



# Frontier™ 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 fiber 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 10113312B2

## Sustainable Material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
  - >80% recycled material
- Low VOC and CDPH compliant
  - <0.092 mg/m<sup>3</sup> (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

## Environmental Credentials

- 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 [momentumco.com](http://momentumco.com), or speak with your Momentum account manager.



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|                      |   |  |
|----------------------|---|--|
| <b>Specification</b> | Acoustic panels shall be Frontier Acoustic Raft ( ) as manufactured by Autex Acoustics momentumco.com   | Fire rating ASTM E-84-15a: FS:0 - SD:45  |
|                      | Acoustic absorber Frontier Acoustic Raft<br>Blade: 108" x 2.75" x 10 3/8" Deep<br>Beam 100: 108" x 2.75" x 3.5"<br>Beam 250: 108" x 2.75" x 8 7/8"<br>Trapezoid: 108" x 8 11/16" x 5.5" | Seismic bracing as per local building code requirements.<br>A variety of fixing or suspension options are available. Install as per Frontier Install Instructions. |

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## Product Specifications

|                     |   |
|---------------------|---|
| <b>Product Name</b> | Frontier™ Acoustic Raft                         |
| <b>Composition</b>  | 100% polyester fiber (PET);<br>aluminum channel |
| <b>Fin Length</b>   | 108"  |
| <b>Tolerance</b>    | (+/- 0.02")                                     |
| <b>Thickness</b>    | 2.75"   |
| <b>Tolerance</b>    | (+/- 6%)  |
| <b>Weight</b>       | 7.5oz/ft <sup>2</sup>                           |

**Installation**

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

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## Product Specifications

**Fire Ratings**

Frontier is made from Cube™ as the base material. Cube has been evaluated using the following test methods:

**ASTM E-84-15a**

Class A, FS:0 - SD:45  
RJ4479-2

**Water Vapor Sorption**

ASTM C1104 / C1104M-13a  
Test conditions: 49°C, 95%RH  
Water vapor absorbed and adsorbed 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 molds 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 Frontier 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 Momentum 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 Trapezoid<br>(8" off ceiling @ 12" centers) |                | 0.25 | 0.65 | 0.85 | 1.00 | 1.00 | 1.00 | 0.95 |
| ● Frontier Raft Blade<br>(8" off ceiling @ 12" centers)     |                | 0.20 | 0.35 | 0.60 | 1.00 | 1.00 | 1.00 | 0.80 |
| ● Frontier Raft Beam 100<br>(8" off ceiling @ 6" centers)   |                | 0.05 | 0.25 | 0.55 | 0.95 | 1.00 | 1.00 | 0.75 |
| ● Frontier Raft Beam 250<br>(8" off ceiling @ 12" centers)  |                | 0.20 | 0.45 | 0.70 | 1.00 | 1.00 | 1.00 | 0.90 |

Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO354 measurement of sound absorption in a reverberation room). The NRC rating isdetermined as the arithmetic average of the absorption coefficients measured byone-third octave bands centered on 250 Hz, 500 Hz, 1000 Hz, and 2000 Hz and rounded to the nearest 0.05.

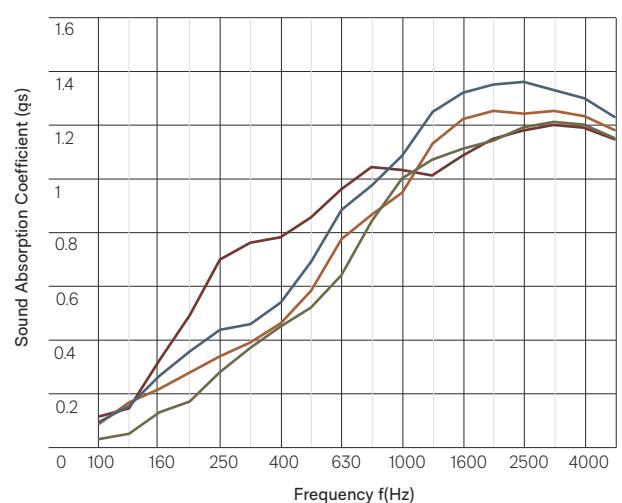
Sound absorption coefficients according to ISO 354.  
University of Auckland Testing Service

Frontier Raft Trapezoid  
(8" off ceiling @ 12" centers) - Test No: T1905-11

Frontier Raft Blade  
(8" off ceiling @ 12" centers) - Test No: T1905-10

Frontier Raft Beam 100  
(8" off ceiling @ 6" centers) - Test No: T1945-4

Frontier Raft Beam 250  
(8" off ceiling @ 12" centers) - Test No: T1945-5



## Light Reflectance Values by Color

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

|               |    |            |    |
|---------------|----|------------|----|
| Acros         | 40 | Opera      | 49 |
| Beehive       | 33 | Parthenon  | 33 |
| Canyon        | 19 | Pavilion   | 80 |
| Caspian       | 6  | Petronas   | 2  |
| Cavalier      | 12 | Pinnacle   | 3  |
| Empire        | 5  | Rushmore   | 41 |
| Falling Water | 34 | Sargazo    | 4  |
| Flatiron      | 24 | Savoye     | 46 |
| Gherkin       | 8  | Senado     | 44 |
| Herald        | 13 | Terrace    | 24 |
| Highland      | 19 | Tree House | 3  |
| Muralla       | 9  |            |    |

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