



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

ASTM E-84-15a
 Class A, FS:0 - SD:45
 RJ4479-2 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.

AUTEX®	IMPERIAL	
Size	7.8'	
	1/2": Pack Covers 54ft²	
	1": Pack Covers 27ft²	
Thickness	1/2"	1"
Tolerance	(+/- 6%)	(+/- 6%)
Weight	7.54oz/ft²	15.07oz/ft²

COMPOSITION

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

SUITABLE APPLICATIONS

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

COLOR 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 RATINGS

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

AS ISO 9705 - 2003

Classification: Group 1
 (SMOGRArc): <100m²/s²
 Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4
 FI 4974 dated 16th September, 2012
 FAR 4055-3 dated 31st July, 2019

EN13501-1:2007+A1:2009

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

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	NRC
Frontier Axis 1/2" 5.9" deep 12" centers	T1525-12	0.20	0.50	0.75	0.65	0.90	1.05	0.70
Frontier 1/2" 11.8" deep 4" centers	T1525-18	0.30	0.65	0.80	1.20	1.45	1.60	1.000
Frontier 1/2" 11.8" deep 8" centers	T1525-16	0.030	0.60	0.70	1.00	1.30	1.50	0.90
Frontier 1/2" 11.8" deep 12" centers	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 fiber 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
 Vapor 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 Vapor Density: N/A

CARE AND MAINTENANCE

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