

Frontier[™] Acoustic Fins

Manufacturers Guarantee

FrontierTM 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									
	Metric									
	Fin Width	2440mm								
		12mm: Pack Covers 5.0m² 24mm: Pack Covers 2.5m²								
	Thickness	12m	nm			24mm				
	Tolerance	(+/- 6	(+/- 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	Frequency (Hz) 125	250	500	1000	2000	4000	NRC	
	to reduce and control reverberated noise (echo) in building interiors.	Frontier™ Axis 12mm (150mm deep 300mm centres)	0.20	0.50	0.75	0.65	0.95	1.05	0.70	
		Frontier™ 12mr (300mm deep 100mm centres)	n 0.30	0.65	0.80	1.20	1.45	1.60	1.00	
		Frontier™ 12mr (300mm deep 200mm centres)	n 0.30	0.60	0.70	1.00	1.30	1.50	0.90	
		Frontier™ 12mr (300mm deep 300mm centres)	m 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: <5.0m2/s As required by NZBC C/VM2

AS ISO 9705 - 2003 Classification:Group 1 (SMOGRArc): <100m2/s2 Assessed using methodology AS ISO 9705:2003in accordance with AS 5637.1:2015,asrequired by BCA Specification C1.10-4

BS EN 13501-1:2018 Wall applications Classification: B-s2,d0 (Cube[™] 12 mm)

Tested using BS EN ISO 11925-2:2020andBS EN 13823:2020andclassified 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 11925-2:2020andBS EN 13823:2020andclassified 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 11925-2:2020andBS EN 13823:2020and classified in accordance with BS EN 13501-1:2018, asrequired 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 11925-2:2020andBS EN ISO 11925-2:2020andBS EN 13823:2020and classified in accordance with BS EN 13501-1:2018, asrequired 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")

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).

Water Vapour Sorption ASTM C1104/ C1104M-13aTest conditions: 49°C, 95%RH Water vapour absorbed and adsorped after 4 days: 0.4% by weight.

Microbial Resistance
ASTM G21-15Growth 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 14001certified 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.

