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Architectural

Autex Acoustic Solutions  
**PRODUCT WARRANTIES**



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3D Ceiling Tiles are manufactured by Autex Industries Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

## Specification

**Product name** 3D Ceiling Tiles  
**Description** 100% polyester thermally moulded, needle punched tile

	Metric
Tile dimensions	595 mm x 595 mm
Tile tolerance	(+/- 0.5 mm) (+/- 0.5 mm)
Thickness	Tiles range from 25 mm to 140 mm. Refer to Data Sheet for specific thickness values.
Depth tolerance	(+/- 0.5 mm)
Weight	1680 gsm

## Physical description/ properties

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

## Acoustic performance

3D Ceiling Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Ceiling Tiles without AAB 35-25	0.15	0.45	0.65	0.90	0.90	0.80	0.75
● 3D Ceiling Tiles with AAB 35-25	0.25	0.60	0.95	1.05	1.00	0.90	0.90
● 3D Ceiling Tiles S-5.37 142 mm	0.15	0.65	0.60	0.70	0.75	0.70	0.65



## Service

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

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). 3D Ceiling Tiles contain a minimum of 55% recycled polyester fibre.

### Suitable applications

Decorative and functional acoustic tile for retail, education, hospitality and commercial interiors.

### Fire ratings

3D Ceiling Tiles have been evaluated using the following test methods:

### ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003

in accordance with AS 5637:2015,

as required by BCA Specification C110-4 FAR 4055

### EN13501-1:2007

(6 mm 3D Ceiling Tiles)

B - s1, d2

Report WF 336913

### ASTM E-84-14

Class A, FS:0 - SD:10

Report RJ3297

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116

and is considered a low VOC product.

VOC concentration: 0.009 mg/m<sup>3</sup> (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)

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

### Colour fastness to light

3D Ceiling Tiles are suitable for indoor use only. Lightfastness is dependent on use and

exposure. 3D Ceiling 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 3D Ceiling Tiles the services of a specialist cleaning company. Refer to the 3D Ceiling Tiles Care and Maintenance Guide for more information.

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3D Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product name** 3D Tiles  
**Description** 100% polyester thermally moulded, needle punched tile

		Metric
Tile dimensions	Classic	575 mm x 575 mm
	S5.46	498 mm x 575 mm
	S5-50	288 mm x 575 mm
Tile tolerance		(+/- 0.5 mm) (+/- 0.5 mm)
Thickness		Tiles range from 25 mm to 140 mm. Refer to Data Sheet for specific thickness values.
Depth tolerance		(+/- 0.5 mm)
Weight		1680 gsm

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A



## Acoustic performance

3D Tiles are specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient (NRC): 0.75

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 3D Tiles (without AAB 35-25)	0.15	0.45	0.65	0.90	0.90	0.80	0.75
● 3D Tiles (with AAB 35-25)	0.25	0.60	0.95	1.05	1.00	0.90	0.90
● 3D Tiles S-5,37, S-5,46	0.15	0.65	0.60	0.70	0.75	0.70	0.65

## Service

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

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). 3D Tiles contains a minimum of 55% recycled polyester fibre.

### Suitable applications

Decorative and functional acoustic tile for retail, education, hospitality and commercial interiors.

### Fire ratings

3D Tiles have been evaluated using the following test methods:

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke production rate: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1 (SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 56371:2015 as required by BCA Specification C1.10-4  
FAR 4055

### EN13501-1:2007+A1:2009

(6 mm 3D Tiles)  
B - s1, d2  
Report WF 336913

### ASTM E84 - 14

(12 mm 3D Tiles)  
Class A, FS:0 - SD:10  
Report RJ3297

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m<sup>3</sup> (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. Light fastness is dependent on use and exposure. 3D Tiles 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 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 3D Tiles require the services of a specialist cleaning company. Refer to the 3D Tiles Care and Maintenance Guide for more information.

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Accent Ceiling Tile are manufactured by Autex Industries Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. This product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all the performance properties stated within this guarantee.

### Specification

Product name	Accent Ceiling Tile
Description	100% polyester needle punched, thermally bonded ceiling tile with impervious layer

	Metric
Panel dimensions	595 mm x 1195 mm
Tile tolerance	(+/- 2 mm) (+/- 5 mm)
Thickness	13 mm
Tolerance	(+/- 6%)
Density	239 kg/m <sup>3</sup>

### Physical description/ properties

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

### Acoustic performance

Accent Ceiling Tile is specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient 0.85

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● Accent Ceiling Tile 13 mm (300 mm air gap)	0.70	0.80	0.80	0.90	1.00	1.00	0.85



## Service

For further information about Accent Ceiling Tile or any other Autex Acoustics® product, please contact your account manager or visit our website.

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Accent Ceiling Tile contains a minimum of 60% recycled polyester fibre.

### Suitable applications

High performing acoustic ceiling tile for reverberation control in commercial and education environments.

### Fire ratings

#### ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology

AS ISO 9705 - 2003

in accordance with AS 5637:2015, as required

by BCA Specification C110-4

FAR 4055

### BS EN 13501-1:2018

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>

(Cube™ 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m<sup>3</sup> (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

### Soft body impact

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

### Microbial resistance

ASTM G21-15

Growth rating: 0 (No growth)

Accent Ceiling Tile does not promote the growth of moulds and mildew.

### Colour fastness to light

Accent Ceiling Tile is suitable for indoor use only. Light fastness is dependent on use and exposure. Accent Ceiling Tile 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 Accent Ceiling Tile requires the services of a specialist cleaning company. Refer to the Accent Ceiling Tile Care and Maintenance Guide for more information.

### Back loading

None. All loads to be independently supported or transferred to the grid. For questions and concerns please contact your account manager.

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Acoustic Timber™ Ceiling Tiles are manufactured by Autex Industries Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. This product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all the performance properties stated within this guarantee.

## Specification

Product name Acoustic Timber™ Ceiling Tiles  
Description 100% polyester needle punched, thermally bonded ceiling tile

	Metric
Panel dimensions	595 mm x 1195 mm
	595 mm x 595 mm
Tile tolerance	(+/- 2 mm) (+/- 5 mm)
Thickness	12 mm
Tolerance	(+/- 6%)

## Physical description/ properties

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

## Acoustic performance

Acoustic Timber Ceiling Tile is made using Accent Ceiling Tile. The effect of the printed surface has been tested and found to have no impact on the acoustic performance.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● Ceiling Tile 12 mm (300 mm air gap)	0.70	0.80	0.80	0.90	1.00	1.00	0.85

Minimum Noise Reduction Coefficient 0.85



## Service

For further information about Acoustic Timber Ceiling Tile or any other Autex Acoustics® product, please contact your account manager or visit our website.

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Acoustic Timber Ceiling Tile contains a minimum of 60% recycled polyester fibre.

### Suitable applications

High performing acoustic ceiling tile for reverberation control in commercial and education environments.

### Fire ratings

Acoustic Timber Ceiling Tiles are made from Cube™ which has been tested and evaluated using the following test methods.

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke production rate: <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4 FAR 4055

### BS EN 13501-1:2018

Ceiling applications  
Classification: B-s<sub>2</sub>d<sub>0</sub>  
(Cube™ 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m<sup>3</sup> (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

Acoustic Timber Ceiling Tile may show surface damage when subjected to impacts.

We would advise against using Acoustic Timber Ceiling Tile in areas where there is likely to be contact with the product.

### Microbial resistance

ASTM G21-15  
Growth rating: 0 (No growth)  
Acoustic Timber Ceiling Tile does not promote the growth of moulds and mildew.

### Colour fastness to light

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

### Pattern repeat

Acoustic Timber Ceiling Tiles are made to replicate Timber grains and there is a variation from panel to panel to provide the natural look. There is no pattern repeat from tile to tile.

### Fabric care

Avoid contact with the Acoustic Timber Ceiling Tile surface. Where liquids and other contaminants come in contact with the panels, these should be gently removed immediately and not allowed to soak in, dry, or set. Refer to the product Care and Maintenance for cleaning guidance. Consult a specialist cleaning company for cleaning if required.

### Back loading

None. All loads to be independently supported or transferred to the grid. For questions and concerns, please contact your account manager.

### Blemishes

Due to the nature of the raw material and the manufacturing process, flecks and other small surface blemishes may be visible on the surface of Autex Acoustics panels from time to time. This is an inherent characteristic of the textile products and is unavoidable.

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**Specification**

<b>Product name</b>	Acoustic Timber™ Panel™		
<b>Description</b>	100% polyester lightweight semi-rigid panel		
	Metric		
Panel dimensions	1220 mm x 2440 mm		
	1200 mm x 2700 mm (AU only)		
Tolerance	(+5 mm) (+10 mm)		
Thickness	12 mm	24 mm	25 mm
Tolerance	(+/- 6%)	(+/- 6%)	(+/- 6%)

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic performance**

Acoustic Timber Panel is made using Cube™ or Quietspace® Panel. The effect of the printed surface has been tested and found to have no impact on the acoustic performance of Cube or Quietspace Panel.

Minimum Noise Reduction Coefficient 0.45

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 12 mm Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
● 12 mm Cube (with 25 mm air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● 24 mm Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 24 mm Cube (with 25 mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80
● 25 mm Quietspace	0.15	0.45	0.85	1.00	1.00	0.95	0.85



## Product specifications

### Fire ratings

Acoustic Timber is made from Cube™ which has been tested and evaluated using the following test methods:

#### ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by BCA Specification C1.10-4

FI 4974

FAR 4055

#### BS EN 13501-1:2018

Wall applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>

(Cube™ 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-20-000268-A

Wall applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(Cube™ 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-21-000135-G-A

Wall applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(25 mm Quietspace® Panel)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-21-000135-E-A

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>

(Cube™ 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(Cube™ 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-21-000135-G-B

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(25 mm Quietspace® Panel)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-21-000135-E-B

#### ASTM E-84-15a

Class A, FS:0 - SD:45

(Cube™ 1/2")

RJ4479

Class A, FS:0 - SD:65

(Cube™ 1")

RJ4479

#### ASTM E84 - 14

(1" Quietspace® Panel)

Class A, FS:0 - SD:10

RJ3297

#### Suitable applications

Suitable for use as acoustic and decorative treatments in non-contact areas.

For applications where contact is likely to occur, Autex Acoustics recommends our standard Cube™ or Quietspace® Panel range.

### Acoustic performance

The ink used to print this surface finish has been tested and found to have no impact on the acoustic performance of Autex Acoustics® products. Please contact your account manager for further information if required.

### Pinnable

Acoustic Timber is pinnable. However, please be aware that the surface is not self-healing, and the backing panel colour may be visible when pinning.

### Impact resistance

Acoustic Timber may show surface damage when subjected to impacts. We would advise against using Acoustic Timber in areas where there is likely to be contact with the product.

### VOC emissions

Acoustic Timber has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC and low formaldehyde emissions product. VOC emissions: 0.019 mg/m<sup>3</sup> Formaldehyde emissions: <0.005 mg/m<sup>3</sup>

### Colour fastness to light

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

### Light Reflectance Value (LRV) solid colours

When selecting Acoustic Timber, a sample can be provided and tested for LRV. Please contact your account manager at the start of your project to arrange a test.

### Fabric care

Avoid contact with the Acoustic Timber surface. Where liquids and other contaminants come in contact with the panels, these should be gently removed immediately and not allowed to soak-in, dry, or set. Refer to the product Care and Maintenance Guide for cleaning guidance. Consult a specialist cleaning company for cleaning if required.

### Finish

The acoustic product colour may vary from samples and between each product batch. This is due to the inherent nature of the textile. This will not affect the colour of the Acoustic Timber.

### Blemishes

Due to the nature of the raw material and the manufacturing process, flecks and other small surface blemishes may be visible on the surface of Autex Acoustics panels from time to time. This is an inherent characteristic of the textile products and is unavoidable.

## Service

For further information about Acoustic Timber or any other Autex Acoustics product, please contact your account manager or visit our website. The information contained in this document is correct to the best of our knowledge at the date of its publication. It is the user's responsibility to determine if this information is suitable for their intended application and to make sure that this document is the most current publication. You can do this by checking our website or contacting your account manager.

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

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**Autex  
Acoustics®**

# Acoustic Timber™ Raft™

# Manufacturer's Guarantee

Acoustic Timber™ Raft™ is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

## Specification

<b>Product name</b>	Acoustic Timber™ Raft™
<b>Description</b>	100% polyester complete modular acoustic raft
	Metric
Fin length	2400 mm
Tolerance	(+/- 0.5 mm)
Thickness	12 mm
Tolerance	(+/- 6%)

## Physical description/ properties

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

## Acoustic performance

Acoustic Timber Raft is specifically designed to reduce and control reverberated noise and echo in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
<b>Frontier Raft Beam 100</b> (200 mm off ceiling @ 150 mm centres)	0.05	0.25	0.55	0.95	1.15	1.20	0.75
<b>Frontier Raft Beam 250</b> (200 mm off ceiling @ 300 mm centres)	0.20	0.45	0.70	1.10	1.35	1.30	0.90



## Product specifications

### Suitable applications

Suitable for use as acoustic and decorative treatments in non-contact areas. For applications where contact is likely to occur, Autex Acoustics recommends our standard Frontier™ Raft range. If you have any concerns about the install location, please contact your account manager.

### Fire ratings

Acoustic Timber Raft is made from Cube™ which has been tested and 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<sub>arc</sub>): <100m2/s2  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4  
FI 4974  
FAR 4055

#### BS EN 13501-1:2018

Wall applications  
Classification: B-s2,d0  
(Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-20-000268-A

#### Ceiling applications

Classification: B-s2,d0  
(Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### ASTM E-84-15a

Class A, FS:0 - SD:45  
RJ4479

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions (Report: CV170908) and is classified as low VOC.  
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)  
Acoustic Timber Raft does not promote the growth of moulds and mildew.

### Impact resistance

Print may show surface damage when subjected to impacts. We would advise against using Print in areas where there is likely to be contact with the product.

### Colour fastness to light

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

### Fabric care

Avoid contact with the Acoustic Timber Raft surface. Where liquids and other contaminants come in contact with the panels, these should be gently removed immediately and not allowed to soak-in, dry, or set. Refer to the product Care and Maintenance for cleaning guidance. Consult a specialist cleaning company for cleaning if required.

### Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Acoustic Timber Raft 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.

Acoustic Timber Raft is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

### Service

For further information about Acoustic Timber Raft or any other Autex Acoustics product, please contact your account manager or visit our website.

### Blemishes

Due to the nature of the raw material and the manufacturing process, flecks and other small surface blemishes may be visible on the surface of Autex Acoustics panels from time to time. This is an inherent characteristic of the textile products and is unavoidable.

## Service

For further information about Acoustic Timber or any other Autex Acoustics product, please contact your account manager or visit our website. The information contained in this document is correct to the best of our knowledge at the date of its publication. It is the user's responsibility to determine if this information is suitable for their intended application and to make sure that this document is the most current publication. You can do this by checking our website or contacting your account manager.

## Care and maintenance

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The Cube™ component of Cascade™ Hanging Screens is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Expanding and folding panel patent**

US Patent 10,184,249  
GB Patent 2,547,530  
NZ Patent app 727634  
AU Patent app 2016273959

**Specification**

**Product name** Cascade™  
**Description** 100% polyester lightweight semi-rigid panel

	Metric
Panel dimensions	1200 mm x 2400 mm
Thickness	12 mm
Tolerance	(+/- 6%)

**Physical description/properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic performance**

Cascade is specifically designed to reduce and control reverberated noise and echo in building interiors. For a copy of the acoustic report please contact your account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per unit
<b>Cascade</b> Static 12 mm	0.3	0.6	1.2	2.1	3.1	3.6	1.70
<b>Cascade</b> Folding/Expanding 12 mm	0.4	0.9	1.5	2.7	3.8	4.3	2.25



## Service

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

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Cascade contains a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Fixed or suspended acoustic partition system.

### Pack contents

1 x Cascade Screen  
1 x Frontier™ Channel  
2 x Ceiling Connectors  
2 x 1 m Wires  
2 x Autex Suspension Sliders  
Note: Expanding Screens have double the pack contents.

### Fire rating

Cascade is made from Cube™ as the base material. Cube has been evaluated using the following test methods:

### ISO 9705

Classification: Group 1-S  
Smoke production rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705

Australian Group Number:  
Group 1  
(SMOGRARC): < 100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705 in accordance with AS5637:2015 as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1

Ceiling applications  
Classification: B-s<sub>2</sub>d<sub>0</sub>  
(Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### BS EN 1021-1

Result: Pass (Cigarette)  
1362214.7

### ASTM E-84-15a

Class A, FS:0 - SD:45  
RJ4479-2

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.  
VOC concentration:  
0.009 mg/m<sup>3</sup> (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)  
Cascade does not promote the growth of mould and mildews.

### Colour fastness to light

Cascade is suitable for indoor use only. Light fastness is dependent 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 Cascade requires the services of a specialist cleaning company. Refer to the Cascade Care and Maintenance Guide for more information.

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Composition® is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

<b>Product name</b>	Composition®		
<b>Description</b>	100% polyester needle punched, thermally bonded wallcovering		
	<b>Form</b>	<b>Roll</b>	<b>Panel</b>
	Dimensions	1.22 m x 25 m	2.14 m x 1.22 m, 2.44 m x 1.22 m, 2.74 m x 1.22 m
	Thickness	10 - 12 mm	16 - 18 mm
	Tolerance	(+/- 5 mm) (+/- 10 mm)	(+/- 5 mm) (+/- 10 mm)
	Weight	Typically 1680 gsm	Typically 2980 gsm

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic performance**

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

Noise Reduction Coefficient 0.40 and 0.55

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 12 mm Composition	0.05	0.10	0.25	0.55	0.80	0.95	0.40
● 18 mm Composition	0.05	0.15	0.45	0.80	0.95	1.00	0.55

**Service**

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

**Care and maintenance**

Maintain in accordance with the Care and Maintenance Guide available for this product.



## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Composition® contains a minimum of 60% recycled polyester fibre.

### Suitable applications

Pinboard and acoustic wallcovering. Accepts pins and staples.

### Fire ratings

Composition has been evaluated using the following test methods:

#### ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4 FI 4894 and FAR 4055

### Thermal performance

10 - 12 mm R0.22 @ 15°C (NZ)

R0.20 @ 23°C (AU)

16 - 18 mm R 0.42 @ 15°C (NZ)

R 0.40 @ 23°C (AU)

### VOC emissions

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

VOC concentration:

0.009 mg/m<sup>3</sup> (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 10 mm plasterboard, the system can resist a 9 joule impact. This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg 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 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm 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)

### 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.

Refer to the Composition Care and Maintenance Guide for more information.

### Finish

Non-woven. No pattern repeat but Composition 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.

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Composition® Peel 'n' Stick Tiles are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Environmental and Quality Management Systems. The product is guaranteed to be free from manufacturing defects, and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product name** Composition® Peel 'n' Stick Tiles  
**Description** 100% polyester needle punched, thermally bonded wallcovering.

	<b>Metric</b>
Tile dimensions	600 mm x 600 mm
Tile tolerance	(+/-5 mm) (+/-5 mm)
Thickness tolerance	10 - 12 mm
Weight	Typically 1680 gsm

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic performance**

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

Noise Reduction  
Coefficient 0.40

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● <b>Composition Peel 'n' Stick Tiles (10 - 12 mm)</b>	0.05	0.10	0.25	0.55	0.80	0.95	0.40



## Service

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

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Composition Peel 'n' Stick Tiles contain a minimum of 60% recycled polyester fibre.

### Suitable applications

Pinboard and acoustic wallcovering. Accepts pins and staples.

### Fire ratings

Composition Peel 'n' Stick Tiles are made from Composition as the base material. Composition has been evaluated using the following test methods:

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke production rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1 (SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:1:2015, as required by BCA Specification C110-4 FI 4894 FAR 4055

#### EN13501-1:2007

B - s1, d0  
Report 189053

#### ASTM E84 - 14

Class A, FS:5 - SD:25  
RJ3297

### Thermal performance

R0.22 (@15°C)

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.  
VOC concentration: 0.009 mg/m<sup>3</sup> (7 days)

### Microbial resistance

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

### 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. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 m height. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact, and no further indentations are observed. This is equivalent to the impact of a 0.5 kg object dropped from a 2 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 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm 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)

### Acoustic performance

Autex Acoustics have researched the acoustic performance of Composition when covered in paper (e.g. children's artwork) and found that it helps achieve a more balanced acoustic environment. In some cases, covering Composition with unlaminated paper can have a positive effect on the acoustic performance of the wall. For more information on this please contact your account manager.

### Colour fastness to rubbing

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

### Finish

Non-woven. No pattern repeat, but Composition Peel 'n' Stick Tiles have 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.

### Use of hook fasteners

Although the product surface is receptive to hook fasteners, repeated fastening and unfastening may result in wear on the product surface finish.

This is not a product fault, but an inherent nature of non-woven textiles. We recommend low-profile, micro, or thin hook fasteners (max. 0.5 mm) as these are found to provide minimal wear on the product surface.

Do not use high-profile or heavy-duty hook fasteners as they may result in visible wear in the product surface finish after repeated attachments. For further information and recommendations on suitable hook fasteners, please contact your account manager.

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Cube™ is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product name** Cube™  
**Description** 100% polyester lightweight semi-rigid panel

	Metric	
Panel dimensions	1220 mm x 2440 mm	
Tolerance	(±5 mm) (+10 mm)	
Thickness	12 mm	24 mm
Tolerance	(±/- 6%)	(±/- 6%)

**Physical description/  
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic performance**

Cube is specifically designed to reduce and control reverberated noise and echo in building interiors.

Minimum Noise Reduction Coefficient 0.45

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● <b>12 mm Cube</b>	0.05	0.10	0.30	0.65	0.90	0.95	0.45
● <b>12 mm Cube</b> (with 25 mm air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● <b>24 mm Cube</b>	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● <b>24 mm Cube</b> (with 25 mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80

**Service**

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



## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Cube contains a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Pinboards, partitions, wallcovering with acoustic properties. Accepts pins and staples.

### Fire ratings

Cube has been evaluated using the following test methods.

### ISO 9705: 1993

Classification: Group 1-S

Smoke production rate:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4

FI 4974

FAR 4055

### BS EN 13501-1:2018

Wall applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>

(Cube 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.

EUI-20-000268-A

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>

(Cube 12 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014

EUI-20-000268-B

### Wall applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(Cube 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.

EUI-21-000135-G-A

Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>2</sub>

(Cube 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014.

EUI-21-000135-G-B

### ASTM E-84-15a

Class A, FS:0 - SD:45

(Cube 1/2")

RJ4479-2

Class A, FS:0 - SD:65

(Cube 1")

RJ4479-1

### Thermal performance

Cube 12 mm R0.41 (@15°C)

Cube 24 mm R0.82 (@15°C)

### VOC emissions

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

VOC concentration:

0.009 mg/m<sup>3</sup> (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 Cube when subjected to hard body impacts. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact.

This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg 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 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm 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 Care and Maintenance Guide for more information.

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**Specification**

**Product Name** Cube™  
**Description** 100% polyester lightweight semi-rigid panel

	Metric		Imperial	
Panel Dimensions	1220mm x 2440mm		4' x 8'	
Tolerance	(±5mm/-0mm) x (±10mm/-0mm)		(±0.20") x (0.40")	
Thickness	12mm	24mm	1/2"	1"
Tolerance	(±/- 6%)	(±/- 6%)	(±/- 6%)	(±/- 6%)
Weight	2400gsm	3600gsm	7.86oz/ft2	12oz/ft2
Density	192kg/m3			

**Physical Description /  
Properties**

Boiling Point	N/A
Melting Point:	250°C   482°F
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/Aw
Explosive limits:	N/A
Solubility in water	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Acoustic Performance**

Cube™ is specifically designed to reduce and control reverberated (echo) noise in building interiors. Minimum Noise Reduction Coefficient 0.45

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 12mm Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
● 12mm Cube (with 25mm air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● 24mm Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 24mm Cube (with 25mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80



## Service

For further information about Cube™ or any other Autex product, please contact your Autex Account Manager or visit our website. Cube™ is a trademark of Autex Industries Limited and Autex Pty.

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Cube contains a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Pinboards, partitions, wallcovering with acoustic properties. Accepts pins and staples.

### 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)

### Thermal Performance

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

### Fire Ratings

(Conducted on 12mm Cube™)

#### ISO 9705: 1993

Classification – Group 1-S  
Smoke Production Rate – <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification – Group 1 (SMOGR<sub>Arc</sub>) – <100m<sup>2</sup>/s<sup>2</sup>  
As required by BCA C1.10  
Fl 4974 dated 16th September, 2012

### BS EN 13501-1:2018

Classification: B-s2,d0 (Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.  
EUI-20-000268-A

### ASTM E-84-14

Class A, FS:0 – SD:45  
R14479-2

### 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/m<sup>3</sup> (7 days)

### Finish

Non-woven. No pattern repeat but Cube™ 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.

### 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, mould or mildew and will not rot or deteriorate in intended use situations.

### 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

Refer to Cleaning Guide  
[www.autexindustries.com](http://www.autexindustries.com)

### 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 50-kg object dropped from a 150mm height.

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**Panel fixing  
system patent**

US Patent 10,113,312  
AU Patent 2016250499

GB Patent 2,545,789  
NZ Patent app 725770

**Specification**

**Product Name** Frontier™ Acoustic Fins

**Description** 100% polyester complete modular acoustic fins

**Metric**

Fin Width

2440mm

12mm: Pack Covers 5.0m<sup>2</sup>

24mm: Pack Covers 2.5m<sup>2</sup>

Thickness

12mm

24mm

Tolerance

(+/- 6%)

(+/- 6%)

**Physical Description /  
Properties**

Boiling Point:

N/A

Melting Point:

250°C | 482°F

Vapour Pressure:

N/A

Specific Gravity:

Polyester 1.38

Flash point:

N/Aw

Explosive limits:

N/A

Solubility in water:

Not soluble

Alkalinity:

pH 7.8

Relative Vapour Density:

N/A

**Acoustic Performance**

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

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
<b>Frontier™ Axis 12mm</b> (150mm deep 300mm centres)	0.20	0.50	0.75	0.65	0.95	1.05	0.70
<b>Frontier™ 12mm</b> (300mm deep 100mm centres)	0.30	0.65	0.80	1.20	1.45	1.60	1.00
<b>Frontier™ 12mm</b> (300mm deep 200mm centres)	0.30	0.60	0.70	1.00	1.30	1.50	0.90
<b>Frontier™ 12mm</b> (300mm deep 300mm centres)	0.25	0.50	0.60	0.80	1.10	1.25	0.75



## Acoustic Performance

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

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● Frontier™ 24mm (300mm deep 100mm centres)	0.35	0.70	0.95	1.25	1.35	1.30	1.05
● Frontier™ 24mm (300mm deep 200mm centres)	0.25	0.55	0.70	1.10	1.30	1.30	0.90
● Frontier™ 24mm (300mm deep 300mm centres)	0.20	0.45	0.60	1.00	1.25	1.20	0.85

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Made from Autex Cube™ contains a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Suspended or direct fix with patented aluminium channels and connector clips.

### Fire Rating

Frontier™ 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: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1 (SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1:2018

Wall applications  
Classification: B-s2,d0 (Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-20-000268-A

### Ceiling applications

Classification: B-s2,d0 (Cube™ 12 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### Wall applications

Classification: B-s2,d2 (Cube™ 24 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-21-000135-G-A

### Ceiling applications

Classification: B-s2,d2 (Cube™ 24 mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-21-000135-G-B

### ASTM E-84-15a

Class A, FS:0 - SD:45 (Cube™ 1/2")  
RJ4479-2  
Class A, FS:0 - SD:65 (Cube™ 1")  
RJ4479-1

### 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/m<sup>3</sup> (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) Frontier™ does not promote the growth of mould and mildew.

### Colour Fastness to Light

Frontier™ is suitable for indoor use only. Light fastness is dependent on use and exposure. Frontier 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 require the services of a specialist cleaning company. Refer to the Frontier 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 Frontier contains a minimum of 45% recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Autex Frontier is 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 Frontier™, Autex Cube™ or any other product, please contact your Autex account manager or visit our website.

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Frontier™ Acoustic Raft is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Panel fixing  
system patent**

US Patent 10,113,312  
AU Patent 2016250499

GB Patent 2,545,789  
NZ Patent app 725770

**Specification**

**Product Name** Frontier™ Acoustic Raft

**Description** 100% polyester complete modular acoustic raft

	<b>Metric</b>
Fin Length	2440mm
Tolerance	(+/-0.5mm)
Thickness	12mm
Tolerance	(+/- 6%)

**Physical Description /  
Properties**

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Acoustic Performance**

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

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
<b>Frontier™ Raft 12mm Trapezoid</b> (200mm off ceiling @ 300mm centres)	0.25	0.65	0.85	1.05	1.15	1.15	0.95
<b>Frontier™ Raft 12mm Blade</b> (200mm off ceiling @ 300mm centres)	0.20	0.35	0.60	1.00	1.25	1.25	0.80
<b>Frontier™ Raft 12mm Beam 100</b> (200mm off ceiling @ 150mm centres)	0.05	0.25	0.55	0.95	1.15	1.20	0.75
<b>Frontier™ Raft 12mm Beam 250</b> (200mm off ceiling @ 300mm centres)	0.20	0.45	0.70	1.10	1.35	1.30	0.90



## Service

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

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Made from Autex Cube™ contains a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Suspended or direct fix with patented aluminium channels and connector clips.

### Fire Rating

Frontier™ 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:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1:2018

Wall applications  
Classification: B-s<sub>2</sub>,d<sub>0</sub>  
(Cube™ 1/2")

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.EUI-20-000268-A

### Ceiling applications

Classification: B-s<sub>2</sub>,d<sub>0</sub>  
(Cube™ 1/2")

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. EUI-20-000268-B

### ASTM E-84-15a

Class A, FS:0 - SD:45  
(Cube™ 1/2")  
RJ4479-2

Class A, FS:0 - SD:65  
(Cube™ 1")  
RJ4479-1

### 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/m<sup>3</sup> (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) Frontier™ does not promote the growth of mould and mildew.

### Colour Fastness to Light

Frontier™ is suitable for indoor use only. Light fastness is dependent on use and exposure. Frontier 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 require the services of a specialist cleaning company. Refer to the Frontier Cleaning and Maintenance Guide for more information.

### Finish

Frontier Acoustic Raft does not have a pattern repeat, but it does have a directional grain. The product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

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Horizon™ panels are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Environmental and Quality Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Panel fixing  
system patent**

US Patent 10,113,312  
AU Patent 2016250499

GB Patent 2,545,789  
NZ Patent app 725770

**Specification**

**Product Name** Horizon™

**Description** 100% polyester lightweight semi-rigid panel.

**Metric**

Dimensions	Available in 6 geometric shapes. Please refer to Horizon Datasheet for individual dimensions
Tolerance	Available in 6 geometric shapes. Please refer to Horizon Datasheet for individual Tolerance
Thickness	24mm
Tolerance	(+/- 6%)
Weight	3600gsm

**Physical Description /  
Properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

**Acoustic Performance**

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
● <b>Horizon Oval</b> (Fixed on clips)	0.3	1.0	2.4	3.3	3.3	3.2	2.5
● <b>Horizon Oval</b> (24mm Suspended 200mm)	0.8	2.1	2.9	3.3	3.8	3.9	3.0
● <b>Horizon Oval</b> (24mm Suspended 400mm)	1.4	2.0	2.7	3.7	4.3	4.4	3.1
● <b>Horizon Oval</b> (24mm Suspended 800mm)	1.1	1.7	2.8	4.1	4.8	4.8	3.4



## Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
<b>Horizon Rectangle</b> (Fixed on clips)	0.3	1.0	2.4	3.3	3.3	3.2	2.5
<b>Horizon Rectangle</b> (24mm Suspended 200mm)	0.8	2.1	2.9	3.3	3.8	3.9	3.0
<b>Horizon Rectangle</b> (24mm Suspended 400mm)	1.4	2.0	2.7	3.7	4.3	4.4	3.1
<b>Horizon Rectangle</b> (24mm Suspended 800mm)	1.1	1.7	2.8	4.1	4.8	4.8	3.4

## Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
<b>Horizon Square</b> (Fixed on clips)	0.2	1.5	1.3	1.7	1.7	1.6	1.3
<b>Horizon Square</b> (24mm Suspended 200mm)	0.2	1	1.5	1.7	2.1	2.1	1.6
<b>Horizon Square</b> (24mm Suspended 400mm)	0.5	1	1.3	1.8	2.2	2.3	1.6
<b>Horizon Square</b> (24mm Suspended 800mm)	0.7	0.8	1.4	2.1	2.5	2.4	1.7

## Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
<b>Horizon Right Angle Triangle</b> (Fixed on clips)	0.1	0.2	0.6	1.0	1.0	0.9	0.7
<b>Horizon Right Angle Triangle</b> (24mm Suspended 200mm)	0.1	0.5	0.7	0.8	1	1.1	0.8
<b>Horizon Right Angle Triangle</b> (24mm Suspended 400mm)	0.1	0.5	0.6	0.9	1.1	1.2	0.8
<b>Horizon Right Angle Triangle</b> (24mm Suspended 800mm)	0.2	0.3	0.7	1.0	1.2	1.2	0.8

## Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
<b>Horizon Circle</b> (Fixed on clips)	0.1	0.4	1.0	1.3	1.4	1.3	1.0
<b>Horizon Circle</b> (24mm Suspended 200mm)	0.2	0.8	1.2	1.3	1.6	1.6	1.2
<b>Horizon Circle</b> (24mm Suspended 400mm)	0.4	0.8	1.1	1.5	1.8	1.8	1.3
<b>Horizon Circle</b> (24mm Suspended 800mm)	0.4	0.6	1.1	1.6	1.9	1.9	1.3



## Acoustic Performance

Horizon is specifically designed to reduce and control reverberation and echo noise in building interiors. For a copy of the full acoustic report please contact your Autex account manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Per Unit
● <b>Horizon Hexagon</b> (Fixed on clips)	0.1	0.4	0.8	1.0	1.1	1.0	0.8
● <b>Horizon Hexagon</b> (24mm Suspended 200mm)	0.1	0.5	0.7	0.9	1.1	1.2	0.8
● <b>Horizon Hexagon</b> (24mm Suspended 400mm)	0.2	0.4	0.7	1.0	1.3	1.3	0.9
● <b>Horizon Hexagon</b> (24mm Suspended 800mm)	0.2	0.4	0.7	1.1	1.4	1.4	0.9

## Service

For further information about Horizon, please contact your Autex account manager or visit our website.

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Horizon contains a minimum of 60% previously recycled polyester fibre.

### Suitable Applications

Suspended or wall mounted acoustic panels.

### Fire Ratings

Horizon is made from Cube™ as the base material. Cube has been evaluated using the following test methods

### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate:  
<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

### AS ISO 9705 - 2003

Australian Group Number:  
Group 1 (SMOGRARC):  
less than 100m<sup>2</sup>/s<sup>2</sup>

Tested using methodology AS ISO 9705:2003 in accordance with AS 5637:1.2015, as required by BCA Specification C110-4.  
FAR 4055

### BS EN 13501-1:2018

Wall applications  
Classification: B-s<sub>2</sub>d<sub>2</sub>  
(Cube™ 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.  
EUI-21-000135-G-A

### Ceiling applications

Classification: B-s<sub>2</sub>d<sub>2</sub>  
(Cube™ 24 mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014.  
EUI-21-000135-G-B

### ASTM E-84-15a

Class A, FS:0 - SD:65  
RJ4479-1

### VOC Emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product. VOC concentration: 0.009 mg/m<sup>3</sup> (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)  
Horizon does not promote the growth of moulds and mildew.

### Colour Fastness To Light

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

### Mechanical Testing

To support the load and seismic calculations of your project's design, we have undertaken extensive destructive testing of Autex ceiling system components. For detailed mechanical testing information please contact your Autex account manager.

### 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.

### Finish

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. Horizon is made from 24mm Cube as the base material. Custom printed Cube requires the services of a specialist cleaning company. Refer to the Horizon Care and Maintenance Guide for more information.

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Lattice is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product Name** Lattice  
**Description** 100% polyester lightweight semi-rigid panel.

	Metric
Assembled Size	Available in 3 assembled sizes Please refer to Lattice Datasheet for individual dimensions
Tolerance	(+/-0.5mm) (+/-0.5mm) (+/-0.5mm)
Thickness	12mm
Tolerance	(+/- 6%)
Density	192kg/m <sup>3</sup>

**Physical Description /  
Properties**

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Acoustic Performance**

Lattice is specifically designed to reduce and control reverberated (echo) noise in building interiors. For a copy of the full acoustic report please contact your Autex Account Manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
● <b>Lattice Eclipse</b> (12mm Direct Fix)	0.60	1.60	1.70	2.20	2.80	3.20	2.10
● <b>Lattice Eclipse</b> (12mm Suspended 200mm)	0.30	1.0	1.80	2.30	3.10	3.60	2.05



## Acoustic Performance

Lattice is specifically designed to reduce and control reverberated (echo) noise in building interiors. For a copy of the full acoustic report please contact your Autex Account Manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
● <b>Lattice Torus</b> (12mm Direct Fix)	0.80	1.70	1.60	1.90	2.80	2.30	1.85
● <b>Lattice Torus</b> (12mm Suspended 200mm)	0.30	0.80	1.30	1.80	3.10	2.40	1.60

## Acoustic Performance

Lattice is specifically designed to reduce and control reverberated (echo) noise in building interiors. For a copy of the full acoustic report please contact your Autex Account Manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
● <b>Lattice Trapezium</b> (12mm Direct Fix)	2.20	4.0	3.40	4.0	4.40	4.60	3.90
● <b>Lattice Trapezium</b> (12mm Suspended 200mm)	1.50	2.50	3.20	4.10	5.0	5.40	3.70

## Service

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

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Lattice is made from Autex Cube™ which contains a minimum of 45% previously recycled polyester fibre.

### Suitable Applications

Suspended

### Fire Ratings

Lattice is a value-added product made from Autex Cube™ acoustic panels as the base material. Cube™ (12mm) has been evaluated using the following test methods:

### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1:2018

Ceiling applications  
Classification: B-s<sub>2</sub>,d<sub>0</sub>  
(Cube™ 12mm)  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014  
EUI-20-000268-B

### ASTM E-84-15a

Class A, FS:0 - SD:45  
RI4479-2

### 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/m<sup>3</sup> (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)  
Lattice Eclipse does not promote the growth of moulds and mildew.

### Colour Fastness To Light

Lattice is suitable for indoor use only. Light fastness is dependent on use and exposure. Lattice Eclipse 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 Lattice Cleaning and Maintenance Guide for more information.

### Finish

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



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Quietspace® Panel is manufactured by Autex Australia Pty under an ISO 9001 and ISO 14001 certified Environmental and Quality Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product Name** Quietspace® Panel  
**Description** 100% polyester needle punched, thermally bonded

	Metric			
Panel Dimensions	1200 mm x 2400 mm			
Tolerance	(±5 mm) (±10 mm)			
Thickness	25 mm	50 mm	75 mm	100 mm
Tolerance	(±/- 6%)			
Weight	2300 gsm	3800 gsm	4050 gsm	4300 gsm

**Physical Description /  
Properties**

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Acoustic Performance**

Quietspace Panel is specifically designed to reduce and control reverberation and echo noise in building interiors.

Minimum Noise Reduction Coefficient 0.85

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 25 mm		0.15	0.45	0.85	1.00	1.00	0.95	0.85
● 50 mm		0.30	0.75	1.10	1.10	1.05	1.00	1.00
● 75 mm		0.50	0.90	1.05	1.05	0.95	0.90	1.00
● 100 mm		0.65	1.00	1.05	1.00	0.95	0.90	1.00



## Service

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

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Visage contains a minimum of 60% recycled polyester fibre.

### Suitable applications

Acoustic wallcovering. Accepts pins and staples.

### Light Reflectance

Nude 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).

### Fire Ratings

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

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate: <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1 (SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003 in accordance with AS 56371:2015, as required by BCA Specification C1.10-4  
FI 4871  
FAR 4055

### BS EN 13501-1:2018

(25 mm Quietspace® Panel)

Wall applications

Classification: B-s<sub>2</sub>d<sub>2</sub>

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.

EUI-21-000135-E-A

Ceiling applications

Classification: B-s<sub>2</sub>d<sub>2</sub>

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014.  
EUI-21-000135-E-B

### ASTM E84 - 14

(1" Quietspace® Panel)

Class A, FS:0 - SD:10

RJ3297

### 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.

### 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.

### Impact Resistance

ISO 7892:1988

### Hard Body Impact

There is no surface damage or penetration to Quietspace Panel when subjected to hard body impacts. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 m height. When adhered to 10 mm plasterboard, the system can resist a 14 joule impact, and no further indentations are observed. This is equivalent to the impact of a 0.5 kg object dropped from a 3 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 250 mm height.

### Microbial Resistance

ASTM G21-15

Growth Rating: 0 (No growth)

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

### Colour Fastnes to light

Visage is suitable for indoor use only. Light fastness is dependent on use and exposure. Visage 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)

### 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 Care and Maintenance Guide for more information.

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Autex Symphony® is manufactured by Autex Industries Ltd under an ISO 9001 accredited Quality and Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

**Specification**

**Product Name** Symphony  
**Description** 100% polyester needle punched, thermally bonded wallcovering

	<b>Metric</b>
Roll Dimensions	1.22m x 25m
Tolerance	(+5mm) (+10mm)
Thickness	10 - 12mm
Weight	2400gsm

**Physical Description /  
Properties**

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Acoustic Performance**

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

Noise Reduction Coefficient 0.40

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● <b>Symphony</b> (10mm - 12mm)	0.02	0.08	0.25	0.54	0.81	0.94	0.40



## Service

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

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Symphony contains a minimum of 60% recycled polyester fibre.

### Suitable applications

Acoustic wallcovering. Accepts pins and staples.

### Fire rating

Symphony has been evaluated using the following test methods:

### ISO 9705: 1993

Classification: Group 1-S  
Smoke production rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015 as required by BCA Specification C110-4  
FI 4894 dated 6th June, 2012 and FAR 4055-2 dated 8th October, 2013

### BS EN 13501-1:2018

Classification: B-s1,d0  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.  
EUI-21-000135-C

### 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/m<sup>3</sup> (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 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 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg 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 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm height.

### Thermal performance

R0.22 (@15°C)

### 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.

### 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.

### Toxicity

Polyester is classed as no more toxic than wood under the state of New York Article 15 part 1120.

Polyester is pH7.8 (where pH7.0 is neutral), resistant to biological, bacterial or vermin attack.

### Finish

Non-woven. No pattern repeat but Symphony 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.

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**Autex  
Acoustics®**

# Vicinity™ Desk Screens

# Manufacturer's Guarantee

Vicinity™ Desk Screens are manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System and an ISO 14001 Environmental Management System. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

## Specification

**Product Name** Vicinity™ Desk Screens  
**Description** 100% polyester lightweight semi-rigid panel, Desk Clamp powdercoated zinc.

	Metric
Dimensions	Available in 9 various sizes. Please refer to Vicinity Data Sheet for individual dimensions
Thickness	12 mm
Tolerance	(+/- 6%)

## Physical Description / Properties

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A



## Acoustic Performance

Vicinity Desk Screens are specifically designed to reduce and control reverberated (echo) noise in building interiors.

Acoustic performance is estimated from the results of a suspended full panel tested according to ISO 354 in a reverberation room. Results have been calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

All results are reported in metric sabin - per unit.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabin Per Unit
<b>Hedge</b> (1600mm)	0.3	0.65	0.9	1.1	1.35	1.5	1
<b>Hedge</b> (1800mm)	0.35	0.75	1	1.2	1.55	1.75	1.1
<b>Slate</b> (800mm)	0.15	0.3	0.4	0.5	0.65	0.75	0.5
<b>Sol</b> (600mm)	0.1	0.2	0.25	0.35	0.4	0.45	0.3
<b>Crest</b> (1600mm)	0.2	0.45	0.6	0.75	0.95	1.05	0.7
<b>Nook</b> (1600mm + 1800mm)	0.5	1	1.4	1.65	2.1	2.35	1.55
<b>Haven</b> (1600mm + 1800mm)	0.5	1	1.4	1.65	2.1	2.35	1.55
<b>Den</b> (1600mm + 1800mm)	0.25	0.5	0.7	0.85	1.05	1.2	0.75
<b>Polka</b> (772mm + 380mm)	0.2	0.45	0.65	0.75	1	1.1	0.7

## Product Specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Vicinity Desk Screens contain a minimum of 60% previously recycled polyester fibre.

### Suitable applications

Suitable for most desks in a variety of workspaces, including: commercial and home offices, classrooms, and libraries.

### Fire ratings

Vicinity™ is a 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:  
<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as required by BCA Specification C1.10-4  
FI 4974  
FAR 4055

### BS EN 13501-1:2018

Wall applications  
Classification: B-s2,d0  
(Cube™ 12mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011. EUI-20-000268-A

### BS EN 1021-1

Result: Pass (Cigarette)  
1362214.7

### ASTM E-84-15a

Class A, FS:0 - SD:45  
(Cube 1/2")  
R14479-2

### VOC emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.  
VOC concentration:  
0.009 mg/m<sup>3</sup> (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)  
Vicinity does not promote the growth of moulds and mildew.

### Colour fastness to light

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

### Colour fastness to rubbing

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

### 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 Cube requires the services of a specialist cleaning company. Refer to the Vicinity Care and Maintenance Guide for more information.

### Finish

Non-woven. No pattern repeat, but Vicinity Desk Screens have 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.



---

## Service

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

The information contained in this document is correct to the best of our knowledge at the date of its publication. It is the user's responsibility to determine if this information is suitable for their intended application and to make sure that this document is the most current publication. You can do this by checking our website or contacting your Autex account manager.

---

## Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

---

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**Autex  
Acoustics®**

ASL

Manufacturer's Guarantee

ASL is manufactured by Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Environmental and Quality Management System. The product is guaranteed to be free from manufacturing defects.

**Suitable applications**

ASL applications include exposed and semi-exposed acoustic and thermal linings within the building envelope.

**Durability**

When installed in accordance with the manufacturer's instructions, either exposed or semi-exposed, the product carries a manufacturer's guarantee for a period of no less than ten years.

Where installed within an enclosed cavity, in accordance with the manufacturer's instructions, it will satisfy the 50-year durability criteria for minimum design life as set out in the ABCB guidance document durability in buildings 2015 (section 3.4).

**Performance and supply format**

Refer to the individual product information sheets for specific information.

**Composition**

100% polyester fibre from polyethylene terephthalate (PET). ASL contains a minimum of 50% recycled polyester fibre.

**Finish**

ASL is made from thermally bonded non-woven material, so colour blending variations in finish are typical with in the same batch. This is an inherent feature of the product and is not considered a manufacturing fault. Contact your specification manager for additional information.

**Fire ratings**

**AS ISO 9705: 2003**  
Australian Group Number: Group 1  
SMOGRARC: less than 100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015, as required by NCC specification C1.10-4.

Refer to individual product Information sheet additional information.

**VOC emissions**

Autex Acoustics polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows:

VOC concentration: 0.01 mg/m<sup>3</sup> (7 days)  
GREENGUARD VOC Limit: 0.25 mg/m<sup>3</sup> (7 days)



## Physical description/ properties

Boiling point	N/A
Melting point:	250°C / 482°F
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

This warranty excludes prolonged exposure to direct sunlight, continuous exposure to environments that contain chemicals that adversely react, break down or rot polyester fibre.

Extended exposure to temperatures above 100°C including damage caused by abrasion. Project specific warranties can be produced where these conditions or applications are present or expected.

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**Autex  
Acoustics®**

ASL

# Manufacturer's Guarantee

ASL is manufactured by Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Environmental and Quality Management System. The product is guaranteed to be free from manufacturing defects.

**Suitable applications**

ASL applications include exposed and semi-exposed acoustic and thermal linings within the building envelope.

**Durability**

When installed in accordance with the manufacturer's instructions, either exposed or semi-exposed, the product carries a manufacturer's guarantee for a period of no less than ten years.

Where installed within an enclosed cavity, in accordance with the manufacturer's instructions, it will satisfy the 50-year durability criteria for minimum design life as set out in the ABCB guidance document durability in buildings 2015 (section 3.4).

**Performance and supply format**

Refer to the individual product information sheets for specific information.

**Composition**

100% polyester fibre from polyethylene terephthalate (PET). ASL contains a minimum of 50% recycled polyester fibre.

**Finish**

ASL is made from thermally bonded non-woven material, so colour blending variations in finish are typical with in the same batch. This is an inherent feature of the product and is not considered a manufacturing fault. Contact your specification manager for additional information.

**Fire ratings**

**AS ISO 9705: 2003**  
 Australian Group Number: Group 1  
 SMOGRARC: less than 100m<sup>2</sup>/s<sup>2</sup>  
 Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015, as required by NCC specification C1.10-4.

Refer to individual product Information sheet additional information.

**VOC emissions**

Autex Acoustics polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows:

VOC concentration: 0.01 mg/m<sup>3</sup> (7 days)  
 GREENGUARD VOC Limit: 0.25 mg/m<sup>3</sup> (7 days)



## Physical description/ properties

Boiling point	N/A
Melting point:	250°C / 482°F
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

## Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

This warranty excludes prolonged exposure to direct sunlight, continuous exposure to environments that contain chemicals that adversely react, break down or rot polyester fibre.

Extended exposure to temperatures above 100°C including damage caused by abrasion. Project specific warranties can be produced where these conditions or applications are present or expected.

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**Autex  
Acoustics®**

Vertiface®

Manufacturers Guarantee

Vertiface® is manufactured by Autex Industries Ltd under ISO 9001 certified Quality Management system. This product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all the performance properties stated within this guarantee.

**Specification**

**Product Name** Vertiface®  
**Description** 100% polyester needle punched, thermally bonded wallcovering

	Metric
Roll Dimensions	1.3m x 50m
Tolerance	(+5mm) x (+10mm)
Thickness	3-4mm
Weight	380gsm

**Physical Description /  
Properties**

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

**Service**

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

**Care and Maintenance**

Maintain in accordance with the Care and Maintenance Guide available for this product.



## Product Specifications

### Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Made from Autex Cube™ which contains a minimum of 45% previously recycled polyester fibre.

### Suitable applications

Suspended or direct fix with patented aluminium channels and connector clips.

### Fire Ratings

Vertiface has been evaluated using the following test methods

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production Rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4  
FI 4906 dated 11th July, 2012  
FAR 4055-2 dated 8th October, 2013

### BS EN 13501-1:2018

Classification: B-s1,d0  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.  
EUI-21-000135-C

### 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/m<sup>3</sup> (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.

### Finish

Frontier Acoustic Raft does not have a pattern repeat, but it does have a directional grain. The product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

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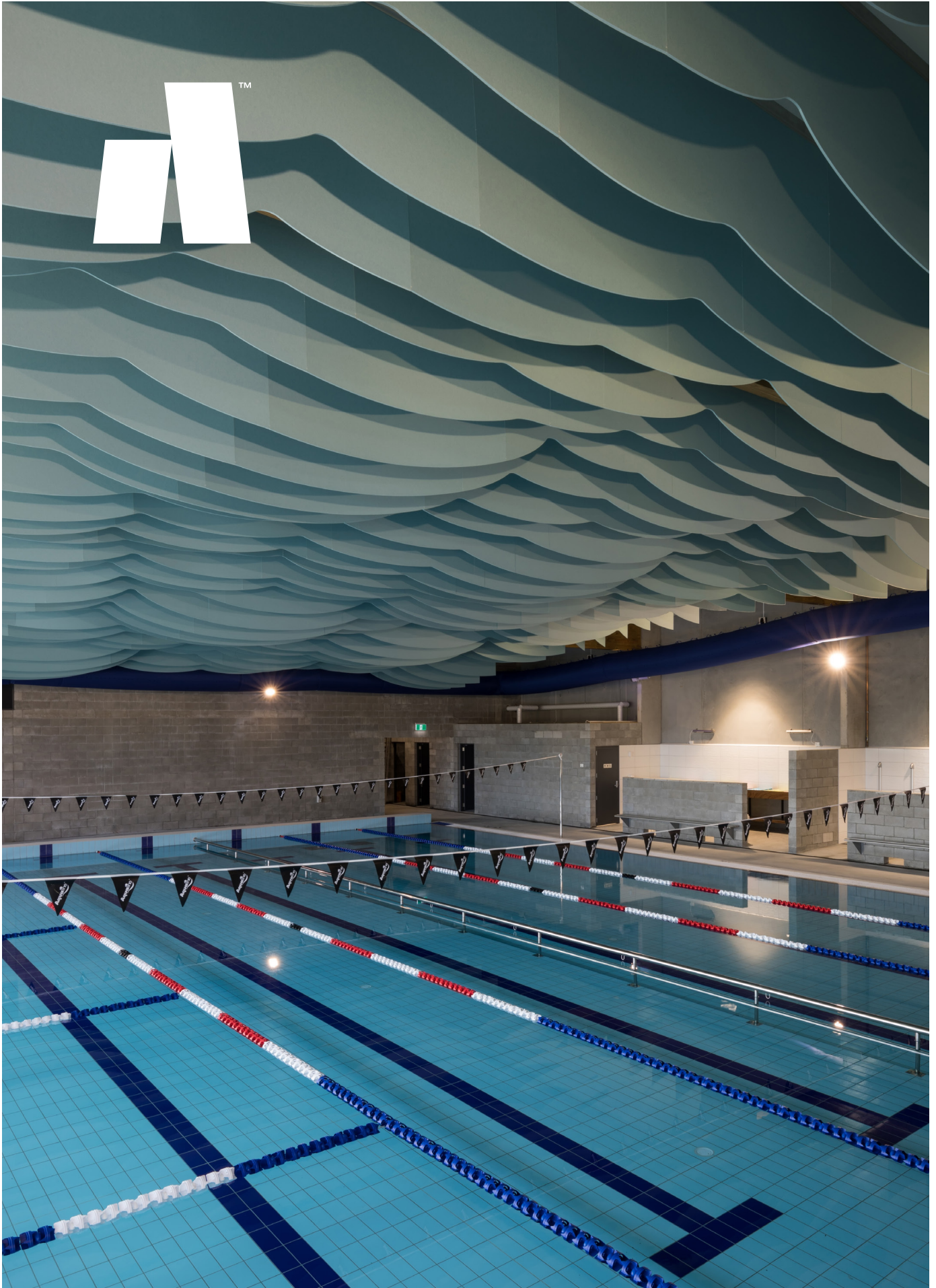
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Design considerations in highly humid environments

● Custom Cube™ in Savoye

● Hilton Brown Hobsonville, New Zealand



High humidity in indoor spaces pose unique challenges to any acoustic wall or ceiling systems. Interior acoustics features must be designed so that condensation risks are mitigated, moulds do not grow on the surface, and any metal components do not corrode and fail over time. An acoustic feature covered in mould and mildew is both unhealthy and unsightly. Likewise, any acoustic ceiling with corroded fixings may result in the collapse of the ceiling which is a safety risk for occupants of the space. This highlights the importance of correct design of acoustic wall and ceiling systems in humid environments.

---

## High humidity

An environment is considered to have high humidity when the relative humidity is above 65%. High humidity environments are common in locations closer to the equator or to a body of water. For example, many coastal cities in southern states that border the Gulf of Mexico are considered the most humid cities in the US. Similarly, coastal areas of New Zealand and the UK have high annual average relative humidity levels ranging from 70 to 90%. Major centres along the Australian coastline, including Darwin, Brisbane, Melbourne, and Sydney, may experience high relative humidity levels of up to 80%.

---

## Condensation

As relative humidity levels go closer to 100%, there is a higher probability of condensation occurring. Condensation occurs in indoor spaces when the indoor air is so saturated with moisture that it can no longer hold more moisture. Condensation can also occur when warm humid air comes into contact with cold surfaces.

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## Effects of high humidity

High humidity in an indoor space can have detrimental effects to the materials in that space as well as the occupants. Firstly, high humidity allows for the growth of moulds and mildew which can cause health problems such as asthma and allergies. Secondly, condensation resulting from high humidity might enhance the corrosion of some metal components which can weaken their structural integrity. Some surfaces, particularly painted and timber surfaces, might also experience discolouration when exposed to high humidity.

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## Growth of moulds and mildew

Moulds and mildew are microscopic fungi that exist everywhere. These microbes can grow and multiply under a combination of four conditions:

1. **Indoor temperature** – Temperatures must be between 15 - 35°C for moulds to thrive. The ideal indoor temperature for people to feel thermal comfort is also within this range.
2. **Water** – Moulds thrive in damp, humid conditions, typically between 70 - 95% relative humidity.
3. **Nutrients** – Moulds need a food source to grow. Moulds feed on any organic matter, including wood, paper, and dust that contains organic matter.
4. **Oxygen** – Moulds need oxygen to survive, which is present in all habitable indoor environments.

Moulds and mildew can grow on any material surface, including glass, metal, and plasterboard or drywall, if all the above conditions are met.



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## Performance of Autex Acoustics® products in humid spaces

Autex Acoustics® products have low moisture absorption and perform well in high humidity environments. Our products have been independently tested and results show that when left in a 49°C and 95% relative humidity environment for four days, the product only absorbed 0.4% water. This is extremely good performance and is unique to the material used to make our product.

Autex Acoustics products have also been tested for mould resistance and no mould growth was observed on the tested product when exposed to mould spores at 30°C and 90% relative humidity for 28 days.

Although Autex Acoustics products do not inherently promote the growth of moulds and mildew, moulds and mildew might grow on the surface when the previously mentioned four listed conditions are present. Moulds can grow particularly when nutrients are introduced to the product surface, such as when organic matter is blown from an air conditioning vent on to the surface, or when organic matter is carried with condensation from a source to the product. Water needed for mould growth may come from condensation somewhere which then travels to the product. An example of this would be when condensation occurs on the underside of a roof and the resulting water droplets fall on top of a suspended ceiling.

---

## Preventing condensation

By preventing condensation, the risk of mould growth is reduced significantly. Adequate ventilation combined with best practice wall and ceiling design is critical to preventing condensation.

To avoid condensation while keeping occupants comfortable, The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) recommends:

- Indoor temperatures to be between 19 - 28°C, and
- Relative humidity to be below 65%.

The Chartered Institution of Building Services Engineers (CIBSE), another reputed international authority in building services and ventilation, recommends a similar target for relative humidity of 40 - 70%.

Indoor swimming pools pose higher risks of condensation due to the presence of significant amounts of water, and as such has more stringent requirements. According to ASHRAE, indoor air temperature must be maintained 1 - 2°C above the pool temperature but not more than 30°C, and relative humidity must be maintained between 50% - 60%.

To achieve these ideal conditions, adequately designed heating, ventilation, and air conditioning (HVAC) systems and controls must be employed. There must be good HVAC operational management in place before interior acoustics products are installed in a space. Air distribution must also be sufficient to effectively direct humid air from wall and ceiling surfaces and prevent condensation.

---

## Design and installation of Autex Acoustics

Although Autex Acoustic products offer superior performance in highly humid environments, they must be designed and installed in a manner that does not enhance condensation on the surface. This same advice also applies to other materials in the same environment.

Autex Acoustics products installed on ceilings must not create an airtight cavity in the roof to prevent a significant temperature difference across the cavity. This would reduce the risk of condensation caused by warmer air encountering a cold surface. There should also be efficient air distribution in the roof area to direct humid air away from the roof, further reducing the risk of condensation.

When installing acoustic panels on ceilings, it is important that any cavity between the roof and the acoustic panel is kept well-ventilated to avoid condensation.



a. Bespoke louvre panel design allowing air flow in the roof cavity



b. Quietspace® Panels with gaps to keep the roof cavity well-ventilated

## Design and installation of Autex Acoustics cont.

Vertical acoustic baffle products such as Frontier™ are recommended as they pose a lower risk of condensation by allowing efficient air movement through the ceiling and not causing any significant temperature difference in the roof that may result to condensation.

Clients are advised to consult with their Autex Acoustics account manager during the design phase of a project involving humid spaces. Autex Acoustics have been involved with installations in high humidity environments for many years and in that time have gathered specific knowledge in addressing issues of condensation and mould growth. Our design team can create bespoke products that are unique to the conditions and requirements of each project.



c. Frontier Talus in a humid space

## Fixings for Autex Acoustics ceiling systems

Fixings used for Autex Acoustics ceiling systems in high humidity environments must be carefully selected so that the risk of corrosion is minimised. The Australasian standard AS/NZS 2785 for suspended ceilings recommends avoiding the use of type 304 and type 316 stainless steels in safety-critical and load-bearing applications as these are prone to stress corrosion cracking.

Type 254 stainless steel or any stainless steel with 6% molybdenum, is deemed as a more suitable fixing material in high humidity environments such as indoor pools.

Pairing zinc fixings with aluminium components should also be avoided to prevent corrosion on zinc fixings.

For more information on designing for highly humid spaces, please contact your Autex Acoustics account manager.

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**Autex  
Acoustics®**

Etch™

## Manufacturer's Guarantee

Etch™ is manufactured by Autex Industries Ltd under ISO 9001 certified Quality Management system. This product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all the performance properties stated within this guarantee.

### Specification

**Product Name** Etch™  
**Description** 100% polyester needle punched, thermally bonded wallcovering

#### Metric

Size	1.3m x 50m
Thickness	3 - 4mm
Printed Width	1.25m
Weight	Typically 380gsm

### Physical Description/ Properties

Boiling Point:	N/A
Melting Point:	250°C
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

### Service

For further information about Etch™ or any other Autex product, please contact your Autex Account Manager or visit our website.

### Care and Maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.



## Product Specifications

### Composition

100% polyester fibre from polyethylene terephthalate (PET). Etch contains a minimum of 80% recycled polyester fibre.

### Fire Ratings

Etch is a value added product made from Autex Vertifice. The base material has been evaluated using the following test methods:

### ISO 9705: 1993

Classification: Group 1-S  
Smoke Production  
Rate: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>ARC</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4  
FI 4906 dated 11th July, 2012  
FAR 4055-2 dated 8th October, 2013

### BS EN 13501-1:2018

Classification: B-s1,d0  
Tested using BS EN ISO 11925-2:2020 and BS EN 13823:2020 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2007 + A1:2011.  
EUI-21-000135-C

### 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/m<sup>3</sup> (7 days)

### 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)

### 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.

### Finish

Non-woven. Etch 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.

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