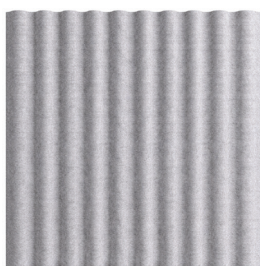
SUGAR



PASTIL



TUBE

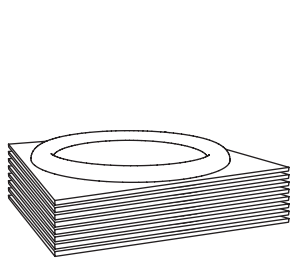






PRODUCT INSTALLATION

TOOLS + SUPPLIES NEEDED



600 x 600 x 30 mm
8 Piece Acoustic Tiles

Prepare installation surface by cleaning it thoroughly and making sure it is flat and even.



32 Piece
Adhesive Strips

ADHESIVE OPTIONS



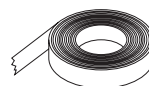
Adhesive
(Permanent)

or



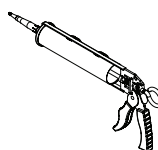
Construction Adhesive
(Permanent)

or



Double-sided Tape
(Semi-Permanent)

APPLY ADHESIVE

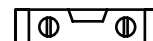


Caulk Gun

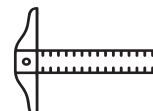


Adhesive Spreader

OTHER TOOLS



Level

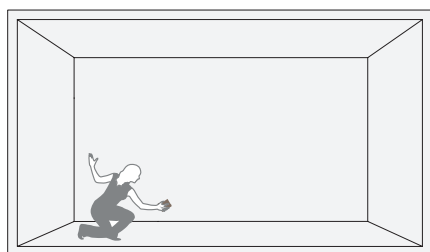


Ruler Straight Edge/
Tape measure



Utility Knife

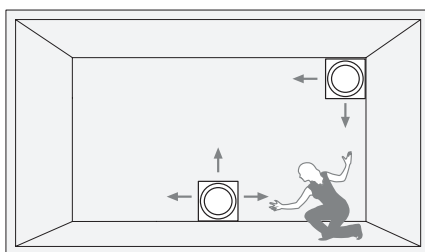
1. PREPARATION



Install over primed or painted drywall or plywood. Surface must be clean, smooth, dry, free of waxes and existing adhesive, dirt, dust, grease, oil, paint curing compound or sealers.

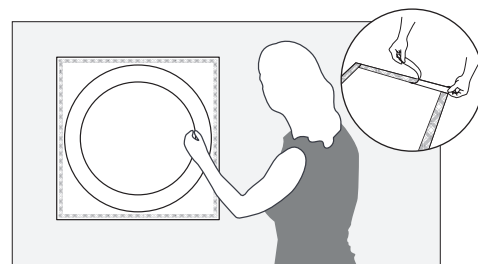
NOTE: Tape cannot be used over chemically cleaned substrates or raw plywood. If using tape on a painted surface, test first, some paints may require the wall to have a coat of bonding primed first.

2. PLANNING



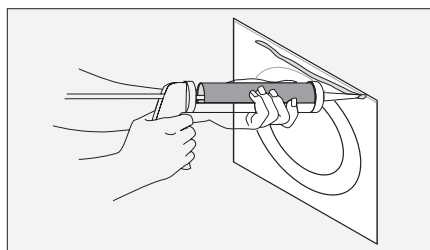
Will your install be wall-to-wall, a floating design, a strip of panels, etc? Plan the layout on the floor or sketch it out. Use a level to mark straight lines. Plan well to ensure desired results.

3. SEMI-PERMANENT ADHESIVE



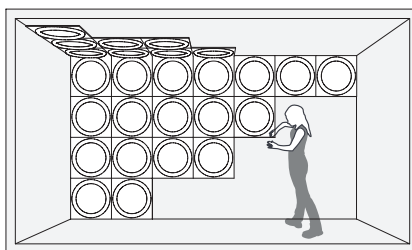
Double-sided Tape Installation
Tape, apply the tape to the perimeter plus strips across the panel on the touchpoints. Each corner should be covered. Press tape firmly to the panel. Peel backing off and adhere with pressure.

4. PERMANENT ADHESIVE



Installing with Construction Adhesive, apply a thin bead of adhesive to the perimeter of the panel and smooth out with an adhesive spreader so adhesive doesn't seep out when pressed to the wall. Also apply a small amount on touch points in the center of the panel. Follow manufacturer's recommendations on dry times.

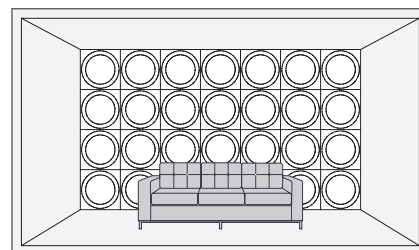
5. INSTALLATION



FINAL PRESSURE (Both Methods)

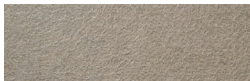
Once in place, secure using hands or a squeegee around the perimeter of the panel and other touchpoints to lock in place.

6. ENJOY

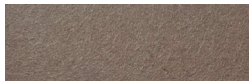


Now enjoy your transformed wall and acoustics.

ARKETA | PET FELT COLLECTIONS



Arketa R-1 Camel



Arketa R-2 Caramel



Arketa R-3 Tangerine



Arketa R-4 Warm Red



Arketa R-5 Forest Green



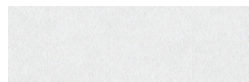
Arketa R-6 Cobalt Blue



Arketa R-7 Charcoal Grey



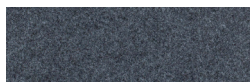
Arketa R-8 Lawn Green



Arketa R-9 White



Arketa R-10 Light Grey



Arketa R-11 Dark Grey

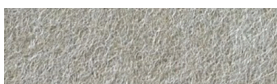


Arketa R-12 Black

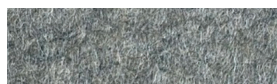


Arketa R-13 Misty Black

ARKETA ECOCO | PET FELT COLLECTIONS



Arketa Ecoco-01 Antique White



Arketa Ecoco-02 Light Grey



Arketa Ecoco-03 Grey



Arketa Ecoco-04 Dark Grey

PRINT FELT | PET FELT COLLECTIONS (WOOD - MARBLE)



FP-01



FP-02



FP-03



FP-04



FP-05



FP-06



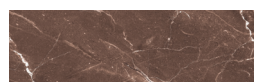
FP-07



FP-08



FP-09



FP-10



FP-11



FP-12



FP-13



FP-15








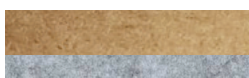







FP-16

ICHOS HEATHERED | PET FELT COLLECTIONS

				
ICHOS K-001	ICHOS K-002	ICHOS K-003	ICHOS K-004	ICHOS K-005
				
ICHOS K-006	ICHOS K-007	ICHOS K-008	ICHOS K-009	ICHOS K-010
				
ICHOS K-011	ICHOS K-012	ICHOS K-013	ICHOS K-014	ICHOS K-015
				
ICHOS K-016	ICHOS K-017	ICHOS K-018	ICHOS K-019	ICHOS K-020
				
ICHOS K-021	ICHOS K-022	ICHOS K-023	ICHOS K-024	ICHOS K-025
				
ICHOS K-026	ICHOS K-027	ICHOS K-028	ICHOS K-029	ICHOS K-030
				
ICHOS K-031	ICHOS K-032			

ICHOS FLAT | PET FELT COLLECTIONS

				
ICHOS D-001	ICHOS D-002	ICHOS D-003	ICHOS D-004	ICHOS D-005
				
ICHOS D-006	ICHOS D-007	ICHOS D-008	ICHOS D-009	ICHOS D-010
				
ICHOS D-011	ICHOS D-012	ICHOS D-013	ICHOS D-014	ICHOS D-015
				
ICHOS D-016	ICHOS D-017	ICHOS D-018	ICHOS D-019	ICHOS D-020
				
ICHOS D-021	ICHOS D-022	ICHOS D-023	ICHOS D-024	ICHOS D-025
				
ICHOS D-026	ICHOS D-027	ICHOS D-028	ICHOS D-029	ICHOS D-030
				
ICHOS D-031	ICHOS D-032			



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