



INTERIOR ACOUSTICS

FRONTIER™ ACOUSTIC FINs

MANUFACTURER'S GUARANTEE

Pat. Pending NZ 727634, AU 2016273959

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.

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

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

Ceiling 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 13964:2014. EUI-20-000268-B

ASTM E-84-15a
 Class A, FS:0 - SD:45 (Cube™ 1/2")
 RJ4479-2 dated 25th January, 2016

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

ACOUSTIC PERFORMANCE

Frontier Acoustic Fins are 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

AUTEX	METRIC	
Size	Fin Width: 2400mm	
	12mm: Pack Covers 5.0m ²	
	24mm: Pack Covers 2.5m ²	
Thickness	12mm	24mm
Tolerance	(+/- 6%)	(+/- 6%)
Weight	2300gsm	4600gsm

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 Acoustic Fins are 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 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: <5.0m²/s
 As required by NZBC C/VM2

AS ISO 9705 - 2003

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

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	NRC
Frontier Axis 12mm, 150mm deep, 300 centres	T1525-11	0.20	0.50	0.75	0.65	0.90	1.05	0.70
Frontier 12mm, 300mm deep, 100 centres	T1525-18	0.30	0.65	0.80	1.20	1.45	1.60	1.000
Frontier 12mm, 300mm deep, 200 centres	T1525-16	0.030	0.60	0.70	1.00	1.30	1.50	0.90
Frontier 12mm, 300mm deep, 300 centres	T1525-17	0.25	0.50	0.60	0.80	1.10	1.25	0.75

VOC EMISSIONS

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

FINISH

Non-woven. Frontier Acoustic Fins do not have a pattern repeat, but they do 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.

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.



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AN ISO 9001 AND ISO 14001 CERTIFIED COMPANY

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