



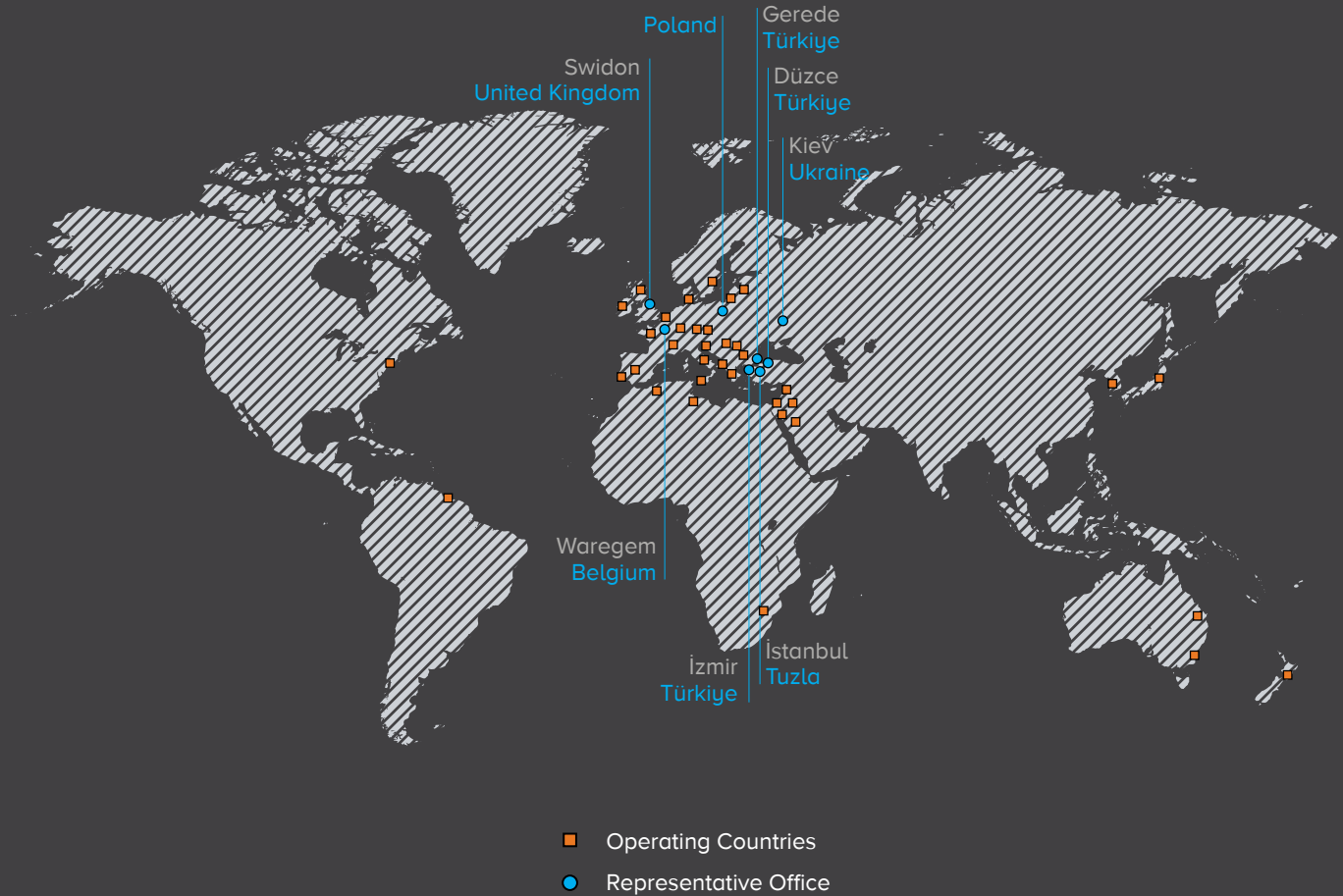
# Architectural PET Felt Acoustic Panels

PRODUCT GUIDE

# 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...



## 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, Gentağ 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

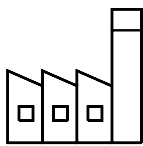


Gerece Factory



Tuzla Factory

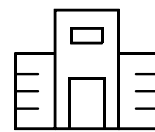
### Business Overview



**3 Factories**  
in Gerece, Tuzla, and Düzce

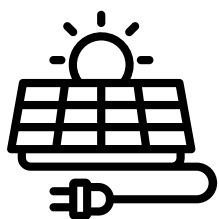


**500 Employees**  
in Total



**55.000 m²**  
Closed Production  
Floor Spaces





## WE CONTINUE TO PRODUCE WHILE CONTRIBUTING TO A SUSTAINABLE FUTURE.

Generating our own energy is a significant part of our responsibility towards both our environment and future. At Gentuğ Tekstil, we are taking meaningful steps toward a sustainable future by utilizing Rooftop Solar Energy in our facility. With a roof area of 20.000m, a DC power capacity of 1.952.5 kWp, an AC power capacity of 1.430 kWe, and 3.929 solar panels, we achieve an annual reduction of 957.6 tons of CO<sub>2</sub> emissions. This is equivalent to the environmental benefit of 43.527 trees and meets the annual energy consumption of 598 households. As Gentuğ Tekstil, we remain committed to contributing to a sustainable future through responsible production.

**3.929**  
solar  
panels

**957.6**  
tons  
of CO<sub>2</sub>  
emissions

**43.527**  
trees/year  
equivalent  
production

**598**  
homes/year  
equivalent  
energy  
consumption

## PET ACOUSTIC PANELS: UNLEASH THE POWER OF SUSTAINABLE ACOUSTICS

Imagine removing all plastics from the ocean and landfills and restoring environmental balance. At Felt Vibe®, our business is transformational, literally. Our manufacturing process uses natural and synthetic fiber to create PET acoustic panels that are then cut by design to meet your demand for acoustical performance.

By upcycling in this way, we're giving you another reason to make sustainable decisions in the products that you select.



### What Makes PET Acoustic Panels Better?

PET is a very energy-efficient material. Although its raw materials are derived from crude oil and natural gas, it enjoys a very favorable sustainability profile in comparison to glass, aluminum, and other materials.

The high strength of PET in comparison to its light weight is a major key to its energy efficiency. This allows for more products to be delivered in less packaging while using less fuel for transport.

Ongoing advances in light-weighting technology continue to improve its energy efficiency, and life cycle studies of PET have consistently confirmed its environmental benefits.

In the 60 years since PET was first synthesized, it has become one of the world's most widely used, versatile, and trusted materials.

### Sustainability

#### Our Commitment to The Environment

Felt Vibe® panels are made from 100% PET fiber of which 60% is derived from recycled plastic water bottles.

The production of Felt Vibe® is a remarkably clean process utilizing needle punch and thermo-bonding technology entirely eco friendly resulting in low energy use, no emissions, no off gassing or VOC's, no waste water and does not require the use of any adhesives.

## CONVERTING WASTE INTO INNOVATION



Felt Vibe®'s Arketa collections are all made from post consumer recycled plastic drink bottles, diverted from landfill.



The discarded drink bottles are cleaned and cut into flakes before being melted and extruded into fibers of natural white color.



The regenerated fibers are clean and odorless like virgin fibers.



The regenerated fibers are then colored or printed and used to construct brand new products like, panels and baffles.



Acoustic Felt



Insulation Felt



Thermoforming Felt



Automotive Felt







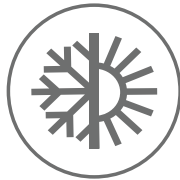
## KEY FUTURES



**ACOUSTIC**



**FIRE RATED**



**INSULATION**



**RESISTANT**



**RECYCLED**



**ECO-FRIENDLIY**



**TACKABLE**



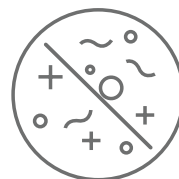
**PRINTABLE**



**LIGHT**



**VOC - FREE**



**ANTIBACTERIAL**



**EASY TO CLEAN**

Felt Vibe® due to its flexible application options, it offers the design and architecture community limitless possibilities for addressing acoustic challenges.

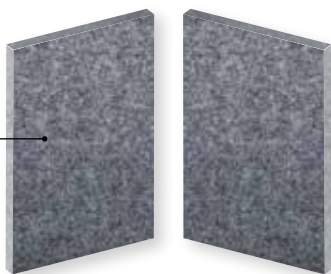
We are open to collaborations with international design companies, artists, or brands and are always happy to push the boundaries of what is possible.





## ARKETA (Base Material) Acoustic PET Felt Panels

ARKETA  
Acoustic PET Felt Panel  
(Base Material)



ARKETA is a high-performance sound absorber with a layered construction allowing for a high degree of variation in thickness, density, and acoustical performance. Available in 5 standard neutral colors.

For industrial settings ARKETA can be ordered 'naked' (without an Satis surface) and mounted directly on walls and ceilings without any spacing and achieves absorption levels of up to 0.42 NRC (subject to thickness/density ordered). ARKETA has a natural 'skin' on the surface to allow for easy cleanability. Arketa is made up of 100% PET fiber, of which at least 60% comes from recycled plastic bottles, making it a sustainable acoustic panel that provides amazing value, and acoustical performance.



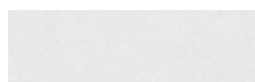


## SPECIFICATIONS

<b>COMPOSITION</b>	60% Recycled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Width:</b> Production is made between 300mm and 2700mm.
<b>THICKNESS &amp; WEIGHT</b>	ARKETA BASIC: 5mm (±0.5mm) 700 g/m <sup>2</sup> (±10%) ARKETA BASIC: 6mm (±0.5mm) 1100 g/m <sup>2</sup> (±10%) ARKETA BASIC: 9mm (±0.5mm) 1100 g/m <sup>2</sup> (±10%) ARKETA BASIC: 9mm (±0.5mm) 1300 g/m <sup>2</sup> (±10%) ARKETA BASIC: 9mm (±0.5mm) 1600 g/m <sup>2</sup> (±10%) ARKETA BASIC: 12mm (±0.5mm) 1800 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 4mm (±0.5mm) 1000 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 9mm (±0.5mm) 1500 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 9mm (±0.5mm) 2000 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 12mm (±0.5mm) 2400 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 20mm (±0.5mm) 3000 g/m <sup>2</sup> (±10%) ARKETA BASIC PLUS: 24mm (±0.5mm) 3700 g/m <sup>2</sup> (±10%)
<b>ACOUSTIC</b>	NRC: up to 0.20 - 1.00 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K, ISO 110902:2014
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

**Felt is produced in special thicknesses and weights (between 400 g/m<sup>2</sup> and 4000 g/m<sup>2</sup>).  
Please contact the production department.**

## ARKETA BASIC PET FELT COLLECTIONS



Arketa Basic White



Arketa Basic Light Grey



Arketa Basic Pure Grey

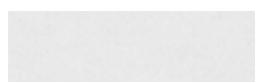


Arketa Basic Dark Grey



Arketa Basic Black

## ARKETA BASIC PLUS PET FELT COLLECTIONS



Arketa Basic Plus White



Arketa Basic Plus Light Grey



Arketa Basic Plus Pure Grey



Arketa Basic Plus Dark Grey



Arketa Basic Plus Black



## **SATIS** (Surface Finishes) Acoustically Transparent Recycled Nonwoven Fabric

Our SATIS acoustic felt layers grant you endless versatility, both in terms of looks and performance. Available in a multitude of colors, each felt layer improves the acoustical performance of your acoustic panels. Satis is available in 35 colors. Minimum order quantities and custom color development fees apply. Details upon request.

Satis is compatible with Arketa. It can be added to the surface for multiple color combinations with unlimited product possibilities.



## SPECIFICATIONS

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

## SATIS HEATHERED PET FELT COLLECTIONS



SATIS | K-001



SATIS | K-002



SATIS | K-003



SATIS | K-004



SATIS | K-005



SATIS | K-006



SATIS | K-007



SATIS | K-008



SATIS | K-009



SATIS | K-010



SATIS | K-011



SATIS | K-012



SATIS | K-013



SATIS | K-014



SATIS | K-015

## SATIS FLAT PET FELT COLLECTIONS



SATIS | D-001



SATIS | D-002



SATIS | D-003



SATIS | D-004



SATIS | D-005



SATIS | D-006



SATIS | D-007



SATIS | D-008



SATIS | D-009



SATIS | D-010



SATIS | D-011



SATIS | D-012



SATIS | D-013



SATIS | D-014



SATIS | D-015



SATIS | D-016



SATIS | D-017



SATIS | D-018



SATIS | D-019



SATIS | D-020





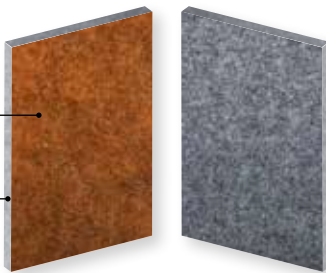
## ICHOS (Heathered) Acoustic Laminated PET Felt Panels

### 2<sup>nd</sup> Layer

SATIS Acoustic  
Laminated PET Felt  
Panels  
(Surface Finishes)

### 1<sup>st</sup> Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



ICHOS is a new revolution in color and acoustical material pairing the high-performance acoustics of ARKETA with the beauty and soft touch of our Satis acoustic felt layers.

ICHOS create unlimited color and texture combinations for all your projects. All materials are made here in Türkiye using recycled raw materials.



## ARKETA Acoustic Felt Panel (Base Material) + SATIS Acoustic Laminated PET Felt Panels (Surface Finishes)= ICHOS

### SPECIFICATIONS

<b>COMPOSITION</b>	60% Recyled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (+/- 3mm)
<b>THICKNESS &amp; WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.64 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

### SATIS (Surface Finishes)

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

### 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



FLAT

## ICHOS (Flat)

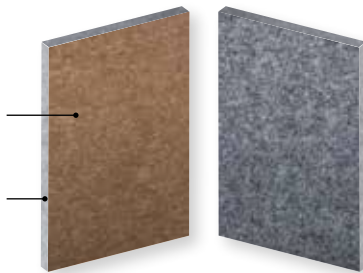
### Acoustic Laminated PET Felt Panels

#### 2<sup>nd</sup> Layer

SATIS Acoustic  
Laminated PET Felt  
Panels  
(Surface Finishes)

#### 1<sup>st</sup> Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



ICHOS is a new revolution in color and acoustical material pairing the high-performance acoustics of ARKETA with the beauty and soft touch of our Satis acoustic felt layers.

ICHOS create unlimited color and texture combinations for all your projects. All materials are made here in Türkiye using recycled raw materials.





## ARKETA Acoustic Felt Panel (Base Material) + SATIS Acoustic Laminated PET Felt Panels (Surface Finishes)= ICHOS

### SPECIFICATIONS

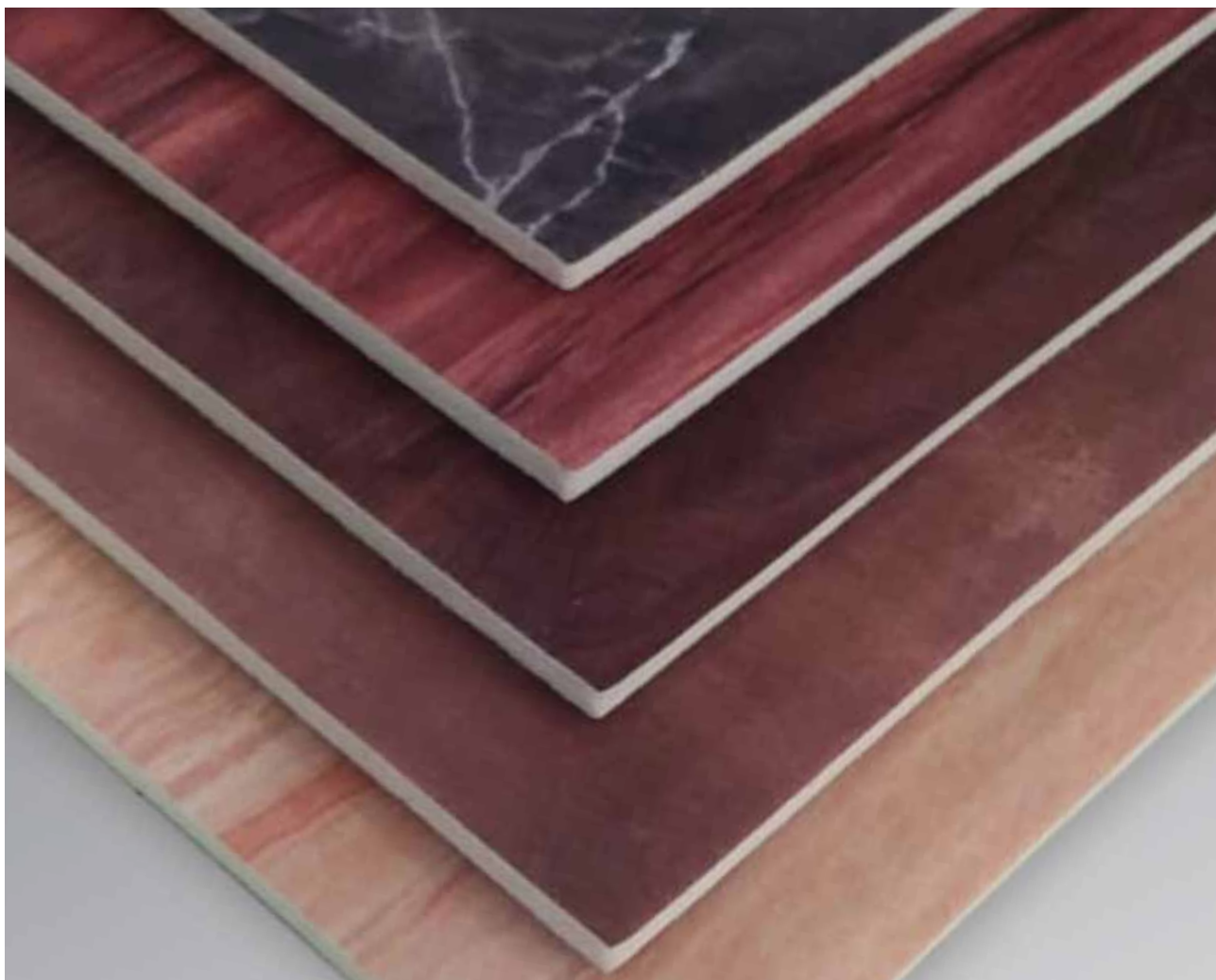
<b>COMPOSITION</b>	60% Recyled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (+/- 3mm)
<b>THICKNESS &amp; WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.64 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

### SATIS (Surface Finishes)

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

### ICHOS FLAT 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



## FELT PRINTED

### Acoustic Laminated PET Felt Panels

#### 2 nd Layer

FELT PRINTED  
Acoustic Laminated  
PET Felt Panels  
(Surface Finishes)

#### 1 st Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



Experience personalized acoustic panels with Felt Printed, offering a range of colors and collections for ARKETA Panel materials. Choose from rustic concrete, traditional brick, stone, or woodgrain finishes. Felt Printed allows for creative, stylish transformations with adjustable material thickness for enhanced acoustic performance. Elevate your space with Felt Printed's unique, customizable options.

#### 2 nd Layer

3D TEXTURE  
PRINTED  
Acoustic Laminated  
PET Felt Panels  
(Surface Finishes)

#### 1 st Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



## ARKETA Acoustic Felt Panel (Base Material) + FELT PRINTED Acoustic Laminated PET Felt Panels (Surface Finishes)

### SPECIFICATIONS

<b>COMPOSITION</b>	60% Recyled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (+/- 3mm)
<b>THICKNESS &amp; WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.64 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

### FELT PRINTED (Surface Finishes)

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

### FELT PRINTED COLLECTION (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





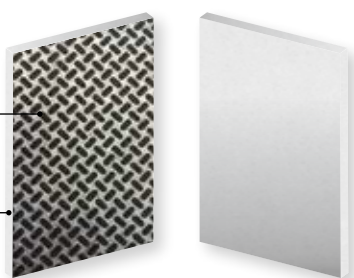
## 3D TEXTURE PRINTED Acoustic Laminated PET Felt Panels

### 2 nd Layer

3D TEXTURE  
PRINTED  
Acoustic Laminated  
PET Felt Panels  
(Surface Finishes)

### 1 st Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



Experience personalized acoustic panels with 3D Texture Printed PET Felt, offering a range of colors and collections for ARKETA Panel materials. 3D Texture Printed PET Felt, allows for creative, stylish transformations with adjustable material thickness for enhanced acoustic performance.



## ARKETA Acoustic Felt Panel (Base Material) + 3D TEXTURE PRINTED Acoustic Laminated PET Felt Panels (Surface Finishes)

### SPECIFICATIONS

<b>COMPOSITION</b>	60% Recycled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (+/- 3mm)
<b>THICKNESS &amp; WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.64 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

### 3D TEXTURE PRINTED (Surface Finishes)

<b>COMPOSITION</b>	60% Recycled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

### 3D TEXTURE PRINTED PET FELT COLLECTION



EMP-01



EMP-02



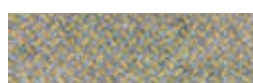
EMP-03



EMP-04



EMP-05



EMP-06



EMP-07



EMP-08



EMP-09



EMP-10



EMP-11



EMP-12



EMP-13



EMP-14





# PINSONIC PRINTED

## Acoustic Laminated PET Felt Panels

### 2<sup>nd</sup> Layer

PINSONIC PRINTED  
Acoustic Laminated  
PET Felt Panels  
(Surface Finishes)

### 1<sup>st</sup> Layer

ARKETA Acoustic  
PET Felt Panel  
(Base Material)



Experience personalized acoustic panels with Embossed Pinsonic Printed Acoustic PET Felt, offering a range of colors and collections for ARKETA Panel materials. Pinsonic Diamond, Pinsonic Wave, Pinsonic Big Wave Felt Fabric Printing allows for creative, stylish transformations with adjustable material thickness for enhanced acoustic performance.





## ARKETA Acoustic Felt Panel (Base Material) + PINSONIC PRINTED Acoustic Laminated PET Felt Panels (Surface Finishes)

### SPECIFICATIONS

<b>COMPOSITION</b>	60% Recyled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (+/- 3mm)
<b>THICKNESS &amp; WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.64 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

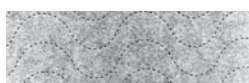
### PINSONIC PRINTED (Surface Finishes)

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

### PINSONIC PRINTED PET FELT COLLECTION



PP-01



PP-02



PP-03



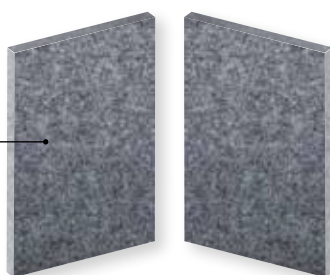
**Flame  
spread index  
5**



**Smoke  
developed index  
0**

## ARKETA BASIC-FR (Base Material) Class A Fire Rated Acoustic PET Felt Panel

ARKETA  
Acoustic PET Felt Panel  
(Base Material)



ARKETA is a high-performance sound absorber with a layered construction allowing for a high degree of variation in thickness, density, and acoustical performance. Available in 5 standard neutral colors, ARKETA can be combined with any ARKETA acoustic felt layers (on one or two sides) to make up a high performance SATIS acoustical sheet.

For industrial settings (such as ecommerce distribution warehouses) ARKETA can be ordered 'naked' (without an SATIS surface) and mounted directly on walls and ceilings without any spacing and achieves absorption levels of up to 0.42 NRC (subject to thickness/density ordered). ARKETA has a natural 'skin' on the surface to allow for easy cleanability. ARKETA is made up of 100% PET fiber, of which at least 60% comes from recycled plastic bottles, making it a sustainable acoustic panel that provides amazing value, and acoustical performance.



## SPECIFICATIONS

<b>COMPOSITION</b>	60% Recycled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 2700mm (-0 /+3mm)
<b>THICKNESS &amp; WEIGHT</b>	ARKETA BASIC: 12mm (±0.5mm) 1800 g/m <sup>2</sup> (±10%)
<b>ACOUSTIC</b>	NRC: up to 0.42 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K, ISO 110902:2014
<b>FIRE TEST STANDARDS</b>	ASTM E 84 Class A
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free Oekotex Class 1, Phthalate Free
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

## ASTM E84 Fire Test Standard

The ASTM E84 standard is a fire test method used to evaluate the flame spread and smoke development characteristics of building materials. The results of this test are typically expressed in two key values:

### FSI (Flame Spread Index):

The Flame Spread Index (FSI) measures the speed at which flames spread across a material during a fire. In ASTM E84 testing, a lower FSI value indicates better resistance to flame spread. Materials with an FSI value between 0 and 25 are generally considered fire-resistant or exhibit low flame spread. For example, a material with an FSI of 5 would have very low flame spread.

### SDI (Smoke Developed Index):

The Smoke Developed Index (SDI) refers to the amount of smoke produced during a fire. Values close to 0 indicate that the material produces very little smoke when burning. A material with an SDI of 0 produces the least smoke.

Based on these values, a material with an FSI of 5 and an SDI of 0, such as acoustic felt, would be classified as highly fire-resistant and producing minimal smoke during combustion.

### Conclusion:

The product whose test results are given above meets Class A criteria according to ASTM E84 Standard.

The test results relate to the behaviour of the test specimen of a product under the conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product of use. The results of tests are concerned only with the subject of testing.

The protocol shall not be reproduced except in full without the written approval of the testing laboratory.

Brand, type, quality and dimension information of the components, when it is not possible to be verified by the laboratory, are given according to the sponsor's declaration and the responsibility belongs to the sponsor. The test specimens are tested as received from the sponsor (when the laboratory does not carry out sampling).

## MEASURED VALUES AND THE TEST RESULTS

**FSI [m.min]** 0,60

**FSI [ft.min]** 1,97

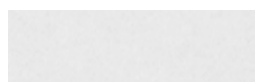
**SDI [%min]** 2,32

**Rounded FSI [ft.min]** 5

**Rounded SDI [%min]** 0

**Observation during the test:** No specific conditions were observed during the test.

## ARKETA BASIC-FR PET FELT COLLECTIONS



Arketa Basic-FR White



Arketa Basic-FR Light Grey



Arketa Basic-FR Pure Grey



Arketa Basic-FR Dark Grey



Arketa-FR Black



# ICHOS-WR

## Water-Resistant PET Felt Acoustic Panel



## Enhancing Acoustic Panels with Water-Resistant Properties

In the realm of noise control, acoustic panels play a pivotal role. Whether mitigating construction-related clamor or taming the disruptive hum of a generator, these panels offer solace, protection, and tranquility. However, a challenge persists: many acoustic panels—despite their sound-absorbing prowess—also exhibit an affinity for water and moisture. This dual nature poses several issues:

### 1. Weight Dilemma:

When water infiltrates acoustic panels, their weight increases beyond design specifications. Imagine a featherbed suddenly laden with raindrops—it loses its buoyancy. Similarly, water-logged panels compromise their intended functionality.

### 2. Acoustic Erosion:

Moisture infiltrates the very fabric of acoustic performance. Sound waves, once absorbed with precision, now encounter dampened resistance. The symphony falters.

### 3. Mold and Mildew Intrusion:

Moist environments foster unwelcome guests: mold and mildew. These spores thrive, silently undermining panel integrity. The result? A discordant note in the harmony of design.

### 4. Lingering Moisture:

Evaporation, like a tardy guest, takes days. By the time it departs, irreversible damage may have occurred—a stain on the canvas of acoustic excellence.

**Solutions:** Enter FeltVibe® Acoustic Felt, a beacon of innovation. Crafted from recycled polyester—transforming discarded plastic bottles into purposeful elegance—FeltVibe® marries acoustic finesse with water resistance.

### Let us explore its merits:

#### 1. Hydrophobic Marvel:

FeltVibe® scoffs at water. It repels liquid like a seasoned diplomat deflecting unwarranted questions. Poolside or rain-soaked, it remains poised.

#### 2. Weightlessness Preserved:

Unlike a waterlogged ship, FeltVibe® maintains its lightness. No sinking sensations here—only buoyant acoustics.

#### 3. Acoustic Sorcery Unleashed:

Sound waves bow to FeltVibe®. Moisture may knock, but the performance endures. No dampened crescendos.

#### 4. Mold-Proof Vigilance:

Mold spores, seeking refuge, find no foothold. FeltVibe® guards its purity—a sentinel against unwanted guests.

#### 5. Evaporation Efficiency:

Moisture lingers, but FeltVibe® handles it deftly. Evaporation dances, leaving no scars.

### Applications:

- **Bathrooms with Poise:** FeltVibe® graces bathroom walls, absorbing echoes while sidestepping steam.
- **Poolside Serenity:** Loungers sip piña colodas, cocooned in FeltVibe®'s hushed embrace.
- **Outdoor Oasis:** Patios, gazebos—FeltVibe® thrives, a waterproof picnic blanket for sound.

In the symphony of materials, FeltVibe® strikes a harmonious chord—waterproof, yet resonant. Let its notes echo through your spaces, a testament to sustainable elegance.

## ARKETA Acoustic Felt Panel (Base Material) + SATIS Acoustically Transparent Recycled Nonwoven Fabric (Surfece Finishes)= ICHOS

### SPECIFICATIONS

<b>COMPOSITION</b>	60% Recyled Polyester (PET) (100% Pes)
<b>DIMENSIONS</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>THICKNESS / WEIGHT</b>	6mm ( ±0,5 mm) 1300 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 9mm ( ±0,5 mm) 1600 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) 12mm ( ±0,5 mm) 1800 g/m <sup>2</sup> + 200 g/m <sup>2</sup> + 200 g/m <sup>2</sup> (± 10%) Double
<b>ACOUSTIC</b>	NRC: up to 0.42 (subject to mounting conditions)
<b>THERMAL RESISTANCE</b>	0.0446 W/m <sup>2</sup> K, ISO 110902:2014
<b>FIRE TEST STANDARDS</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0 ASTM E 84 Class A
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free Oekotex Class 1, Phthalate Free
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.
<b>GENERAL</b>	Tackable, impact resistant, bacteria resistant, moisture resistant, installation friendly.

### WATER RESISTANCE-RAIN TEST; AATCC 35:2018

Test samples were conditioned at % 65±5 RH, 21±2°C prior to testing.

**Water temperature:** 21±1°C

**Spraying Time:** 5 minutes

**Water Level:** 24"

Water penetration (g)	RESULT	REQUIREMENT
	0.00 g	PASS

### SATIS (Surfece Finishes)

<b>COMPOSITION</b>	60% Recyled Polyester (PET) ( 70% Pes - 20% Polyamid - 10% Viskon)
<b>WIDTH</b>	<b>Max. Width:</b> 1500mm (-0 /+3mm)
<b>WEIGHT</b>	200 g/m <sup>2</sup> approx
<b>ENVIRONMENT</b>	Non VOCs emission formaldehyde free and Phenol-free, Oekotex Class 1, Phthalate Free
<b>FIRE TESTING</b>	EN 1021 - 1 (cigarette) EN 13501-1 (SBI) Adhered Class B-s1,d0
<b>LIGHT FASTNESS</b>	4+ (ISO 105 - B02)
<b>CLEANNING</b>	Vacuum regularly. Professionally dry clean or wipe clean with a dampcloth.

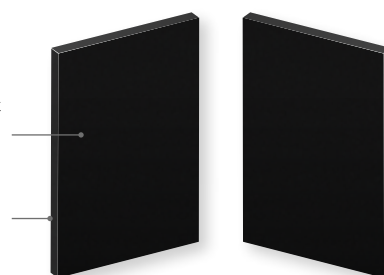
### ICHOS-WR PET FELT COLLECTIONS



ICHOS-WR Black

**2 nd Layer**  
SATIS Acoustic  
Laminated PET Felt  
Panels  
(Surfece Finishes)

**1 st Layer**  
ARKETA Acoustic  
PET Felt Panel  
(Base Material)



## PET FELT PROCESSING TECHNIQUES

### V-cut

V-grooves are cut 4.5mm deep as standard



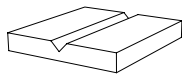
V-cut 15 degrees



V-cut 22.5 degrees



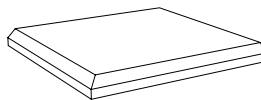
V-cut 30 degrees



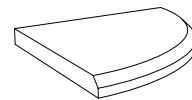
V-cut 45 degrees

### Bevel-cut cutting

This is cut at 45 degrees to half the plate thickness



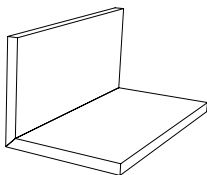
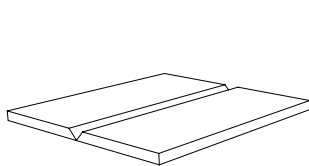
Straight bevel finish gives straight corners



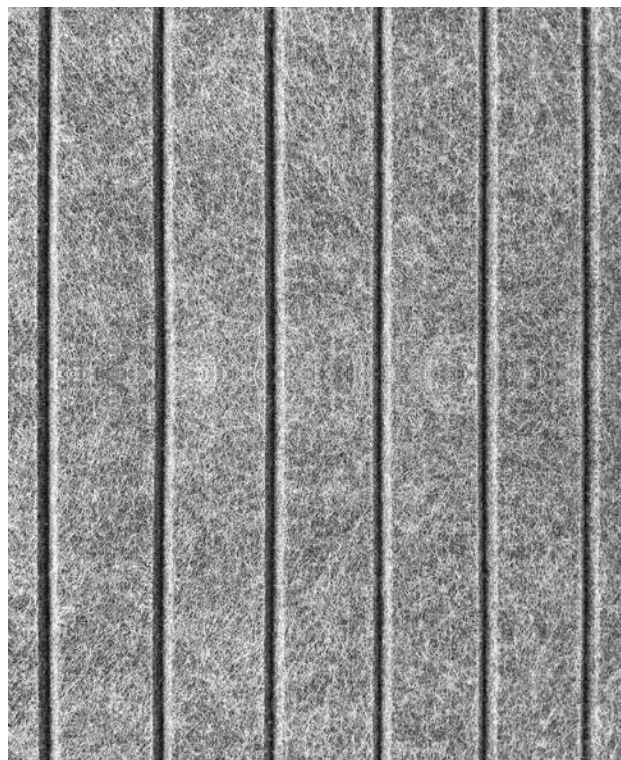
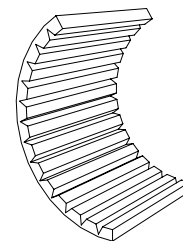
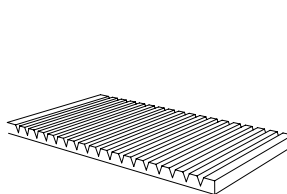
Round facet finish only for radii greater than 100mm

### Folding 90 degrees

45 degree V-cut is used as standard.



### Bending





## 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.



### WE PRINT ON PET FELT

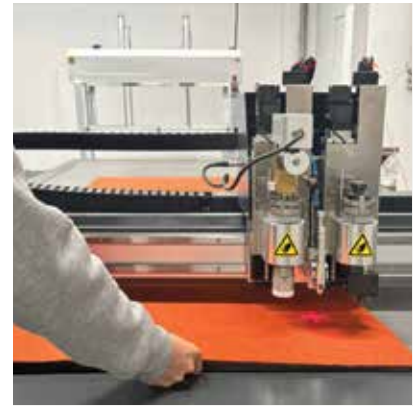
Large-format acoustic images, panels designed to look like wood, concrete or other structures, logos on products – all this is possible with us, thanks to our own large-format UV printing and sublimation transfer printing facility.

Our prints on PET felt deliver excellent quality and acoustic properties.



### 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

Computer-controlled cutting enables us to cut highly detailed shapes and patterns. No materials are wasted, and the various components can be combined easily.

This technique also provides the ability to cut at different angles as required for V-grooved or chamfered edges. The variety of opportunities offered by this technique offers endless possibilities in terms of design and shape.



### EMBOSED PINSONIC PRINTING

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





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