

# Frontier<sup>™</sup> Acoustic Raft

# Data Sheet

# Product overview

Frontier™ is a modular acoustic baffle system designed to communicate with interior spaces via an adjustable channel and clip system—giving you complete control over the height, spacing, and placement of each individual component. Lightweight yet solid in appearance, Frontier Acoustic Fins and Raft are made from 100% polyester fibre and cut to form elegant 2D and 3D shapes. Frontier is designed to be 'tuned' to interior spaces, offering tailored acoustic absorption across a wide range of frequencies.

# Panel fixing system patent

US Patent 10,113,312 AU Patent 2016250499 GB Patent 2,545,789 NZ Patent app 725770

### Sustainable material

- · Carbon neutral product
- · Zero carbon manufacturing
- · Recycled content
  - >60% recycled material
- Low VOC and CDPH compliant
  - <0.092 mg/m3 (7 days)
- · Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

# Environmental certifications

- EPD compliant with ISO 14025 and EN 15804
- Declare Red List free (third party verified)
- ISO 14001 Certified Environmental Management
- · Health Product Declaration
- CDPH Standard





Declare.





# Certifying your green building

Autex Acoustics products meet criteria for WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project. For support and guidance on available rating system points please visit www.autexglobal.com, or speak with your Autex Acoustics account manager.

### Specification

Acoustic panels shall be Frontier Acoustic Raft (\_) as compiled by Autex www.autexglobal.com

Acoustic absorber Frontier Acoustic Raft (Blade: 2400 x 247 x 70 mm), (Beam 100: 2400 x 87 x 70 mm), (Beam 250: 2400 x 227 x 70 mm), (Trapezoid: 2400x 137 x 200 mm), Colour (\_),

Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 - 2003 Classification: Group 1, BS EN 13501-1:2018: B - s2, d0.

Seismic bracing as per local building code requirements.

A variety of fixing or suspension options are available. Install as per Frontier Install Instructions.



### **Product specifications**

Product nameFrontier™ Acoustic RaftComposition100% polyester fibre (PET);

aluminium channel

Fin length 2400 mm
Tolerance (+/- 0.5 mm)
Thickness 12 mm
Tolerance (+/- 6%)

#### Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website.

## **Product specifications**

## Fire ratings

Frontier is a made from 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 9705:2003

Assessed using methodology AS ISO 9705:2003 in accordance with AS 56371:2015, 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 11925-22020 and BS EN 13823-2020 and classified in accordance with BS EN 13501-12018, 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 13501-12018, as required by BS EN 13964-2014. EUI-20-000268-B

#### ASTM E-84-15a

Class A, FS:0 - SD:45

### 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 Acoustic Raft does not promote the growth of moulds and mildew.

### 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 Fontier requires the services of a specialist cleaning company. Refer to the Frontier Acoustic Raft Care and Maintenance Guide for more information.

#### Service

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

### Acoustic performance

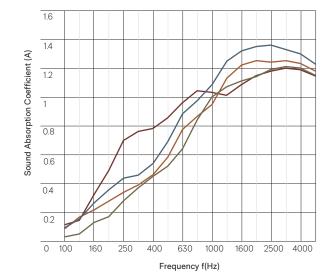
Frontier Acoustic Raft is specifically designed to reduce and control reverberated noise and echo in building interiors.

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

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz and rounded to the nearest 0.05.

# Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service

Frontier Raft 12 mm Trapezoid (200 mm off ceiling @ 300 mm centres) - Test No: T1905-11 Frontier Raft 12 mm Blade (200 mm off ceiling @ 300 mm centres) - Test No: T1905-10 Frontier Raft 12 mm Beam 100 (200 mm off ceiling @ 150 mm centres) - Test No: T1945-4 Frontier Raft 12 mm Beam 250 (200 mm off ceiling @ 300 mm centres) - Test No: T1945-5





## Light reflectance values by colour

Frontier Acoustic Raft is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Acros	40
Beehive	33
Canyon	19
Caspian	6
Cavalier	12
Empire	5
Falling Water	34
Flatiron	24
Gherkin	8
Highland	19
Muralla	9

Opera	49
Parthenon	33
Pavilion	80
Petronas	2
Pinnacle	3
Sargazo	4
Savoye	46
Senado	44
Terrace	24
Tree House	3

### New Zealand

702-718 Rosebank Road, Private Bag 19988 Avondale 1746, Auckland T 0800 428 839 T +64 9 828 9179 www.autexacoustics.co.nz

### Australia

285 Swan Street, Richmond, VIC 3121 T 1800 678 160 T +61 3 9450 6700 www.autexacoustics.com.au

## United Kingdom

Unit J4, Lowfields Way, Lowfields Business Park, Elland, West Yorkshire HX5 9DA T +44 0 142 241 8899

www.autexacoustics.co.uk

# United States

1630 Dan Kipper Drive, Riverside, CA 92507 T +1 424 203 1813

www.autexacoustics.com

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