

Frontier[™] Acoustic Fins

Manufacturers Guarantee

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.

Panel fixing system patent	US Patent 10,113,312									
Specification	Product Name Frontier™Acoustic Fins									
	Description 100% polyester complete modular acoustic fins									
	Metric									
	Fin Width		7.8'							
		1/2": Pack Covers 54ft2								
		1": Pack Covers 27ft2								
	Thickness	1/2"	1/2"			1"				
	Tolerance	(+/- 6%) 7.54oz/ft2			(+/- 6%) 15.07oz/ft2					
	Weight									
Physical Description / Properties	Boiling Point:		N/A							
	Melting Point:	250°	250°C 482°F							
	Vapour Pressure:	N/A	N/A							
	Specific Gravity:	Polye	Polyester 1.38							
	Flash point:	N/Av	N/Aw							
	Explosive limits:	N/A	N/A							
	Solubility in water:	Not s	Not soluble							
	Alkalinity:	pH 7.	pH 7.8							
	Relative Vapour Density:	N/A								
Acoustic Performance	Frontier Acoustic Fins is specifically designed	Frequency (Hz)	125	250	500	1000	2000	4000	NR	
	to reduce and control reverberated noise (echo)	Frontier Axis 1/2" (5.9"deep 12" centers)	0.20	0.50	0.75	0.65	0.95	1.05	0.70	

Frontier 1/2" (11.8"deep 4" centers)

Frontier 1/2"

Frontier 1/2"

(11.8" deep 12" centers)

0.30

0.30

0.25

0.65

0.60

0.50

0.80

0.70

0.60

1.20

1.00

0.80

1.45

1.30

1.10

1.60

1.50

1.25

1.00

0.90

0.75

in building interiors.



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 1/2" (11.8"deep 4" centers)	0.35	0.70	0.95	1.25	1.35	1.30	1.05
•	Frontier 1/2" (11.8" deep 8" centers)	0.25	0.55	0.70	1.10	1.30	1.30	0.90
•	Frontier 1/2" (11.8" deep 12" centers)	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

FrontierTM is a value-added product made from Autex CubeTM as the base material. CubeTM 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 56371:2015, as required by BCA Specification C1.10-4 F14 4974 FAR 4055

BS EN 13501-1:2018

Wall applications Classification: B-s2,d0 (Cube™ 1/2")

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 FUI-20-000268-A

Ceiling applications Classification: B-s2,d0 (Cube™ 1/2")

Tested using BS EN ISO 11925-22020 and BS EN 138232020 and classified in accordance with BS EN 13501-12018, as required by BS EN 13964:2014. EUI-20-000268-B

Wall applications Classification: B-s2,d2

(Cube[™] 1")

Tested using BS EN ISO 11925-22020 and BS EN I3823-2020 and classified in accordance with BS EN I3501-12018, as required by BS EN I5102-2007 + A12011.
EUI-21-000135-G-A

Ceiling applications Classification: B-s2,d2

(Cube[™] 1")

Tested using BS EN ISO 11925-22020 and BS EN IS8232020 and classified in accordance with BS EN 13501-12018, as required by BS EN 139642014.
EUI-21-000135-G-B

ASTM E-84-15a

Class A, FS:0 - SD:45 (CubeTM 1/2") RJ44796-2

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-13a Test conditions: 49°C, 95%RH Water vapour absorbed and adsorped after 4 days: 0.4% by weight.

Microbial Resistance

ASTM G21-15 Growth 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 14001 certified 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 account manager or visit our website.

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