



**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

Specification

Product Name	Frontier™ Acoustic Raft
Description	100% polyester complete modular acoustic raft
	Imperial
Fin Length	94.5"
Tolerance	(+/-0.02")
Thickness	1/2"
Tolerance	(+/-6%)
Weight	7.5oz/ft2

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 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 1/2" Trapezoid (8" off ceiling @ 12" centers)	0.25	0.65	0.85	1.05	1.15	1.15	0.95
● Frontier™ Raft 1/2" Blade (8" off ceiling @ 12" centers)	0.20	0.35	0.60	1.00	1.25	1.25	0.80
● Frontier™ Raft 1/2" Beam 100 (8" off ceiling @ 6" centers)	0.05	0.25	0.55	0.95	1.15	1.20	0.75
● Frontier™ Raft 1/2" Beam 250 (8" off ceiling @ 12" centers)	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 Fiber from polyethylene terephthalate (PET). Made from Autex Cube™ contains a minimum of 60% previously recycled polyester fiber.

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-s₂d₀
(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-s₂d₀
(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")
RJ4479-2

Class A, FS:0 - SD:65
(Cube™ 1")
RJ4479-1

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 Vapor Sorption

ASTM C1104 / C1104M-13a Test conditions: 49°C, 95%RH Water vapor 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 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 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 fiber blending and lay-up, which is an inherent feature of this product.

● Autex Industries Ltd

702-718 Rosebank Rd
Private Bag 19988
Avondale 1746, Auckland
New Zealand
Freephone 0800 428 839
Phone +64 9 828 9179
Fax +64 9 828 5810

● Autex Australia Pty Ltd

166 Bamfield Road
PO Box 5099
West Heidelberg, Melbourne
VIC 3081, Australia
Freephone 1800 678 160
Phone +61 3 9457 6700
Fax +61 3 9457 1020

● Autex Acoustics Ltd

Unit J4, Lowfields Way,
Lowfields Business Park,
Elland, West Yorkshire
Hx5 9Da
United Kingdom
Phone +44 0 1422418899

● Autex Acoustics LLC

1630 Dan Kipper Dr,
Riverside, CA 92507
United States of America
Phone +1 424 203 1813

An ISO 9001, ISO 14001 and ISO 45001 certified company. The brand names and logos mentioned herein are registered or unregistered trademarks either owned or used under license by Autex Industries Limited or other members of the Autex Group. The contents of this document are protected by Copyright 2021 Autex Industries Ltd. All Rights Reserved. It is the user's responsibility to determine if the product and information presented in this document is suitable for the intended application by engaging a suitably qualified consultant. The information contained in this document is correct to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your Autex account manager.