



**Product  
overview**

Acoustic Timber™ Raft™ 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, Acoustic Timber Raft is made from 100% polyester fibre. Acoustic Timber Raft is designed to be 'tuned' to spaces, offering tailored acoustic absorption across a wide range of frequencies.

**Suitable applications**

Suitable for use as acoustic and decorative treatments where contact with the product will be minimal. If you have any concerns about the install location, please contact your account manager.

**Specification**

Acoustic treatment shall be Acoustic Timber Raft (L) as compiled by Autex Acoustics

Acoustic absorber Acoustic Timber Raft  
(Beam 100: 2400 x 87 x 70 mm) NRC 0.75  
(Beam 250: 2400 x 227 x 70 mm)  
NRC 0.90 Colour (L).

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.

**Colour options**



W1 Birch



W12 Tasmanian Oak



W2 Hoop Pine



W19 Blue Gum



W3 Oak



W5 Tasmanian Blackwood



W4 American Ash



W7 Queensland Walnut



W6 Eucalyptus



W20 Jarrah



## Product specifications

|                     |  |
|---------------------|--|
| <b>Product name</b> | Acoustic Timber Raft                             |
| <b>Composition</b>  | 100% polyester fibre (PET);<br>aluminium channel |
| <b>Fin length</b>   | 2400 mm  |
| <b>Tolerance</b>    | (+/- 0.5 mm)                                     |
| <b>Thickness</b>    | 12 mm  |
| <b>Tolerance</b>    | (+/- 6%)   |

## Installation

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

## Product specifications

### Fire ratings

Acoustic Timber Raft is made from Cube™ which has been tested and evaluated using the following test methods:

#### ISO 9705: 1993

Classification: Group 1-S  
Smoke production rate:  
<5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

#### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>  
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by BCA Specification C110-4  
FI 4974  
FAR 4055

#### BS EN 13501-1:2018

Wall applications  
Classification: B-s<sub>2</sub>,d<sub>0</sub>  
(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-s<sub>2</sub>,d<sub>0</sub>  
(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

#### ASTM E-84-15a

Class A, FS:0 - SD:45  
RJ4479

### VOC emissions

Autex Acoustics polyester has been tested for chemical emissions (Report: CV170908) and is classified as low VOC. VOC concentration: 0.009 mg/m<sup>3</sup> (7 days)

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

### Impact resistance

Print may show surface damage when subjected to impacts. We would advise against using Print in areas where there is likely to be contact with the product.

### Colour fastness to light

Acoustic Timber Raft is suitable for indoor use only. Light fastness is dependent on use and exposure. Acoustic Timber Raft has been evaluated to the following standard: ISO 105-B02:2014  
Rating: 6 (Highest = 7)

### Fabric care

Avoid contact with the Acoustic Timber Raft surface. Where liquids and other contaminants come in contact with the panels, these should be gently removed immediately and not allowed to soak-in, dry, or set. Refer to the product Care and Maintenance for cleaning guidance. Consult a specialist cleaning company for cleaning if required.

### Environmental

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

Acoustic Timber Raft contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Acoustic Timber Raft is manufactured from 100% polyester fibre and does not contain formaldehyde binders. Autex Acoustics polyester fibre supports safer indoor air quality and will not become a potential airborne pollutant.

### Service

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

## Light reflectance values by colour

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

|              |    |                     |    |
|--------------|----|---------------------|----|
| Birch        | 58 | Tasmanian Oak       | 28 |
| American Ash | 53 | Blue Gum            | 18 |
| Eucalyptus   | 46 | Tasmanian Blackwood | 17 |
| Hoop Pine    | 45 | Queensland Walnut   | 15 |
| Oak          | 37 | Jarrah              | 9  |



## Acoustic performance

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

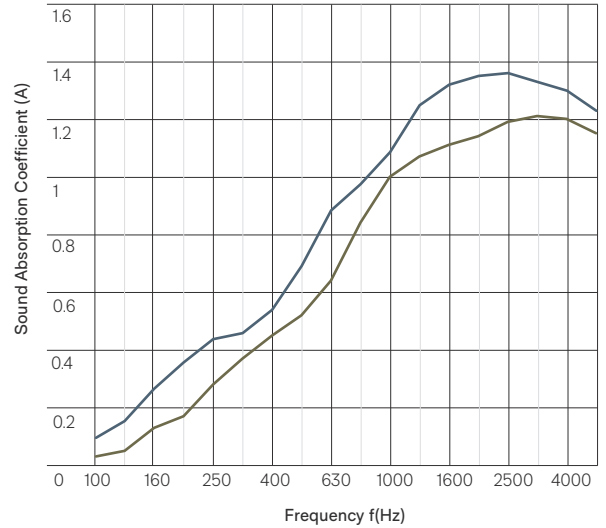
| Frequency (Hz)   | 125  | 250  | 500  | 1000 | 2000 | 4000 | NRC  |
|--|------|------|------|------|------|------|------|
| <b>Frontier Raft 12 mm Beam 100</b><br>(200 mm off ceiling @ 150 mm centres) | 0.05 | 0.25 | 0.55 | 0.95 | 1.15 | 1.20 | 0.75 |
| <b>Frontier Raft 12 mm Beam 250</b><br>(200 mm 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 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



## Caring for the environment

Acoustic Timber Raft is manufactured using 100% polyester fibre and contains a minimum of 60% recycled fibre (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.

Acoustic Timber Raft 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.



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