



# Frontier™ Acoustic Fins

# Technical Product Overview

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 20 years to meet all of the performance properties stated in this guarantee. This guarantee excludes damage caused by daily wear and tear, contamination (including moisture, dust, or stains), fading or discoloration from sunlight exposure, and any issues resulting from incorrect installation or improper maintenance.

### Panel Fixing System Patent

US Patent 10113312B2

### Specification

Product Name	Frontier™ Acoustic Fins
Description	100% polyester complete modular acoustic fins
	Imperial
	3/8": Pack covers 72ft²*
Fin Width	9'
Thickness	3/8"
Tolerance	(+/- 6%)
Weight	5.08oz/ft²

\*Coverage figure is an estimated average and may vary depending on specified fin spacing and installation.

### Physical Description/ Properties

Boiling Point:	N/A
Melting Point:	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



## Acoustic Performance

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

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
<b>Frontier Fins 3/8"</b> (5.9" deep 5.9" centers)	0.15	0.35	0.55	0.55	0.75	0.95	0.55
<b>Frontier Fins 3/8"</b> (8" deep 8" centers)	0.2	0.45	0.55	0.60	0.85	1.00	0.60

## Care and Maintenance

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

## Product Specifications

### Composition

100% Polyester fiber from polyethylene terephthalate (PET). Made from Cube™ contains a minimum of 80% previously recycled polyester fiber.

### Suitable Applications

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

### Fire Rating

Frontier is a value-added product made from Cube as the base material. Cube has been evaluated using the following test methods:

#### ASTM E-84-15a

Class A, FS:25 - SD:250  
(Cube 3/8")  
RJ9445F-1a

#### CAN/ULC-S102

FS:15 - SD:65  
(Cube™ 3/8")  
QA-2243F-3

### VOC Emissions

Autex Acoustics® 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 Vapor Sorption

ASTM C1104 / C1104M-13a Test conditions: 49°C, 95%RH Water vapor absorbed and adsorbed after 4 days: 0.4% by weight.

### Microbial Resistance

ASTM G21-15 Growth Rating: 0 (No growth) Frontier does not promote the growth of mold and mildew.

### Color 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)

### Color 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 fiber 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 Frontier require the services of a specialist cleaning company. Refer to the Frontier Cleaning and Maintenance Guide for more information.

### Environmental

Autex Acoustics is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Frontier contains a minimum of 80% recycled polyester fiber (from PET bottle-flake). Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Frontier is manufactured from 100% polyester fibers and do not contain formaldehyde binders. Autex Acoustics polyester fibers support safer indoor air quality and will not become a potential airborne pollutant.

### Service

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

**Autex Acoustics®**

**M O M E N T U M**

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