

# INTERIOR ACOUSTICS

# FRONTIER™

## MANUFACTURERS GUARANTEE

Pat. Pending NZ 727634, AU 2016273959

Frontier™ 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.

**Product Name** Frontier™  
**Description** 100% polyester complete modular acoustic fins

AUTEX	METRIC		IMPERIAL	
<b>Size</b>	Fin Width: 2400mm		7.8'	
	12mm: Pack Covers 5.0m <sup>2</sup>		1/2": Pack Covers 54ft <sup>2</sup>	
	24mm: Pack Covers 2.5m <sup>2</sup>		1": Pack Covers 27ft <sup>2</sup>	
<b>Thickness</b>	12mm	24mm	1/2"	1"
<b>Tolerance</b>	(+/- 6%)	(+/- 6%)	(+/- 6%)	(+/- 6%)
<b>Weight</b>	2300gsm	4600gsm	7.54oz/ft <sup>2</sup>	15.07oz/ft <sup>2</sup>

### Pack Size

Thickness	Fins	Channels	Connectors	Pack Weight
12mm	8	8	16	20kg
12mm (Axis only)	16	8	16	
24mm	4	4	8	

### 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.

### 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)

### FIRE RATINGS

Frontier™ 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 5637.1:2015, as required by BCA Specification C1.10-4

Fl 4974 dated 16th September, 2012

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

B - s2, d2

WF 336911 dated 25th February, 2014

### ASTM E-84-15a

Class A, FS:0 - SD:45

RJ4479-2 dated 25th January, 2015

### ACOUSTIC PERFORMANCE

Frontier is specifically designed to reduce and control reverberating noise in building interiors.

Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service Frontier 12mm - Test No. T1525-1, T1525-16, and T1525-17. Frontier Axis - Test No. T1525-11

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Tundo, Dune, Sierra and Atlas	αP 100mm spacing	0.30	0.65	0.80	1.00	1.00	1.00	1.00
	αP 200mm spacing	0.30	0.60	0.70	1.00	1.00	1.00	0.90
	αP 300mm spacing	0.25	0.50	0.60	0.80	1.00	1.00	0.75
Axis	Frontier Axis	0.20	0.50	0.75	0.65	0.90	1.00	0.70

### 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 Frontier™ 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.

### 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.

