



**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 10,113,312

Specification

Acoustic absorption system shall be Frontier (L) as compiled by Autex www.autexglobal.com


Acoustic absorber Frontier™ Acoustic Fins (94.5"/custom) length x (12" nominal / Axis 6") depth x (1/2"/1") gauge, spaced at (L)"centers. Color (L), sound absorption: 4"/8" centers Class B, 12" centers Class C, Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, 1/2" BS EN 13501-1:2018: B - s2, d0, 1" BS EN 13501-1:2018: B - s2, d2.

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.

Color options

 Falling Water

 Rosada


 Beehive


 Galaxy

 Opera

 Parthenon

 Pinnacle

 Senado

 Sargazo

 Petronas


 Acros

 Empire

 Bosco

 Flatiron

 Lotus

 Savoye

 Tree House

 Pavilion

 Gherkin

 Ironbank

 Muralla

 Zenith

 Cavalier



Product specifications

Product name	Frontier™ Acoustic Fins
Composition	Fin: 100% polyester fiber (PET) aluminium channel
Fin length	94.5"
Tolerance	(+/- 0.02")
Thickness	1"
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 1" (11.8" deep 4" centers)	0.35	0.70	0.95	1.25	1.35	1.30	1.05
● Frontier 1" (11.8" deep 8" centers)	0.25	0.55	0.70	1.10	1.30	1.30	0.90
● Frontier 1" (11.8" deep 12" centers)	0.20	0.45	0.60	1.00	1.25	1.20	0.85

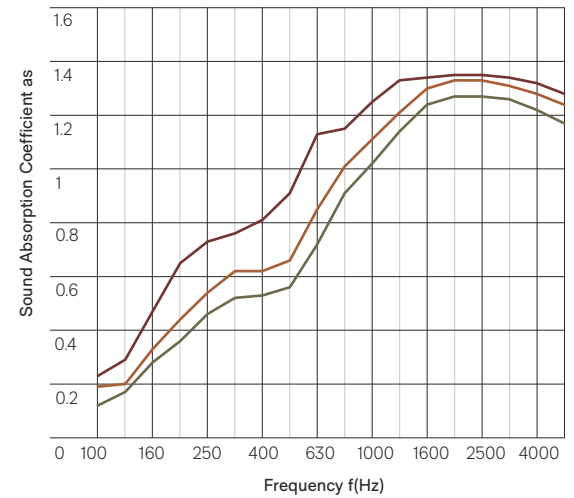
Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (according to ISO 354 measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients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

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

Frontier Fins 1"
(11.8" deep 4" centers) - Test No: T1812-4

Frontier Fins 1"
(11.8" deep @ 8" centers) - Test No: T1812-5

Frontier Fins 1"
(11.8" deep @ 8" centers) - Test No: T1812-6



Product specifications

Product name	Frontier™ Acoustic Fins
Composition	Fin: 100% polyester fibre (PET) aluminium channel
Dimensions	Fin length: 94.5"
Tolerance	(+/- 0.02")
Thickness	1/2"
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 1/2" (5.9" deep 12" centers)	0.20	0.50	0.75	0.65	0.90	1.05	0.70
● Frontier 1/2" (5.9" deep 4" centers)	0.30	0.65	0.80	1.20	1.45	1.60	1.00
● Frontier 1/2" (11.8" deep 8" centers)	0.30	0.60	0.70	1.00	1.30	1.50	0.90
● Frontier 1/2" (11.8" deep 12" centers)	0.25	0.50	0.60	0.80	1.10	1.25	0.75

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.

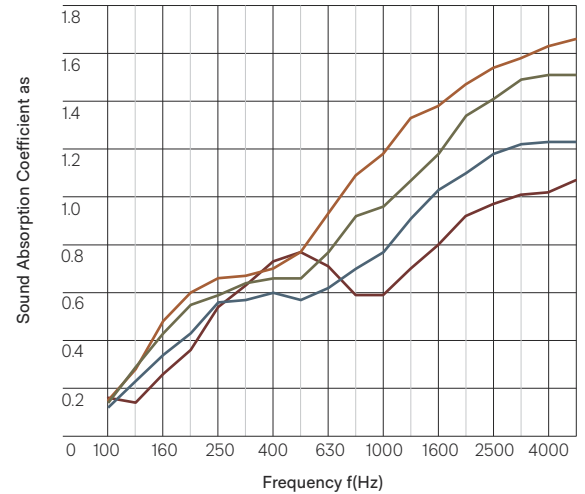
Sound Absorption Coefficients According to ISO 354. University of Auckland Testing Service

Frontier Fins 1/2"
(5.9" deep 12" centers) - Test No: T1525-12

Frontier Fins 1/2"
(11.8" deep @ 4" centers) - Test No: T1525-18

Frontier Fins 1/2"
(11.8" deep @ 8" centers) - Test No: T1525-16

Frontier Fins 1/2"
(11.8" deep @ 12" centers) - Test No: T1525-17



Product specifications

Fire rating

Frontier is 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
(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

Wall applications

Classification: B-s2,d2
(Cube™ 1")
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-21-000135-G-A

Ceiling applications

Classification: B-s2,d2
(Cube™ 1")
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-21-000135-G-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 Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered 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 Frontier requires the services of a specialist cleaning company. Refer to the

Frontier Care and Maintenance Guide for more information.

Environmental

Autex Acoustics is committed to best practice through our ISO 14001 certified Environmental Management Systems.

Frontier contains a minimum of 60% recycled polyester fiber (from PET bottle-flake). Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Frontier is manufactured from 100% polyester fiber and do not contain formaldehyde binders. Autex Acoustics polyester fiber supports safer indoor air quality and will not become a potential airborne pollutant.

Service

For further information about Frontier, Cube, or any other Autex Acoustics product, please contact your 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

Pavilion	80	Galaxy	15
Opera	49	Lotus	14
Savoie	46	Ironbank	13
Senado	45	Cavalier	12
Rosada	44	Muralla	9
Acros	40	Gherkin	8
Falling Water	34	Empire	5
Parthenon	33	Sargazo	4
Beehive	33	Pinnacle	3
Bosco	29	Tree House	3
Flatiron	24	Petronas	2
Zenith	23		

Caring for the environment

Frontier is manufactured using 100% polyester fiber and contains a minimum of 60% recycled fiber (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, Health Product Declaration (HPD), and CDHP Standard certified.

Frontier is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.



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