



**Autex  
Acoustics®**

**Frontier™  
Acoustic Fins**

**Manufacturers  
Guarantee**

Frontier™ Acoustic Fins are 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 Fins  
**Description** 100% polyester complete modular acoustic fins

	<b>Metric</b>	
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

(SMOGRArc): <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 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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