



**Autex
Acoustics®**

Acoustic Timber™ Raft

Data Sheet

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.

Sustainable material

- Carbon neutral product and manufacturing
 - Zero waste manufacturing initiative
 - Recycled content
 - >80% recycled material
 - Low VOC and CDPH compliant
 - <0.092 mg/m³ (7 days)
 - Sustainable supply chain and anti-modern slavery
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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
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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 autexacoustics.co.nz, or speak with your Autex Acoustics account manager.

Suitable applications

Suitable for use as acoustic and decorative treatments in non-contact areas. For applications where contact is likely to occur, Autex Acoustics recommends our standard Frontier Raft range. If you have any concerns about the install location, please contact your Autex Acoustics account manager.



Product specifications

Product name	Acoustic Timber Raft
Content	100% polyester fibre (PET); aluminium channel
Beam length	2400 mm
Tolerance	(+/- 0.5 mm)
Beam depth	70 mm

Installation

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

Specification

Acoustic treatment shall be Acoustic Timber Raft () 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 ().

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 - s1, d0.

Seismic bracing as per local building code requirements.

A variety of fixing or suspension options are available. Install as per Frontier™ Install Instructions.

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:

<5.0m²/s

As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1 (SMOGRARc): <100m²/s₂

Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4 FI 4974 FAR 4055

BS EN 13501-1:2018

Wall applications

Classification: B-s1, d0 (Cube™ 12 mm)

Tested according to BS EN ISO 11925-2:2020 and BS EN 13823:2020 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2019. 7191361939-MEC25/03-JV

Ceiling applications

Classification: B-s1, d0

(Cube™ 12 mm)

Tested according to BS EN ISO 11925-2:2020 and BS EN 13823:2020 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15964:2014. 7191361939-MEC25/03-JV

ASTM E-84-15a

Class A, FS:0 - SD:45 (Cube™ 12 mm)
RJ4479

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)
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 Acoustic Timber Raft 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)

Blemishes

Due to the nature of the raw material and the manufacturing process, flecks and other small surface blemishes may be visible on the surface of Autex Acoustics panels from time to time. This is an inherent characteristic of the textile products and is unavoidable.

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.

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

W1 Birch	58	W21 Black Walnut	15
W3 Oak	37	W30 Yakisugi Black	3
W4 American Ash	53	W32 Aged Oak	34
W7 Queensland Walnut	15	W36 Soft Walnut	57
W8 Classic Oak	27	W37 Coastal Oak	42
W12 Tasmanian Oak	28	W39 Civic Oak	23
W18 Grey Ironbank	15	W41 Prime Oak	22



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
Frontier Raft 12 mm Beam 100 (200 mm off ceiling @ 150 mm centres)	0.05	0.25	0.55	0.95	1.00	1.00	0.75
Frontier Raft 12 mm Beam 250 (200 mm off ceiling @ 300 mm centres)	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 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.

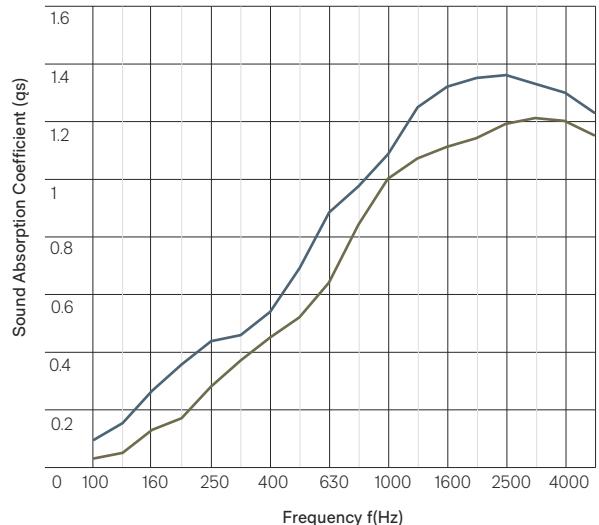
University of Auckland Testing Service

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



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