

INTERIOR ACOUSTICS FRONTIER



FRONTIER™
ACOUSTIC FINS
DESIGN: TUNDRA
COLOUR: FLATIRON

FRONTIER™

ACOUSTIC CEILING AND WALL SYSTEM

BE MORE ATTUNED TO YOUR SPACE

Frontier™ offers targeted sound absorption, endless configurations, and stress-free installation without compromising acoustic performance.

Frontier is an innovative acoustic system designed for targeted sound absorption for today's ever-changing open-plan workspaces, retail, education and hospitality applications. Formed by just three elements including Mounting Clips, Frontier Extrusions, and Acoustic Fins or Rails, Frontier allows designers to mix and match colours and styles, create endless configurations, and enjoy quick and stress-free installations.

Whether specifying Fin or Rail styles, Frontier offers incredible acoustic performance that can be 'tuned' for the space. Multi-use aluminium channels and clips allow for adjustment onsite, further enhancing the surrounding environment.





FRONTIER™
ACOUSTIC FINS
DESIGN: CUSTOM
COLOUR: SAVOYE

FRONTIER™

FEATURES AND BENEFITS

- Choose from 17 colours and nine styles, including Fins or Raft for a bold, dimensional statement.
- Create a more comfortable and personalised experience by tuning the acoustic effect. Simply move the Fins or Rafts closer together or further apart.
- Mount Fins or Rafts flush to the ceiling to 'blend in', fix them to rails or suspend them using extension rods.
- Frontier can be configured to fit the space perfectly.

Fins and Rafts are made with our high-performing, highly-compressed polyester material, which uses advanced fibre locking technology, instead of adhesives or other materials which can be harmful to the environment.



FRONTIER™ THE SYSTEM

Increase productivity on-site, saving installation time and material costs.



AUTEX FRONTIER EXTRUSIONS

Multise aluminium channels along with a system of components, act as a support for Acoustic Fins or Rafts and allow easy installation and adjustments on site.



AUTEX MOUNTING CLIPS

The exclusive Frontier connector clip 'clicks' in place to enable Fins or Rafts to be attached directly to the ceiling channel, leaving no exposed fasteners or adhesives.



CHOOSE ACOUSTIC FIN OR RAFT STYLES

Enjoy the freedom to create new and interesting ceiling and wall features with Fins or Rafts. Choose Fins for simple and stylish arrangements, or Rafts to add dimensional shape and volume.



ARRANGEMENT VERSATILITY

Arrange and space our Fins or Rafts in countless configurations. Install in standard or custom sequences, or bring your vision to life working side-by-side with Autex in-house acoustic design experts and account managers.



EASY ASSEMBLY

Frontier goes together quickly and efficiently, saving time on site. Dismantle or remove the system from its setting and reassemble or reposition just as easily and quickly.

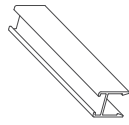


EVEN EASIER TO DISASSEMBLE

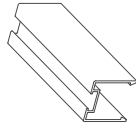
Frontier uses no adhesives. Each component can be removed quickly at the end of life, minimising negative impacts on the environment at the time of disposal.

FRONTIER™ SYSTEM COMPONENTS

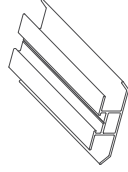
PACK COMPONENTS



RAFNEX
Frontier 12mm Extusion



RAFNEX24
Frontier 24mm Extusion



RAFNEXRT
Frontier Raft Extusion



RAFTC
Aulex Mounting Clip



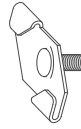
RAFCCT
Aulex Frontier Channel Connector



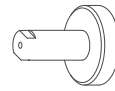
RAFWCP
Aulex Removable W-Clip



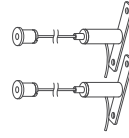
RAFHDC
Aulex Heavy Duty Frontier Channel Connector with 4x M5 Grub Screws



RAFMGG
Velda Grid Connector with M6 Thread



RAFM6MP
Velda Magnet Pin with M6 Thread and Cable Adaptor



RAHVAS
Aulex Adjustable Suspension Set - Channel

ACCESSORIES

FRONTIER™ ACOUSTIC RAFT

Raft brings an innovative, bold new dimension to our Frontier range. Available in four unique designs, Raft is scored, folded and 'zipped' together using a locking channel. Now you can arrange and space Raft in countless configurations, without loss of acoustic performance.

Enjoy the freedom to create bold new designs using standard packs, or customise the system to match the scale of the space.



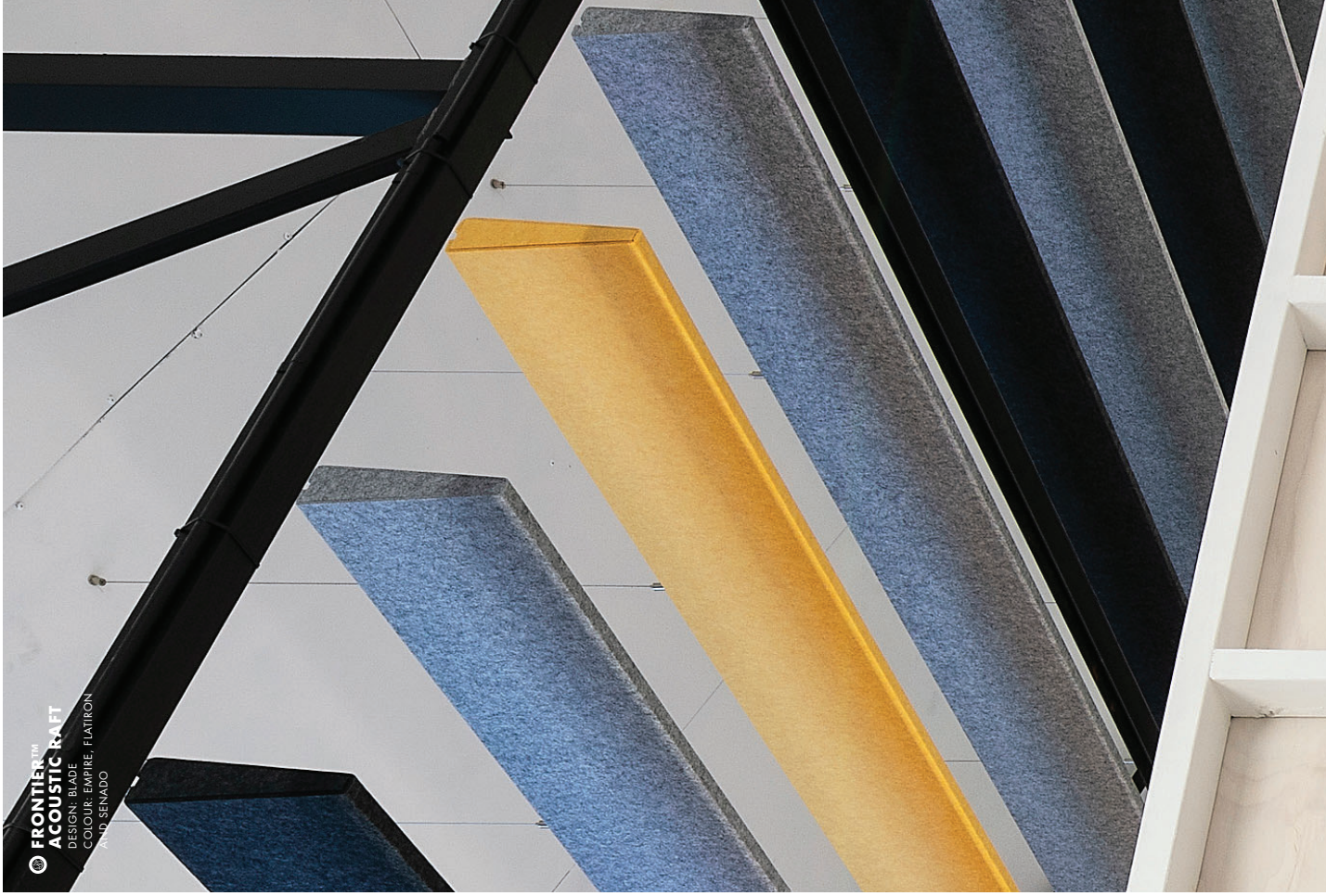
FRONTIER™ ACOUSTIC RAFT

FEATURES AND BENEFITS

- Delivers a solid appearance, yet, due to its scored and layered construction, each style is hollow and lightweight.
- Made from highly-absorbent, compressed material. Rafts hold their shape. They won't bend or warp after installation.
- Create long and linear ceiling features with quick, secure joins. Remove the weight and tasks related to finishing elements that would occur with solid wood or steel beams.
- Adjust on-site, allowing for targeted sound absorption and personalisation of the space.
- Disassemble quickly and remove at the end of life.



FRONTIER™
ACOUSTIC RAFT
DESIGN: BEAM 100
COLOUR: PETROMAS



© FRONTIER™
ACOUSTIC RAFT
DESIGN: BLADE
COLOUR: EMPIRE, FLATIRON
AND SENADO

FRONTIER™ ACOUSTIC RAFT

APPLICATIONS

- Suitable for a variety of spaces, including offices, education, retail, hospitality and commercial interior applications.
- Can be installed either fixed or suspended from ceilings or mounted to walls.

SPECIFICATION

Acoustic absorber Frontier Acoustic Raft (Blade: 2400 x 257 x 70), (Beam 100: 2400 x 92 x 70mm), (Beam 250: 2400 x 232 x 70 mm), (Trapezoid: 2400x 160 x225mm), Colour (L).

Fire Rating ISO 9705: 1993: Group 1-S,
AS ISO 9705 – 2003: Group 1,
EN13501-1: 2007A1: 2009: Bs2,d2
ASTM E84-15a: Class A, FS:0 - SD:45.

Seismic bracing as per local building code requirements.

Supplied with suspension kits for suspension or Frontier™ clips for direct fixing, fix with countersunk fastener appropriate for the substrate. Install as per Frontier Install Instructions.

For more information contact:

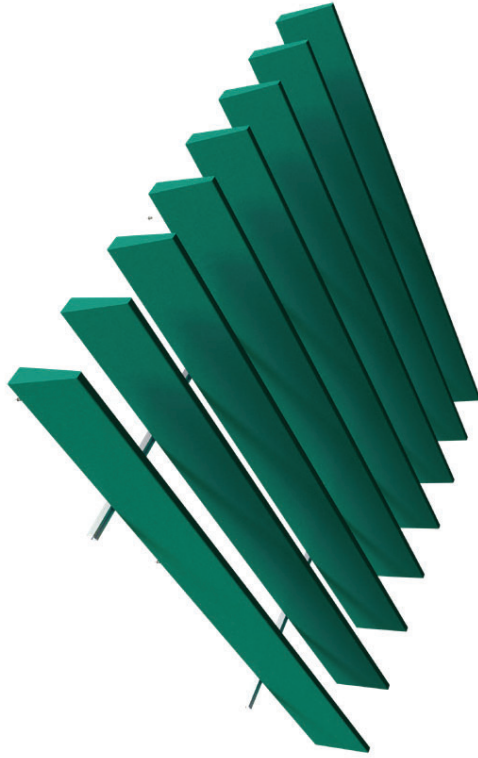
Autex Preferred Supplier:

Quietart

www.quietart.com.au

0418 822 848

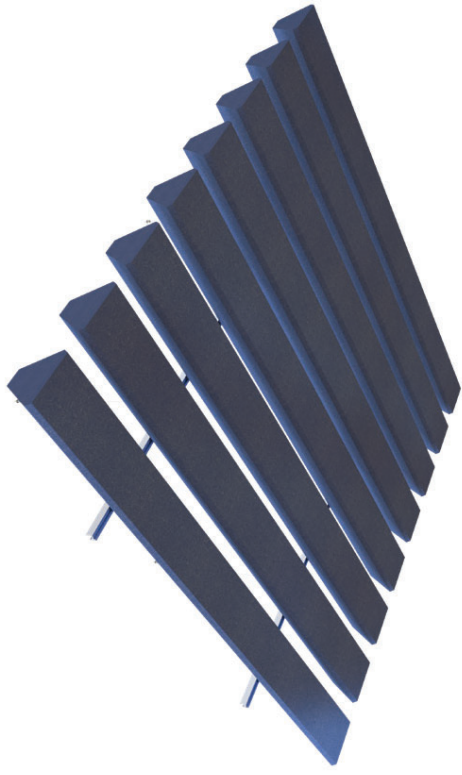
FRONTIER™ ACOUSTIC RAFT DESIGNS



DESIGN BLADE **COLOUR** LOTUS - SEE PAGE 39 FOR FULL COLOUR RANGE

*Images as shown are with 2 packs.

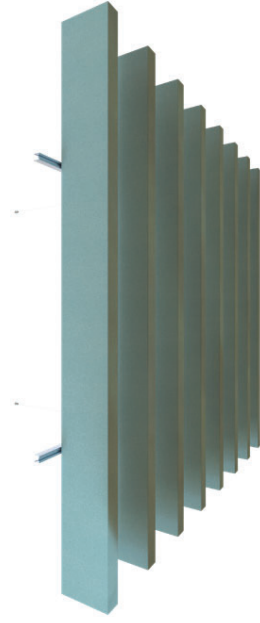
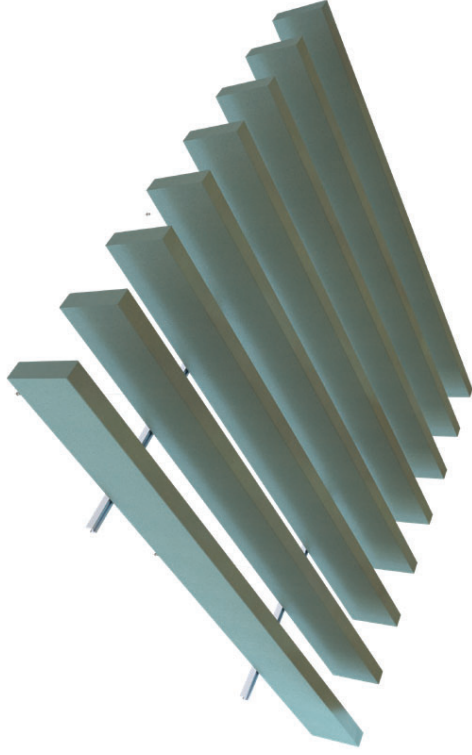
FRONTIER™ ACOUSTIC RAFT DESIGNS



DESIGN TRAPEZOID **COLOUR** GALAXY - SEE PAGE 39 FOR FULL COLOUR RANGE

*Images as shown are with 2 packs.

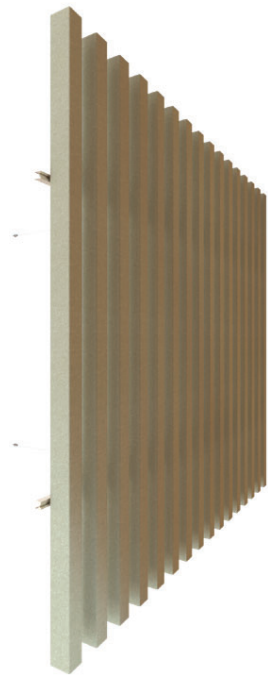
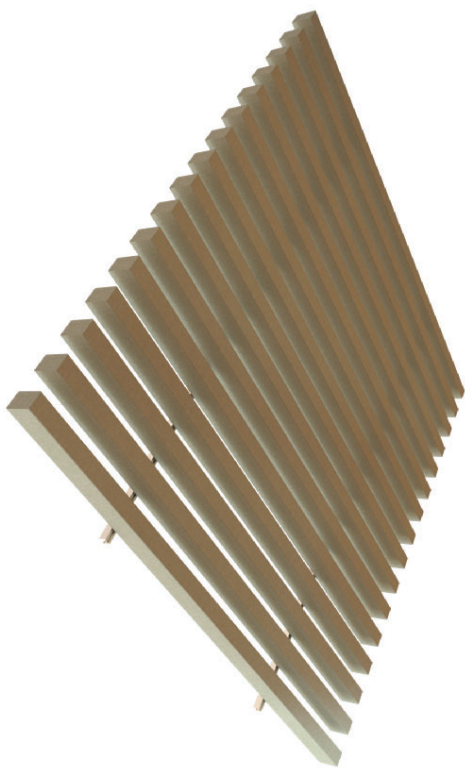
FRONTIER™ ACOUSTIC RAFT DESIGNS



DESIGN BEAM 250 COLOUR FALLING WATER - SEE PAGE 39 FOR FULL COLOUR RANGE

* Images as shown are with 2 packs.

FRONTIER™ ACOUSTIC RAFT DESIGNS



DESIGN BEAM 100 COLOUR OPERA - SEE PAGE 39 FOR FULL COLOUR RANGE

* Images as shown are with 2 packs.



FRONTIER™
ACOUSTIC RAFT
 DESIGN: CUSTOM
 COLOUR: FUMÉ
 AND SAVOYE

ABSORPTION COEFFICIENT ACCORDING TO ISO 354

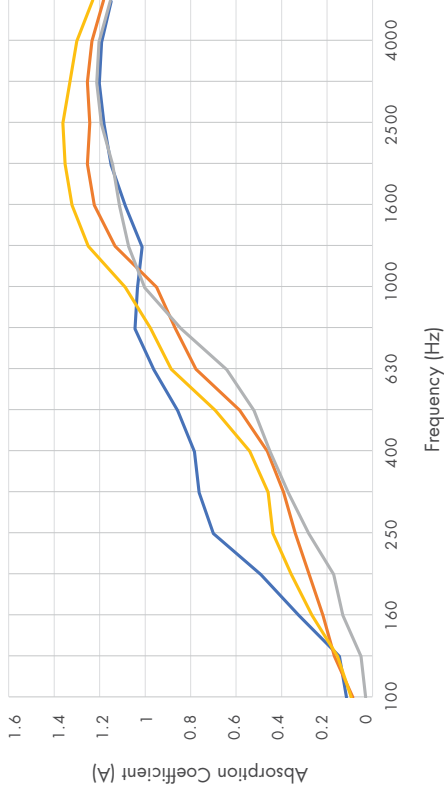


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354, Measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients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

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)								NRC
		125	250	500	1000	2000	4000	4000	4000	
Frontier™ Raft 12mm Trapezoid, 200mm off ceiling @ 300mm centres	T1905-11	0.25	0.65	0.85	1.05	1.15	1.15	1.15	1.15	0.95
Frontier™ Raft 12mm Blade, 200mm off ceiling @ 300mm centres	T1905-10	0.20	0.35	0.60	1.00	1.25	1.25	1.25	1.25	0.80
Frontier™ Raft 12mm Beam 100, 200mm off ceiling @ 150mm centres	T1945-4	0.05	0.25	0.55	0.95	1.15	1.20	1.20	1.20	0.75
Frontier™ Raft 12mm Beam 250, 200mm off ceiling @ 300mm centres	T1945-5	0.20	0.45	0.70	1.10	1.35	1.30	1.30	1.30	0.90

PRODUCT SPECIFICATIONS

Product Name Frontier™ Acoustic Raft
Composition 100% Polyester Fibre (PET)
 Channel: Aluminium
Fin Length 2400mm
Tolerance (+0.5mm)
Thickness 12mm
Tolerance (+/-6%)
Weight 2300gsm

INSTALLATION

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

ACOUSTIC PERFORMANCE

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

LIGHT REFLECTANCE VALUES BY COLOUR

Pavilion	78	Zenith	22
Opera	49	Lotus	16
Savoye	47	Galaxy	16
Senado	45	Iron Bank	13
Rosada	45	Pinnacle	8
Acros	42	Empire	6
Falling Water	36	Tree House	3
Bosco	29	Peironas	2
Flatiron	25		

MEASURED IN ACCORDANCE WITH BS 8499:2008+A1:2010

FIRE RATING

Frontier™ is a value-added product 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/WM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGRAdj): <100m²/s³

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10.4
F1.4974 dated 16th September, 2012 and PAR 4055-3, dated 31st July, 2019

EN13501-1:2007+A1:2009

B - s2, d2
WF332911 dated 25th February 2014

ASTM E-84-15a

Class A, FSO - SD:45
844792 dated 25th January, 2016

VOC EMISSIONS

Aulex polyester has been tested for chemical emissions (Report: CV170908) and is classified as low VOC. VOC concentration: 0.009 mg/m³ (7 days)

WATER VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour 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 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 Cube™ requires the services of a specialist cleaning company. Refer to the Frontier Acoustic Raft Cleaning and Maintenance Guide for more information.

ENVIRONMENTAL

Aulex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Aulex Frontier Raft contains a minimum of 45% previously recycled polyester fibre (from PET bottle/flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Aulex Frontier Acoustic Raft is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Aulex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

SERVICE

For further information about Frontier Acoustic Raft contact

Aulex Preferred Supplier:

Quietart

www.quietart.com.au

0418 822 848

FRONTIER™ ACOUSTIC RAFT

DESIGN: BEAM 100
COLOUR: FLATIRON,
EMPIRE AND SENADO

FRONTIER™ ACOUSTIC FINNS

Frontier Acoustic Fins create design freedom and flexibility using simple but stylish arrangements. Fins are available in five standard designs in 12mm and 24mm thicknesses. Customise to create engaging and unique patterns and sequences of your own.



FRONTIER™ ACOUSTIC FINS

FEATURES AND BENEFITS

- Delivers excellent acoustic performance
- Suitable for wall and ceiling applications
- Supplied in kits including acoustic fins and fixing hardware
- Can be subtle or a feature design for small or large spaces
- Low VOC – beneficial for IEQ
- Not made from fibreglass or mineral fibre and does not contain formaldehyde, crystalline silica or other carcinogens, common to traditional fibrous absorbers
- Cleanable and easily demountable
- Includes high recycled content and designed for disassembly
- Highly durable so you're assured of long-term stability and performance



FRONTIER™
ACOUSTIC FINS
DESIGN: TUNDRA
COLOUR: EMPIRE



FRONTIER™ ACOUSTIC FINS

APPLICATIONS

- Suitable for offices, education, retail, hospitality and commercial interiors
- Fix or suspend acoustic ceiling and wall system
- Creates breakout zones in large open plan areas
- Hides ceiling services

SPECIFICATION

Acoustic absorber Frontier™ Acoustic Fins (2400/custom) mm length x (300mm nominal / Axis 150mm) depth x (12/24)mm gauge, spaced at □mm centres. Colour (L), sound absorption: 100/200mm centres Class B, 300mm centres Class C, Fire Rating ISO 9705: 1993: Group 1-S, AS ISO 9705 – 2003: Group 1, EN13501-1:2007+A1:2009: B-s2, d2, ASTM E-84:15a-1.2mm: Class A, FS:O - SD:45.

Supplied with Frontier Connector Clips, Frontier Channel, Frontier Fins. Fix with 6g countersink fastener appropriate for the substrate. Install as per Frontier Install Instructions.

For more information contact:

Autex Preferred Supplier:

Quietart

www.quietart.com.au

0418 822 848

FRONTIER™

ACOUSTIC FIN DESIGNS



DESIGN TUNDRA **COLOUR** GALAXY - SEE PAGE 39 FOR FULL COLOUR RANGE



DESIGN DUNE **COLOUR** FALLING WATER - SEE PAGE 39 FOR FULL COLOUR RANGE

FRONTIER™

ACOUSTIC FIN DESIGNS



DESIGN SIERRA **COLOUR** LOTUS - SEE PAGE 39 FOR FULL COLOUR RANGE

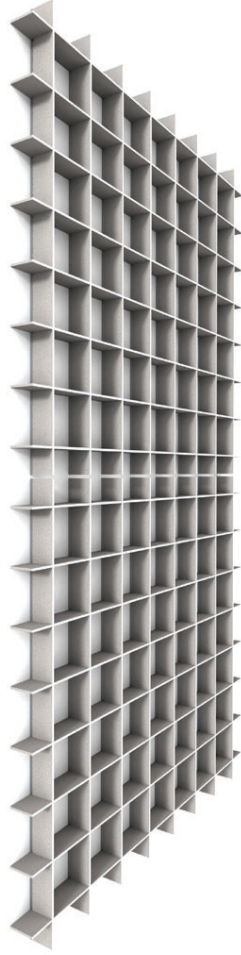


DESIGN TALUS **COLOUR** ACROS - SEE PAGE 39 FOR FULL COLOUR RANGE

* Images as shown are with 2 packs.

* Images as shown are with 2 packs.

FRONTIER™ ACOUSTIC FIN DESIGNS



DESIGN AXIS (12MM ONLY) **COLOUR** SAVOYE - SEE PAGE 39 FOR FULL COLOUR RANGE



FRONTIER™
ACOUSTIC FINS
DESIGN: CUSTOM AXIS
COLOUR: EMPIRE

* Images as shown are with 2 packs.

**FRONTIER™
ACOUSTIC FINNS**
DESIGN: FALLUS
COLOUR: SENADO ACROS
AND FALLING WATER



ABSORPTION COEFFICIENT ACCORDING TO ISO 354

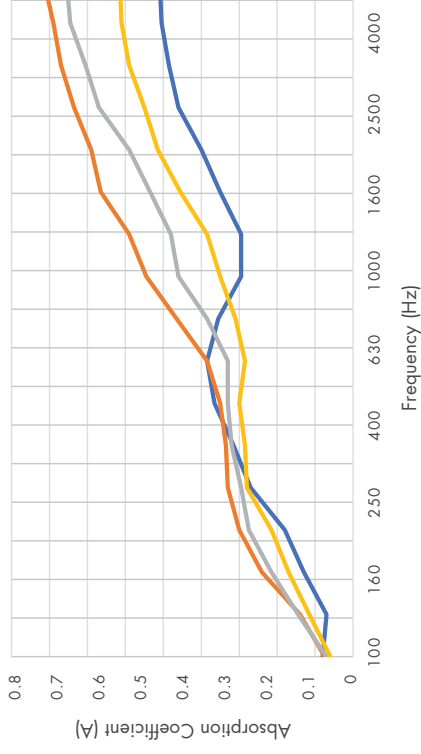


Table presents the practical sound absorption coefficient as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354. Measurement of sound absorption in a reverberation room). The NRC rating is determined as the arithmetic average of the absorption coefficients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

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)								
		125	250	500	1000	2000	4000	NRC		
Frontier™ Axis 12mm 150mm deep 300mm centres	T1525-11	0.20	0.50	0.75	0.65	0.90	1.05	0.70		
Frontier™ 12mm 300mm deep 100mm centres	T1525-18	0.30	0.65	0.80	1.20	1.45	1.60	1.00		
Frontier™ 12mm 300mm deep 200mm centres	T1525-16	0.30	0.60	0.70	1.00	1.30	1.50	0.90		
Frontier™ 12mm 300mm deep 300mm centres	T1525-17	0.25	0.50	0.60	0.80	1.10	1.25	0.75		

PRODUCT SPECIFICATIONS

- Product Name: Frontier™ Acoustic Fins
- Composition: Fin: 100% Polyester Fibre (PET)
Aluminium Channel
- Dimensions: Fin Length: 2400mm
- Tolerance: (+/-0.5mm)
- Thickness: 12mm
- Tolerance: (+/-6%)
- Weight: 2300 gsm

ACOUSTIC PERFORMANCE

Frontier is specifically designed to reduce and control reverberated noise (echo) in building interiors.

INSTALLATION

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

FRONTIER™
ACOUSTIC FINS
 DESIGN: TUNDRA
 COLOUR: SAVOYE

ABSORPTION COEFFICIENT ACCORDING TO ISO 354

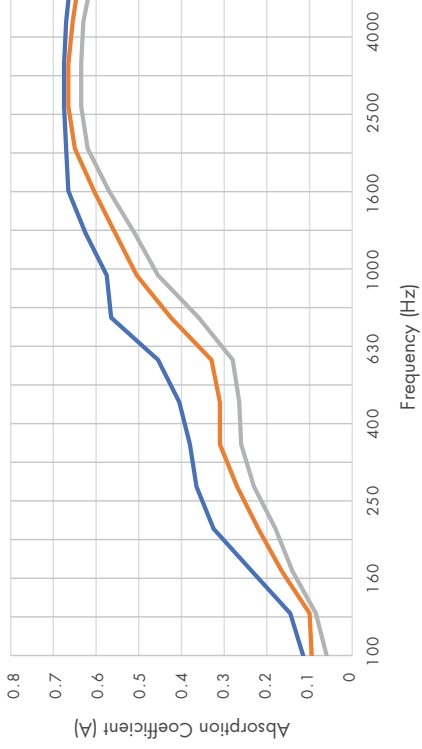


Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354. Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients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

DESCRIPTION	University of Auckland Test report number	FREQUENCY (Hz)							
		125	250	500	1000	2000	4000	NRC	
Frontier™ 24mm 300mm deep 100mm centres	T1812.4	0.35	0.70	0.95	1.25	1.35	1.30	1.05	
Frontier™ 24mm 300mm deep 200mm centres	T1812.5	0.25	0.55	0.70	1.10	1.30	1.30	0.90	
Frontier™ 24mm 300mm deep 300mm centres	T1812.6	0.20	0.45	0.60	1.00	1.25	1.20	0.85	

PRODUCT SPECIFICATIONS

Product Name Frontier™ Acoustic Fins
 Composition Fin: 100% Polyester Fibre (PET)
 Aluminium Channel
 Fin Length 2400mm
 Tolerance (+/-0.5mm)
 Thickness 24mm
 Tolerance (+/-6%)
 Weight 4600 gsm

ACOUSTIC PERFORMANCE

Frontier is specifically designed to reduce and control reverberated noise (echo) in building interiors.

INSTALLATION

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



LIGHT REFLECTANCE VALUES BY COLOUR

Pavilion	78	Zenith	22
Opera	49	Lotus	16
Savoie	47	Galaxy	16
Senado	45	Iron Bank	13
Rosada	45	Pinnacle	8
Acros	42	Empire	6
Falling Water	36	Tree House	3
Bosco	29	Petronas	2
Flatiron	25		

MEASURED IN ACCORDANCE WITH BS 8493:2008-A1:2010

FIRE RATING

Frontier™ is a value-added product made from Cube™ as the base material. Cube™ has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-5

Smoke Production Rate: <5.0m²/s

As required by NZBC C/W/2

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 dated 16th September, 2012 and PAR 4055-3 dated 31st July, 2019

EN13501-1:2007+A1:2009

B₁-s2,d2 (Cube™ 12mm)

WR30911 dated 25th February, 2014

ASTM E 84-15a

Class A, FSO - SD:45 (Cube™ 1/2")

R44792 dated 25th January, 2016

Class A, FSO - SD:65 (Cube™ 1")

R44791 dated 25th January, 2016

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 VAPOUR SORPTION

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapour 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 mould and mildew.

COLOUR FASTNESS TO LIGHT

Frontier™ is suitable for indoor use only.

Light fastness is dependent on use and exposure.

FRONTIER™ COLOUR OPTIONS



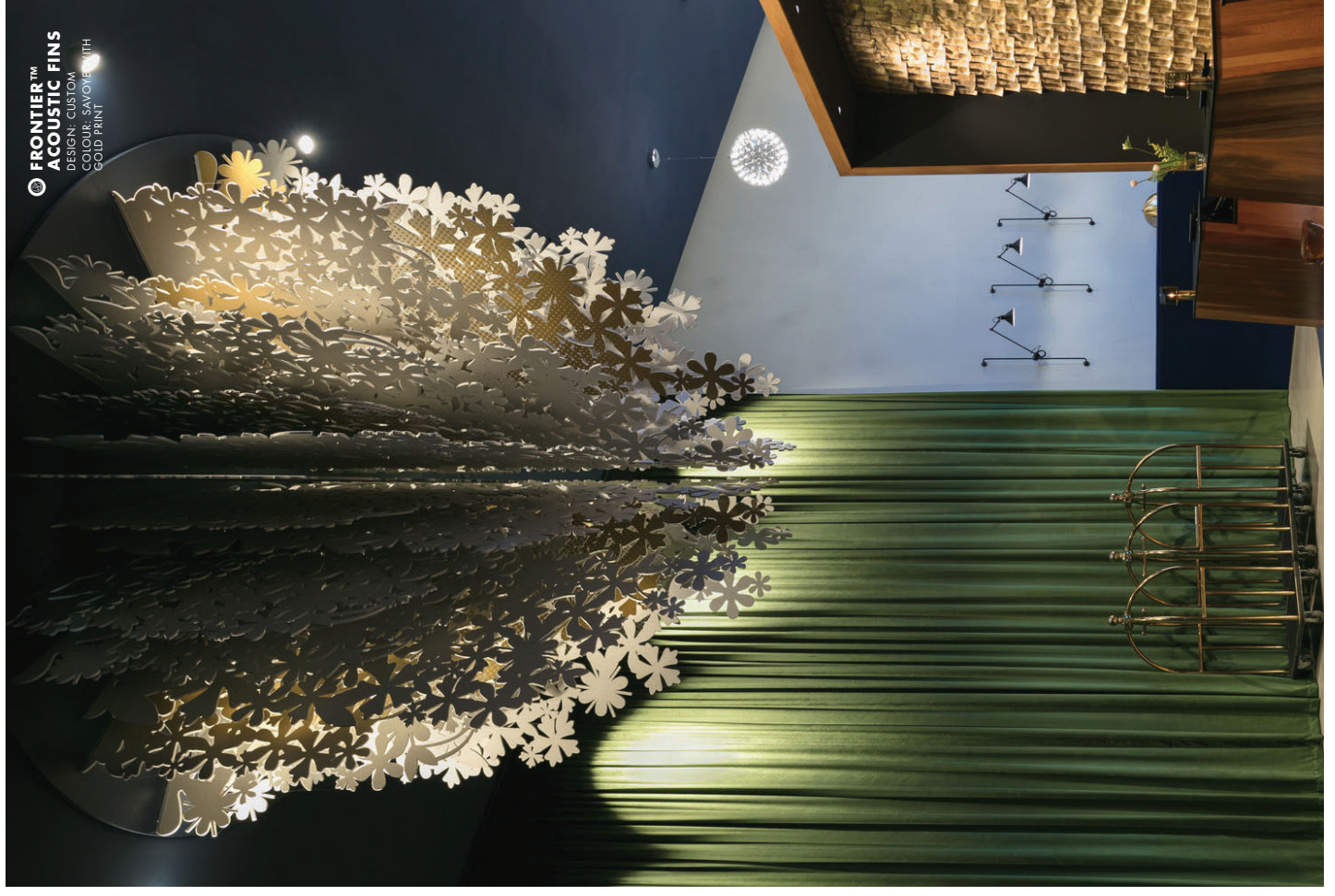
MOQ's apply to some colours. To find out more, or to order a sample, please contact QuietArt.

FRONTIERTM CUSTOMISATION

We know that no two projects are exactly the same, so why should the products or services going into them be? This is why we are proud of our ability to customise any of our products to suit your needs.

Being manufacturers, engineers and creatives, we have the capacity to transform, cut, mould, or build our products to create acoustic solutions truly unique to you and your space.

If you have an idea, let's work together to make it happen. If you want to customise FrontierTM for your next project, get in touch with **QuietArt** or visit our website www.quietart.com.au



FRONTIERTM
ACOUSTIC FINS
DESIGN: CUSTOM
COLOUR: SAVONNE WITH
GOLD PRINT



CARING FOR THE ENVIRONMENT

Frontier™ is manufactured using 100% polyester fibre and contains a minimum of 45% previously recycled fibre (from PET plastics). Many of our products are designed to be recycled at the end of their life too.

We use Life Cycle Analysis (LCA) to understand the environmental impacts of our products and set targets to reduce these. All our products have been verified as low VOC and are free from chemical binders making them great for indoor environmental quality (IEQ). 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, LCARate Gold and PHD level platinum certified.

Frontier™ is made from Cube™, which is Declare 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.



Declare.

