

## Alpha - The Premier Acoustic Solution

Alpha, the ultra-versatile acoustic solution that allows you to build beautiful and functional spaces. Architects and interior designers delight your customers and win more work by designing spaces that improve user wellbeing, efficiency and creativity. Stand out from the crowd by offering a bespoke acoustic solution using the design flexibility that Alpha provides.

### Excellent Customer Support Delivered From Our UK Manufacturing Facility

Tech Materials 40,000 sq ft state of the art factory provides Architects and Interior Designers with customer support not seen before.

All Architects and Interior Designers benefit from:

- Free CAD design support with each order
- Free prototype samples made to your design
- Free sample pack
- Free acoustic design white papers
- Free Design Club membership including:
  - Free technical updates on all products
  - Free regular design forums held at our factory. See new designs and test your own
  - Yearly acoustic teach points offered to your staff and graduates

### Product Guarantee

All Alpha products come with a two-year guarantee. Larger projects receive a free first year check up and service.

### Innovation

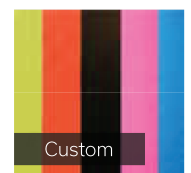
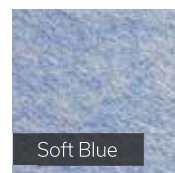
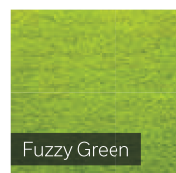
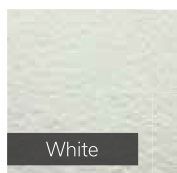
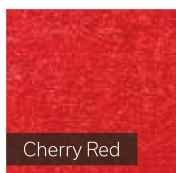
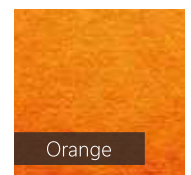
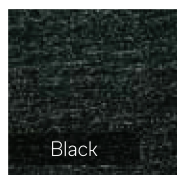
Alpha allows buyers to exercise their design flair and impress their clients by offering an alternative acoustic solution. Think outside the box with Tech Materials to develop unforgettable acoustic environments.

### Showroom - Visit

To learn about Tech Materials products and capabilities, book a visit to our showroom and manufacturing facility by calling 01952947390



Alpha Colour Range

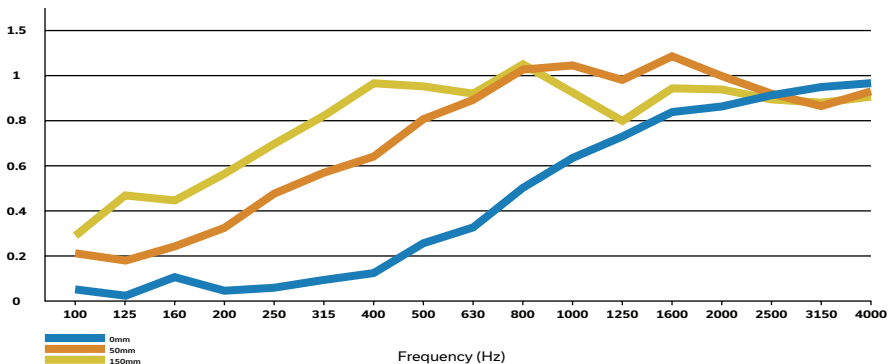


## Alpha - Data Sheet

<b>Product Name</b>	Alpha
<b>Composition</b>	100% Polyester Fibre [PET]
<b>Panel Dimensions</b>	2800 x 1225mm
<b>Thickness</b>	6mm / 12mm / 24mm
<b>Weight</b>	2.4kg m2 [ $\pm 10\%$ ]@ 12mm
<b>Fire Specification</b>	EN13501-:2007+A1:2009 B - s1, d0
<b>Formaldehyde Emission</b>	0.00 ug/g
<b>Sound Absorption</b>	CLASS C
<b>VOC Emission</b>	<0.02mg/m2
<b>OKEO TEX</b>	Standard 100 - Class 1
<b>Recyclable Content</b>	100%

Alpha has excellent acoustic properties mixed with high design flexibility, allowing you to design the acoustic solution into the fabric of your space. In effect reducing the costs of the acoustic solution considerably.

### NRC Comparison - 12mm



Frequency (Hz)		125	250	500	1000	2000	4000	Alfa	NRC
Distance from wall	0mm	0.01	0.05	0.25	0.61	0.85	0.95	0.44	0.45
	50m	0.16	0.46	0.80	1.04	1.00	0.92	0.81	0.80
	150mm	0.46	0.69	0.96	0.92	0.94	0.91	0.87	0.85

### Installation

Panels can be cut and modified easily on site. Dedicated fitting kits and fitting instructions allow you to use your own or local labour reducing project lead times and costs.

**For fitting instructions call 01952 947390**

### Applications

- Wall coverings
- Freestanding modular solutions
- Acoustic wall & ceiling panels
- Acoustic baffles
- Screens & dividers
- Acoustic artwork and pictures
- Acoustic furniture
- Desk dividers & partitions
- Acoustic pin boards and dry wipe boards
- Acoustic signage (brand & communication)
- + Much more

### Features & Benefits

- Excellent sound absorbing properties delivering 0.45 NRC
- 2.8m long panels ideal for joint-free floor to ceiling panels
- A broad range of neutral and bright colours allowing the customer to find a palette that matches their brand and/or improve the efficiency and wellbeing of the space
- Near infinite design possibilities using our in-house manufacturing capabilities
- Easily fabricated and installed
- Colour is uniform through the entire thickness
- Digitally printable
- Lightweight and easy to hang
- Manufactured without chemical binders
- Certified low VOC
- Safe, non-toxic and non-irritant
- Manufactured under ISO 9001
- No red list chemicals
- Long lasting and hardwearing
- Easy to clean and wipe down

## Manufacturing & Design All Under One Roof

Tech Materials offers a fully integrated supply chain, including:

- International Sourcing
- Product Design
- Manufacturing
- Logistics

No other organisation in the UK has the same in-house manufacturing capabilities as Tech Materials. Allowing us to deliver value for money and improved lead times. More importantly, our manufacturing capability allows Architects and Interior Designers to provide unique, bespoke and one off designs.

### Water Jet Cutting

Water jet cutting allows us to create bespoke shapes and designs. Typically used to create, baffles, dividers, wall coverings and free-standing acoustic solutions.

Advantages of Water Jet Cutting

- Cutting without discolouration to cut edge
- Clean cut edges
- No tooling costs
- One off to batch production
- Pre-printed materials cut to pinpoint intricacy.
- Complex and intricate designs accommodated.
- Cutting accuracies down to 0.13 mm
- Able to cut complex modular designs (3D jigsaws)

### CNC Routing & Etching

Computer controlled shaping and etching. Typically used to enhance the aesthetics of baffles, dividers, wall coverings and free-standing acoustic solutions. The CNC router is used to make precise cuts into the material that passes through at a range of depths creating textured and colourful designs. It can be used to etch unique patterns and brand logos into Alpha.

Advantages of CNC Routing & Etching

- Panel etching
- Logo engraving
- Slitting & slicing
- Making precision cuts into the material without cutting all the through.

### UV Printing

Alpha's flat surface and tight modular structure is perfect for printing on. Our flatbed printer uses UV curing inks resulting in a rapid turnaround time. Typically used to produce cost-effective one-off impact designs such as acoustic artwork, acoustic pinboards and dry whiteboards and brand communications.

Advantages of UV Printing

- Bespoke printed acoustics
- HD print quality
- Floor to ceiling print capability
- Improves creativity in workspaces
- Reduced high MOQ's on costly fabrics

## Benefits

### Water Jet Cutting

- Improve the aesthetics of your acoustic product
- Added personalisation and branding
- Bespoke designs can enhance workspace creativity
- Allows you to turn an acoustic material into a wide range of furniture products

### UV Printing

- Allows colour match branding
- Enhances the aesthetics of your acoustic product
- Can help to improve brand awareness
- Can help to increase creativity through your office
- Helps to improve your employees working environment

### Etching

- Improves the texture of your acoustic product
- Helps to enhance the acoustic performance by increasing surface area
- Enhances the visual appeal of your acoustic product
- Can help improve brand awareness

### Slitting & Laminating

- Increasing NCR by laminating sheets together
- Improve the aesthetic of the product by layering different colours
- Bespoke textures by laminating different signs together

### Combination of the above



**Technical Data**

<b>Product Name</b>	AlphaGeo Rafts
<b>Composition</b>	100% Polyester Fibre [PET]
<b>Thickness</b>	24mm
<b>Weight</b>	4.8kg m2 [ $\pm 10\%$ ]
<b>Fire Specification</b>	EN13501:-2007+A1:2009 B-s1,d0
<b>Formaldehyde Emission</b>	0.00 ug/g
<b>VOC Emission</b>	<0.02mg/m2
<b>OKEO TEX</b>	Standard 100 - Class 1
<b>Recyclable Content</b>	100%

**Standard Size**

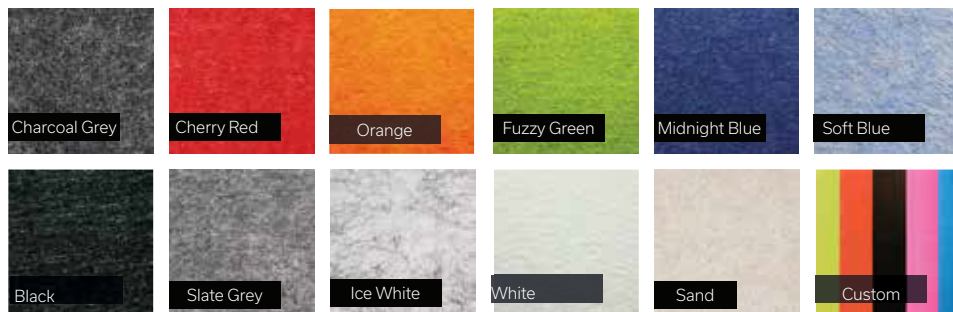
<b>Rectangle</b>	<b>Hexagon</b>	<b>Donut</b>	<b>Triangle</b>
2400mm x 1200mm 2400mm x 600mm	1100mm Wide 700mm Wide	OD1200mm ID 300mm OD800mm ID200mm	1200mm
<b>Square</b>	<b>Circular</b>		
1200mm 800mm	1200mm Dia 800mm Dia		

**AlphaGeo - Rafts**

**Description**

AlphaGeo Rafts are supplied in six geometric shapes. They have been designed to be suspended from the ceiling, adding a new dimension to your interior design. The adjustable suspension system allows you to suspend the rafts directly above the noise source delivering an excellent finely tuned acoustic solution.

**Colour Range**



**Shapes**





**Technical Data**

Product Name	Alpha Baffles
Composition	100% Polyester Fibre [PET]
Acoustic Rating	Class B/C
Thickness	24mm
Weight	4.8kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

**Standard Size**

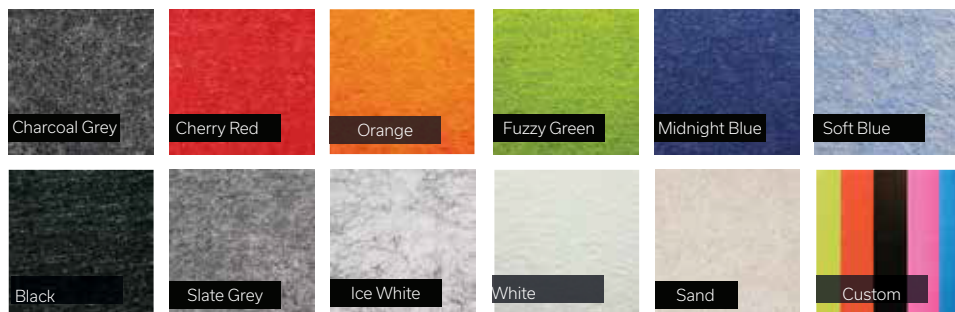
Length	1200mm/2.5kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Width	2400mm/5kg	
Height	24mm	
	300mm	

**Alpha - Baffles**

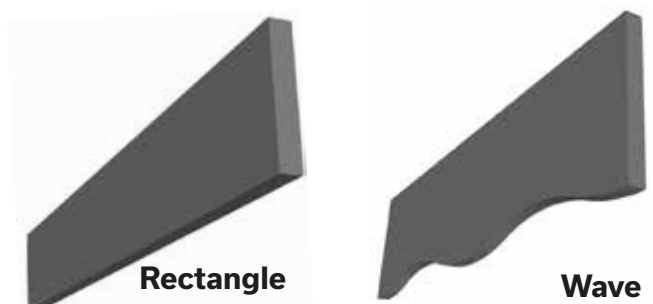
**Description**

Alpha Baffles are used when wall space is limited or when the room is very large. The big difference between a wall panel and a baffle is that all sides of a baffle are exposed increasing the ability to absorb sound. Our 'H' Bar fixing system allows for easy direct fixing or suspension of the baffle to the ceiling enhancing the design capabilities.

**Colour Range**



**Shapes**





**Technical Data**

<b>Product Name</b>	Alpha Wall Covering
<b>Composition</b>	100% Polyester Fibre [PET]
<b>Thickness</b>	6mm/12mm
<b>Weight</b>	6mm 1.4kg m <sup>2</sup> 12mm 2.8kg m <sup>2</sup> [±10%]
<b>Fire Specification</b>	EN13501-:2007+A1:2009 B-s1,d0
<b>Formaldehyde Emission</b>	0.00 ug/g
<b>VOC Emission</b>	<0.02mg/m <sup>2</sup>
<b>OKEO TEX</b>	Standard 100 - Class 1
<b>Recyclable Content</b>	100%

**Standard Size**

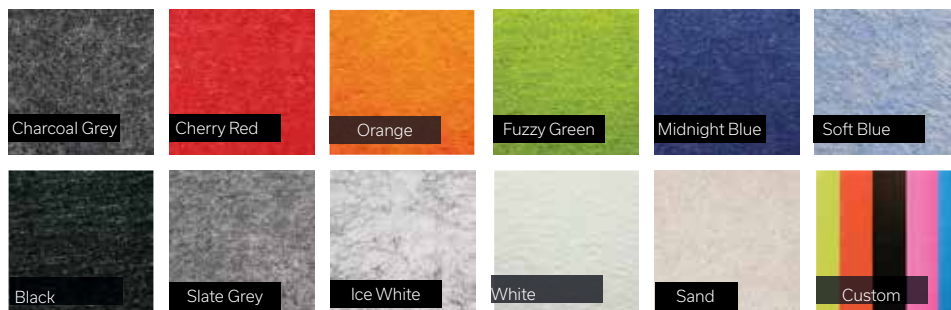
<b>Weight</b>	3.6 kg / 7.2kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
<b>Length</b>	2800mm	
<b>Width</b>	1250mm	

**Alpha - Wall Covering**

**Description**

The Alpha Wall Covering is a lightweight self-adhesive backed wall cover. Panels are fixed directly to hard surfaces to help reduce echo and improve room user well-being. Alpha Wall Coverings come in both 6 and 12mm and a range of 11 colours. We can even print bespoke patterns, company logos and slogans directly onto your sheet to help improve room aesthetics.

**Colour Range**



**Options**

<b>Optional</b>	<b>Printed</b>
<b>Optional</b>	<b>6mm/12mm Sheets</b>



## Technical Data

Product Name	Alpha Etched
Composition	100% Polyester Fibre [PET]
NRC	0.45
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

Weight	8.4kg
Length	2800mm
Width	1250mm

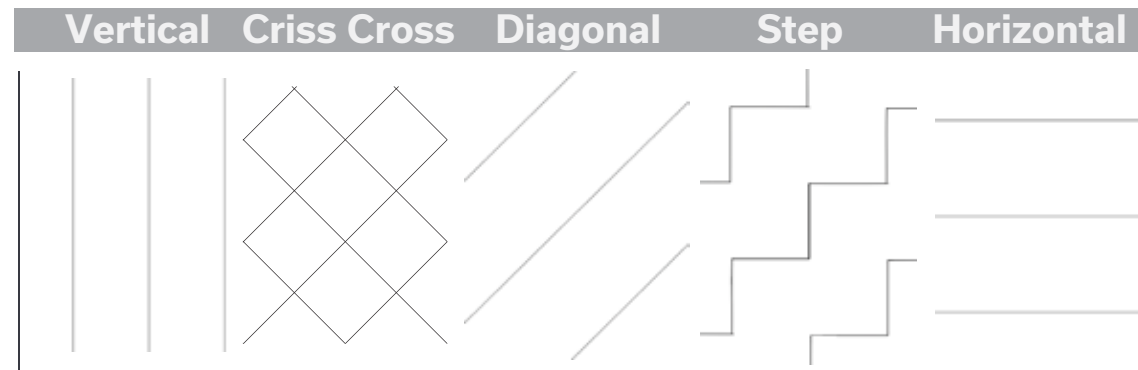
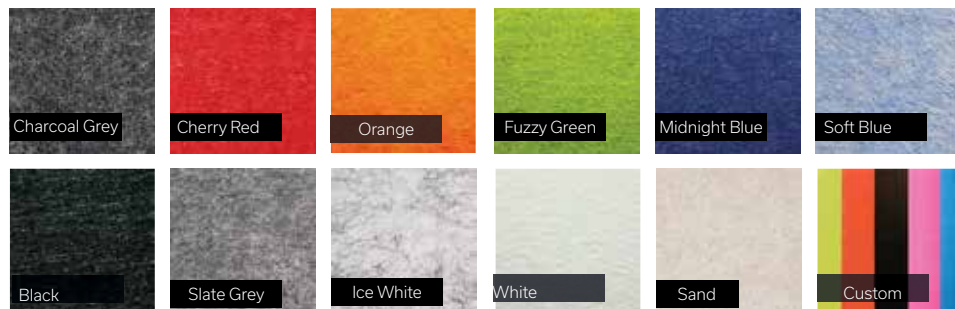
Not the size you need?  
Not to worry, we can fully  
customise the design to your  
requirement.

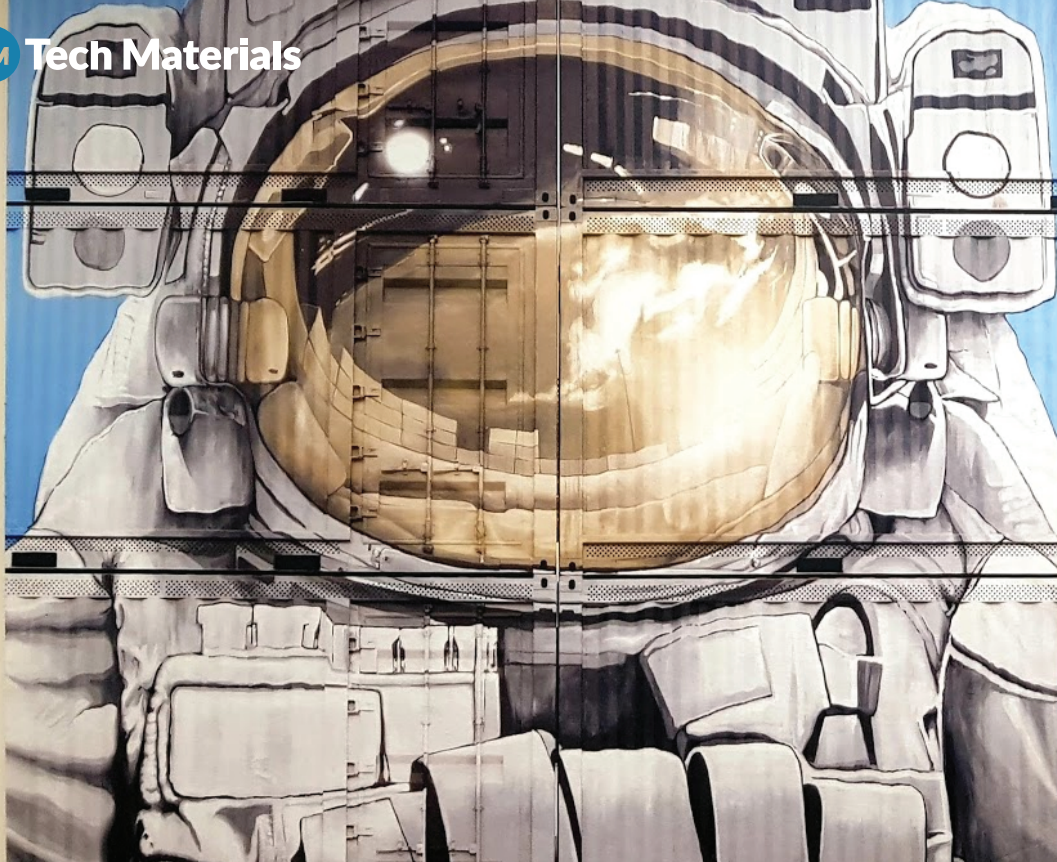
## Alpha™ - Etched

### Description

Alpha Etched is a polyester acoustic wall covering combining design, colour and texture. Available in 5 standard patterns or Etched to your custom design. Alpha Etched is self-adhesive backed for overlaying directly to your chosen surface. The panels are supplied in 1250mm x 2800mm sheets in 6mm for a seamless floor to ceiling coverage.

### Colour Range





## Technical Data

Product Name	Alpha Acoustic Art
Composition	100% Polyester Fibre [PET]
NRC	0.45
Thickness	12mm
Weight	2.4kg m <sup>2</sup> [±10%]
Fire Specification	EN13501-:2007+A1:2009 B - s1, d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m <sup>2</sup>
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

1200mm x 900mm x 12mm  
800mm x 600mm x 12mm

Not the size you need?  
Not to worry, we can fully  
customise the design to  
your requirement.

## Alpha - Acoustic Art

### Description

Alpha Print comes with a self-adhesive backing for quick and easy fitting. Alpha Print helps to improve brand awareness, creativity and user wellbeing in a wide range of environments. Tech Materials can print any image directly onto Alpha panels using our in-house flatbed printer. Designs can be printed onto single panels or across multiple panels to maximise wall coverage.

### Colour Range



## Image Requirements

**Licencing:** Please ensure you have the rights to use the images we print.

**File Requirement:** High-Resolution PDF

**Recommend Image Resolution:** 300dpi

**Minimum Image Size:** 1500px x 1500px

**Maximum Printing Capability:** 1500mm x 3000mm x 100mm



## Technical Data

Product Name	Alpha Screens
Composition	100% Polyester Fibre [PET]
Thickness	12mm/ 24mm
Weight	12.4kg m <sup>2</sup> / 4.8kg m <sup>2</sup> [±10%]
Fire Specification	EN13501:-2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m <sup>2</sup>
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

Weight	6.7kg
Length	2300mm
Width	1220mm

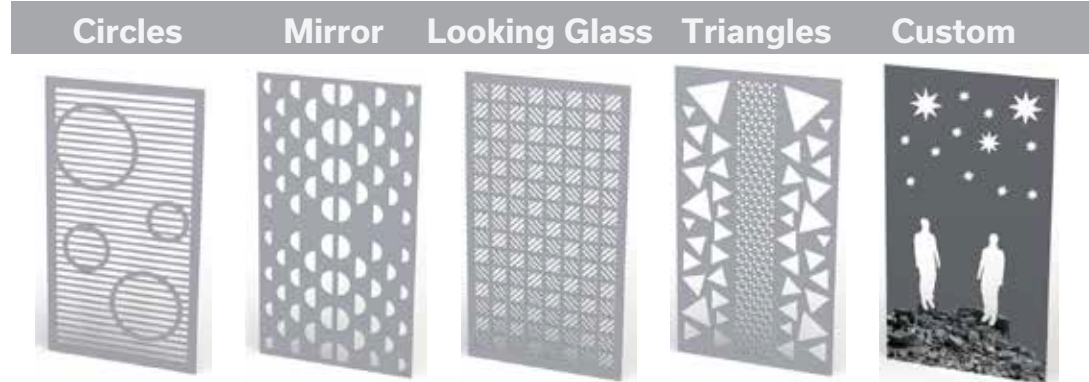
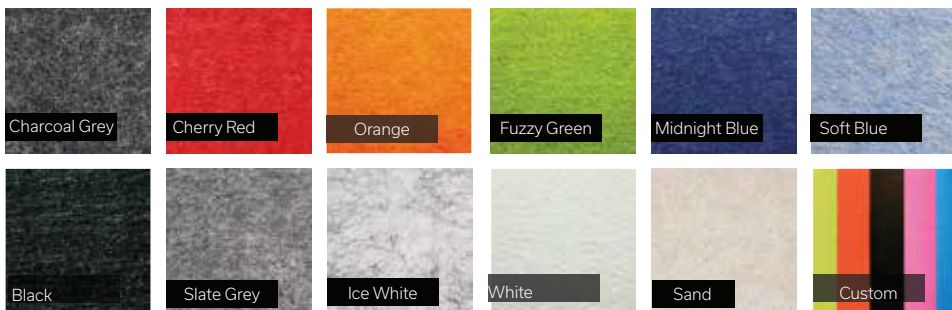
Not the size you need?  
Not to worry, we can fully  
customise the design to  
your requirement.

## Alpha - Screen

### Description

A lightweight, semi-rigid, decorative acoustic screen. Manufactured with solid colour throughout. Typically used to improve a rooms acoustic performance and user privacy. Alpha screens can be used creatively to enhance room design and user wellbeing.

### Colour Range





## Technical Data

Product Name	Alpha Desk Divider
Composition	100% Polyester Fibre [PET]
Thickness	24mm
Weight	4.8kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

Weight	4/7 kg
Length	750 mm
Width	630 mm

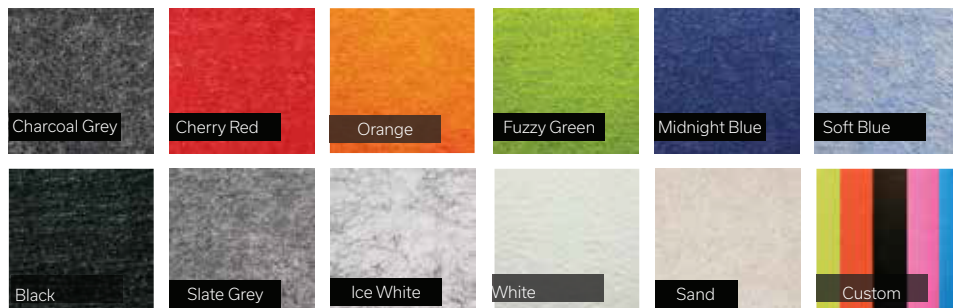
Not the size you need?  
Not to worry, we can fully  
customise the design to  
your requirement.

## Alpha - Desk Divider

### Description

A lightweight, semi-rigid, decorative acoustic desk screen. Manufactured with solid colour throughout. Typically used to improve a rooms acoustic performance and user privacy. Alpha Desk Dividers can be used creatively to enhance room design and user wellbeing.

### Colour Range



### Rectangle

### Hedge

### Custom

### Options



Optional Printed

Optional 6mm/12mm



## Technical Data

Product Name	Phono
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	0.95 - Class A
Thickness	24mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

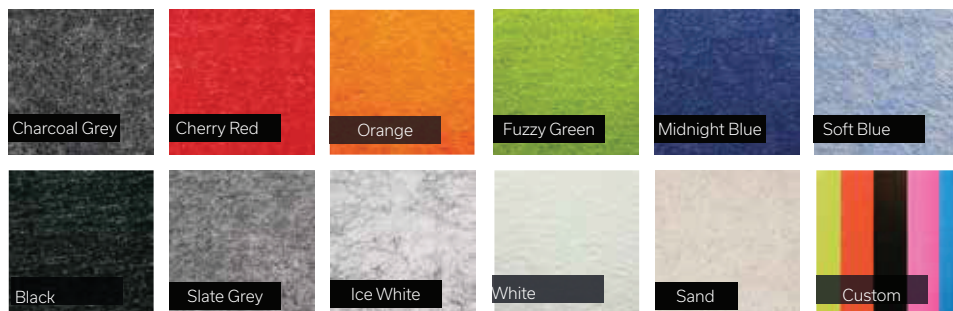
Weight	13kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	792mm	
Width	576mm	
Height	528mm	

## PHONO - Acoustic Telephone Hood

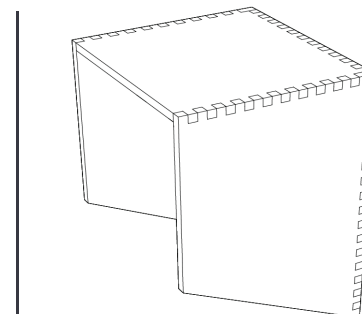
### Description

Phono is an acoustic hood that provides an invaluable space to take phone calls within a loud or busy environment. The design of Phono utilises the structural integrity of 24mm Alpha to create a wall mounted space, inspired by the common phone box that we are all familiar with. It offers a superb sound quality and provides the user with a sense of privacy both visually and acoustically to have a private discussion within a busy working environment.

### Colour Range

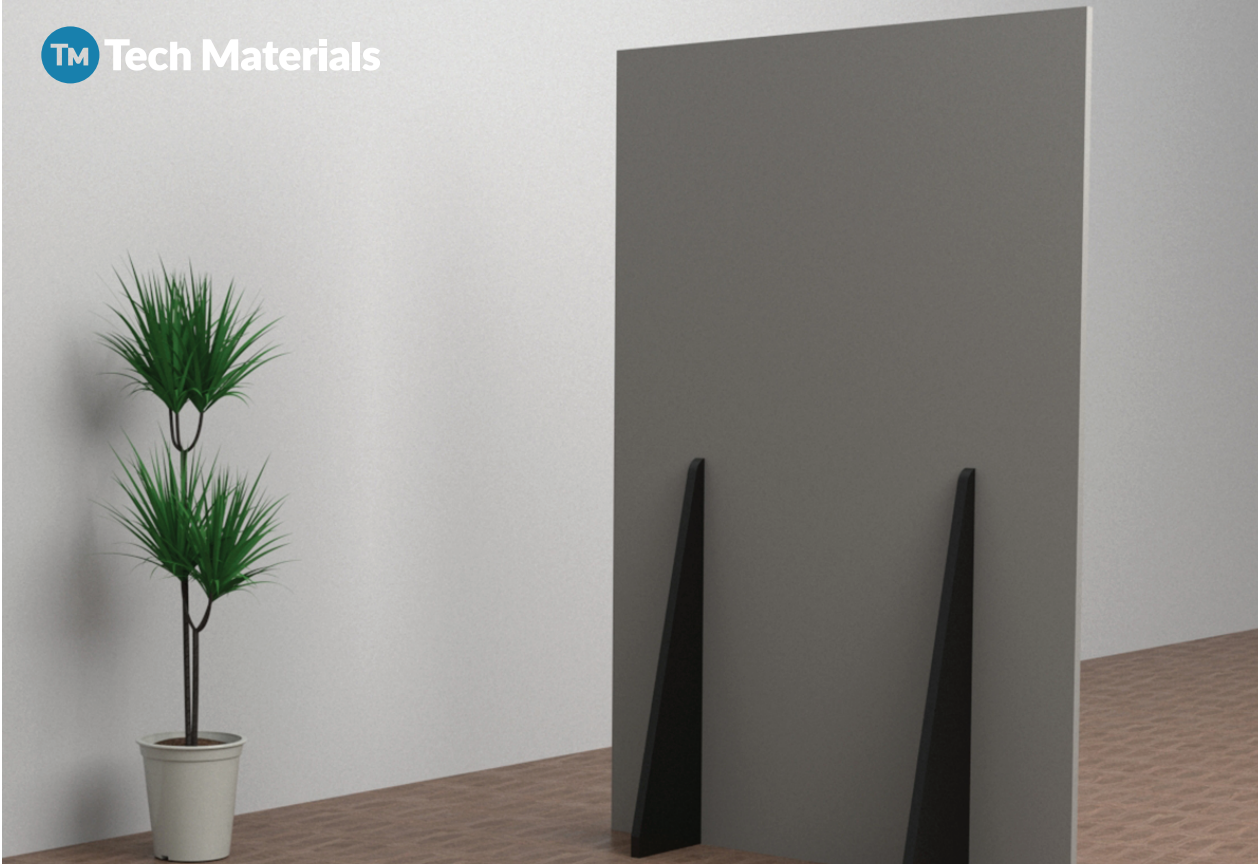


## Product Image



## Collaboration

**Product:** PHONO  
**Material:** Alpha24 / 3D Note™  
**In Collaboration With:** iKoustic



## Technical Data

Product Name	Standing Note™
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	0.95 - Class A
Thickness	24mm
Weight	2.4kg m2 [±10%]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

Depth	500mm
Width	1200mm
Height	1850mm

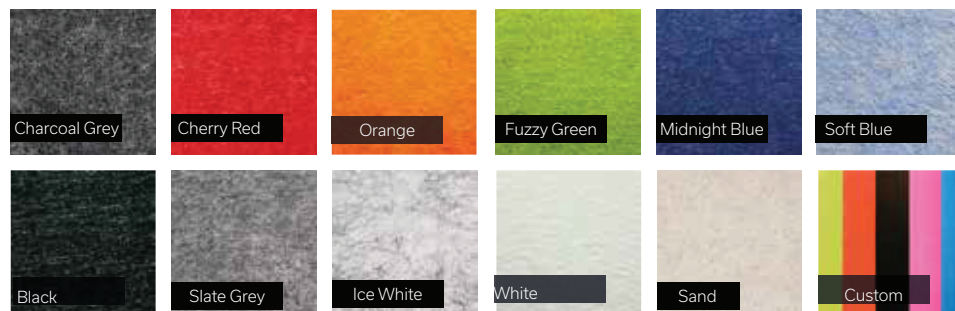
Not the size you need?  
Not to worry, we can fully  
customise the design to your  
requirement.

## Standing Note™ - Free Standing Acoustic Screen

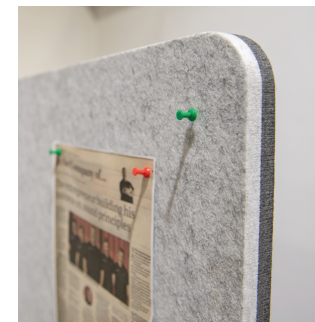
### Description

Visually and physically dividing up the space of an office or work place - Standing Note™ is a free-standing partition that offers superb absorptive qualities improving the sound quality of a space, as well as blocking the ambient sound of an open plan office. Standing Note™ can be easily moved around a space to create new dynamic working environments, these spaces offer a superior soundscape thus improving speech clarity.

### Colour Range



### Product Image



### Collaboration

**Product:** Standing Note™  
**Material:** Alpha24 / 3D Note™  
**In Collaboration With:** iKoustic



**Technical Data**

Product Name	AlphaGeo Wall Panel
Composition	100% Polyester Fibre [PET]
Sound Absorption	0.45 NRC
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

**Standard Size**

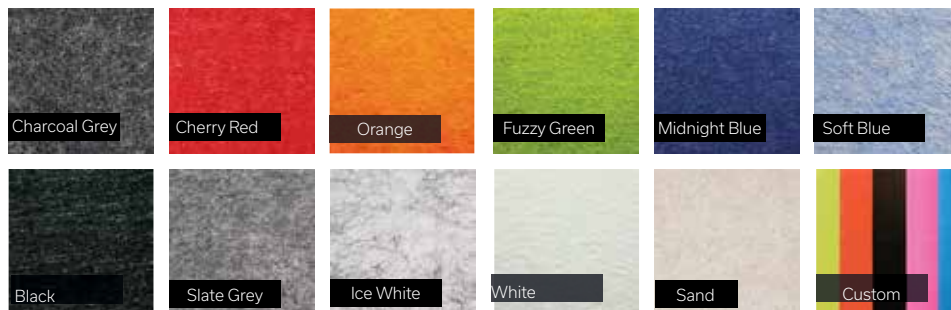
Circle	Hexagon	Square	Triangle
1200mm Dia	1100mm Wide	1200mm	1200mm
600mm Dia	500mm Wide	600mm	600mm
300mm Dia	200mm Wide	300 mm	300mm

**AlphaGeo - Wall Panels**

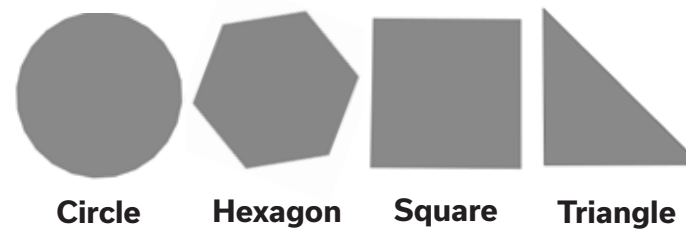
**Description**

AlphaGeo wall panels are a decorative wall mounted acoustic panel used to control room noise. Supplied in a range of geometric shapes and a variety of sizes allowing you to Create a bold design statement. AlphaGeo wall panels are self-adhesive backed for quick and easy installation, providing an affordable acoustic solution.

**Colour Range**



**Shapes**



**Optional** **Printed**  
**Available** **Custom Shape**



**Technical Data**

Product Name	Pangolin
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	1
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

**Standard Size**

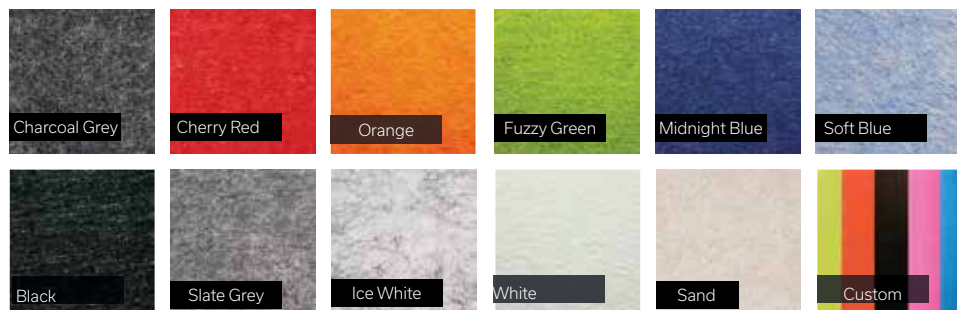
Weight	12kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	1400mm	
Width	1400mm	
Height	1500mm	

**Suspended Acoustic Absorber - Pangolin**

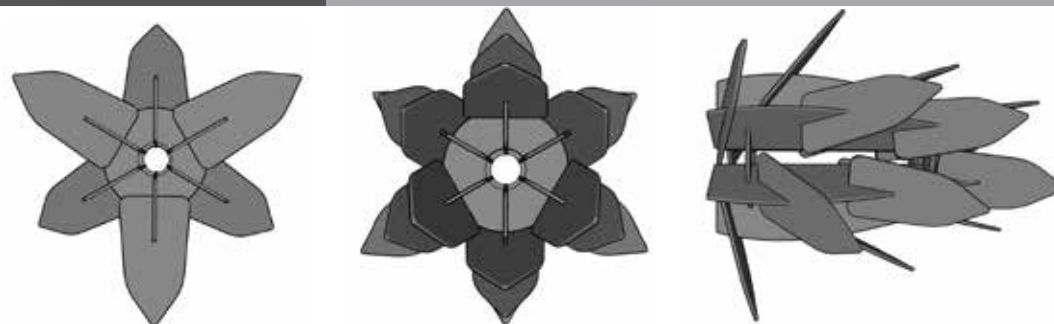
**Description**

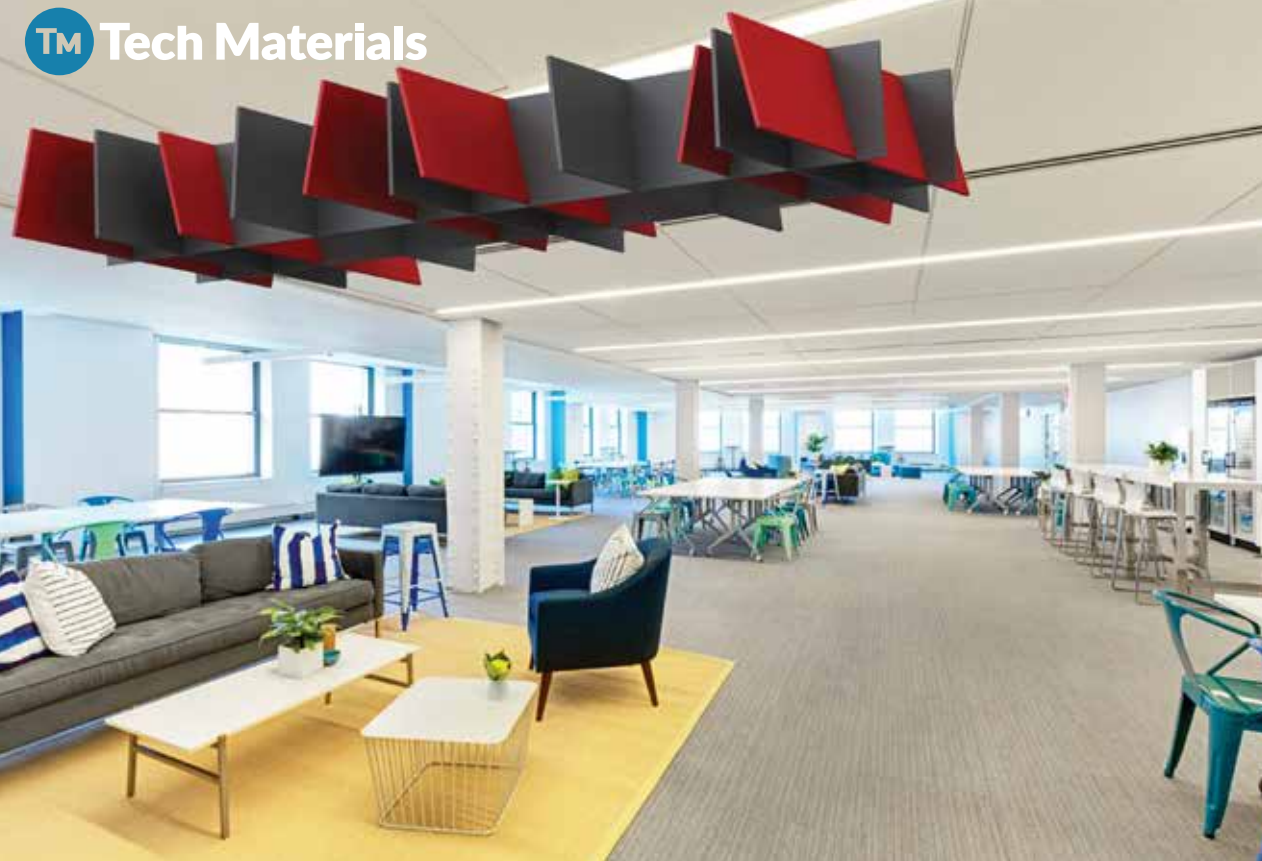
The Alpha pangolin is a unique class A acoustic solution designed for auditoriums, stairwells and high ceiling spaces experiencing reverberation problems. The Pangolin™ inspiration is taken from the mammal with the same name, using its burrowing claws and cascading scales for inspiration.

**Colour Range**



**Elevations**





## Technical Data

Product Name	Zone
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	1
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

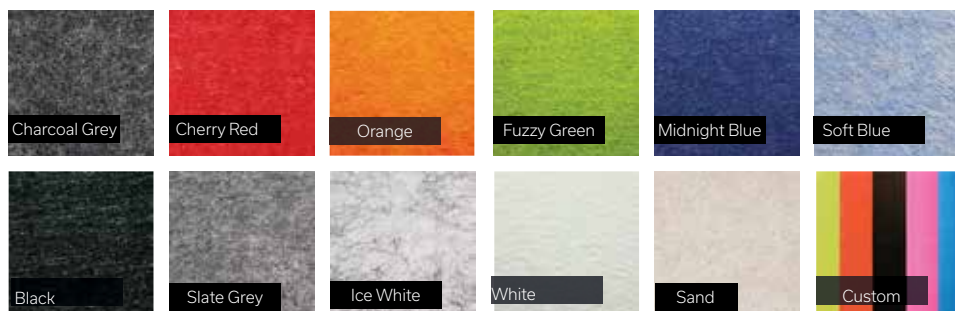
Weight	12kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	2400mm	
Width	1550mm	
Height	300mm	

## Suspended Acoustic Absorber - Zone

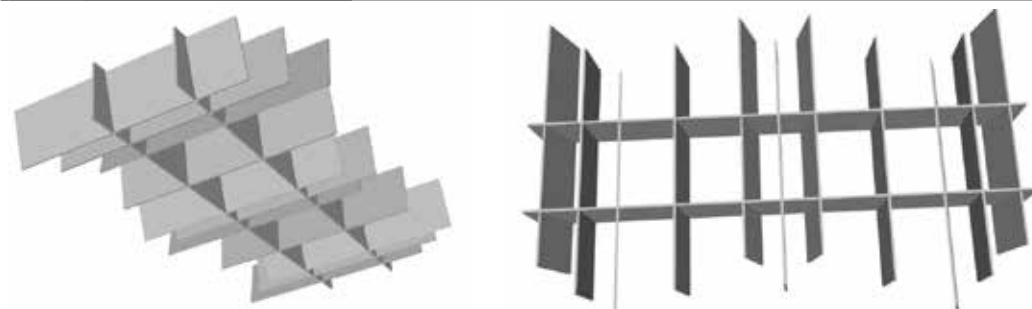
### Description

The Alpha Zone suspended acoustic absorber has taken a traditional hanging raft and zoned in on maximum acoustic absorption. By angling the cross sections towards the noise source the Zone funnels and defuses sound energy through the absorber. Zone is an excellent solution for open plan workspaces, large meeting rooms, rest areas and restaurants.

### Colour Range



### Elevations





**Technical Data**

Product Name	Lotus
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	1
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

**Standard Size**

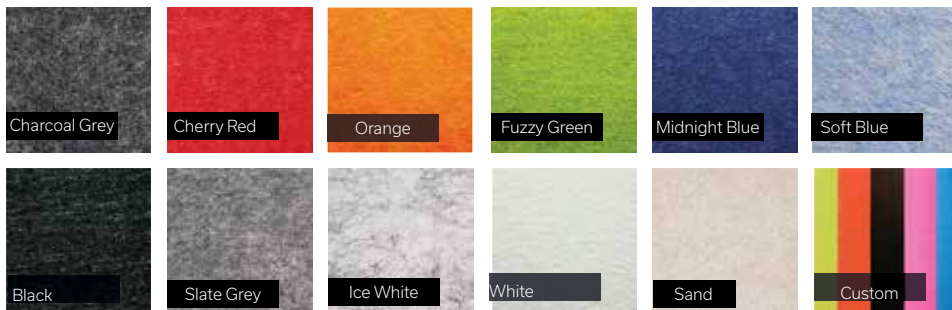
Weight	2.5kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	500mm	
Width	500mm	
Height	350mm	

**Lotus - Suspended Acoustic Absorber**

**Description**

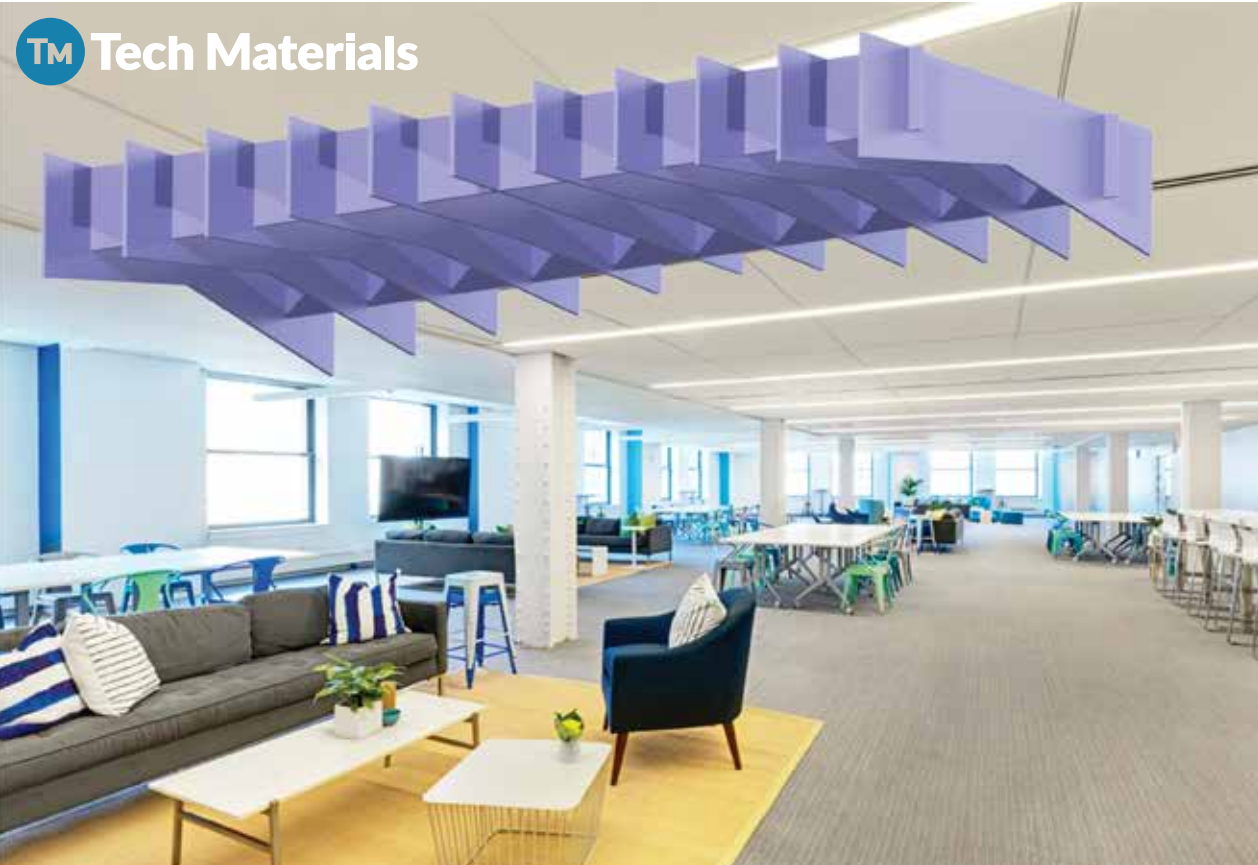
The Alpha Lotus suspended acoustic absorber has been designed for when space is premium, but creativity is a must. These beautiful absorbers can be used in singles or grouped to create a colourful ceiling bouquet. Choose from fixing direct to the ceiling or suspended if space permits.

**Colour Range**



**Elevations**





**Technical Data**

Product Name	Chevron
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	1
Thickness	12mm
Weight	2.4kg m2 [ $\pm 10\%$ ]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m2
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

**Standard Size**

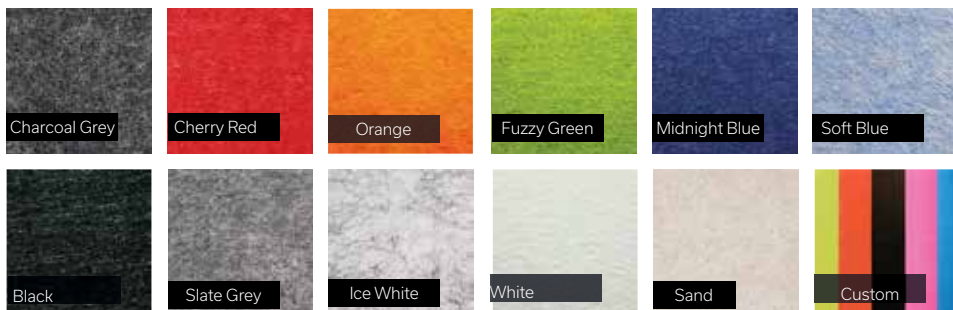
Weight	12kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	2400mm	
Width	1550mm	
Height	300mm	

**Suspended Acoustic Absorber - Chevron**

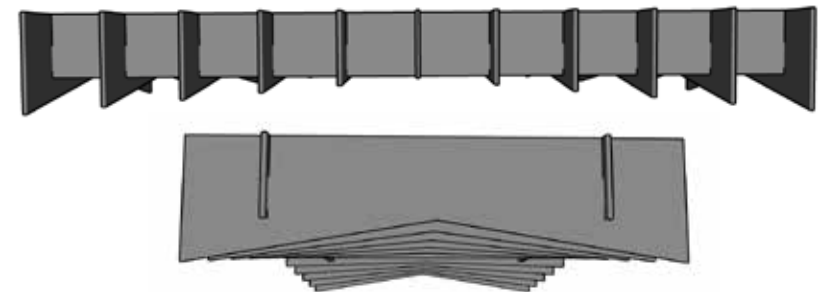
**Description**

The Alpha Chevron suspended acoustic absorber as taken a traditional hanging raft and improved technical performance and design impact. The chevron design defuses sound energy throughout the absorber. Chevron is an excellent solution for open plan workspaces, board rooms, rest areas and restaurants.

**Colour Range**



**Elevations**





## Technical Data

Product Name	Seesaw
Composition	100% Polyester Fibre [PET]
Sound Absorption NRC	1
Thickness	12mm
Weight	2.4kg m <sup>2</sup> [±10%]
Fire Specification	EN13501-:2007+A1:2009 B-s1,d0
Formaldehyde Emission	0.00 ug/g
VOC Emission	<0.02mg/m <sup>2</sup>
OKEO TEX	Standard 100 - Class 1
Recyclable Content	100%

## Standard Size

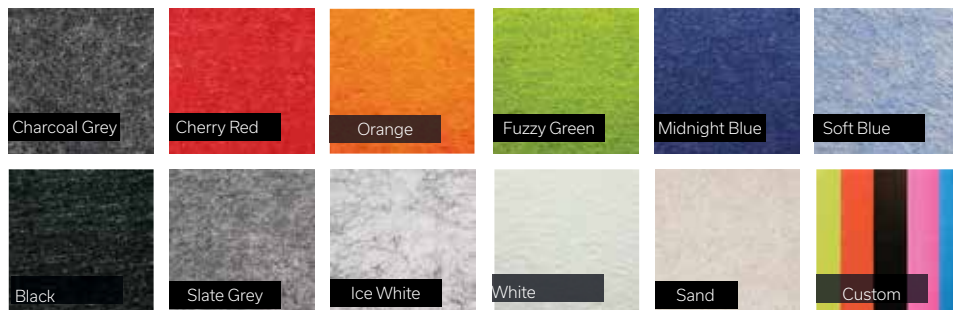
Weight	12kg	Not the size you need? Not to worry, we can fully customise the design to your requirement.
Length	2350mm	
Width	1610mm	
Height	300mm	

## Suspended Acoustic Absorber - Seesaw

### Description

Tech materials range of suspended acoustic absorbers for when the ordinary will not do. The extraordinary Alpha suspended acoustic absorbers are to be beautifully functional with a high degree of design impact. The Seesaw takes its inspiration from the playground bringing a sense of fun into your space.

### Colour Range



### Elevations

