



**Autex
Acoustics®**

Frontier™ Acoustic Raft

Manufacturers Guarantee

Frontier™ Acoustic Raft is 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 Raft

Description 100% polyester complete modular acoustic raft

	Metric
Fin Length	2440mm
Tolerance	(+/-0.5mm)
Thickness	12mm
Tolerance	(+/- 6%)

Physical Description / Properties

Boiling Point	N/A
Melting Point:	250°C
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

Acoustic Performance

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

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Frontier™ Raft 12mm Trapezoid (200mm off ceiling @ 300mm centres)	0.25	0.65	0.85	1.05	1.15	1.15	0.95
Frontier™ Raft 12mm Blade (200mm off ceiling @ 300mm centres)	0.20	0.35	0.60	1.00	1.25	1.25	0.80
Frontier™ Raft 12mm Beam 100 (200mm off ceiling @ 150mm centres)	0.05	0.25	0.55	0.95	1.15	1.20	0.75
Frontier™ Raft 12mm Beam 250 (200mm off ceiling @ 300mm centres)	0.20	0.45	0.70	1.10	1.35	1.30	0.90



Service

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

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
(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
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.EUI-20-000268-A

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

ASTM E-84-15a

Class A, FS:0 - SD:45
(Cube™ 1/2")

RJ4479

Class A, FS:0 - SD:65
(Cube™ 1")

RJ4479

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.

Finish

Frontier Acoustic Raft does not have a pattern repeat, but it does 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.

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.

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