



Frontier™ Acoustic Fins

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 are made from 100% polyester fiber and cut to form elegant ceilingscapes. 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/m³ (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, or speak with your Momentum account manager.



Specification

Acoustic absorption system shall be Frontier (_____) as manufactured by Autex Acoustics momentumco.com

Acoustic absorber Frontier™ Acoustic Fins (108") length x (12" nominal / Axis 6") depth x (3/8") gauge, spaced at (_____) centers. Color (_____), sound absorption: 4"/8" and 12" centers, Fire rating ASTM E-84-15a: FS:24 - SD:250, and CAN/ULC-S102 FS:15 - SD:65

Supplied with Frontier Connector Clips, Frontier Channel, Frontier Fins. Fix with 0.2 oz countersink fastener appropriate for the substrate. Install as per Frontier Install Instructions.

Product Specifications

| | |
|--------------|---|
| Product Name | Frontier™ Acoustic Fins |
| Composition | Fin: 100% polyester fiber (PET) aluminum channel |
| Fin Length | 108" |
| Tolerance | (+/- 0.02") |
| Thickness | 3/8" |
| Tolerance | (+/- 6%) |

Installation

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

Acoustic Performance

Frontier Acoustic Fins are specifically designed to reduce and control reverberated noise and echo in building interiors.

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
|---|------|------|------|------|------|------|------|
| Frontier Fins 3/8" (5.9" deep 5.9" centers) | 0.15 | 0.35 | 0.55 | 0.55 | 0.75 | 0.95 | 0.55 |
| Frontier Fins 3/8" (8" deep 8" centers) | 0.2 | 0.45 | 0.55 | 0.60 | 0.85 | 1.00 | 0.60 |

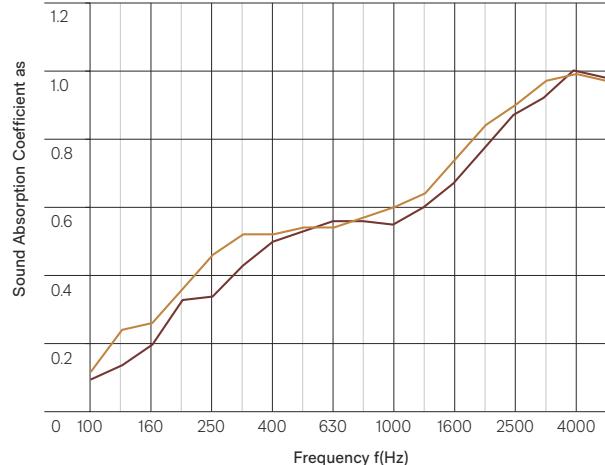
Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients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

Frontier is tested at nominated depths and spacings in accordance with ISO 354. The perimeter is left open to align with the most common installation method. For calculation purposes, data and performance ratings can be used per ft² of practical coverage of the assembly (the reports refer to this as the plan surface area), not the sum of the exposed surface area of the individual parts which would result in overestimating the total acoustic absorption. If there is any uncertainty, please contact your Momentum account manager for further information.

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

Frontier Fins 3/8"
(5.9" deep 5.9" centers) - Test No: T2420-2

Frontier Fins 3/8"
(8" deep 8" centers) - Test No: T2420-5





Product Specifications

Fire Rating

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:25 - SD:250
(Cube™ 3/8")
RJ9445F-1a

CAN/ULC-S102

FS:15 - SD:65
(Cube™ 3/8")
QA-2243F-3

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

Service

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

Light Reflectance Values by Color

Frontier Acoustic Fins 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 | | |

Autex Acoustics®

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