

CASCADE HANGING SCREENS





CASCADE™
STATIC SCREENS
DESIGN: S4
COLOURS: GALAXY,
SENADO, ZENITH
& IRONBANK

CASCADE HANGING SCREENS

Open plan environments never need to feel overwhelming as we bring you our most stylish and forward thinking solution to create privacy. Cascade™, just like its name suggests, is a collection of acoustic hanging screens that simply fall from the ceiling in unique patterns designed with your privacy in mind.

Cascade™ Hanging Screens are made using a lightweight semi-rigid acoustic panel with water-cut patterns allowing line of sight to remain, but with a visual sense of division. Our latest system transforms our sustainable, low VOC panels into beautiful suspended screens available in three different styles; Static, Folding and Expanding, all with their own set of patterns to choose from. But don't let this wide range of solutions halt your creativity, as our design team are on hand to turn any of your ideas into reality.

At the heart of Cascade™, just like all our products, is its exceptional acoustic performance. With each style tailored for targeted sound absorption, you can be sure that your offices, meeting areas, breakout spaces and lobbies will feel calm as background chatter melts through each screen.

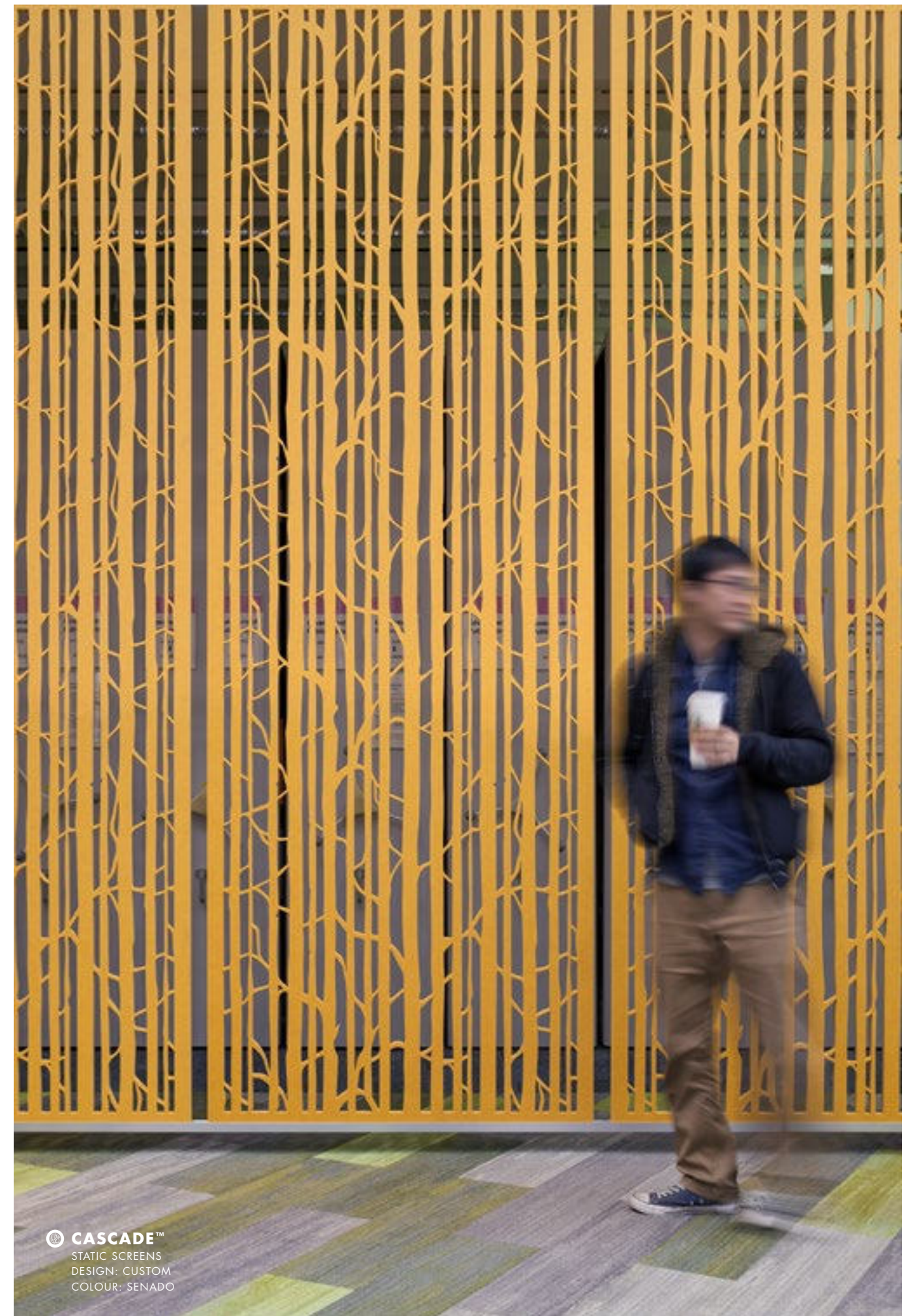
Because we want to make things easy, Cascade™ comes with its own high quality unique fixing system ready for a simple and seamless install. All that's left is for you to pick your favourite.

CASCADE

HANGING SCREENS

FEATURES AND BENEFITS

- Delivers excellent acoustic performance
- A complete system, simple to install straight out of the box
- A wide range of designs and colours
- Lightweight and incredibly easy to handle onsite
- Easily retrofitted to existing spaces
- Semi-permanent so that you can change your space as required
- Environmentally conscious product with recycled material content and no added chemical binders
- Cascade™ is low VOC, non-toxic, non-irritant and non-allergenic and contains no Red List chemicals so you know it's safe and great for indoor environmental quality (IEQ)
- Custom designs available
- Fixed or suspended acoustic partition system, improving your internal environment by lowering reverberation and background chatter
- Creates breakout zones in large open plan areas
- A feature element or a subtle backdrop
- Creates the feel of privacy in open-plan areas
- Easily added in acoustic absorption for reverberant spaces



 **CASCADE™**
STATIC SCREENS
DESIGN: CUSTOM
COLOUR: SENADO

 **CASCADE™**
FOLDING SCREENS
DESIGN: F3
COLOUR: BOSCO



BETTER ACOUSTICS

Acoustic absorption in open plan spaces is often forgotten but when properly considered will ensure spaces are fit for purpose and enhance speech intelligibility, increase attention spans and productivity.


Cascade™ Hanging Screens is the latest addition to our acoustic interiors range. It was created to introduce acoustic absorption whilst providing a means to visually divide a space.


Adding Cascade™ Hanging Screens increases the surface area of absorptive material in turn reducing sound reflections and background chatter. Cascade™ by Autex fuses great design with excellent acoustic performance, enhancing the way we live, work and play within our built environment.

CASCADE™

HANGING SCREENS

Cascade™ is a range of hanging screens created to easily add a design feature, create a feel of separation or privacy, whilst helping control noise within open plan spaces. We have released 3 designs; Static, Folding and Expanding, using a 12mm Cube™ acoustic panel matched with our channel and suspension system. What makes Cascade™ unique is the patented designs of both Folding and Expanding screens which pull and push apart to create the pattern without any cut out pieces going to waste. This allows half the material to go twice the distance, continuing our commitment to push innovation while being mindful of the environment.

 **CASCADE™**
EXPANDING SCREENS
DESIGN: E3
COLOUR: FALLING WATER



CASCADE™
EXPANDING SCREENS
DESIGN: E4
COLOUR: BOSCO, FALLING
WATER, SENADO & ZENITH

CASCADE™

EXPANDING SCREENS

Cascade Expanding Screens are a world first in forward-thinking and space-saving acoustic design. We have developed an acoustic expanding mesh that allows intricate and modern designs to come to life, as sections of a solid panel simply pull apart while others stay together. A single panel can grow up to 100% in width through geometric action to present a truly unique and functional division of space.

At the heart of our product is one of our founding values; limiting our waste and impact on the environment. As Cascade Expanding Screens use a kinetic pattern with cuts rather than 'cut-outs', every part of the panel is utilised to enhance both the aesthetic and acoustic performance. We make a little go a long way, which is good for our environment, and for the sound control of your space.

Patented design means you won't find anything like it anywhere in the world.

PATENT

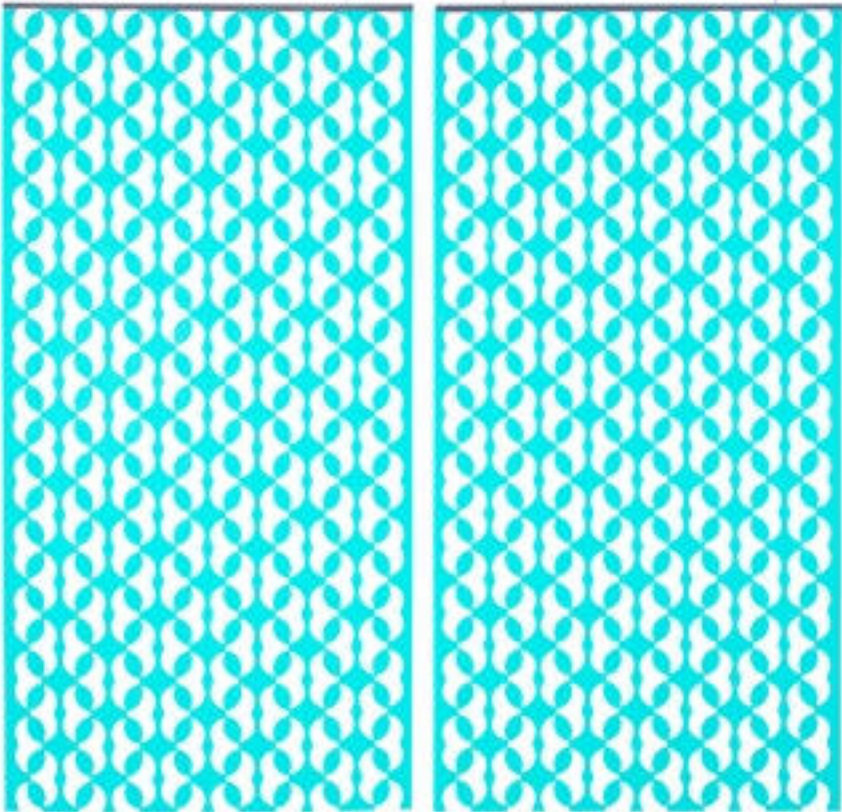
US Patent 10,184,249

PATENT PENDING FOLDING AND EXPANDING DESIGN

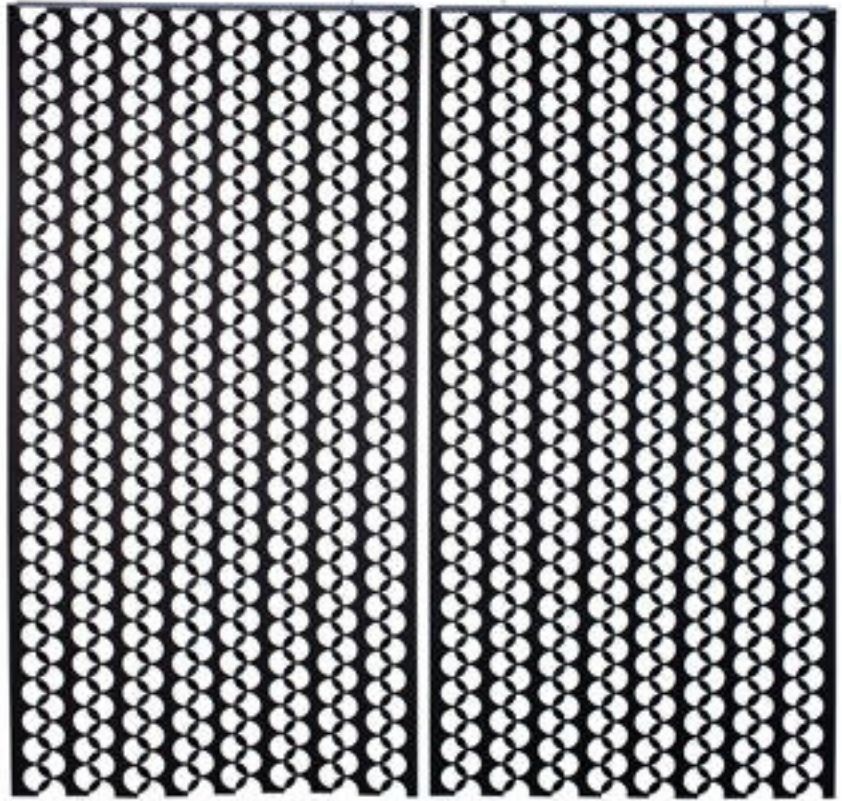
NZ 727634 | AU 2016273959 | GB 1621613.7

EXPANDING DESIGN OPTIONS

PACK CONTENTS 2 CASCADE EXPANDING SCREENS, 2 FRONTIER CHANNELS, 4 CEILING CONNECTORS, 4 1M WIRES, 4 AUTEX SUSPENSION SLIDERS



DESIGN E1 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN E2 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

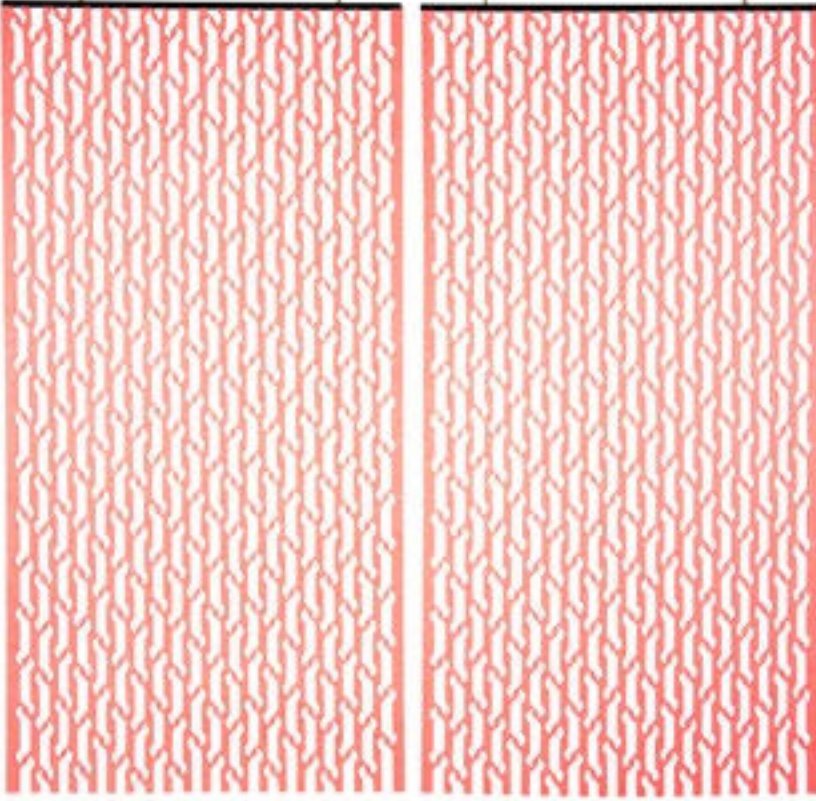
*Expanding Screens increase by 100% when fully expanded, therefore two screens are created from one panel of Cube™. Images are shown fully expanded.

EXPANDING DESIGN OPTIONS

PACK CONTENTS 2 CASCADE EXPANDING SCREENS, 2 FRONTIER CHANNELS, 4 CEILING CONNECTORS, 4 1M WIRES, 4 AUTEX SUSPENSION SLIDERS



DESIGN E3 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

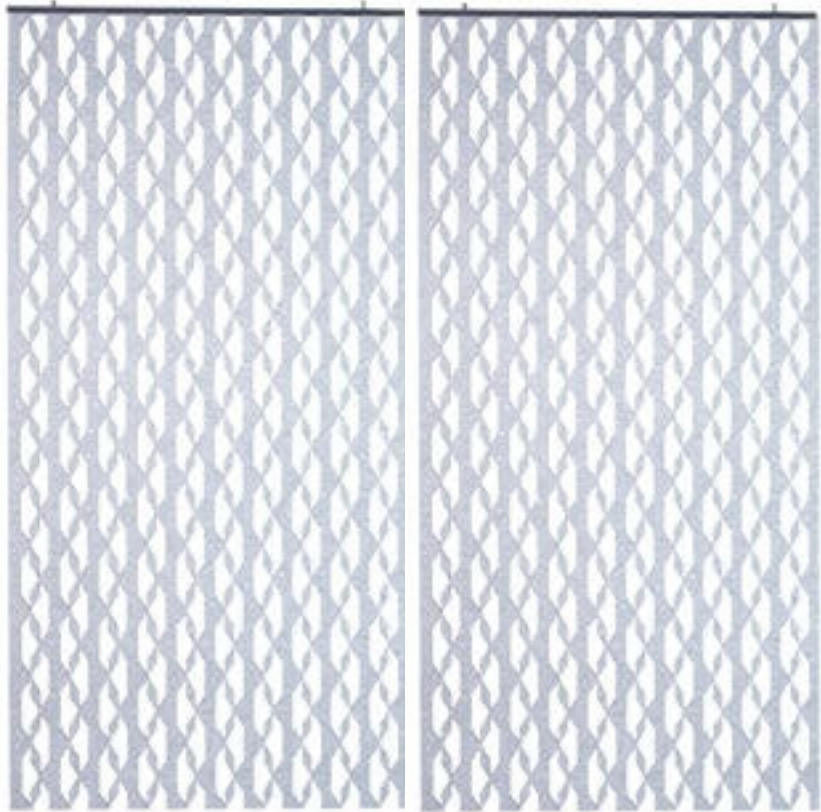


DESIGN E4 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

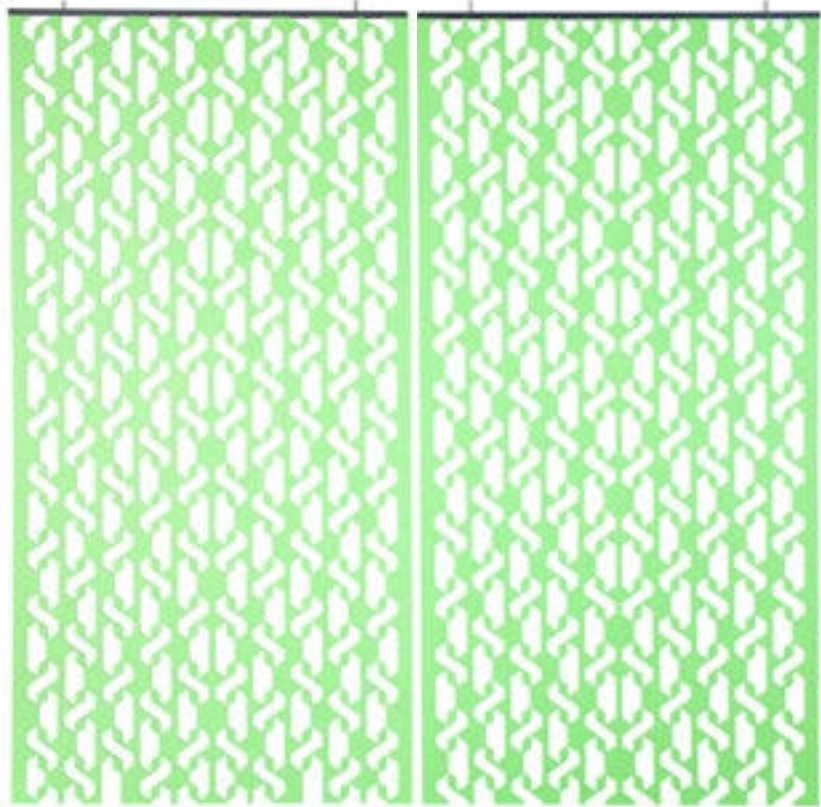
*Expanding Screens increase by 100% when fully expanded, therefore two screens are created from one panel of Cube™. Images are shown fully expanded.

EXPANDING DESIGN OPTIONS

PACK CONTENTS 2 CASCADE EXPANDING SCREENS, 2 FRONTIER CHANNELS,
4 CEILING CONNECTORS, 4 1M WIRES, 4 AUTEX SUSPENSION SLIDERS

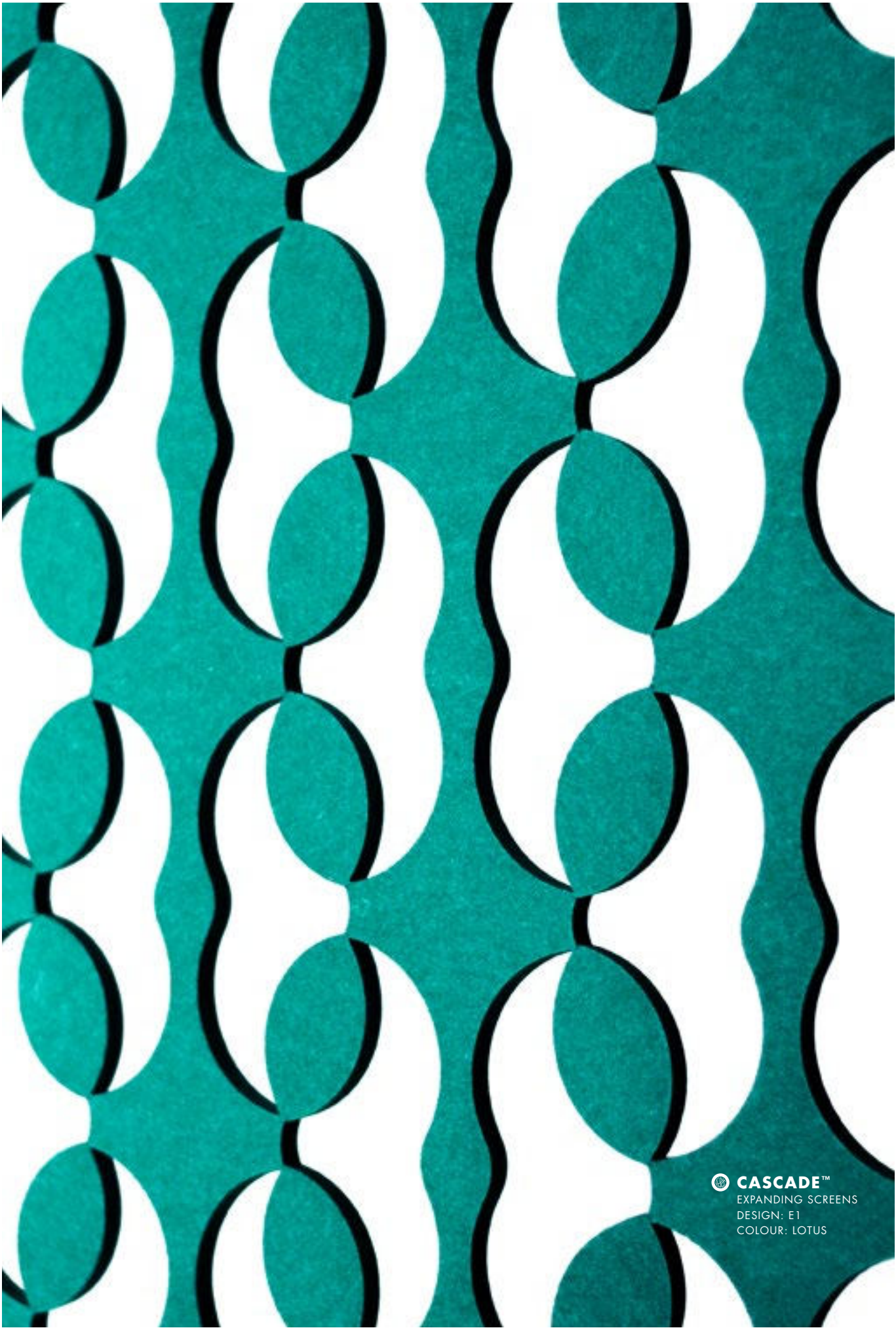


DESIGN E5 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE




DESIGN E6 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

*Expanding Screens increase by 100% when fully expanded, therefore two screens are created from one panel of Cube™. Images are shown fully expanded.



CASCADE™
EXPANDING SCREENS
DESIGN: E1
COLOUR: LOTUS

 **CASCADE™**
FOLDING SCREENS
DESIGN: F6
COLOUR: PETRONAS



CASCADE™

FOLDING SCREENS

Cascade™ Folding Screens are designed with carefully placed cuts to create texture and volume in never seen before 3D patterns. With geometric patterns that include clever hinges, shapes can simply fold forward or back to create depth, bringing a once static screen to life while strengthening the acoustic effect.

At the heart of our product is one of our founding values; limiting our waste and impact on the environment. Just like our Expanding Screens, Folding Screens utilise every part of the panel, leaving a multitude of surfaces for sound to simply melt into. We basically make a little go a long way, which is good for our environment, and for the sound control of your space.

Patented design means you won't find anything like it anywhere in the world.

PATENT

US Patent 10,184,249

PATENT PENDING FOLDING AND EXPANDING DESIGN

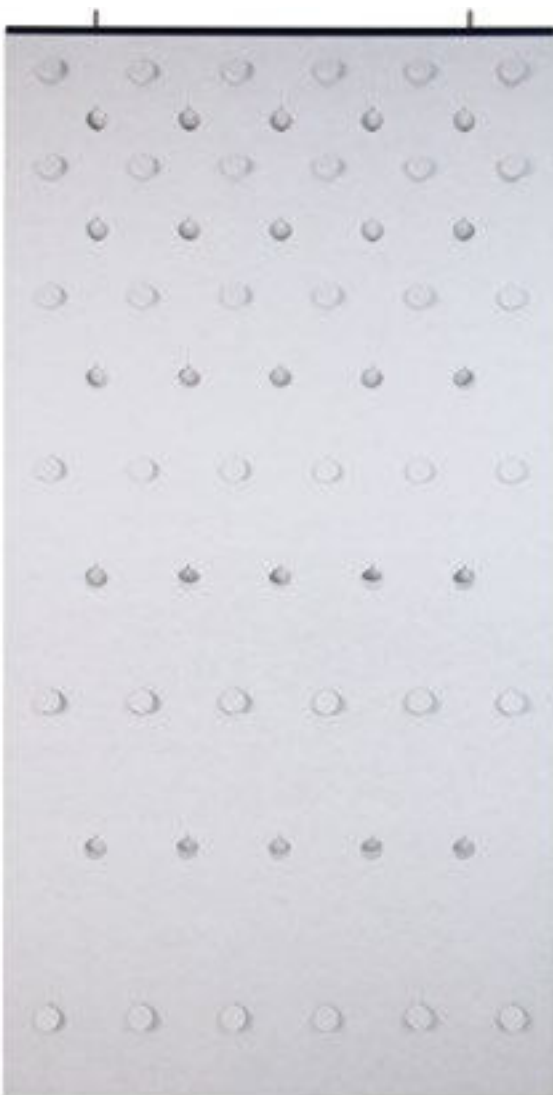
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FOLDING DESIGN OPTIONS

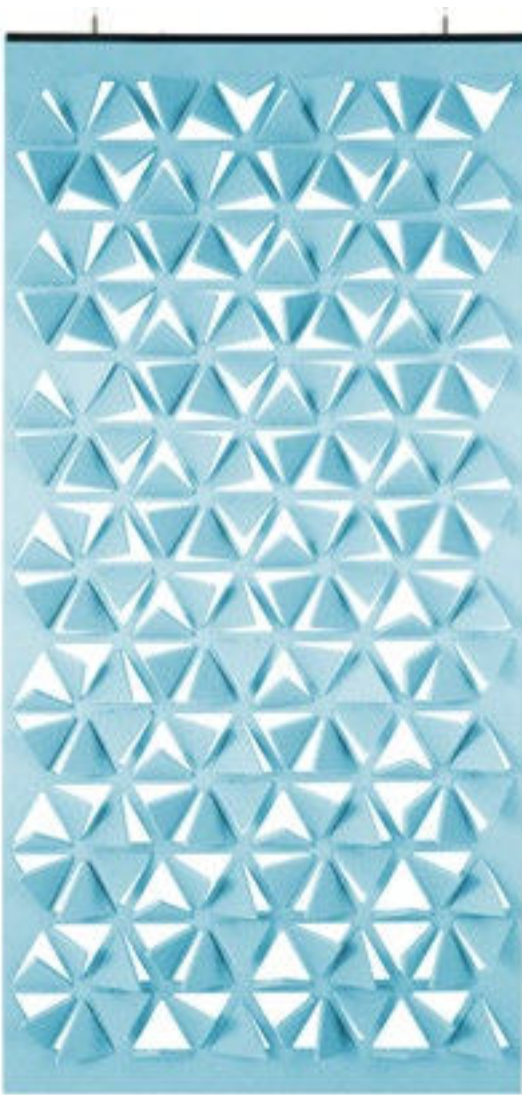
PACK CONTENTS 1 CASCADE FOLDING SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN F1 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN F2 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN F3 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



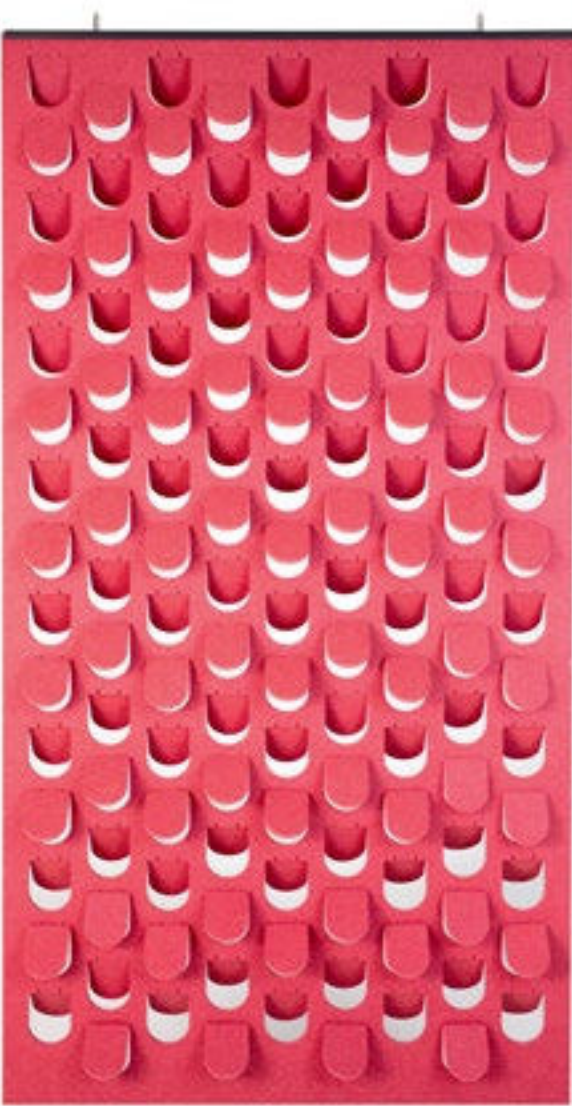
DESIGN F4 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

FOLDING DESIGN OPTIONS

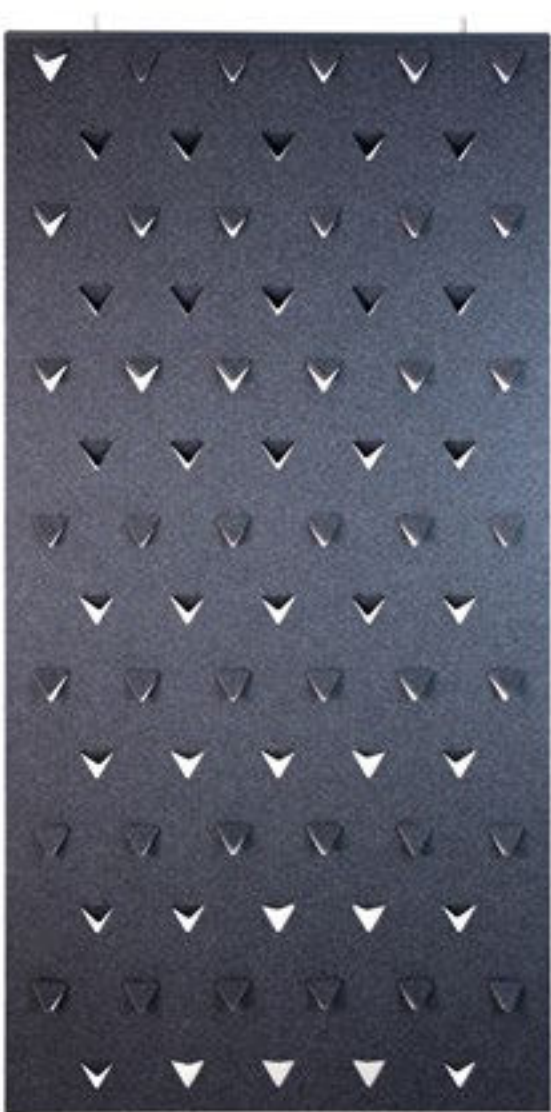
PACK CONTENTS 1 CASCADE FOLDING SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS

FOLDING DESIGN OPTIONS

PACK CONTENTS 1 CASCADE FOLDING SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN F5 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN F6 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

FOLDING DESIGN OPTIONS

PACK CONTENTS 1 CASCADE FOLDING SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN F7 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



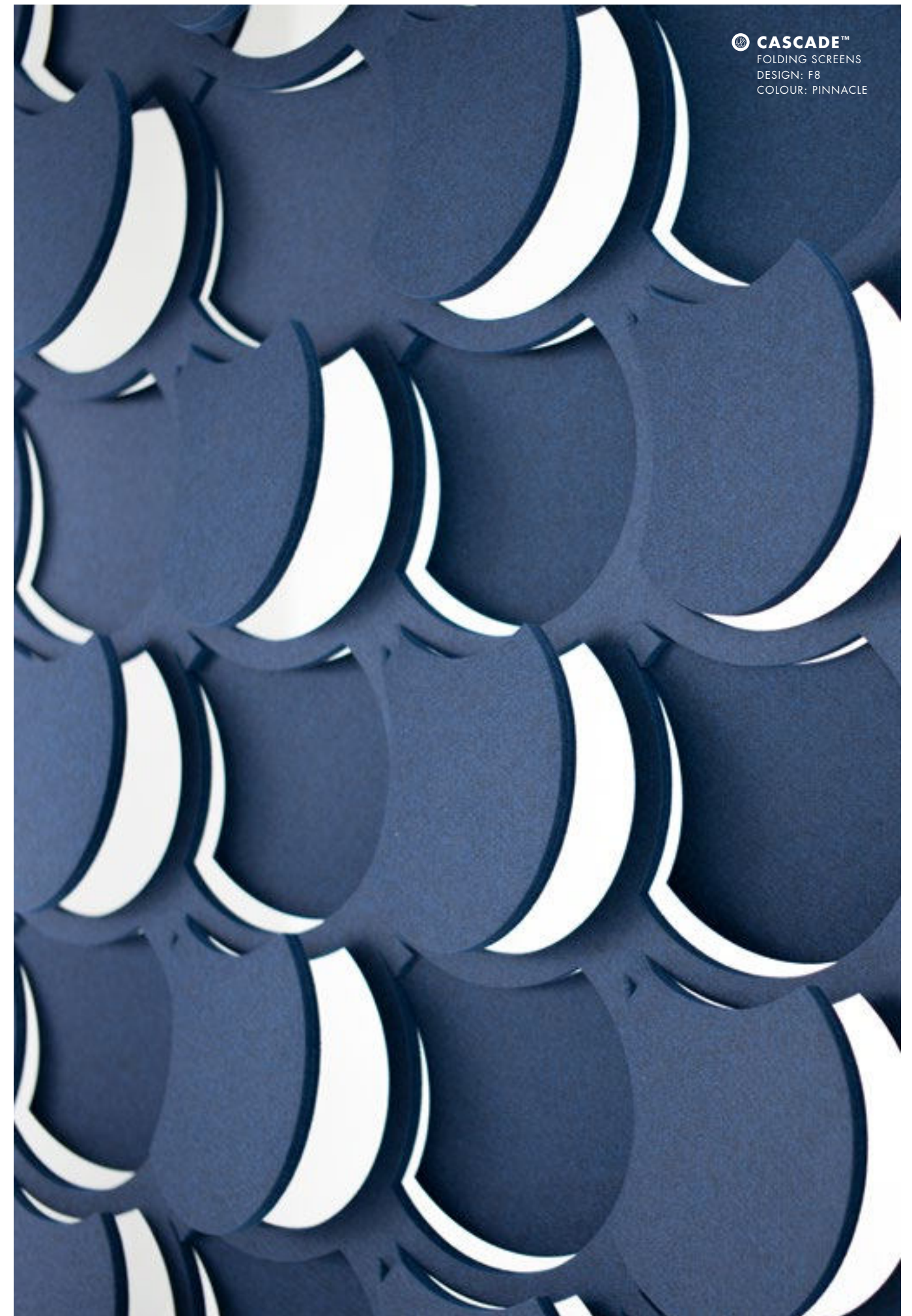
DESIGN F8 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

FOLDING DESIGN OPTIONS

PACK CONTENTS 1 CASCADE FOLDING SCREEN, 1 FRONTIER CHANNEL,
2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN F9 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE





CASCADE™
STATIC SCREENS
DESIGN: S18
COLOUR: SENADO

CASCADE™

STATIC SCREENS

We have collated our best hanging screen designs to bring you this eclectic range of effective screens for creating privacy. You can choose the level of division and line of sight best suited to your space by selecting from our wide range of geometric cut-outs. With a simple 2D effect, Static Screens perfectly blend into your current space without feeling intrusive, giving you an acoustic application that performs exceptionally and looks great too.

STATIC DESIGN OPTIONS

PACK CONTENTS 1 STATIC SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



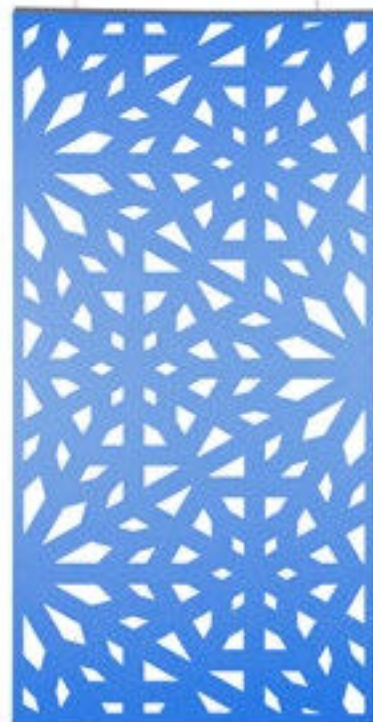
DESIGN S1 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S2 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S3 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S4 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S5 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S6 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

STATIC DESIGN OPTIONS

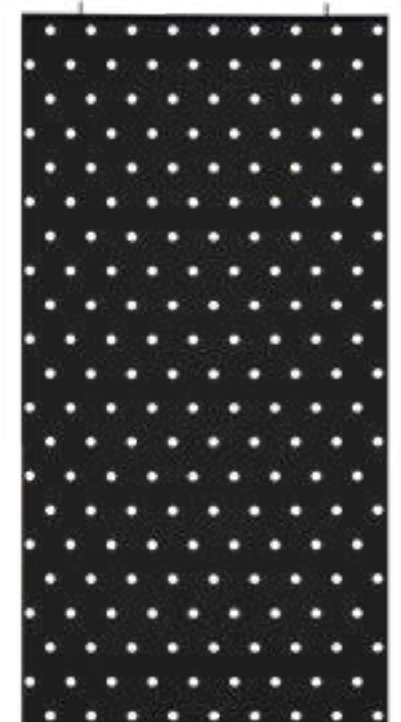
PACK CONTENTS 1 SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN S7 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S8 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S9 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S10 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S11 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



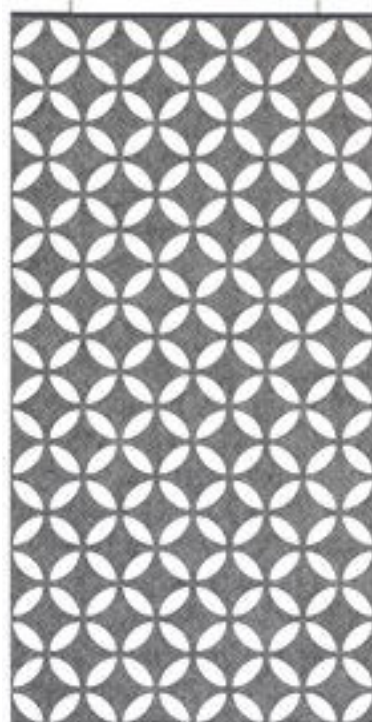
DESIGN S12 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE

STATIC DESIGN OPTIONS

PACK CONTENTS 1 STATIC SCREEN, 1 FRONTIER CHANNEL, 2 CEILING CONNECTORS, 2 1M WIRES, 2 AUTEX SUSPENSION SLIDERS



DESIGN S13 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S14 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S15 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



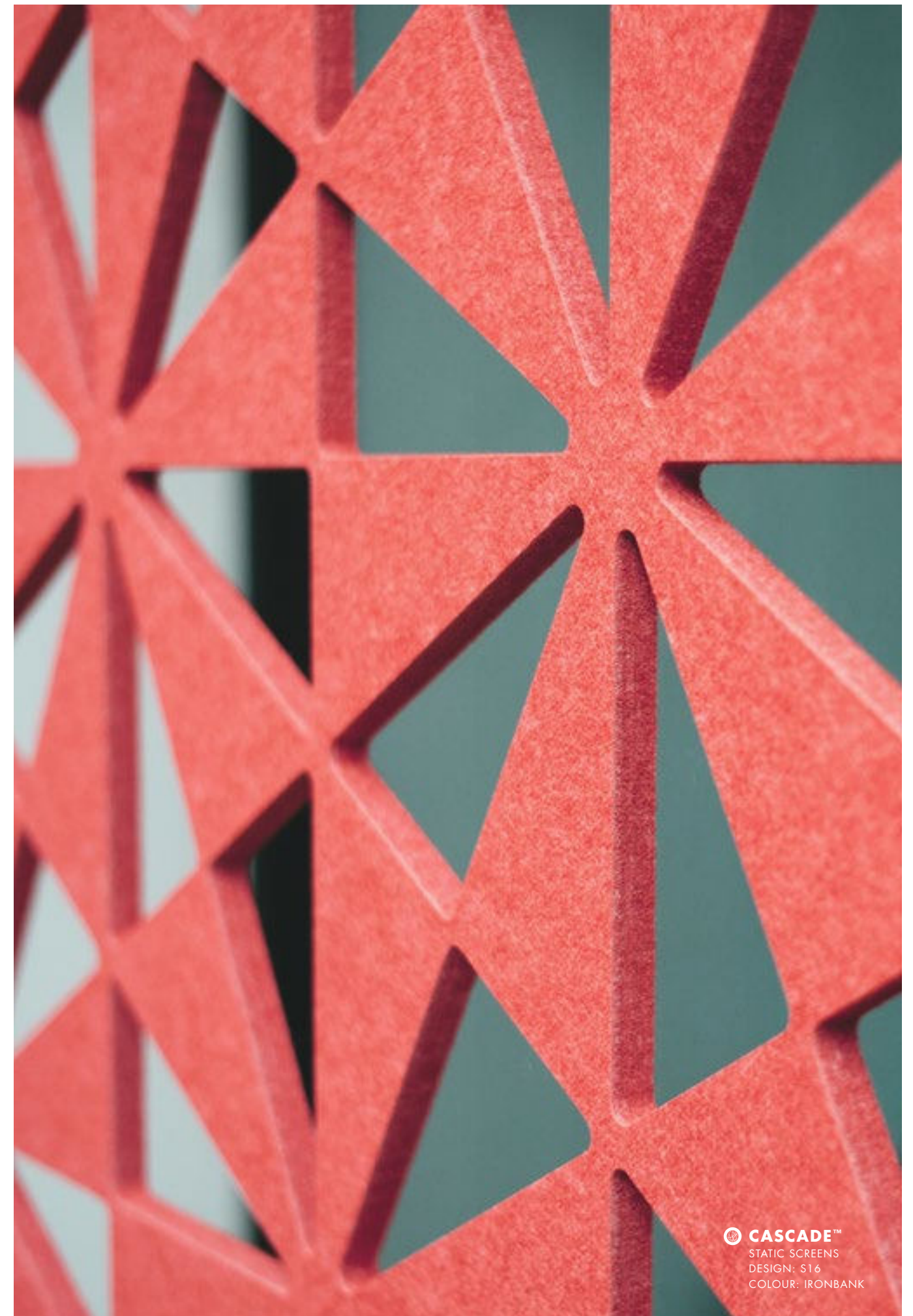
DESIGN S16 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S17 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



DESIGN S18 COLOUR SEE PAGE 33 FOR FULL COLOUR RANGE



CASCADE™

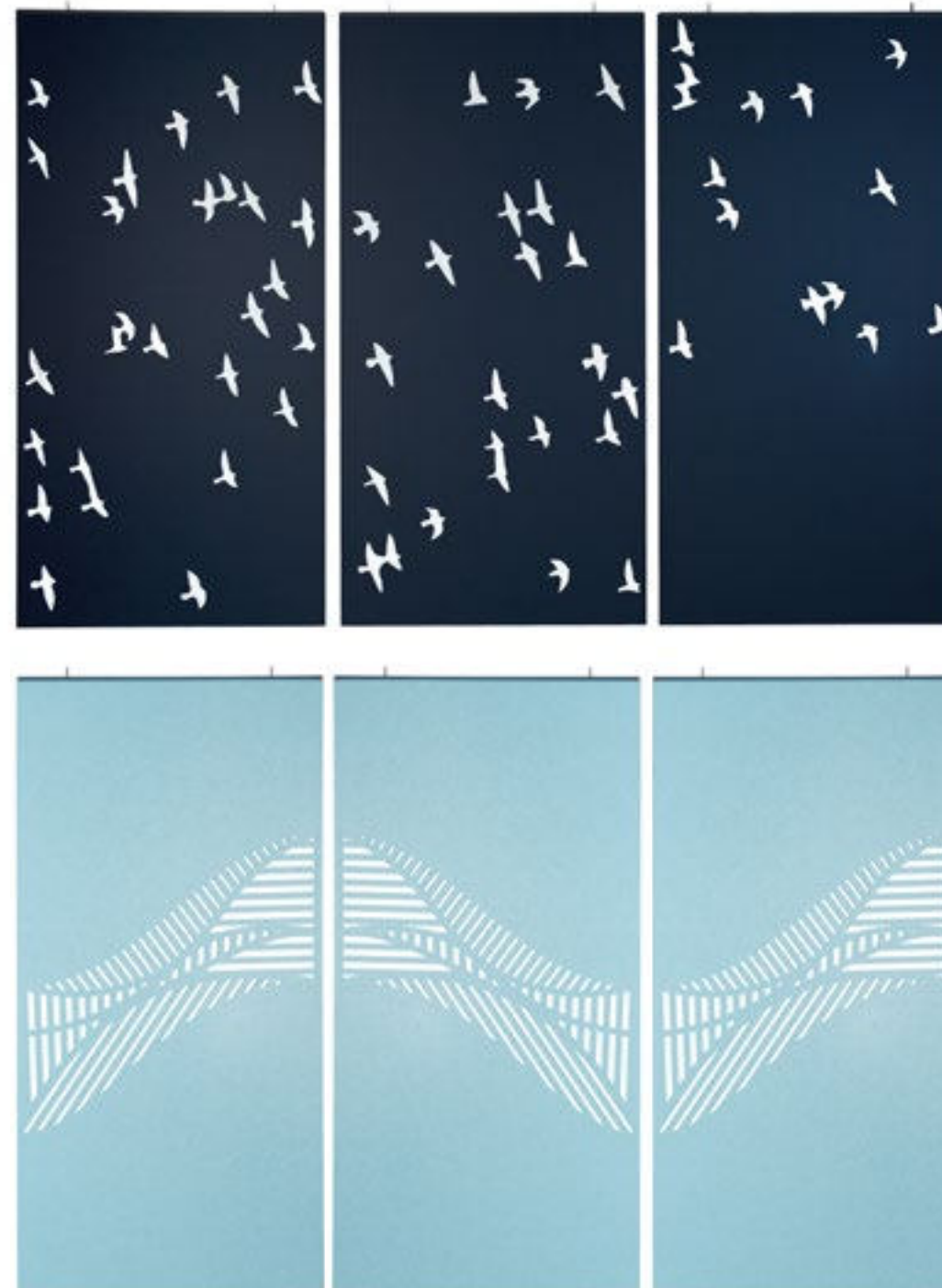
CUSTOMISATION

We know that no two projects are exactly the same, so why should the products or services going into them be?

This is why we are proud of our ability to customise any of our products to suit your needs. Being manufacturers, engineers and creatives, we have the capacity to transform, cut, mould, or build our products to create acoustic solutions truly unique to you and your space. If you have an idea, let's work together to make it happen.

If you want to customise Cascade™ for your next project, get in touch with your Autex account manager or visit our website www.autexindustries.com/contact-us

CUSTOM DESIGN EXAMPLES





COLOUR OPTIONS

IRONBANK	ZENITH	SENADO
ROSADA	OPERA	ACROS
TREE HOUSE	LOTUS	BOSCO
PINNACLE	GALAXY	FALLING WATER
EMPIRE	FLATIRON	SAVOYE
PETRONAS		

MOQ's apply to some colours. To find out more, or to order a sample, please contact your Account Manager or visit our website.

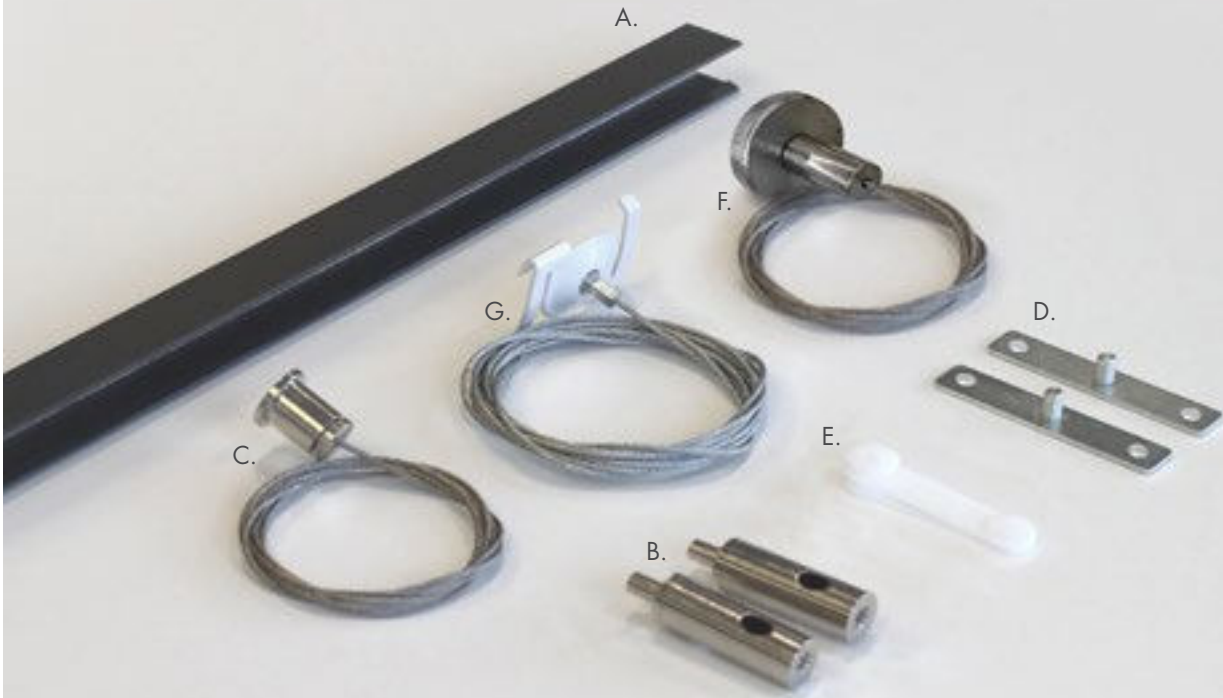
CASCADE™
STATIC SCREENS
DESIGN: S4
COLOURS: SENADO,
ZENITH & IRONBANK



SUSPENSION KIT

We find that despite the many installation options for Cascade™ the most popular is to suspend the screen from above. When you order Cascade™ (unless additional pieces are ordered) you will receive 1 standard suspension kit which supports top suspension. Below is a breakdown of a standard kit and the additional pieces available to support the different techniques. Under each installation method on the following page are the suspension kit pieces required.

Expanding Screens when closed, are half the size of our Folding and Static Screens, this means when ordering Expanding Screens you will get 2 screens per box and 2 standard suspension kits supporting top suspension. If in doubt give us a call and we will help detail your order to make sure it's all correct on site for a seamless install.



PARTS SUPPLIED PER SCREEN

Frontier™ Channel (A)
Part Number: RAFNEXPC1212

Attachment Set (B,2xC,D)
Part Number: RAHVAS

ADDITIONAL PARTS

Clips (E)
Part Number: RAFTCC

Suspension Magnet (F)
Part Number: RAMALS1

Ceiling Grid Hanger (G)
Part Number: RADCLS12



NO ADDITIONAL PARTS REQUIRED



ADDITIONAL PARTS REQUIRED (Per Screen)

1 RAFNEXPC1212
1 RAHVAS

*Does not apply to design S8



ADDITIONAL PARTS REQUIRED (Per Screen)

1 RAFNEXPC1212
3 RAFTCC

*Does not apply to design S8



ADDITIONAL PARTS REQUIRED (Per Screen)

1 RAFNEXPC1212
3 RAFTCC

*Does not apply to design S8



ADDITIONAL PARTS REQUIRED (Per Screen)

1 RAFNEXPC1212
6 RAFTCC

*Does not apply to design S8



ADDITIONAL PARTS REQUIRED (Per Screen)

3 RAFTCC

CASCADE

HANGING SCREENS

PRODUCT SPECIFICATIONS

Product Name	Cascade™
Composition	100% Polyester Fibre; Aluminium Channel
Panel Dimensions	1200mm x 2400mm
Tolerance	(+/-6%)
Thickness	12mm
Weight	2300 GSM

ACOUSTIC PERFORMANCE

Cascade™ is specifically designed to reduce and control reverberated noise (echo) in building interiors.

INSTALLATION

Install as per Autex recommendations.
Install instructions are included in each pack or available on the website.

FIRE RATING

Cascade™ is a value-added product made from Autex Cube™ as the base material. Cube™ has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Australian Group Number: Group 1
SMOGRARC: less than 100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015 as required by BCA Specification C1.10-4
FI 4974 dated 16th September, 2012 and FAR 4055-2 dated 8th October, 2013

EN13501-1:2007+A1:2009

B - s2, d2
WF 336911 dated 25th February, 2014

ASTM E-84-15a

Class A, FS:0 - SD:45
RJ4479-2 dated 25th January, 2016

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.
VOC concentration: 0.009 mg/m³ (7 days).

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorped after 4 days: 0.4% by weight.

MICROBIAL RESISTANCE

ASTM G21-15
Growth Rating: 0 (No growth)
Cascade™ does not promote the growth of mould and mildews.

COLOUR FASTNESS TO LIGHT

Cascade™ is suitable for indoor use only.
Light fastness is depenent on use and exposure.
Cascade™ has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016
Dry Rating: 4-5 (Highest = 5)
Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Cube™ requires the services of a specialist cleaning company. Refer to the Cascade™ Cleaning and Maintenace Guide for more information.

ENVIRONMENTAL


Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Cascade™ contains a minimum of 45% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

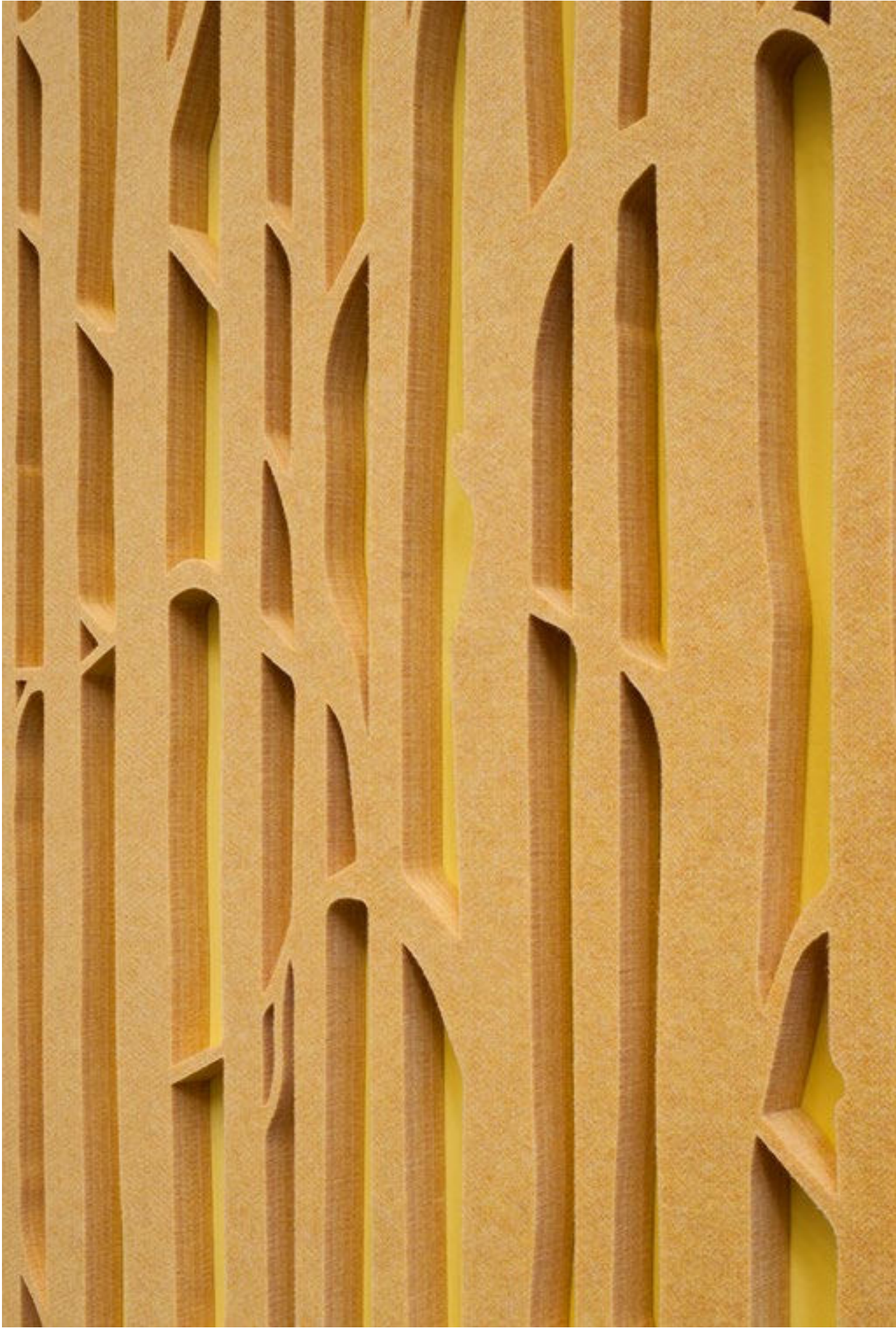
Autex Cascade™ is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

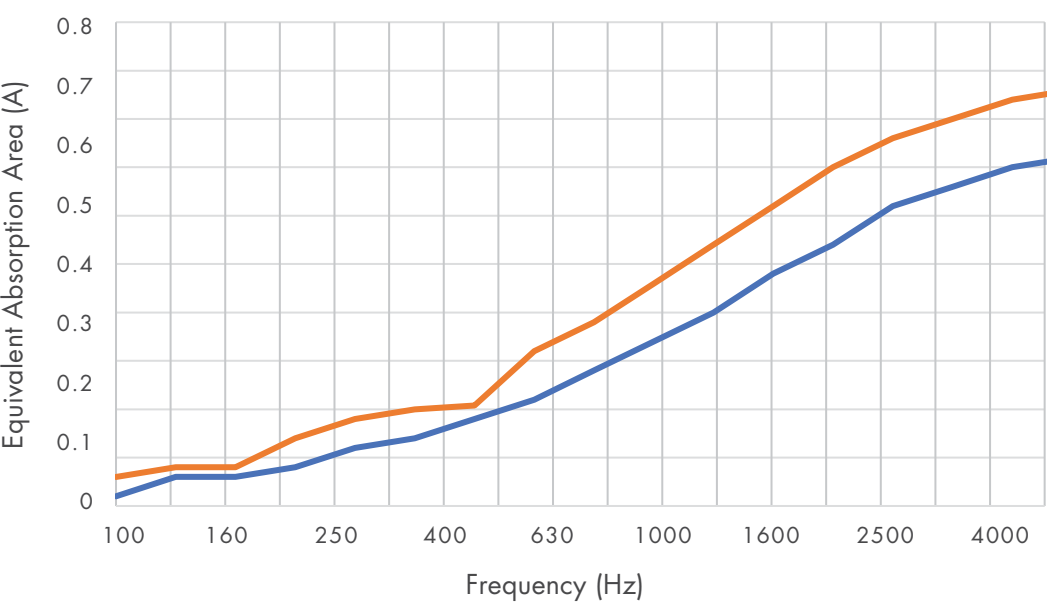
For further information about Cascade™, Autex Cube™ or any other product, please contact your Autex account manager or visit our website.

 **CASCADE™**
STATIC SCREENS
DESIGN: S14
COLOUR: PETRONAS





EQUIVALENT ABSORPTION AREA ACCORDING TO ISO 354



All results are reported in Metric Sabine - per unit. Equivalent sound absorption area according to ISO 354 Measurement of sound absorption in a reverberation room. Average Absorption (Sabins per unit) calculated at onethird octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	Metric Sabine Per Unit
Cascade™ Static 12mm	T1730-3/4	0.3	0.6	1.2	2.1	3.1	3.6	1.70
Cascade™ Folding/Expanding 12mm	T1730-5	0.4	0.9	1.5	2.7	3.8	4.3	2.25

INTERIOR ACOUSTICS 3D TILES





3D TILES

DESIGN: S-5.37 AND S-5.34
COLOR: NOIR, STONEWASH
AND CIVIC



3D TILES

3D Tiles are our stylish and high performing version of wall art. In packs of 6 that include all the fixings you need to install, our lightweight and semi-rigid 3D Tiles are super easy to put up all while giving you the freedom to mix and match both colours and styles. With 15 colours in eight different designs, you can create a feature that reflects your own style and environment.

But they don't only look good, they are high performing as well; specifically designed to reduce and control echo creating a more focused and productive space.

Just like the rest of the interior acoustics range, durability, longevity and performance are assured.

3D TILES

APPLICATIONS

- Decorative and functional acoustic tiles for residential, office, education, retail, hospitality and commercial interiors
- Minimise noise in the interior environment and create unique finishes and features
- Easy dry clip system for installation

SPECIFICATION

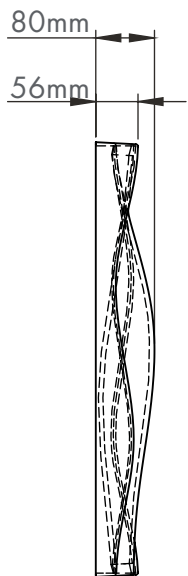
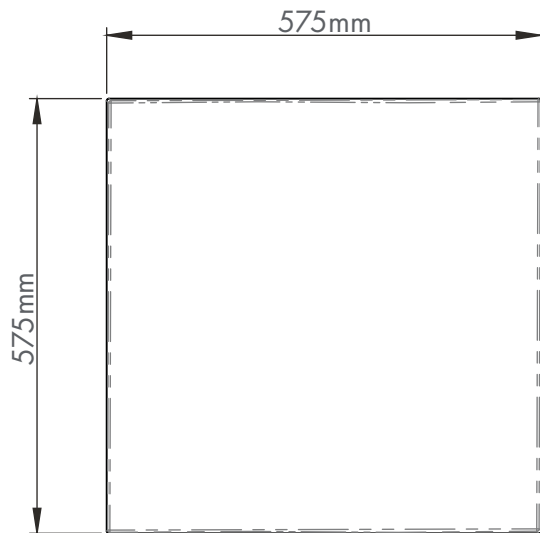
Wall treatment shall be 3D Tile series acoustic tile from thermally moulded, needle punched, felted polyester material containing not less than 55% recycled material as manufactured by Autex Industries Ltd. www.autexindustries.com

Tile (S-5.□), colour (□), sound absorption Class C, NRC 0.75 – if backed with Autex AAB: Class A, NRC 0.90. Fire rating ISO 9705: Classification: Group 1-S, EN13501-1:2007+A1:2009: B - s1, d2.

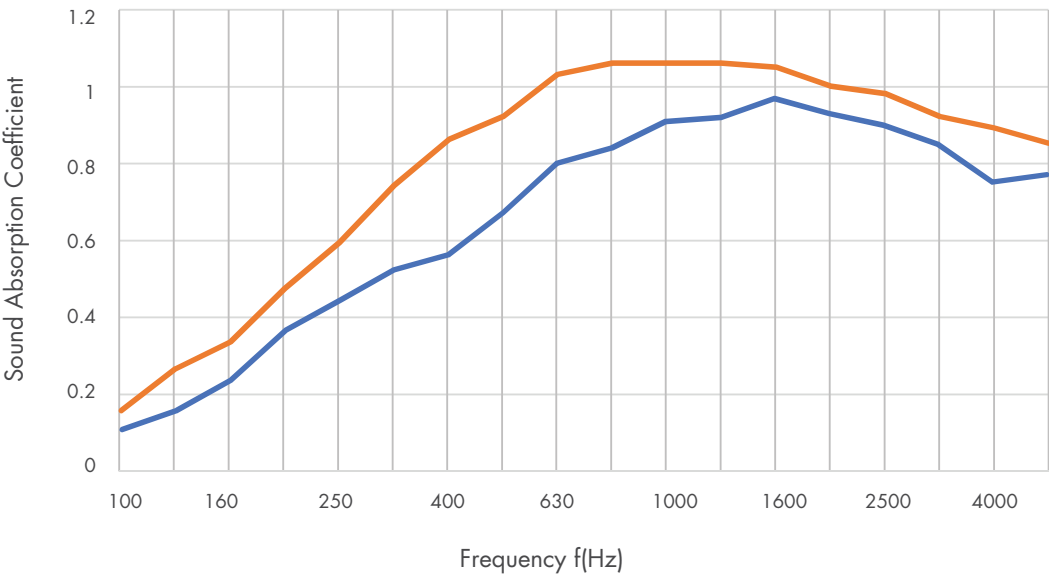
Tiles to be supplied with 1 standard tile clip per tile. Install as per 3D Tile Install Instructions.



S-5.26 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.26
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	80mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

3D Tiles S-5.26 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

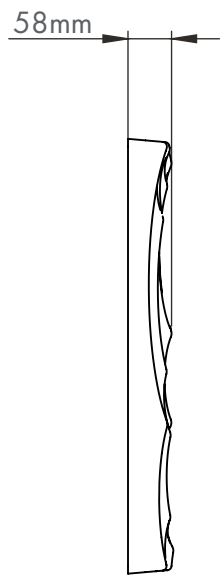
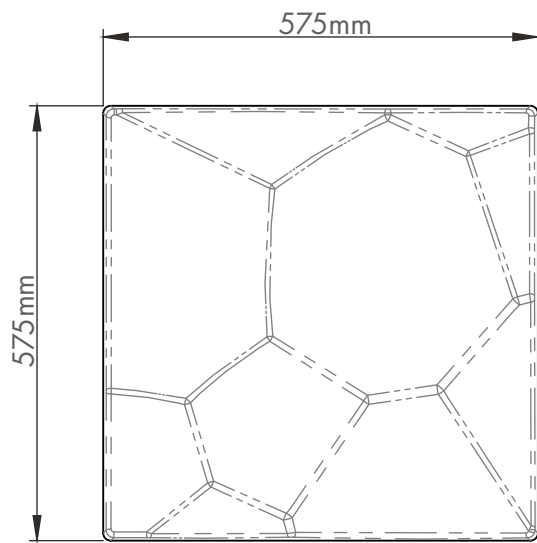
LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57
Silver	23
Porcelain	22
Fawn	20
Granny Smith	20
Stonewash	19
Brilliant Orange	15
Electric Blue	12

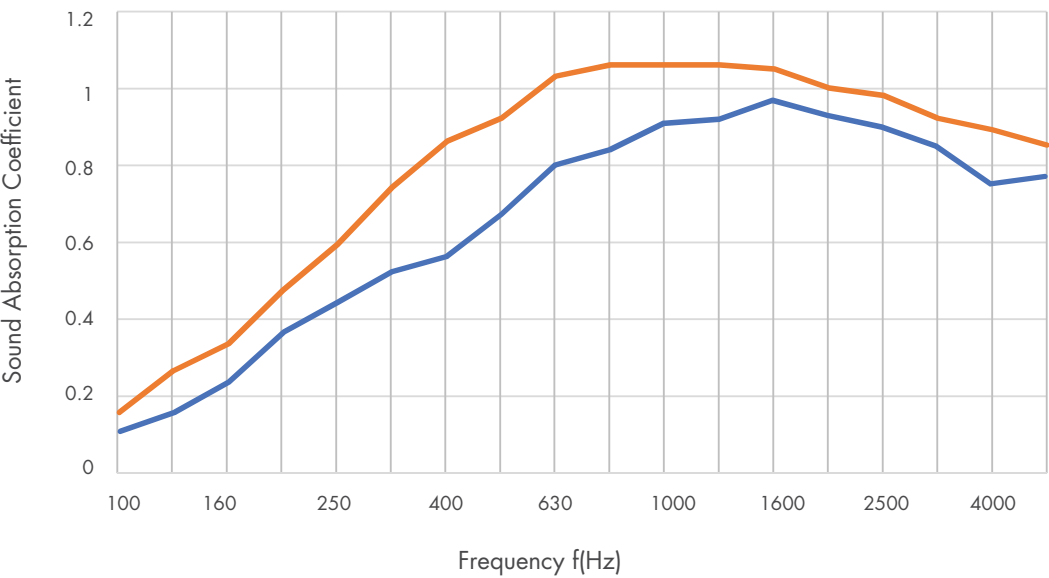
Avocado	11
Blush	10
Blazing Red	8
Bark	5
Stately	3
Charcoal	3
Noir	1

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.28 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.28
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	58mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

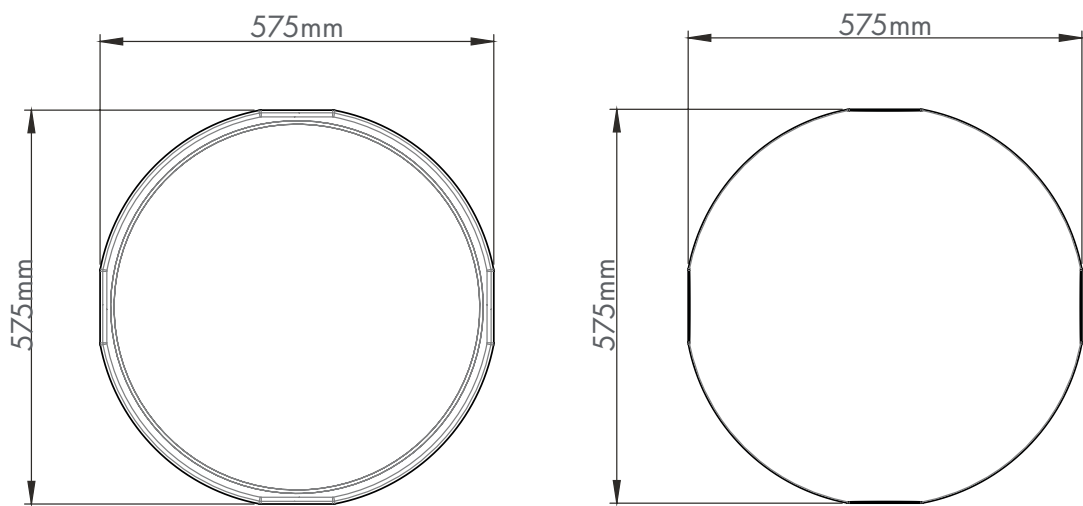
3D Tiles S-5.28 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

LIGHT REFLECTANCE VALUES BY COLOUR

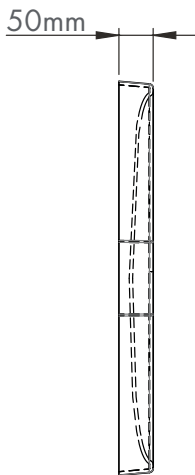
Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Noir	1
Electric Blue	12		

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

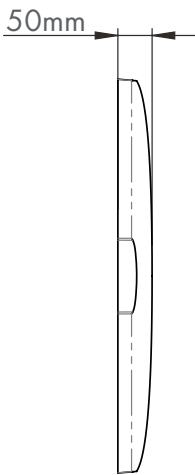
S-5.32 DESIGN



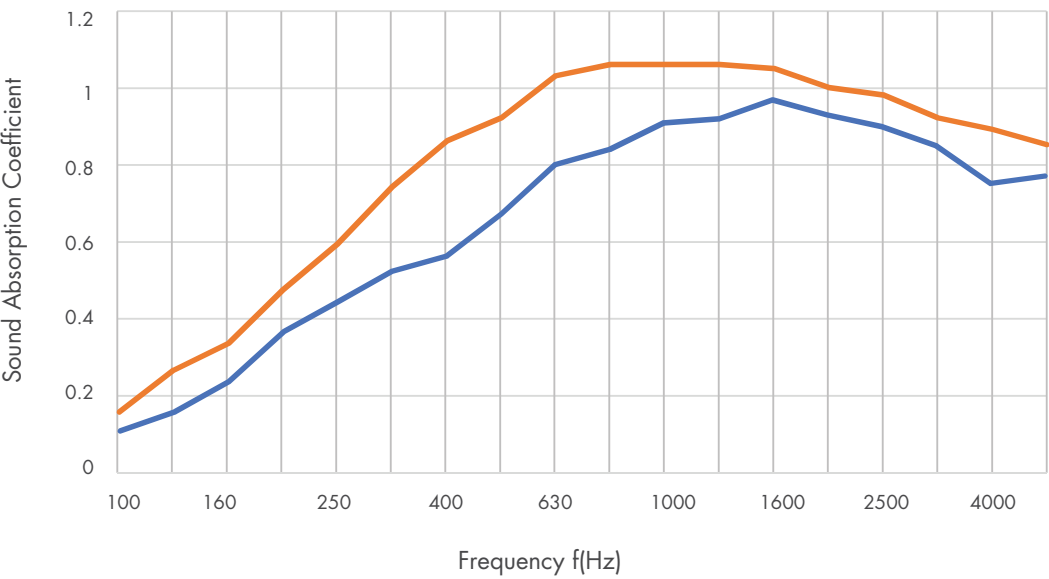
CONCAVE



CONVEX



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.32
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	50mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

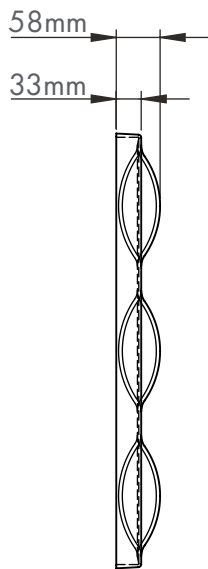
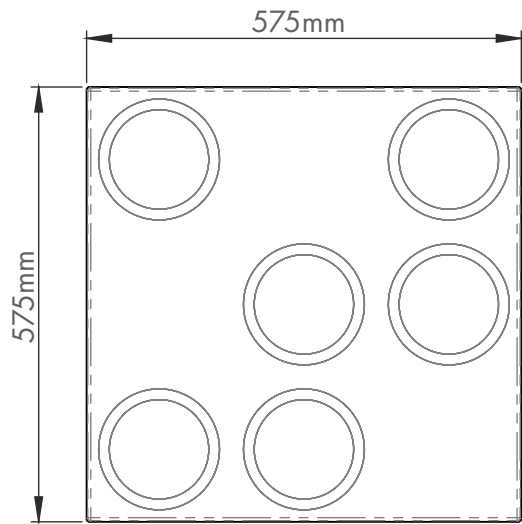
3D Tiles S-5.32 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

LIGHT REFLECTANCE VALUES BY COLOUR

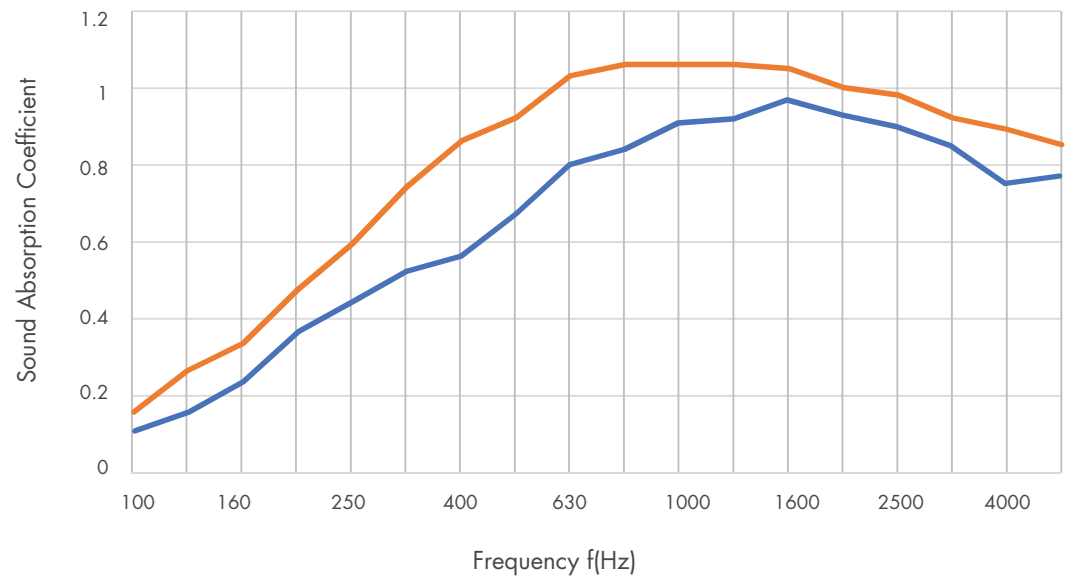
Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Noir	1
Electric Blue	12		

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.34 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.34
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	58mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

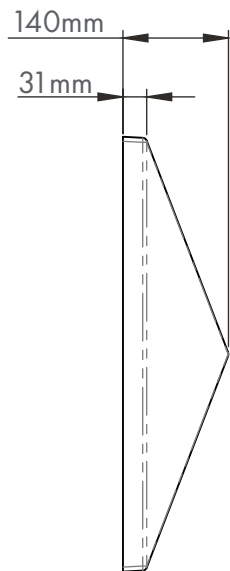
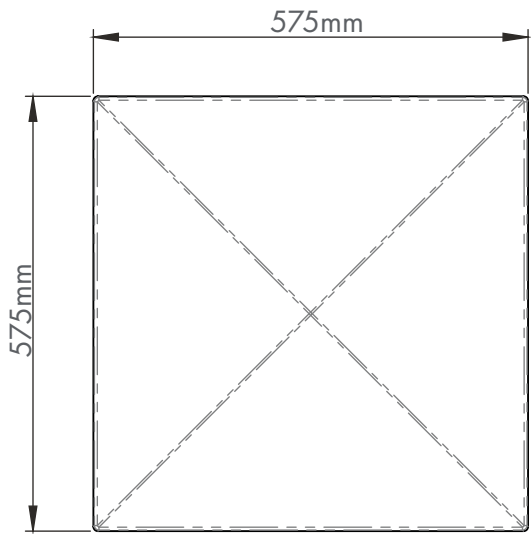
3D Tiles S-5.34 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

LIGHT REFLECTANCE VALUES BY COLOUR

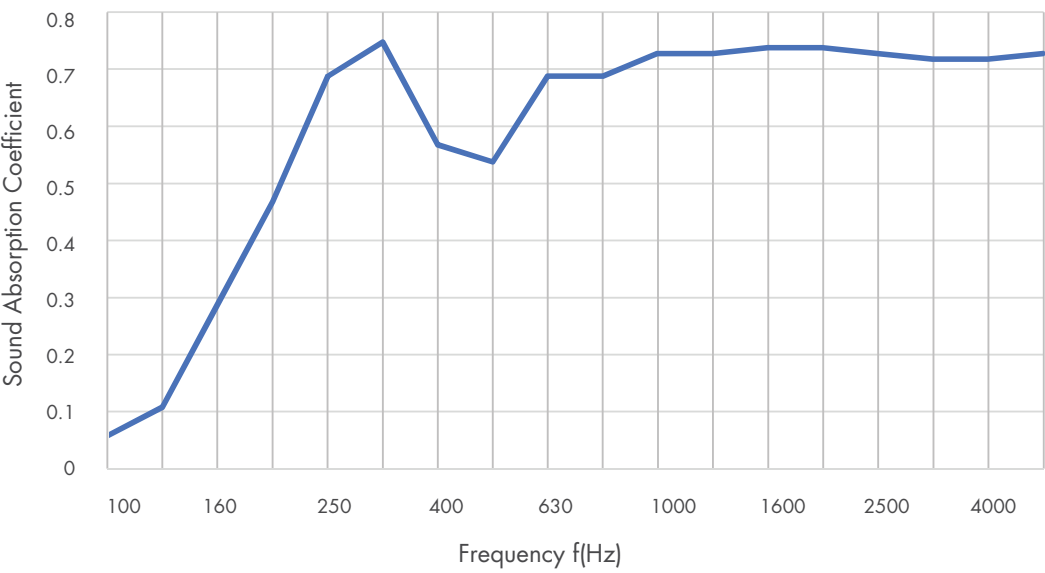
Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Noir	1
Electric Blue	12		

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.37 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles S-5.37 140mm	T1316-4	0.15	0.65	0.60	0.70	0.75	0.70	0.65

*These designs don't typically support the AAB application.

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.37
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	140mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

3D Tiles S-5.37 are specifically designed to reduce and control reverberated noise (echo) in building interiors.

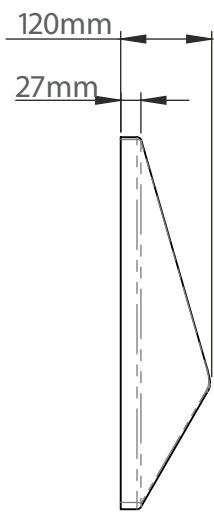
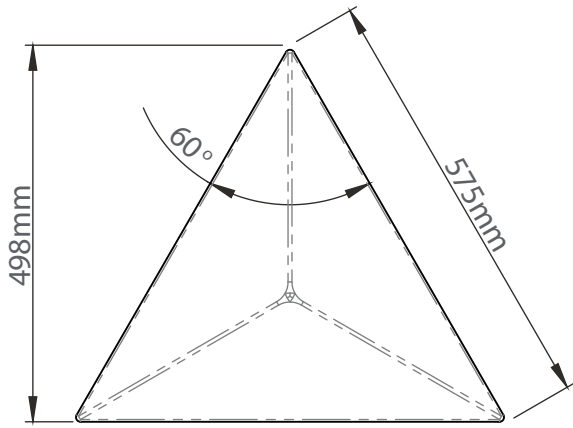
LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57
Silver	23
Porcelain	22
Fawn	20
Granny Smith	20
Stonewash	19
Brilliant Orange	15
Electric Blue	12

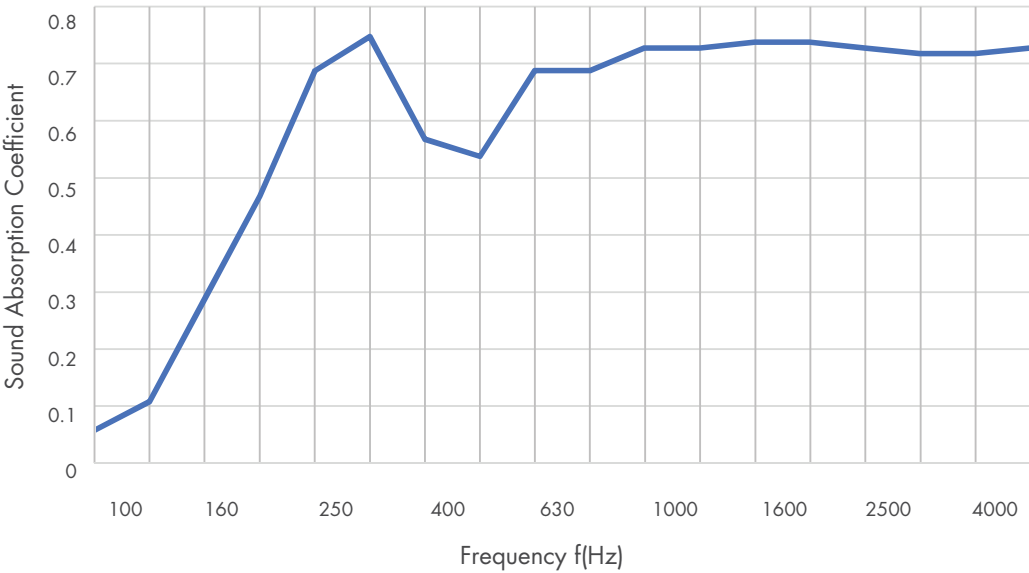
Avocado	11
Blush	10
Blazing Red	8
Bark	5
Stately	3
Charcoal	3
Noir	1

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.46 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles S-5.46 120mm	T1316-4	0.15	0.65	0.60	0.70	0.75	0.70	0.65

*These designs don't typically support the AAB application.

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.46
Composition	100% Polyester Fibre (PET)
Tile Dimensions	498mm x 575mm
Tile Tolerance	(+/-0.5mm) (+/-0.5mm)
Depth	120mm
Depth Tolerance	(+/-0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

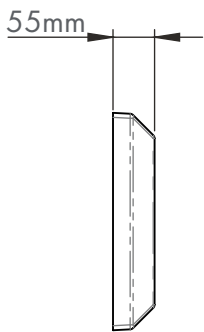
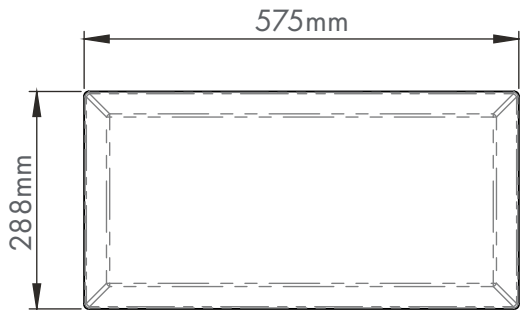
3D Tiles S-5.46 are specifically designed to reduce and control reverberated noise (echo) in building interiors.

LIGHT REFLECTANCE VALUES BY COLOUR

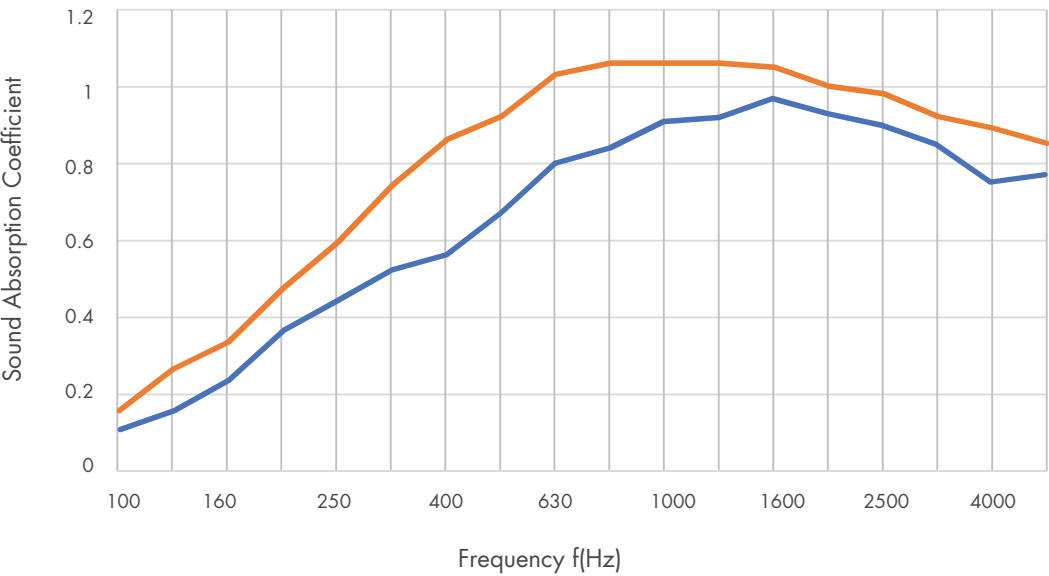
Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Noir	1
Electric Blue	12		

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.50 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.50
Composition	100% Polyester Fibre (PET)
Tile Dimensions	288mm x 575mm
Tile Tolerance	(+0.5mm) (-0.5mm)
Depth	55mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

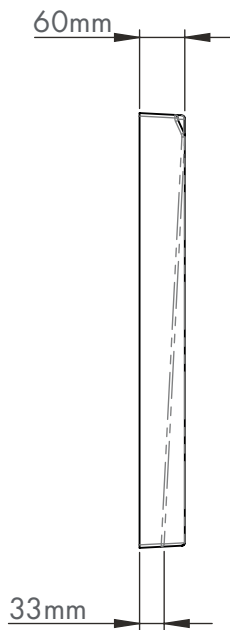
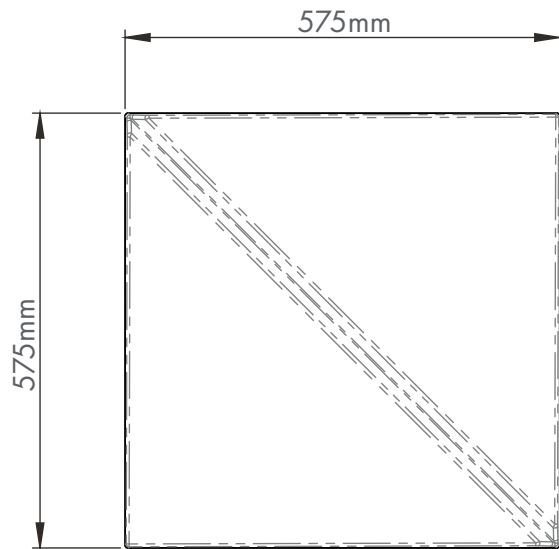
3D Tiles S-5.50 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

LIGHT REFLECTANCE VALUES BY COLOUR

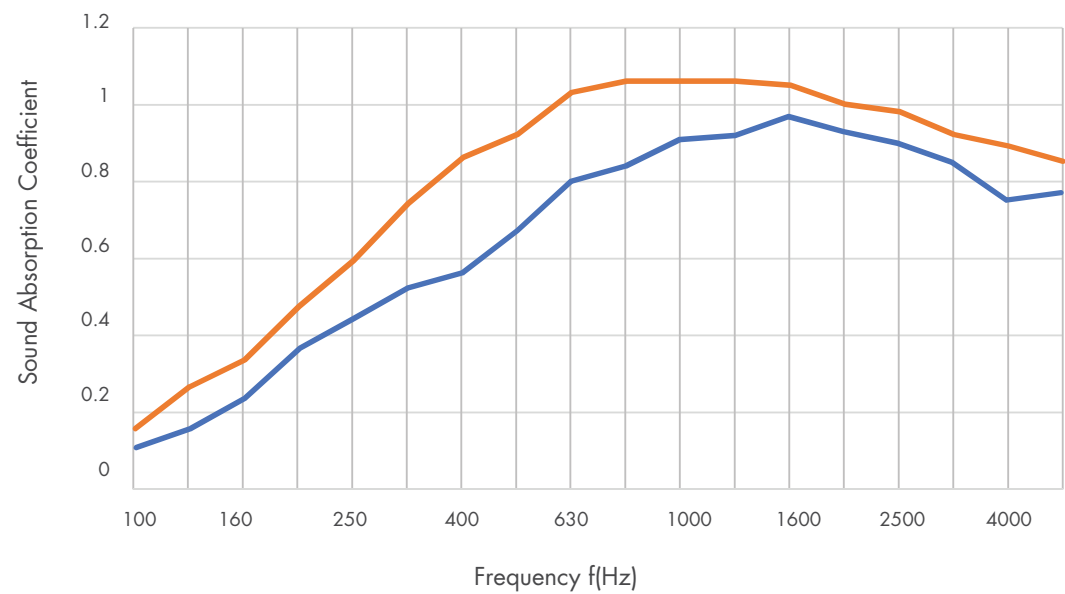
Civic	57	Avocado	11
Silver	23	Blush	10
Porcelain	22	Blazing Red	8
Fawn	20	Bark	5
Granny Smith	20	Stately	3
Stonewash	19	Charcoal	3
Brilliant Orange	15	Noir	1
Electric Blue	12		

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

S-5.53 DESIGN



ABSORPTION COEFFICIENT ACCORDING TO ISO 354



The graph above presents third octave sound absorption coefficients in accordance with ISO 354 measurement of sound absorption in a reverberation room. The table below presents the practical sound absorption coefficients in accordance with ISO 11654. The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
3D Tiles without AAB 35-25	T1012-3	0.15	0.45	0.65	0.90	0.90	0.80	0.75
3D Tiles with AAB 35-25	T1012-5	0.25	0.60	0.95	1.05	1.00	0.90	0.90

PRODUCT SPECIFICATIONS

Product Name	3D Tiles S-5.53
Composition	100% Polyester Fibre (PET)
Tile Dimensions	575mm x 575mm
Tile Tolerance	(+0.5mm) (+0.5mm)
Depth	60mm
Depth Tolerance	(+0.5mm)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

3D Tiles S-5.53 are specifically designed to reduce and control reverberated noise (echo) in building interiors. To increase acoustic performance, use Autex AAB 35-25 polyester acoustic insulation as an infill. Refer to www.autexindustries.com/greenstuf/greenstuf-aab.

LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57
Silver	23
Porcelain	22
Fawn	20
Granny Smith	20
Stonewash	19
Brilliant Orange	15
Electric Blue	12

Avocado	11
Blush	10
Blazing Red	8
Bark	5
Stately	3
Charcoal	3
Noir	1

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

FIRE RATINGS

3D Tiles is a value-added product made from Autex Workstation as the base material. Workstation has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S

Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1

(SMOGRARC): <100m²/s²

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015 as required by BCA Specification C1.10-4

FAR 4055

EN13501-1:2007+A1:2009 (6mm Workstation)

B - s1, d2

Report WF 336913 dated 19th March 2014

ASTM E84 - 14 (12mm Workstation)

Class A, FS:0 - SD:10

Report RJ3297-10 dated 13th June 2014

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product. VOC concentration: 0.009 mg/m³ (7 days).

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorbed after 4 days: 0.4% by weight.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

3D Tiles do not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

3D Tiles are suitable for indoor use only.

Lightfastness is dependent on use and exposure. 3D Tiles have been evaluated to the following standard:

ISO 105-B02:2014

Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5)

Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat, but the product has a directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and using excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean, dry cloth after each application of the solution.

Custom printed Workstation requires the services of a specialist cleaning company. Refer to the 3D Tiles Care and Maintenance Guide for more information.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex 3D Tiles contain a minimum of 55% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex 3D Tiles are manufactured from 100% polyester fibres and do not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about 3D Tiles, Workstation or any other Autex product, please contact your Autex account manager or visit our website.

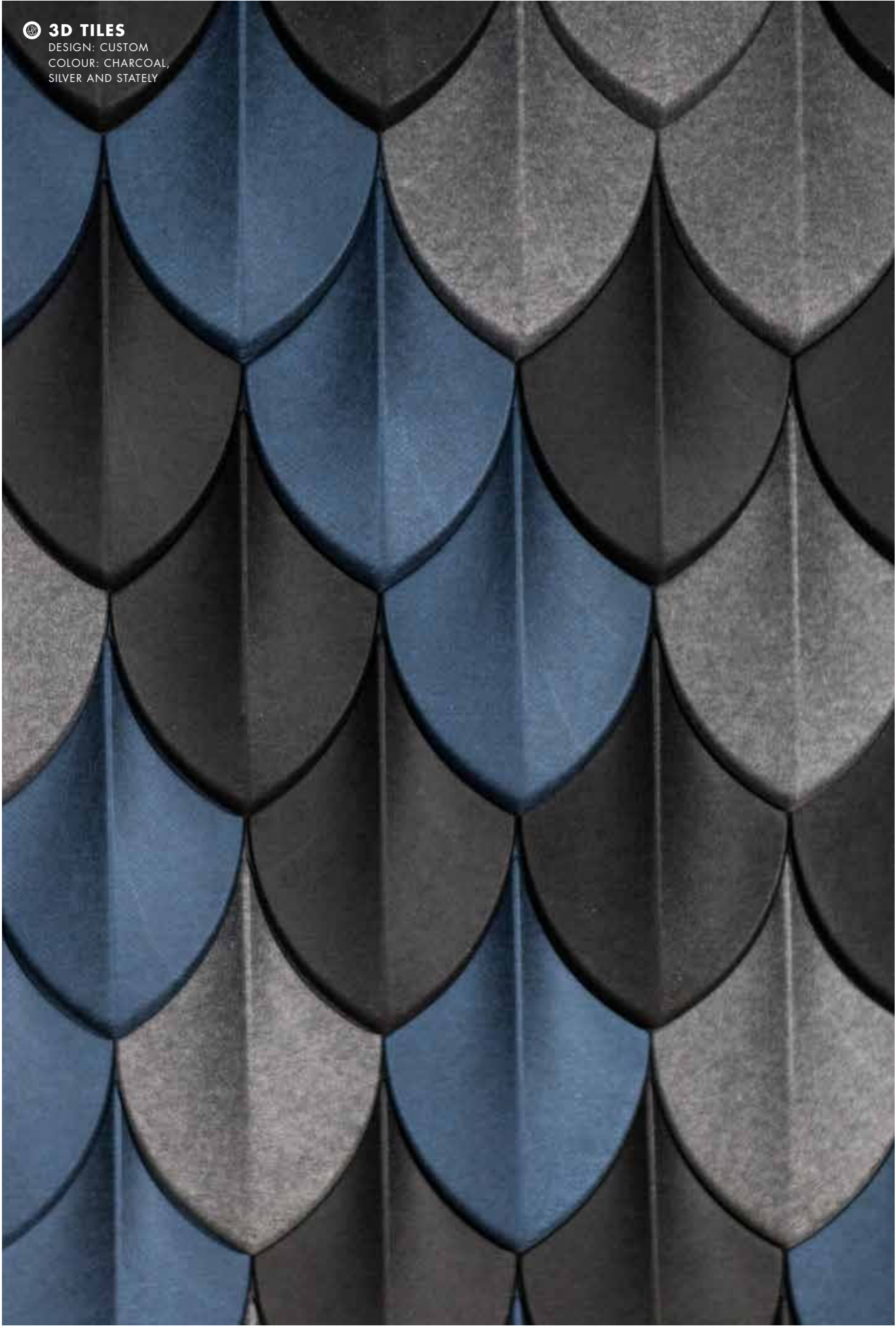


3D TILES

DESIGN: S-5.46

COLOUR: ELECTRIC
BLUE, GRANNY SMITH,
MYST AND SILVER





© **3D TILES**
DESIGN: CUSTOM
COLOUR: CHARCOAL,
SILVER AND STATELY

3D TILES
COLOUR OPTIONS

BLAZING RED	BRILLIANT ORANGE	GRANNY SMITH
ELECTRIC BLUE	STONEWASH	AVOCADO
BLUSH	PORCELAIN	STATELY
FAWN	BARK	CHARCOAL
CIVIC	SILVER	NOIR

MOQ's apply to some colours, custom colour available on request.
To find out more, or to order a sample, please contact your account
manager or visit our website.

INTERIOR ACOUSTICS VERTIFACE





VERTIFACE®
COLOURS: LIME, SILVER,
GRANNY SMITH,
ELECTRIC BLUE,
AND BLAZING RED.

VERTIFACE®

As our environments shift and our needs evolve, so do our expectations on what we need as people to thrive. Vertiface®, our most versatile product, is a flexible, textured fabric that comes in different finishes that allows endless design freedom and choice. As one of the most durable, hard-wearing and UV resistant textiles on the market today, Vertiface can be applied to furniture, add colour and texture to Quietspace® Panel, or create an acoustic wall covering in Composition®.

We know that no two projects are the same, so why should the products or services going into them be? Utilising recycled PET plastic that would otherwise be destined for landfill, Vertiface can be customised to suit your needs. Being manufacturers, engineers and creatives, we have the capacity to transform, cut, mould, or build our products to create acoustic solutions truly unique to you and your space. If you have an idea, let's work together to make it happen.

VERTIFACE®

APPLICATIONS

- Decorative and functional acoustic wallcovering for education, commercial offices, theatres, libraries, retail, and hospitality sectors
- Use in conjunction with other Autex Interior Acoustic products
- Vertiface is the colour layer which finishes Autex acoustic panel systems

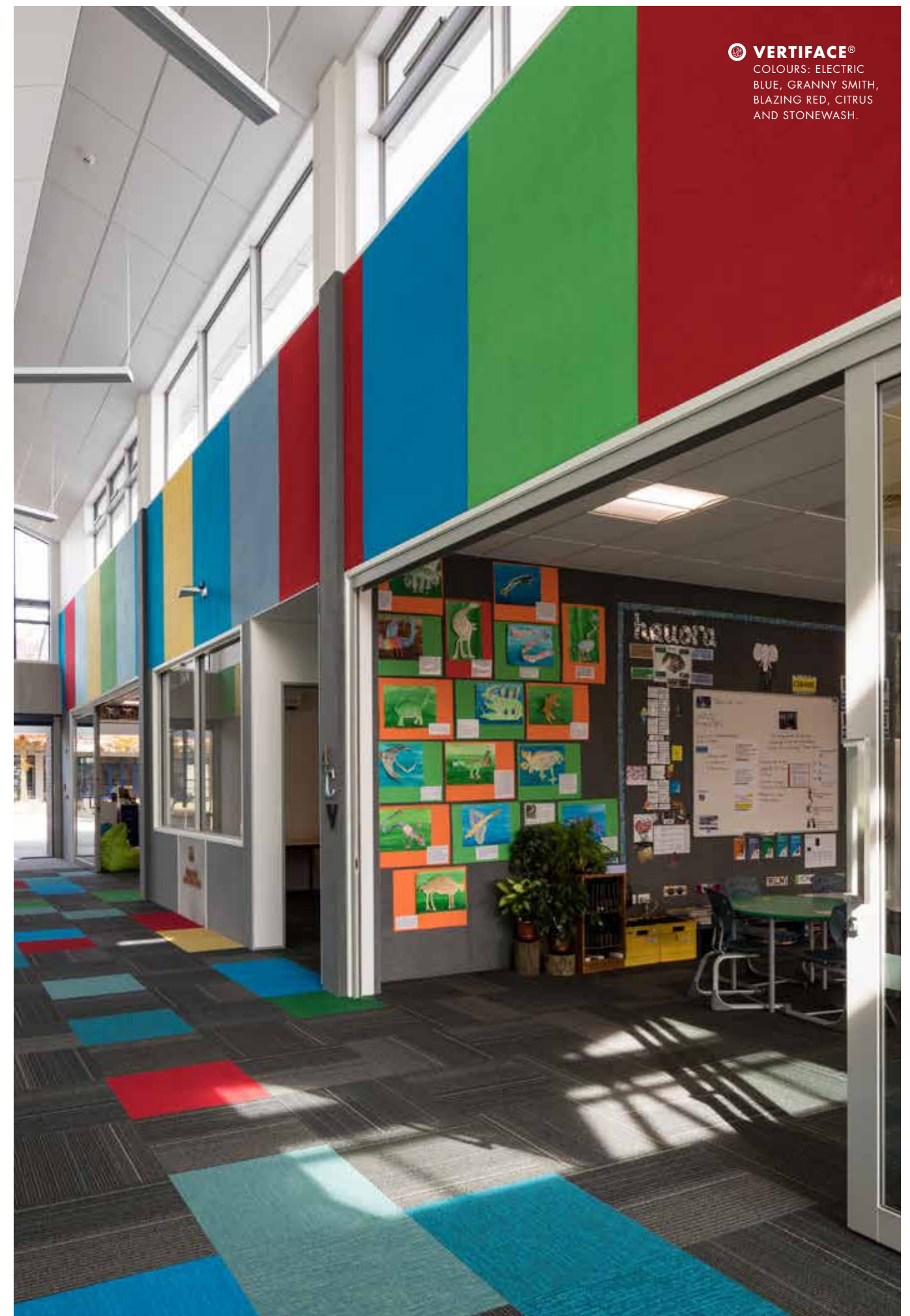
SPECIFICATION

(Wall) treatment shall be Autex Vertiface® from non-woven needle-punched polyester containing not less than 80% recycled material as manufactured by Autex www.autexindustries.com

Roll 3-4mm (nom.) depth, colour (L), Fire Rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s1, d2

Install as per Autex recommendations.

If Vertiface is to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.



VERTIFACE®
COLOURS: ELECTRIC
BLUE, GRANNY SMITH,
BLAZING RED, CITRUS
AND STONEWASH.

VERTIFACE®

LIGHT REFLECTIVE VALUES BY COLOUR

Civic	57
Citrus	49
Myst	42
Sanz	36
Wasabi	33
Lime	29
Azure	24
Silver	23
Jade	22
Porcelain	22
Fawn	20
Clay	20
Granny Smith	20
Stonewash	19
Simba	18
Brilliant Orange	15
Spearmint	13
Calypso	13
Electric Blue	12
Koala	12

LRVs were measured in accordance with BS 8493:2008+A1:2010

PRODUCT SPECIFICATIONS

Product Name	Vertiface®
Composition	100% Polyester Fibre (PET)
Roll Dimensions	1.4m x 1.05m 1.3m x 1.05m
Tolerance	(+5mm) x (+10mm)
Thickness (nom.)	3-4mm
Weight	Typically 380gsm

Other widths are available on request, minimum order quantity applies.

Avocado	11
Blush	10
Sage	9
Emerald	8
Sapphire	8
Atlantis	8
Blazing Red	8
Raspberry	8
Vintage	6
Chilli Red	5
Cinder	5
Bark	5
Octane	5
Phantom	4
Theatre	3
Stately	3
Charcoal	3
Lightsout	3
Ink	3
Noir	1

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Vertiface is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

FIRE RATINGS

Vertiface has been evaluated using the following test methods

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRARC): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4
FI 4906 dated 11th July, 2012
FAR 4055-2 dated 8th October, 2013

EN13501-1:2007+A1:2009

B - s1, d2
WF 336910 dated 25th February, 2014

ASTM E84 - 01

Class A, FS:20 - SD:50
01.04913.01.206a dated 29 May 2002

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.
VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorped after 4 days: 0.4% by weight

MICROBIAL RESISTANCE

ASTM G21-15
Growth Rating: 0 (No growth)
Vertiface does not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

Vertiface is suitable for indoor use only. Light fastness is dependent on use and exposure. Vertiface® has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016
Dry Rating: 4-5 (Highest = 5)
Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Vertiface requires the services of a specialist cleaning company. Refer to the Vertiface Cleaning and Maintenance Guide for more information

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.
Autex Vertiface contains a minimum of 80% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Vertiface is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Vertiface or any other Autex product, please contact your Autex account manager or visit our website.

VERTIFACE®
COLOUR OPTIONS

WASABI	LIME	JADE	GRANNY SMITH
AVOCADO	SPEARMINT	SAGE	AZURE
EMERALD	OCTANE	SAPPHIRE	STONEWASH
STATELY	ATLANTIS	ELECTRIC BLUE	PORCELAIN
INK	LIGHTSOUT	CHARCOAL	NOIR

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com

VERTIFACE®
COLOUR OPTIONS

RASPBERRY	BRILLIANT ORANGE	CITRUS	CINDER
BLAZING RED	SIMBA	CLAY	BARK
THEATRE	CHILLI RED	VINTAGE	KOALA
PHANTOM	CALYPSO	MYST	SILVER
BLUSH	FAWN	SANZ	CIVIC

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com

ETCH DECORATIVE FABRIC





ETCH™
DESIGN: CUSTOM
COLOUR: STATELY

ETCH™ DECORATIVE FABRIC

Etch™ is a visual layer of expression, a wall fabric combining design, colour and texture. Available in a palette of 30 colours, choose from 15 standard patterns or Etch your own custom design.

Etch is suited for overlaying directly to your chosen surface or choose to incorporate one of Autex's acoustic backing options to provide a range of acoustic absorption.

Etch is a decorative, functional and durable interior finish suitable for commercial offices, theatres, libraries, retail, hospitality and education interiors.

Etch represents Autex and our commitment to innovation;
Etch, create great space.

APPLICATIONS

- Decorative and functional wallcovering for education, commercial offices, theatres, libraries, retail, and hospitality sectors
- Custom cut and pattern design available
- Use in conjunction with other Autex Interior Acoustic products for a complete interior solution
- Backing available in 6mm, 12mm, 25mm and 50mm options

SPECIFICATION

Roll 3mm (nom.) depth, colour (L),

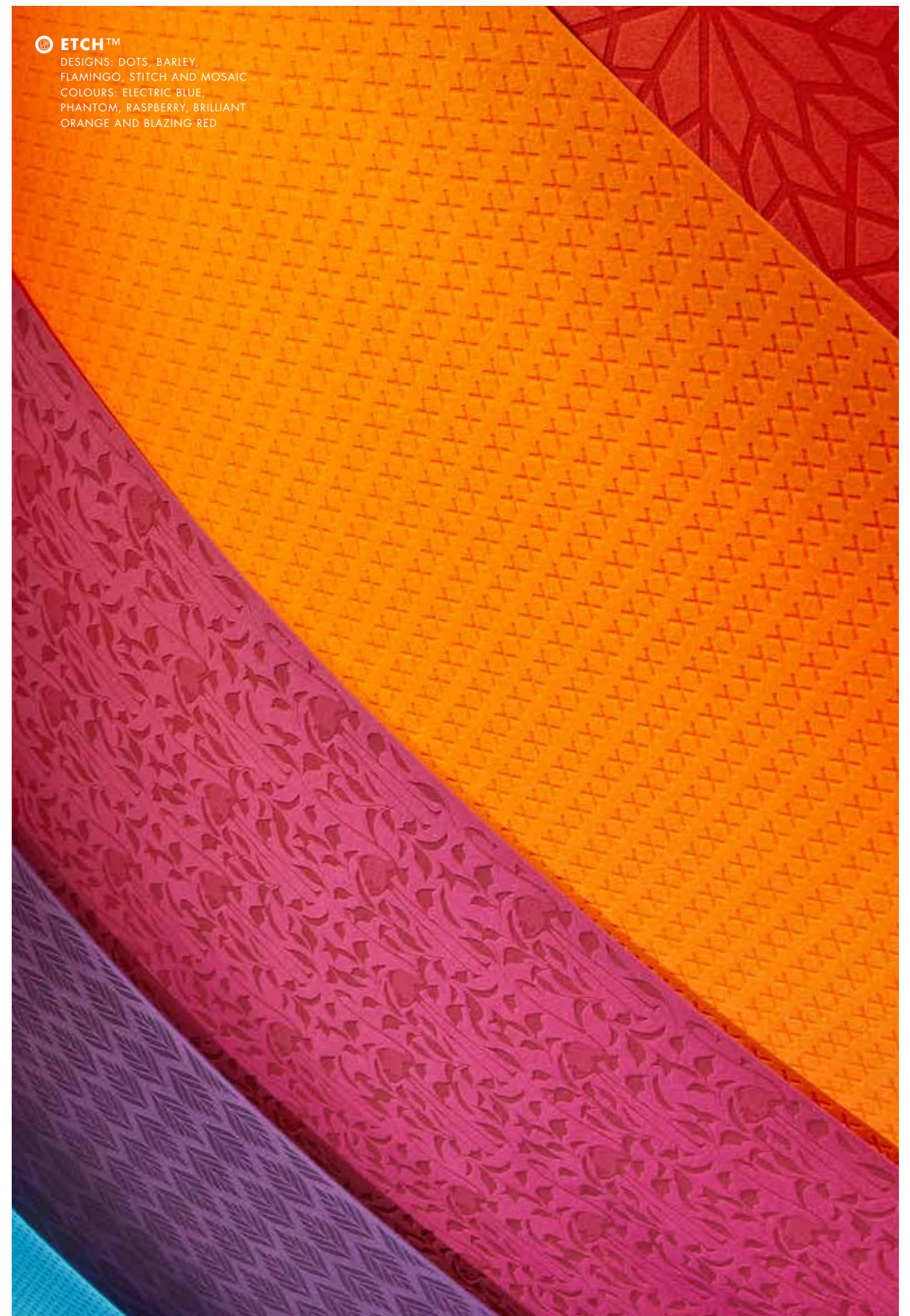
Fire Rating ISO 9705:

Classification: Group 1-S, AS ISO 9705 – 2003

Classification: Group 1, EN13501-1:2007+A1: 2009: B - s1, d2

Install as per Autex recommendations.

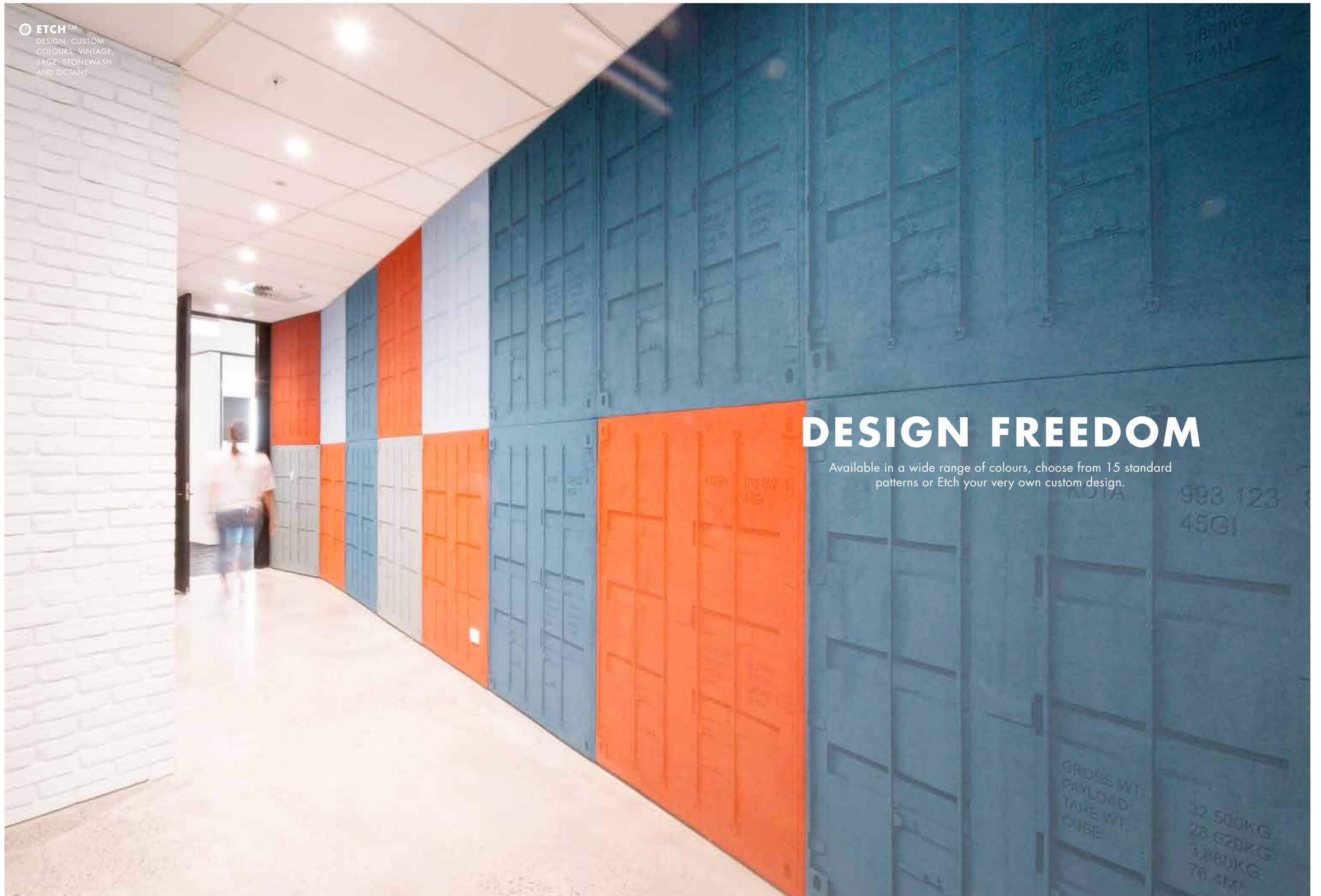
If Etch™ is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.



ETCH™
DESIGN: CUSTOM
COLOURS: VINTAGE,
SAGE, STONEWASH
AND OCTANE

DESIGN FREEDOM

Available in a wide range of colours, choose from 15 standard patterns or Etch your very own custom design.



 **ETCH™**
DESIGN: HARLEQUIN
COLOUR: PORCELAIN

KEY FEATURES AND BENEFITS

- Use alone as a wallcovering or combine with Autex Interior Acoustic products for a high-performance sound absorbing solution
- Design flexibility with over 30 colour choices
- Limitless branding possibilities with in-house custom design
- Lightweight and easy to handle
- Made from 100% polyester fibre without chemical binders and certified low VOC
- Manufactured using a minimum of 80% post-consumer recycled material
- Highly durable providing long-term stability and performance
- Safe, non-toxic, non-irritant and non-allergenic
- Manufactured under ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems
- Does not contain any Red List chemicals*

*Red List chemicals are harmful to living creatures, including humans. Red List chemicals can be harmful to construction and factory workers, pollute the environment and bio-accumulate up the food chain until they reach toxic concentrations. A copy of the Red List chemicals can be downloaded from www.livingfuture.org

PRODUCT SPECIFICATIONS

Product Name	Etch™
Composition	100% Polyester Fibre (PET)
Drop Width	1.3m x 25m
Tolerance	(+5mm)
Other widths are available on request, minimum order quantity applies.	
Thickness	3-4mm
Weight	380gsm

LIGHT REFLECTANCE VALUES

Sanz	36
Lime	29
Azure	24
Jade	22
Porcelain	22
Fawn	20
Granny Smith	20
Stonewash	19
Simba	18
Brilliant Orange	15
Spearmint	13
Calypso	13
Electric Blue	12
Koala	12
Avocado	11

MEASURED IN ACCORDANCE WITH BS 8493:2008+A1:2010

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Etch is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

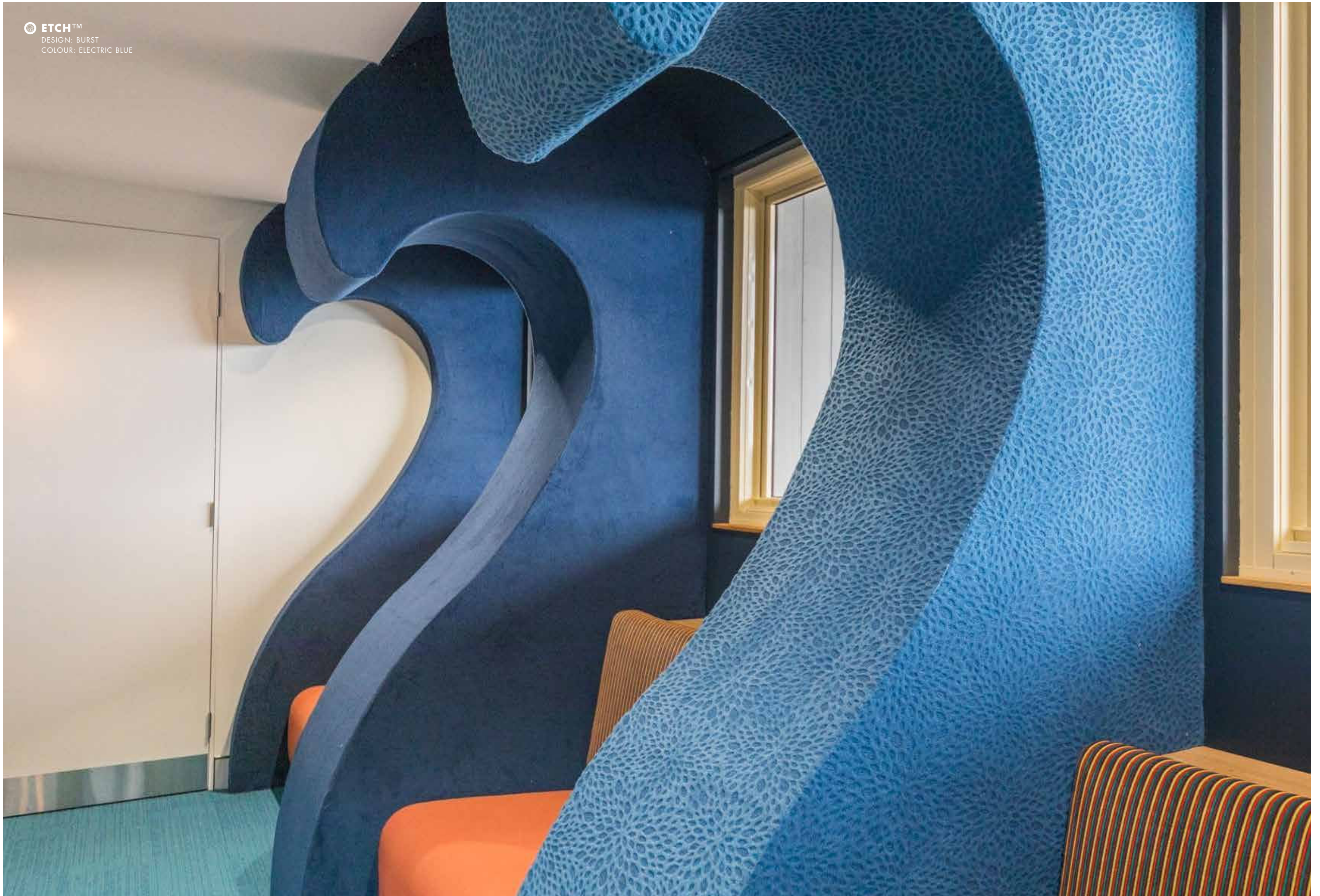
ACOUSTIC PERFORMANCE

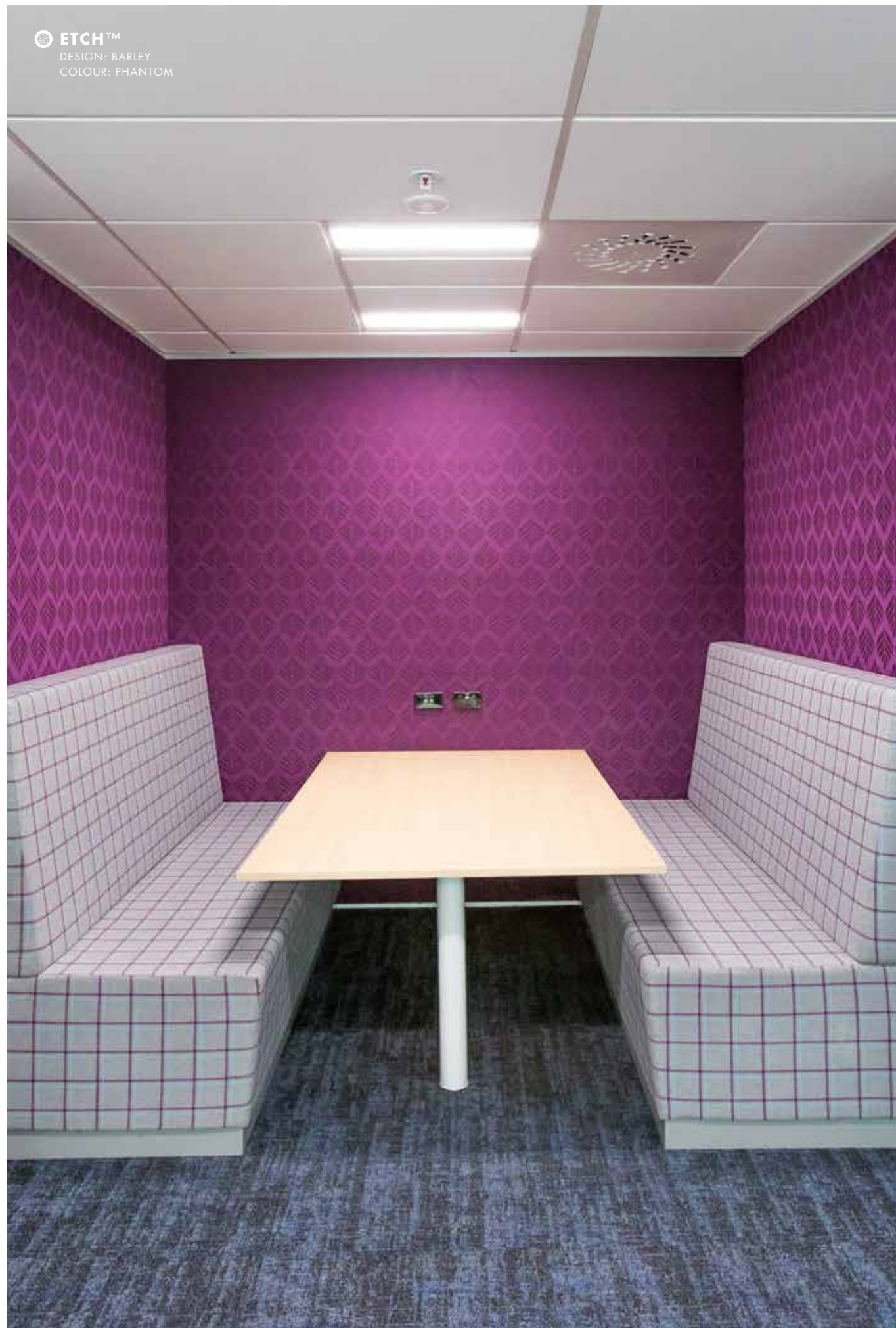
Etch can be paired with other Autex Interior Acoustic products to create your desired acoustic performance. Please speak to your Autex account manager for guidance and options.

Blush	10
Sage	9
Emerald	8
Sapphire	8
Blazing Red	8
Raspberry	8
Cinder	5
Octane	5
Phantom	4
Theatre	3
Stately	3
Charcoal	3
Lightsout	3
Ink	3
Noir	1



ETCH™
DESIGN: BURST
COLOUR: ELECTRIC BLUE





FIRE RATINGS

Etch™ is a value-added product made from Autex Vertiface® as the base material. Vertiface® has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRARC): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4

FI 4906 dated 11th July, 2012 and FAR 4055-2 dated 8th October, 2013

EN13501-1:2007+A1:2009

B - s1, d2

WF 336910 dated 25th February, 2014

ASTM E84 - 01

Class A, FS:20 - SD:50

01.04913.01.206a dated 29 May 2002

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product. VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorbed after 4 days: 0.4% by weight.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

Etch does not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

Etch is suitable for indoor use only. Light fastness is dependent on use and exposure. Etch has been evaluated to the following standard:

ISO 105-B02:2014

Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5)

Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Pattern repeat will vary depending on design. Please refer to the Etch Pattern Repeat Guide for more information.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Vertiface® requires the services of a specialist cleaning company. Refer to the Etch Cleaning and Maintenance Guide for more information.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Etch contains a minimum of 80% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

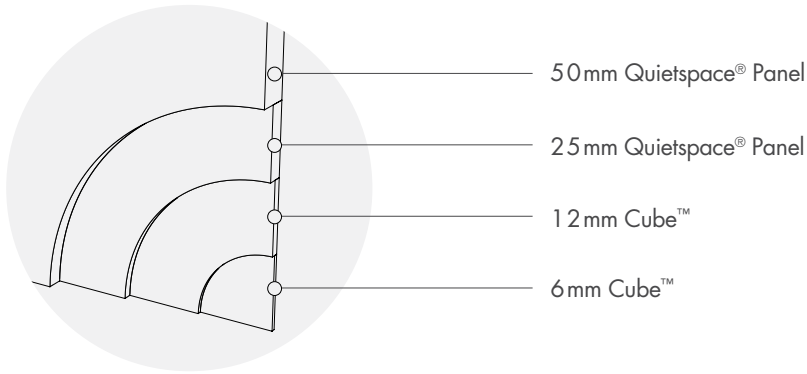
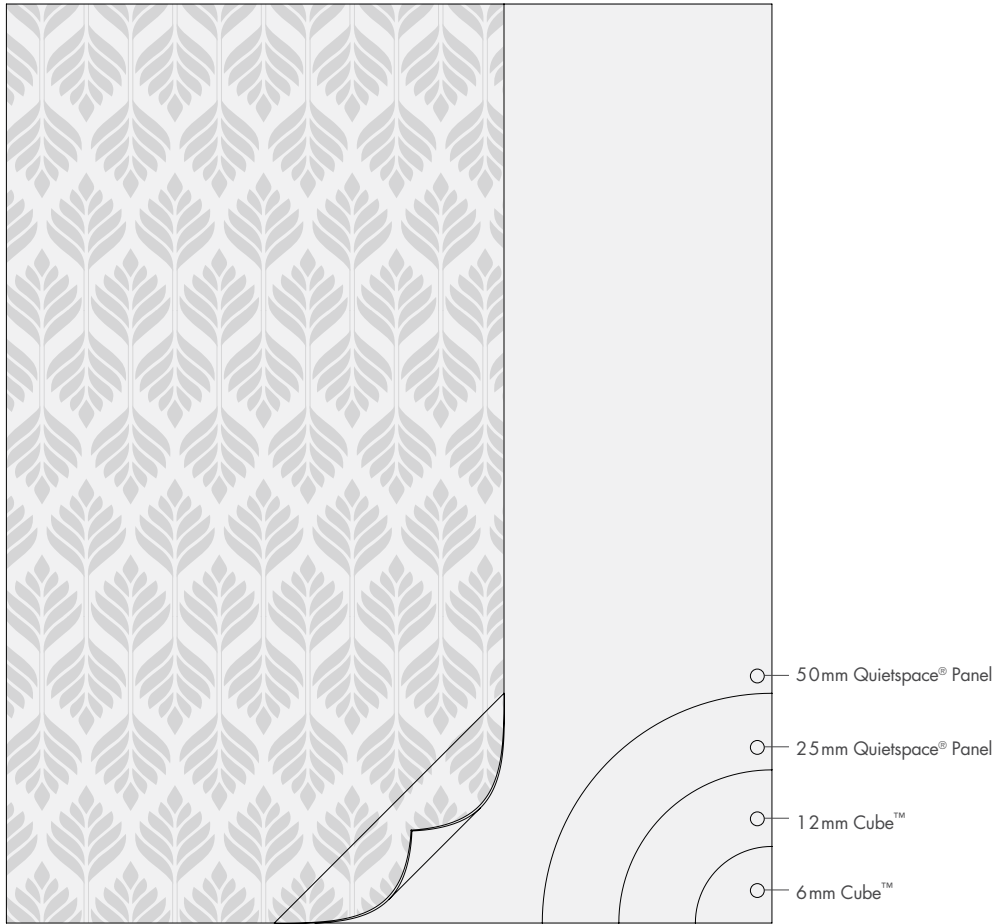
Autex Etch is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Etch, Autex Vertiface® or any other Autex product, please contact your Autex account manager or visit our website.



PICK YOUR **BACKING**



IBEX
CONCEPT TO SOLUTION

PICK YOUR **BACKING**

ABSORPTION COEFFICIENT ACCORDING TO ISO 354

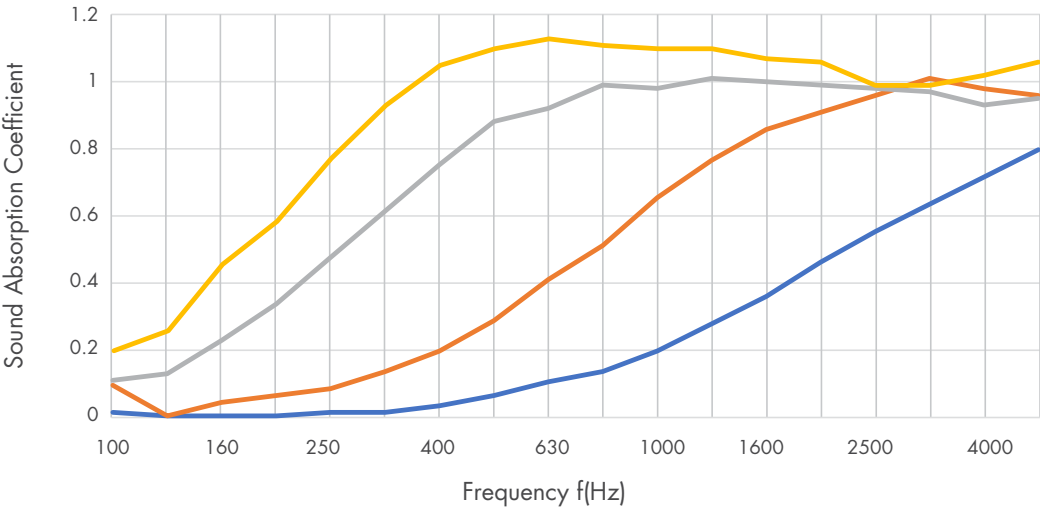
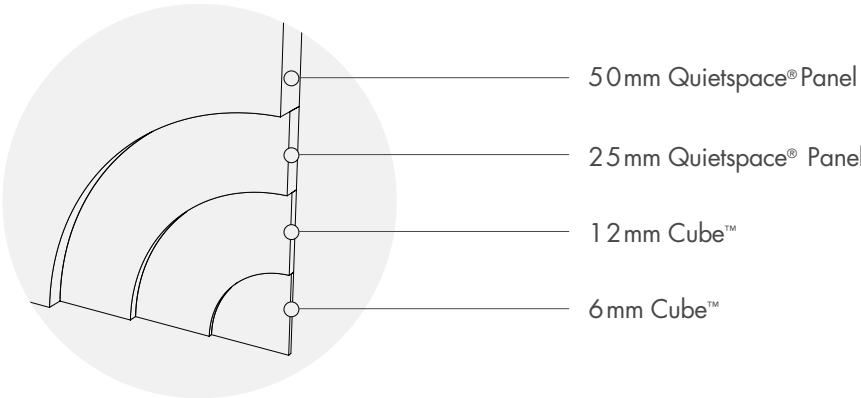


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
Cube™ 6mm	T0712-1	0.00	0.00	0.05	0.20	0.45	0.70	0.20
Cube™ 12mm	T0712-3	0.05	0.10	0.30	0.65	0.90	0.95	0.45
Quietspace® Panel 25mm	T0712-18	0.15	0.45	0.85	1.00	1.00	0.95	0.85
Quietspace® Panel 50mm	T1228-8	0.30	0.75	1.10	1.10	1.05	1.00	1.00



PICK YOUR
PATTERN



STITCH



DOTS



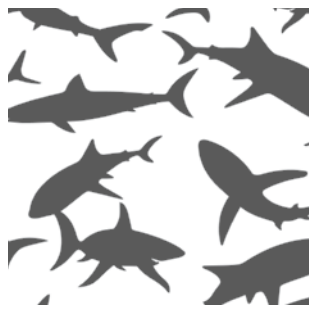
PINSTRIPE



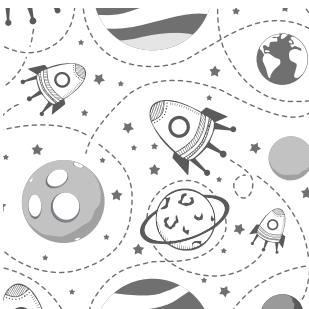
HARLEQUIN



ZOO



JAWS

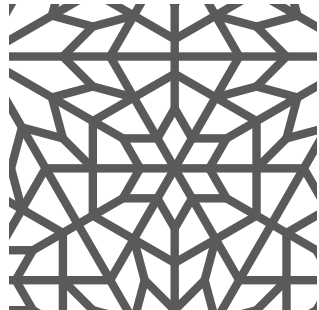


COSMIC



SCHOOL DAYS

PICK YOUR
PATTERN



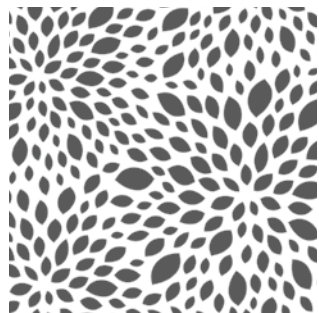
MOSAIC



TROPICS



BAROQUE



BURST



ALPHABET SOUP

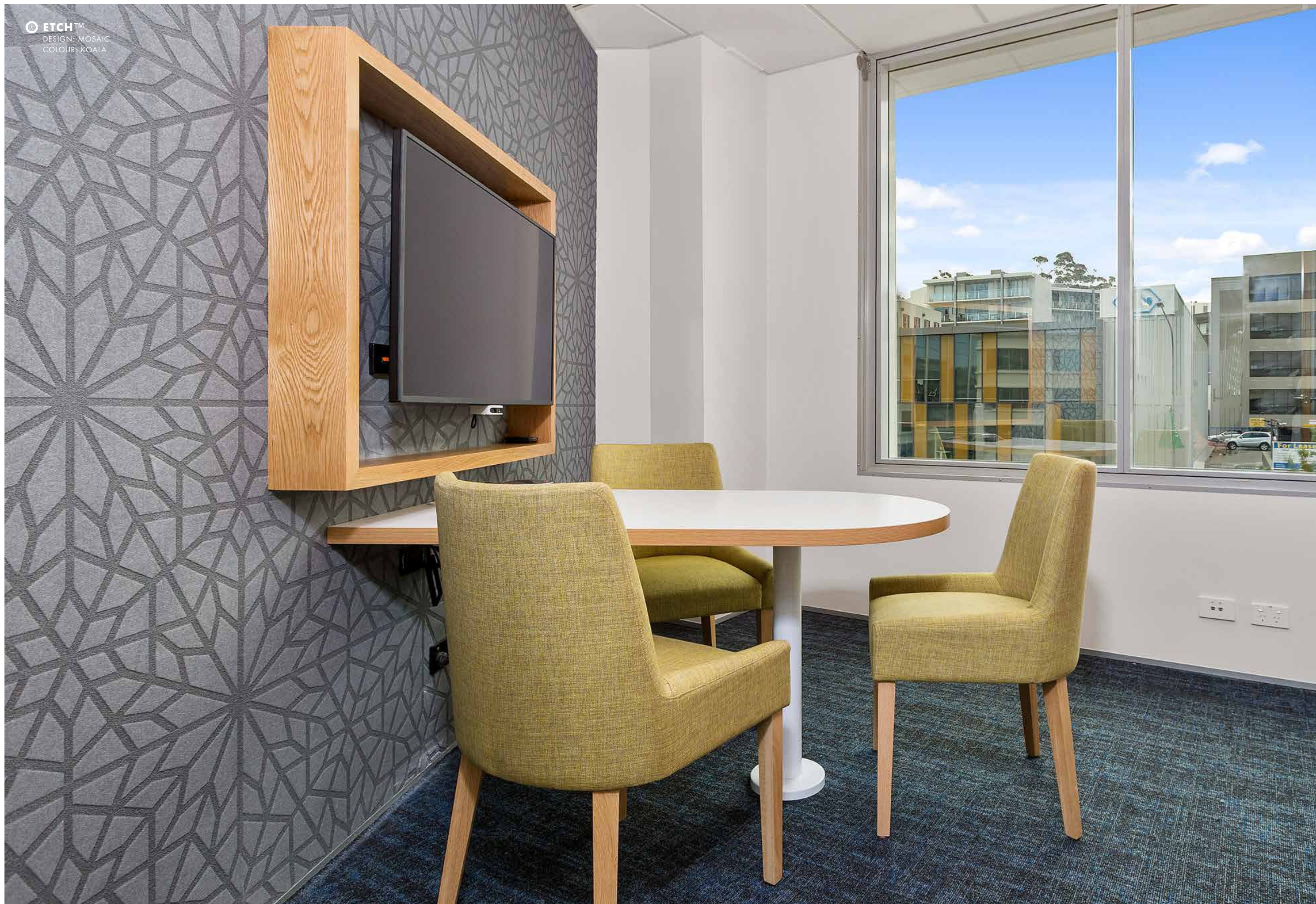


FLAMINGO



BARLEY

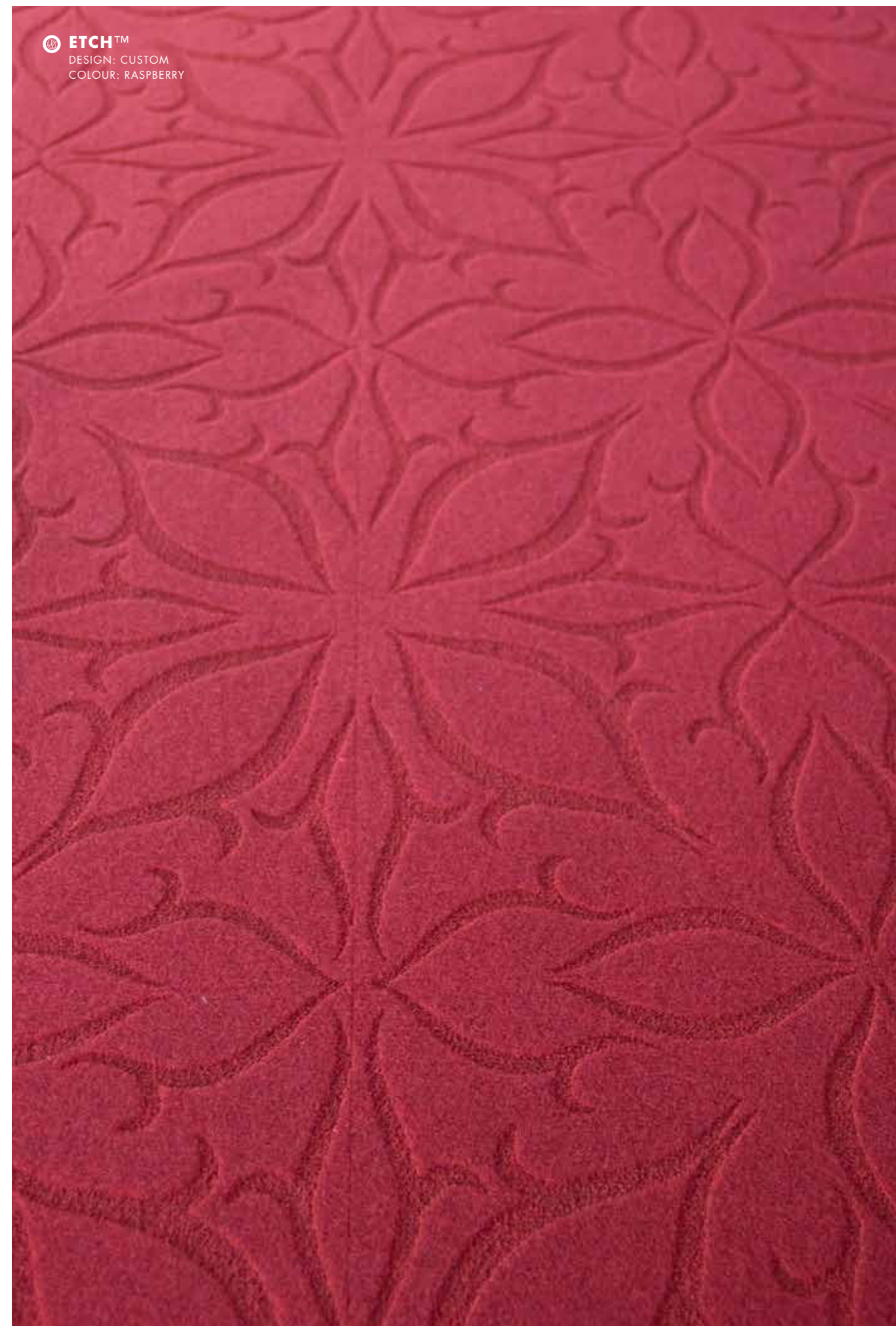
AUTEX



PICK YOUR **COLOUR**

RASPBERRY	BLAZING RED	BRILLIANT ORANGE
PHANTOM	THEATRE	SIMBA
BLUSH	FAWN	SANZ
PORCELAIN	SAGE	KOALA
NOIR	LIGHTSOUT	CINDER

 **ETCH™**
DESIGN: CUSTOM
COLOUR: RASPBERRY



ETCH™
DESIGN: JAWS
COLOUR: ELECTRIC BLUE

PICK YOUR **COLOUR**

WASABI	LIME	JADE
AVOCADO	SPEARMINT	GRANNY SMITH
EMERALD	OCTANE	AZURE
SAPPHIRE	CALYPSO	ATLANTIS
STATELY	INK	ELECTRIC BLUE

INTERIOR ACOUSTICS SYMPHONY



SYMPHONY®
COLOUR: ELECTRIC BLUE
AND BLAZING RED



SYMPHONY®

Symphony is an acoustic fabric made in solid colours that is designed to be used in the same way wallpaper is. But unlike wallpaper it can be used as a pinnable surface and offers a sleek, flat finish unlike Composition, which has more of a work horse finish, it offers a higher sense of luxury, but is essentially personal choice.

Beyond all that, it creates focused spaces by reducing and managing the echo in the room resulting in a more productive environment.

And because not all spaces are the same we've given you creative freedom. We can cut to any shape and add any design, creating something as unique as each one of us. It's highly durable and takes everything you can throw at it giving you the assurance of longevity.

SYMPHONY®

APPLICATIONS

- Decorative yet functional wall coverings for classrooms, retail stores or office interiors
- Fixed acoustic wall covering for the purpose of improving the environment by reducing reverberation and background chatter

SPECIFICATION:

(Wall) treatment shall be Autex Symphony® from thermally bonded high density polyester containing not less than 60% recycled material as manufactured by Autex www.autexindustries.com

Roll 10-12mm (nom. depth), colour (L), sound absorption: Class D, NRC 0.40 Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, EN13501-1:2007+A1:2009: B - s1, d0.

Install as per Autex recommendations. If Autex Symphony® is to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.





SYMPHONY®
COLOUR: BLAZING RED

ABSORPTION COEFFICIENT ACCORDING TO ISO 354

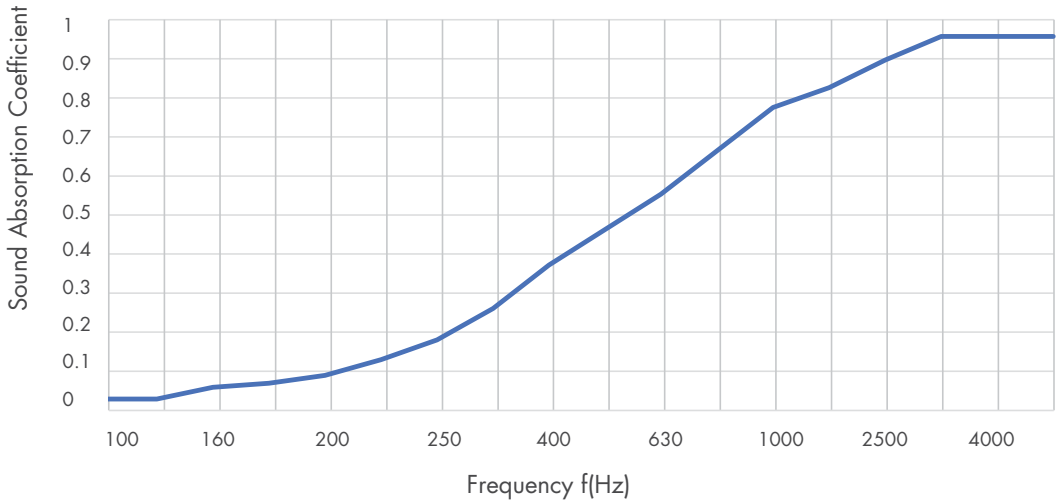


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by onethird octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
Symphony® 10-12mm	T0814-2b	0.02	0.08	0.25	0.54	0.81	0.94	0.40

PRODUCT SPECIFICATIONS

Product Name	Symphony®
Composition	100% Polyester Fibre (PET)
Roll Dimensions	1.22m x 25m
Tolerance	(+5mm) (+10mm)
Thickness	10 - 12mm
Weight	1730gsm

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Symphony is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57	Avocado	11
Citrus	49	Blush	10
Myst	42	Sage	9
Sanz	36	Emerald	8
Wasabi	33	Sapphire	8
Lime	29	Atlantis	8
Azure	24	Blazing Red	8
Silver	23	Raspberry	8
Jade	22	Vintage	6
Porcelain	22	Chilli Red	5
Fawn	20	Cinder	5
Clay	20	Bark	5
Granny Smith	20	Octane	5
Stonewash	19	Phantom	4
Simba	18	Theatre	3
Brilliant Orange	15	Stately	3
Spearmint	13	Charcoal	3
Calypso	13	Lightsout	3
Electric Blue	12	Ink	3
Koala	12	Noir	1

LRVs were measured in accordance with BS 8493:2008+A1:2010

FIRE RATING

Symphony has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRARC): <100m²/s2

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015 as required by BCA Specification C1.10-4
FI 4894 dated 6th June, 2012 and FAR 4055-2 dated 8th October, 2013

EN13501-1:2007

B - s1, d0
Report 189053 dated 7th December, 2009

ASTM E84 - 14

Class A, FS:5 - SD:25
Report RJ3297-9R1 dated 7th December, 2009

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.

VOC concentration: 0.009 mg/m3 (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorped after 4 days:
0.4% by weight

IMPACT RESISTANCE

ISO 7892:1988

Hard Body Impact

There is no surface damage or penetration to Symphony when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

Soft Body Impact

There is no surface damage or penetration to Symphony when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 150mm height.

COLOUR FASTNESS TO LIGHT

Symphony is suitable for indoor use only. Light fastness is dependent on use and exposure. Symphony has been evaluated to the following standard: ISO 105-B02:2014

Rating: 6 (Highest = 7).

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5)

Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

ACOUSTIC PERFORMANCE

Symphony is specifically designed to reduce and control reverberated noise (echo) in building interiors.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

Symphony® does not promote the growth of moulds and mildew.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Symphony contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Symphony is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Symphony or any other Autex product, please contact your Autex account manager or visit our website.



SYMPHONY®
COLOUR OPTIONS

WASABI	LIME	JADE	GRANNY SMITH
AVOCADO	SPEARMINT	SAGE	AZURE
EMERALD	OCTANE	SAPPHIRE	STONEWASH
STATELY	ATLANTIS	ELECTRIC BLUE	PORCELAIN
INK	LIGHTSOUT	CHARCOAL	NOIR

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com

SYMPHONY®
COLOUR OPTIONS

RASPBERRY	BRILLIANT ORANGE	CITRUS	CINDER
BLAZING RED	SIMBA	CLAY	BARK
THEATRE	CHILLI RED	VINTAGE	KOALA
PHANTOM	CALYPSO	MYST	SILVER
BLUSH	FAWN	SANZ	CIVIC

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com



INTERIOR ACOUSTICS COMPOSITION



COMPOSITION®
COLOURS: JADE
AND KOALA



COMPOSITION®

Composition® is an acoustic wall covering available in a range of colours. Typically applied in vertical drops like wallpaper, Composition creates a surface that is pin and velcro receptive. Composition is a durable and flexible polyester wall covering that replaces the need to paint, and is easily maintained to look amazing for a long time.

Beyond all that, it creates incredible learning environments by reducing and managing the reverberation in the room, resulting in a much more peaceful space for students to learn. But it isn't just students that benefit, Composition is great for any working space.

And because not all spaces are the same we've given you creative freedom. We can cut Composition to any shape, creating something as unique as each one of us.

COMPOSITION®

APPLICATIONS

- Decorative and functional acoustic wallcovering for education, retail and commercial interiors
- Minimise noise in interior environments
- Hook-and-loop surface for education and commercial sectors
- Protective layer for plasterboard
- Alternative finishing to paint

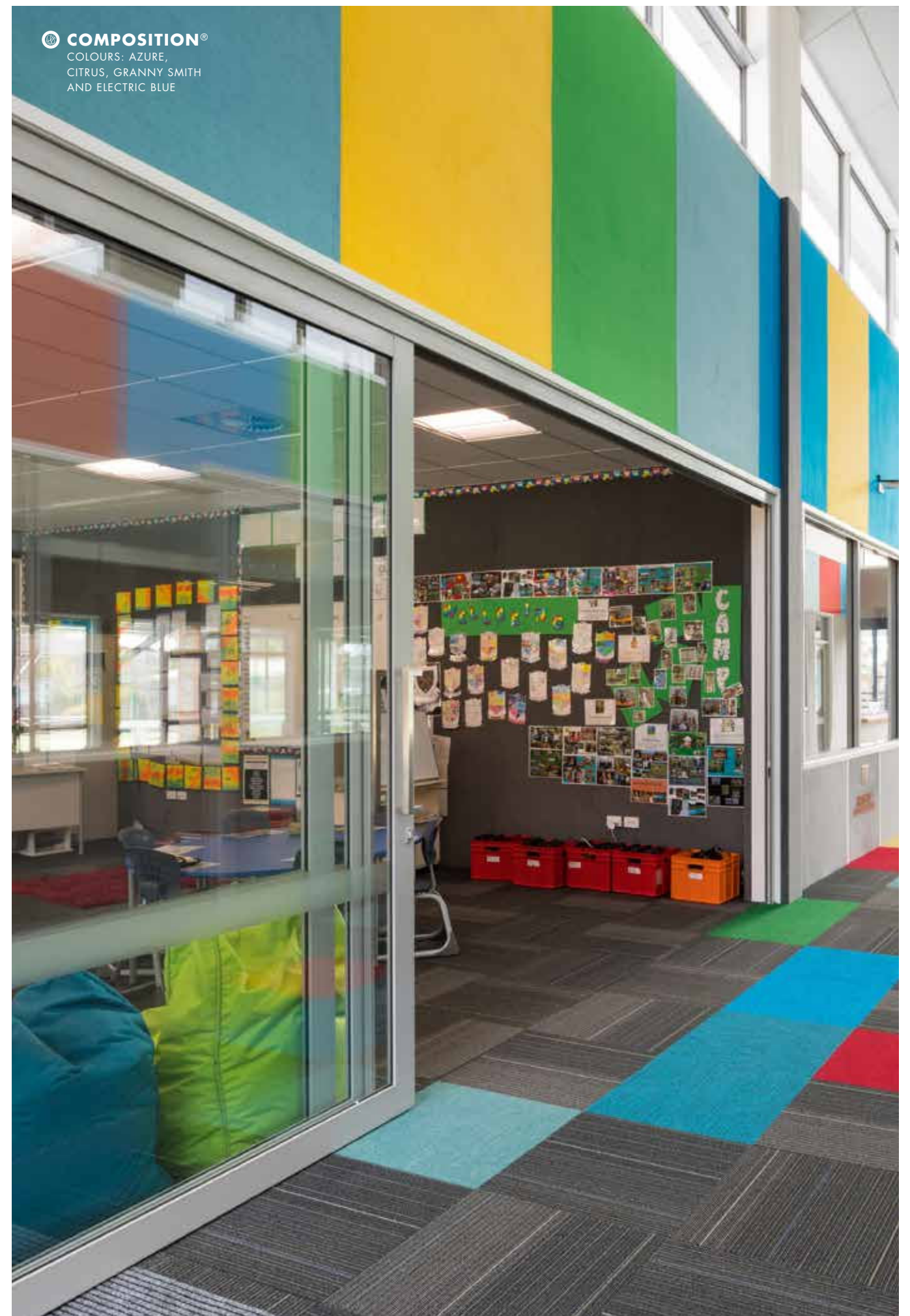
SPECIFICATION

(Wall) treatment shall be Autex Composition® from non-woven needle-punched polyester containing not less than 60% recycled material as manufactured by Autex www.autexindustries.com

Roll 10-12mm (nom.) depth, colour (L), sound absorption: Class D, NRC 0.40, Fire ratings: ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, EN 13501-1:2007+A1:2009: Classification: B - s1, d0

Install as per Autex recommendations.

If Composition is to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.





ABSORPTION COEFFICIENT ACCORDING TO ISO 354

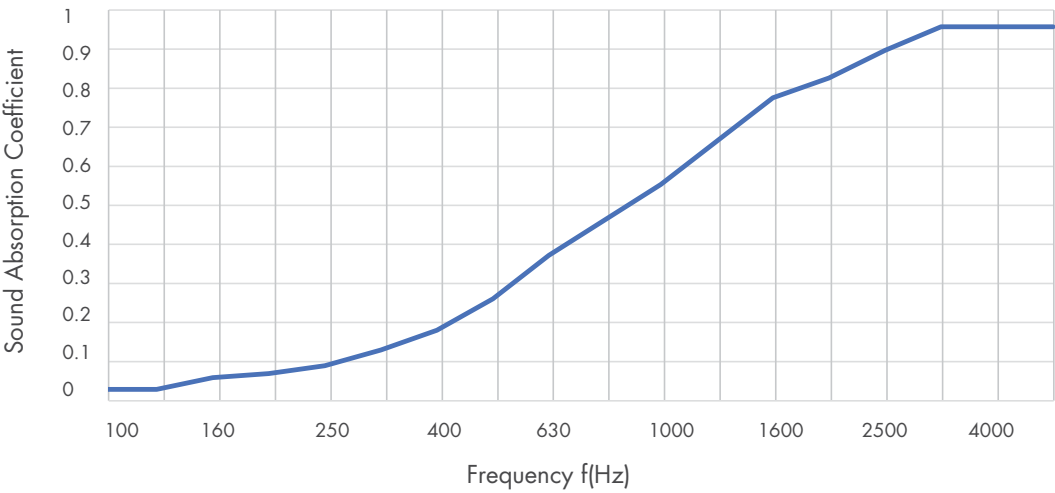


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
Composition® 10-12mm	T0814-2b	0.05	0.10	0.25	0.55	0.80	0.95	0.40

PRODUCT SPECIFICATIONS

Product Name	Composition®	
Composition	100% Polyester Fibre (PET)	
Roll Dimensions	1.22m	25m
Tolerance	(+5mm)	(+10mm)
Thickness	10-12mm	
Weight	1680gsm	

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Composition is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

ACOUSTIC PERFORMANCE

Composition is specifically designed to reduce and control reverberated noise (echo) in building interiors

LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57	Avocado	11
Citrus	49	Blush	10
Myst	42	Sage	9
Sanz	36	Emerald	8
Wasabi	33	Sapphire	8
Lime	29	Atlantis	8
Azure	24	Blazing Red	8
Silver	23	Raspberry	8
Jade	22	Vintage	6
Porcelain	22	Chilli Red	5
Fawn	20	Cinder	5
Clay	20	Bark	5
Granny Smith	20	Octane	5
Stonewash	19	Phantom	4
Simba	18	Theatre	3
Brilliant Orange	15	Stately	3
Spearmint	13	Charcoal	3
Calypso	13	Lightsout	3
Electric Blue	12	Ink	3
Koala	12	Noir	1

LRVs were measured in accordance with BS 8493:2008+A1:2010

FIRE RATINGS

Composition® has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S

Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1

(SMOGR_{ARC}): <100m²/s²

Assessed using methodology AS ISO 9705:2003 in

accordance with AS 5637.1:2015, as required by

BCA Specification C1.10-4

FI 4894 dated 6th June, 2012 and FAR 4055-2 dated 8th

October, 2013

EN13501-1:2007

B - s1, d0

Report 189053 dated 7th December, 2009

ASTM E84 - 14

Class A, FS:5 - SD:25

Report RJ3297-9R1 dated 17th March, 2015

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.

VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorped after 4 days: 0.4% by weight

IMPACT RESISTANCE

ISO 7892:1988

Hard Body Impact

There is no surface damage or penetration to Composition when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

Soft Body Impact

There is no surface damage or penetration to Composition when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 150mm height.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

Composition does not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

Composition is suitable for indoor use only.

Light fastness is dependent on use and exposure.

Composition has been evaluated to the following standard: ISO 105-B02:2014

Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5)

Wet Rating: 4-5 (Highest = 5)

THERMAL PERFORMANCE

10-12mm

R0.22 (@15°C)

MOISTURE ABSORPTION

Polyester fibre when exposed to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture and will not rot or deteriorate in intended use situations.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.

Custom printed Composition requires the services of a specialist cleaning company. Refer to the Composition Cleaning and Maintenance Guide for more information.

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Composition contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Composition is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Composition or any other Autex product, please contact your Autex account manager or visit our website.





COMPOSITION[®]
COLOUR OPTIONS

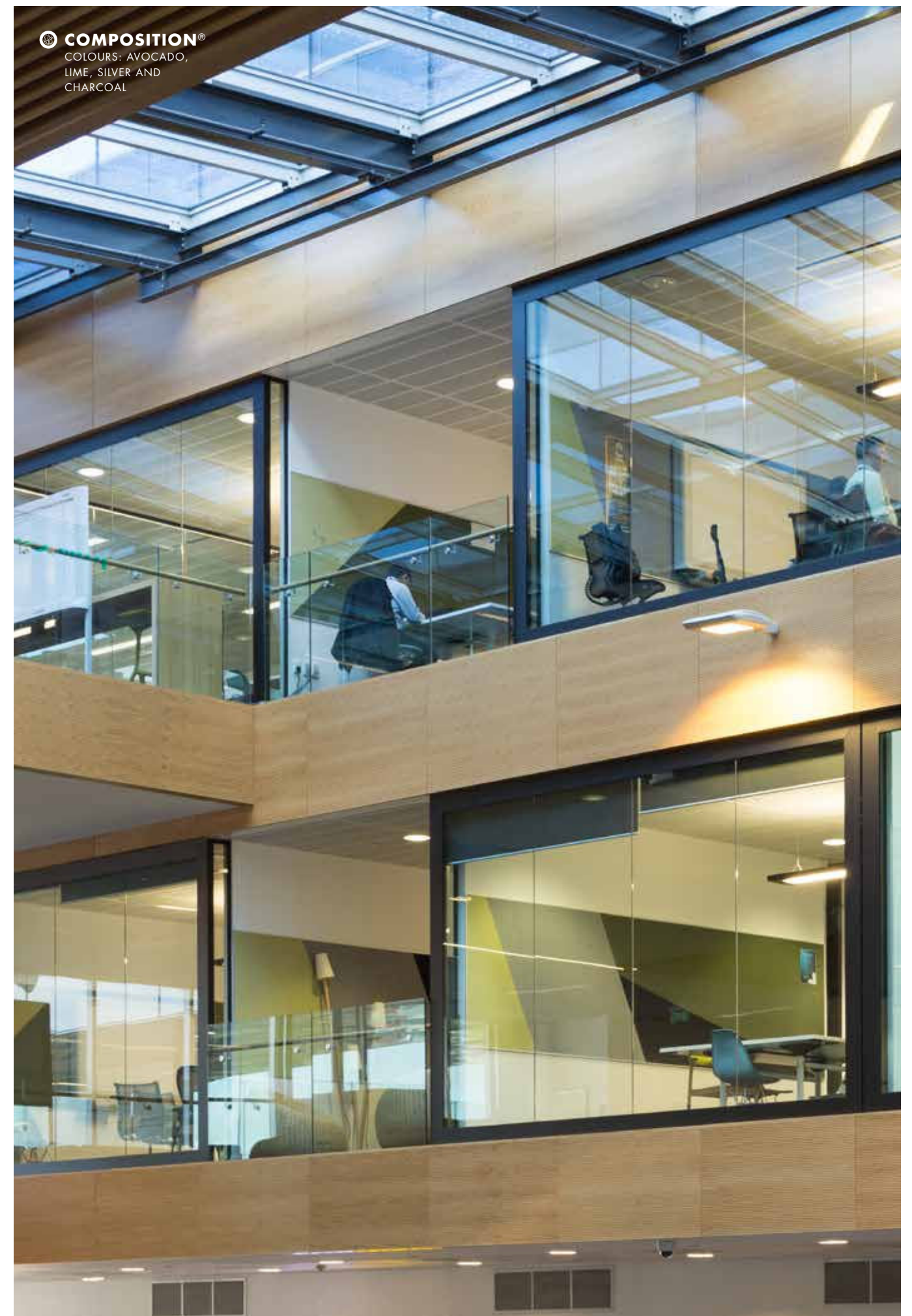
RASPBERRY	BRILLIANT ORANGE	CITRUS	CINDER
BLAZING RED	SIMBA	CLAY	BARK
THEATRE	CHILLI RED	VINTAGE	KOALA
PHANTOM	CALYPSO	MYST	SILVER
BLUSH	FAWN	SANZ	CIVIC

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com

COMPOSITION® COLOUR OPTIONS

WASABI	LIME	JADE	GRANNY SMITH
AVOCADO	SPEARMINT	SAGE	AZURE
EMERALD	OCTANE	SAPPHIRE	STONEWASH
STATELY	ATLANTIS	ELECTRIC BLUE	PORCELAIN
INK	LIGHTSOUT	CHARCOAL	NOIR

To order a colour sample, please contact your Autex account manager
or visit www.autexindustries.com



COMPOSITION PEEL'N'STICK TILES



Muraspec
WALLCOVERINGS

AUTEX





COMPOSITION®
PEEL'N'STICK TILES
COLOUR: BLAZING RED

COMPOSITION® PEEL'N'STICK TILES

Composition® Peel'n'Stick Tiles is an acoustic fabric tile made in solid colours which unlike it's big brother comes in packs of 6 with a super easy to install adhesive back which means anyone can do it. It can be used as a pinnable surface and it is hook and loop receptive, so you can use things like Velcro on it.

Beyond all that, it reduces and manages the echo in the room resulting in a much more peaceful space. Plus it's super flexible so you can use it as a wall feature or a full wall covering. The choice is yours.

And because not all spaces are the same we've given you creative freedom. Mix and match colours for endless options and quarter turn the tile for a same colour gradient effect. It's highly durable and takes everything you can throw at it giving you the assurance of longevity.

COMPOSITION® PEEL'N'STICK TILES

APPLICATIONS

- Decorative yet functional wall coverings for classrooms, retail stores or office interiors
- Pinnable and hook and loop receptive for use as noticeboards
- Fixed acoustic wall covering for the purpose of improving the environment by reducing reverberation and background chatter

SPECIFICATION:

(Wall) treatment shall be Autex Composition® Peel'n'Stick Tiles from non-woven needle-punched polyester containing not less than 60% post-consumer recycled material as manufactured by Autex
www.autexindustries.com

Tile 600mm x 600mm x 10-12mm (nom.) depth, colour (□), sound absorption: Class D, NRC 0.40, Fire ratings: ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003: Classification: Group 1, EN13501-1:2007+A1:2009: Classification: B-s1, d0

Install as per Autex recommendations.

If Composition® Peel'n'Stick Tiles are to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.

COMPOSITION®
PEEL'N'STICK TILES
COLOUR: CITRUS, ATLANTIS
AND NOIR





ABSORPTION COEFFICIENT ACCORDING TO ISO 354

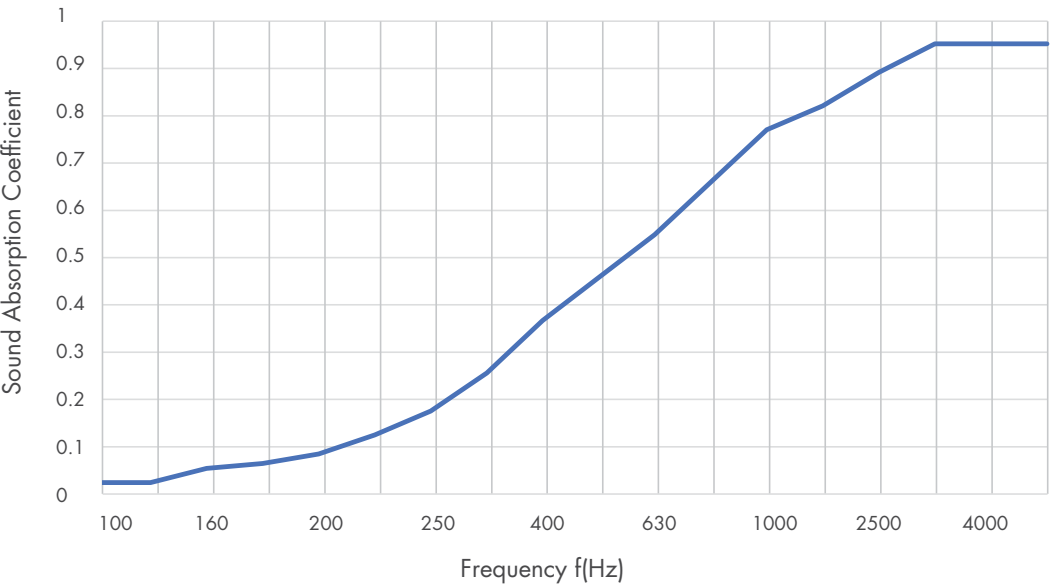


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by onethird octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
Composition® Peel'n'Stick Tiles 10-12mm	T0814-2b	0.05	0.10	0.25	0.55	0.80	0.95	0.40

PRODUCT SPECIFICATIONS

Product Name	Composition® Peel'n'Stick Tiles
Composition	100% Polyester Fibre (PET)
Size Options	600mm x 600mm
Size Tolerance	(+/-5mm) (+/-5mm)
Thickness	10 -12mm
Thickness Tolerance	(+/-6%)
Weight	1680 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Composition Peel'n'Stick Tiles are to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

ACOUSTIC PERFORMANCE

Composition Peel'n'Stick Tiles are specifically designed to reduce and control reverberated noise (echo) in building interiors.

THERMAL PERFORMANCE

10 - 12mm R0.22(@15°C)

MICROBIAL RESISTANCE

ASTM G21-15
Growth Rating: 0 (No growth)
Composition Peel'n'Stick Tiles do not promote the growth of moulds and mildew.

LIGHT REFLECTANCE VALUES BY COLOUR

Civic	57
Citrus	49
Silver	23
Granny Smith	20
Electric Blue	12
Atlantis	8
Blazing Red	8
Noir	1

LRVs were measured in accordance with BS 8493:2008+A1:2010

FIRE RATINGS

Composition Peel’n’Stick Tiles is a value-added product made from Autex Composition as the base material. Composition has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRARC): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4
FI 4894 dated 6 June, 2012
FAR 4055-2 dated 8th October, 2013

EN13501-1:2007

B - s1, d0
Report 189053 dated 7 December, 2009

ASTM E84 - 14

Class A, FS:5 - SD:25
RJ3297-9R1 dated 17th March 2015

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.
VOC concentration: 0.009 mg/m3 (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorped after 4 days:
0.4% by weight.

IMPACT RESISTANCE

ISO 7892:1988

Hard Body Impact

There is no surface damage or penetration to Composition Peel’n’Stick Tiles when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

Soft Body Impact

There is no surface damage or penetration to Composition Peel’n’Stick Tiles when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 150mm height.

COLOUR FASTNESS TO LIGHT

Composition Peel’n’Stick Tiles are suitable for indoor use only. Light fastness is dependent on use and exposure. Composition Peel’n’Stick Tiles have been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016
Dry Rating: 4-5 (Highest = 5)
Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution.
Custom printed Composition requires the services of a specialist cleaning company. Refer to the Composition Peel’n’Stick Tiles Cleaning and Maintenance Guide for more information

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.
Autex Composition Peel’n’Stick Tiles contain a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.
Autex Composition Peel’n’Stick Tiles are manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Composition Peel’n’Stick Tiles, Autex QuietSpace® Panel or any other Autex product, please contact your Autex account manager or visit our website.

**COMPOSITION®
PEEL’N’STICK TILES
COLOUR OPTIONS**



To order a colour sample, please contact your Autex account manager or visit www.autexfrontier.com

INTERIOR ACOUSTICS
CUBE™
DATASHEET





CUBE™

Cube™ is a lightweight but semi-rigid panel made from compressed polyester felt that has endless design flexibility. In standard panel sizes with options of 12mm or 24mm thicknesses, Cube works hard to reduce reverberation and control background chatter.

Cube can be cut, printed on or moulded with no need for edging or capping. It can be used in ceilings, as panels between workspaces or in bespoke installations with custom designs. And if that wasn't enough, just stick it straight to the wall with our Peel 'n' Stick backing options.

If you have your own ideas, our in-house design team are on hand to turn your vision into reality.

APPLICATIONS

- Decorative and functional acoustic wall covering for education, retail and commercial interiors
- Media for creative solutions
- Acoustic pinboard surface for education and commercial sectors
- Modular room divider for display, privacy and sound absorption

SPECIFICATION

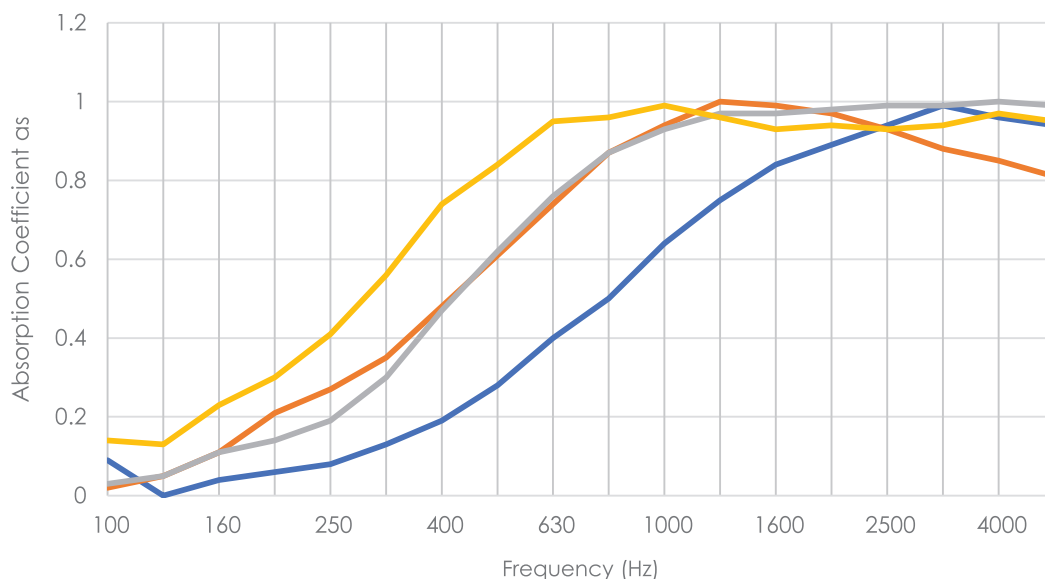
(Wall) treatment shall be Autex Cube™ from thermally bonded high density polyester containing not less than 60% recycled material as manufactured by Autex www.autexindustries.com

Panel 1220 x 2440 x ()mm (nom.) depth, colour (), sound absorption
12mm: Class D, NRC 0.45 – with 24mm air gap: Class C, NRC 0.70.
24mm: Class D, NRC 0.70 – with 24mm air gap: Class C, NRC 0.80.
Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003
Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2.

Install as per Autex recommendations.

If Autex Cube™ is to be specified for use other than as a wall covering, please seek guidance from your Autex Account Manager.

ABSORPTION COEFFICIENT ACCORDING TO ISO 354



Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	NRC
^{α_p} 12mm Cube	T0712-3	0.05	0.10	0.30	0.65	0.90	0.95	0.45
^{α_p} 12mm Cube (with 25mm air gap)	T0712-6	0.05	0.30	0.60	0.95	0.95	0.85	0.70
^{α_p} 24mm Cube	T1961-1	0.05	0.20	0.60	0.90	1.00	1.00	0.70
^{α_p} 24mm Cube (with 25mm air gap)	T1326-2	0.15	0.40	0.85	0.95	0.95	0.95	0.80

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, and rounded to the nearest 0.05.

PRODUCT SPECIFICATIONS

Product Name	Cube™	
Composition	100% Polyester Fibre	
Panel Dimensions	1220mm x 2440mm	
Tolerance	(+5mm) x (+10mm)	
Thickness	12mm	24mm
Tolerance	(+/-6%)	(+/-6%)
Weight	2400gsm	3600gsm

THERMAL PERFORMANCE

(Internally tested by Autex Lab)

Cube 12mm	R0.41 (@15°C)
Cube 24mm	R0.82 (@15°C)

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Cube™ is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

LIGHT REFLECTANCE VALUES BY COLOUR

Cube™ is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Pavilion	78
Opera	49
Savoye	47
Senado	45
Rosada	45
Acros	42
Falling Water	36
Bosco	29
Flatiron	25

Zenith	22
Lotus	16
Galaxy	16
Iron Bank	13
Pinnacle	8
Empire	6
Tree House	3
Petronas	2



FIRE RATINGS

Cube™ has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGR_{ARC}): <100m²/s²
Assessed using methodology AS ISO 9705 - 2003
in accordance with AS 5637.1:2015, as required
by BCA Specification C1.10-4
FI 4974 dated 16th September, 2012
FAR 4055-2 dated 8th October 2013

EN13501-1:2007+A1:2009

B - s2, d2 (Cube™ 12mm)
WF336911 dated 25th February 2014

ASTM E-84-15a

Class A, FS:0 - SD:45 (Cube™ 1/2")
RJ4479-2 dated 25th January, 2016

Class A, FS:0 - SD:65 (Cube™ 1")
RJ4479-1 dated 25th January, 2016

VOC EMISSIONS

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.
VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorbed after 4 days: 0.4% by weight

IMPACT RESISTANCE

ISO 7892:1988

HARD BODY IMPACT

There is no surface damage or penetration to Cube™ when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

SOFT BODY IMPACT

There is no surface damage or penetration to Cube™ when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50kg object dropped from a 150mm height.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

Cube™ does not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

Cube™ is suitable for indoor use only. Light fastness is dependent on use and exposure. Cube™ has been evaluated to the following standard:

ISO 105-B02:2014

Rating: 6 (Highest = 7)

COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5)

Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution. Custom printed Cube™ requires the services of a specialist cleaning company. Refer to the Cube™ Cleaning and Maintenance Guide for more information

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Cube™ contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Cube™ is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Cube™ or any other Autex product, please contact your Autex account manager or visit our website.



COLOUR OPTIONS

EMPIRE	SAVOYE	OPERA
FLATIRON	ACROS	SENADO
FALLING WATER	BOSCO	ZENITH
GALAXY	LOTUS	IRONBANK
PINNACLE	TREE HOUSE	ROSADA
PETRONAS	PAVILION	Cube™

MOQ's apply to some colours. To find out more, or to order a sample, please contact your Account Manager or visit our website.

QUIETSPACE PANEL



AUTEX



 **QUIETSPACE® PANEL**
COLOUR: NUDE WHITE



QUIETSPACE® **PANEL**

When there is no room for compromise, Quietspace® Panel is the best solution for superior sound absorption without it being obvious. Quietspace Panel has been engineered to absorb a minimum of 85% of the sound energy it meets. This means annoying and distracting noise no longer feels that way.

Intentionally designed in three of the most common interior colours; black, grey and white, Quietspace Panel can easily blend into ceilings and walls to simply do its job. But if you would like to turn your acoustics into a design element without losing the performance, simply use the ultimate upgrade; and combine with Autex Vertiface®. Face your panels in any of our colours to create full feature walls or custom shapes and designs. Anything is possible.

Available in 25mm, 50mm, 75mm and 100mm there's no acoustic challenge Quietspace Panel can't meet.

APPLICATIONS

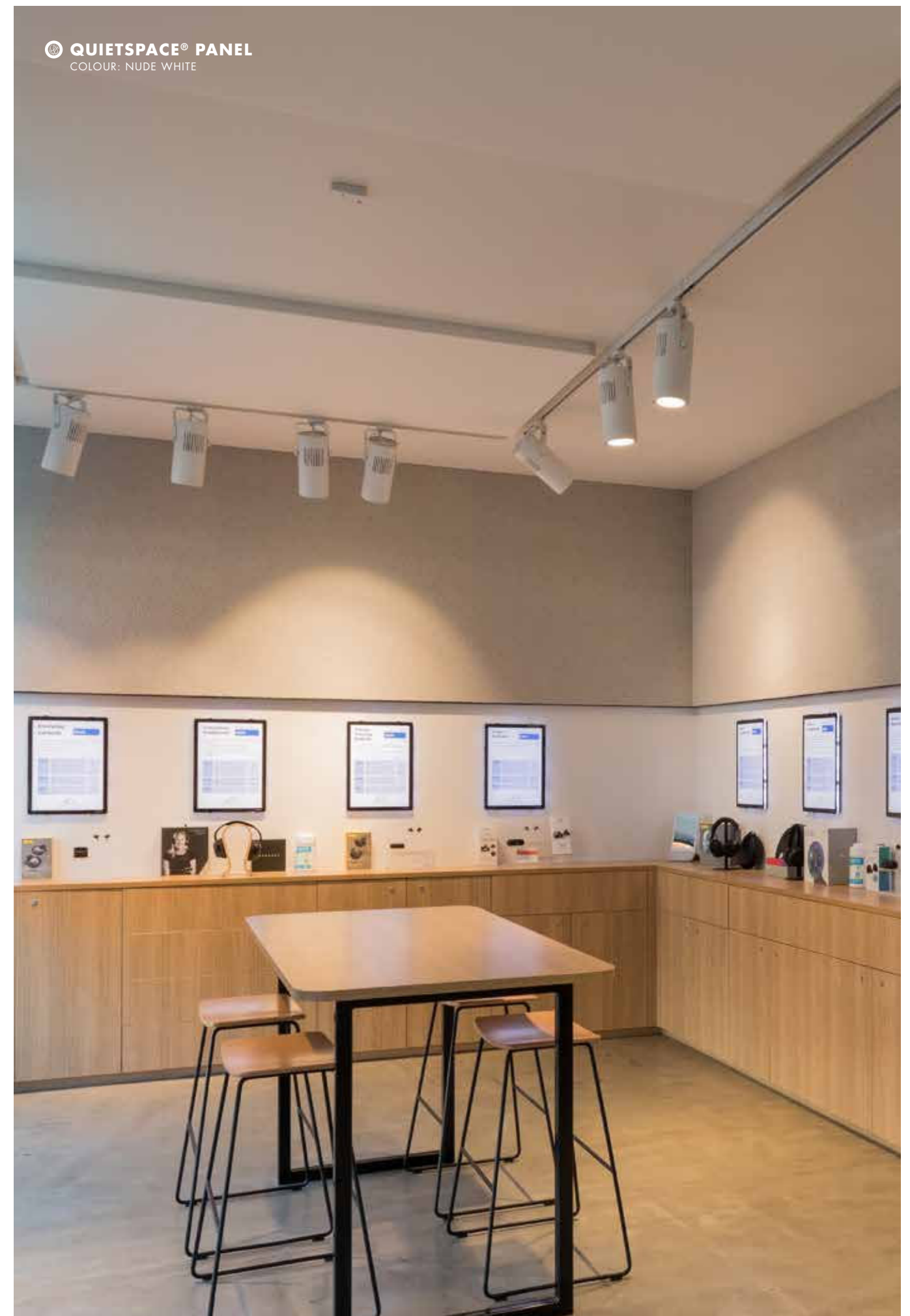
- High performance acoustic panel for commercial interior sound control with a sophisticated appeal
- Refined acoustic surface for framed modular office partition panelling
- Direct fixed to ceilings
- Wallcovering with exceptional absorption of reverberated noise
- Functional acoustic wallcovering for retail and commercial interiors
- A decorative feature with custom cut options available

SPECIFICATION

(Wall/Ceiling) treatment shall be Quietspace® Panel from thermally bonded polyester containing not less than 45% recycled material as manufactured by Autex www.autexindustries.com

Panel 1220mm x 2440mm x ()mm nom depth, sound absorption: 25mm: Class C, NRC 0.85, 50mm: Class A, NRC 1.00. Fire rating 25mm, 50mm, 75mm and 100mm: ISO9705: Classification: Group 1-S, AS ISO 9705 – 2003: Group 1, EN13501-1:2007: B – s2, d0 50mm: EN13501-1:2007+A1:2009: B - s2, d2

Install as per Autex recommendations. If Quietspace® Panel is to be specified for use other than as a ceiling or wallcovering please seek guidance from your Autex Account Manager.

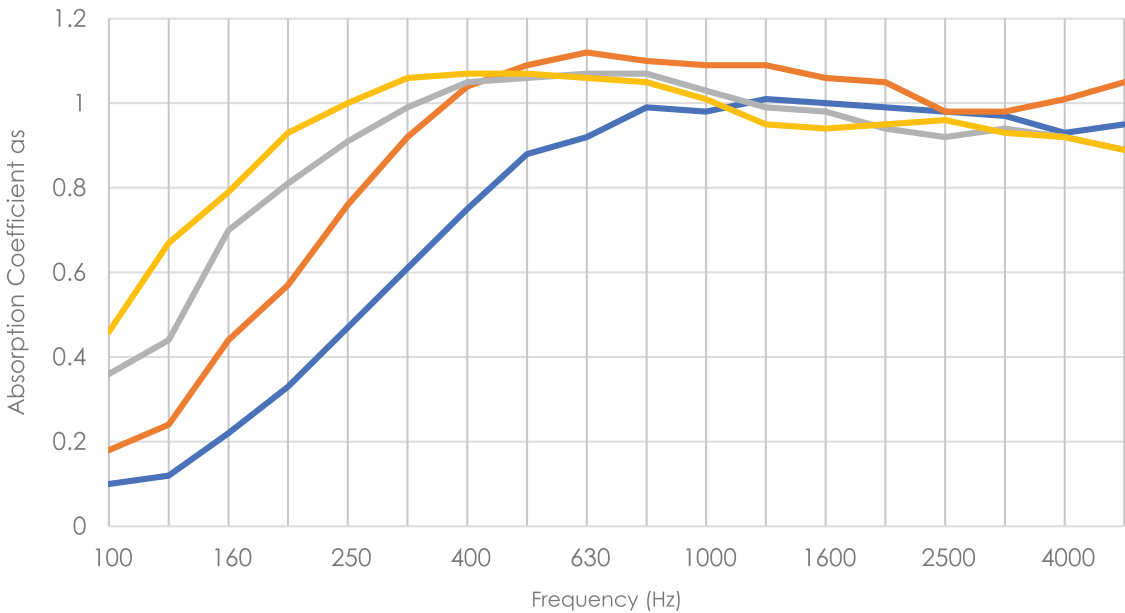


OPEN SPACE COMFORT

Reduce reverberated noise in large open areas
with Quietspace® Panel on the ceiling.



ABSORPTION COEFFICIENT ACCORDING TO ISO 354.



Description	University of Auckland Test report Number	Frequency (Hz)						NRC
		125	250	500	1000	2000	4000	
25mm	T0712-18	0.15	0.45	0.85	1.00	1.00	0.95	0.85
50mm	T1228-8	0.30	0.75	1.10	1.10	1.05	1.00	1.00
75mm	T1905-4	0.50	0.90	1.05	1.05	0.95	0.90	1.00
100mm	T1905-5	0.65	1.00	1.05	1.00	0.95	0.90	1.00

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

PRODUCT SPECIFICATIONS

Product Name	Quietspace® Panel		
Composition	100% Polyester Fibre (PET)		
Panel Dimensions	1220mm x 2440mm		
Tolerance	(+5mm) x (+10mm)		

Thickness	25mm	50mm	75mm	100mm
Tolerance	(+/- 6%)	(+/- 6%)	(+/- 6%)	(+/- 6%)
Weight	2300gsm	3800gsm	4050gsm	4300gsm

LIGHT REFLECTANCE

White Quietspace® Panel is suitable for indoor use only and has a light reflectance value of 83 (measured in accordance with BS 8493:2008+A1:2010)

THERMAL PERFORMANCE

(Internally tested by Autex Lab)

25mm	R0.6 (@15°C)
50mm	R1.4 (@15°C)
75mm	R1.9 (@15°C)
100mm	R2.4 (@15°C)

ACOUSTIC PERFORMANCE

Quietspace Panel is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Minimum Noise Reduction Coefficient 0.85

INSTALLATION

Install as per Autex recommendations.Install instructions are included in each pack or available on the website. If Quietspace Panel is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

FIRE RATINGS

Quietspace® Panel has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRARC): <100m²/s2
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4.

FI 4871 dated 11th July, 2012
FAR 4055-2 dated 8th October, 2013

EN13501-1:2007 (25mm Quietspace® Panel)

B - s2, d0
Report 185157 dated 22nd July, 2009

EN13501-1:2007+A1:2009 (50mm Quietspace® Panel)

B - s2, d2
Report VWF 336912 dated 25th February, 2014

ASTM E84 - 14 (1" Quietspace® Panel)

Class A, FS:0 - SD:10
RJ3297 -7 dated 12th June 2014

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour absorbed and adsorped after 4 days: 0.4% by weight

IMPACT RESISTANCE

ISO 7892:1988

Hard Body Impact

There is no surface damage or penetration to Quietspace Panel when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 14-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 3m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

Soft Body Impact

There is no surface damage or penetration to Quietspace Panel when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 120-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 250mm height.

MICROBIAL RESISTANCE

ASTM G21-15

Growth Rating: 0 (No growth)

Quietspace Panel does not promote the growth of moulds and mildew.

PATTERN REPEAT

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up which is an inherent feature of this product.

FABRIC CARE

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution. Custom printed Quietspace Panel requires the services of a specialist cleaning company. Refer to the Quietspace Panel Cleaning and Maintenance Guide for more information.

ENVIRONMENTAL

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Quietspace Panel contains a minimum of 45% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Quietspace Panel is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Quietspace Panel or any other Autex product, please contact your Autex account manager or visit our website.



CARING FOR THE ENVIRONMENT

Quietspace® Panel is manufactured using 100% polyester fibre and contains a minimum of 45% previously recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We use Life Cycle Analysis (LCA) to understand the environmental impacts of our products and set targets to reduce these. All our products have been verified as low VOC and are free from chemical binders making them great for indoor environmental quality (IEQ).

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, LCARate Gold and PHD level platinum certified. Quietspace Panel is Declare certified to be Red List free and can be used in Living Building Challenge projects.

Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



Declare.



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Johor

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