



**Product
overview**

Acoustic Timber™ Panel™ is a versatile acoustic panel designed for a variety of interior applications. Available in 12 mm and 24 mm thicknesses, Acoustic Timber Panels are lightweight and semi-rigid—made from 100% polyester fibre. Acoustic Timber Panels are customisable with Precision Cut, and Peel ‘n’ Stick, for ease of install.

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

(Wall) treatment shall be Acoustic Timber Panel from thermally bonded high density polyester with timber grain running the length of the panel, containing not less than 60% recycled material as manufactured by Autex Acoustics® www.autexglobal.com

Panel 1200 x 2400 / (2700 AUS only) x () mm (nom.) depth, colour (), sound absorption 12 mm: Class D, NRC 0.45 – with 25 mm air gap: Class C, NRC 0.70. 24 mm:

Class D, NRC 0.70 – with 25 mm air gap:
Class C, NRC 0.80.

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.

If Acoustic Timber Panels are to be specified for use other than as a wallcovering, please seek guidance from your account manager.

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

Product name	Acoustic Timber Panel
Composition	100% polyester fibre
Panel dimensions	1200 mm x 2400 mm 1200 mm x 2700 mm (AUS only)
Tolerance	(+/- 0.5 mm) x (+/- 0.5 mm)
Thickness	12 mm 24 mm
Tolerance	(+/- 6%) (+/- 6%)

Thermal performance

(Internally tested by Autex Lab)

Acoustic Timber Panel 12 mm	R0.41 (@15°C)
Acoustic Timber Panel 24 mm	R0.82 (@15°C)

Installation

Install as per Autex Acoustics recommendations. Install instructions are included in each pack or available on the website. If Acoustic Timber Panels are to be specified for use other than as a wallcovering, please seek guidance from your account manager.

Product specifications

Fire ratings

Acoustic Timber Panel 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 BCA Specification C110-4 FI 4974 FAR 4055

BS EN 13501-1:2018

Wall applications
Classification: B-s₂,d₀
(Cube™ 12 mm)
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™ 12 mm)
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
(Cube™ 1/2")
RJ4479
Class A, FS:0 - SD:65
(Cube™ 1")
RJ4479

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 vapour sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorped after 4 days:
0.4% by weight

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.

Microbial resistance

ASTM G21-15
Growth rating: 0 (No growth)
Acoustic Timber Panel does not promote the growth of moulds and mildew.

Colour fastness to light

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

Pattern repeat

Acoustic Timber Panels are made to replicate Timber grains and there is a variation from panel to panel to provide the natural look. there is no pattern repeat from panel to panel. Acoustic Timber Panels will be manufactured ready for butt joining along the vertical joints. We recommend cutting through the face of the panel using a straight edge to ensure a straight cut. Where possible, please place the straight edge on the excess of the panel to reduce friction and rubbing on the part of the panel that is to be installed.

Fabric care

Avoid contact with the Acoustic Timber Panel 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 Panels contain 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 Panel 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 Panel or any other Autex Acoustics product, please contact your account manager or visit our website.

Light reflectance values by colour

Acoustic Timber Panel 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

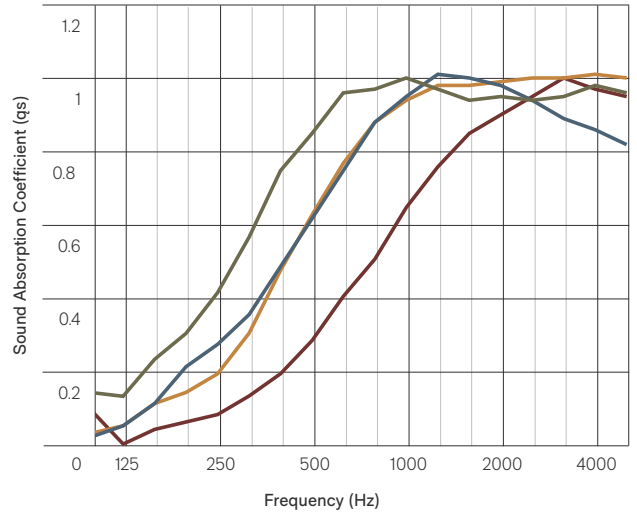
Acoustic Timber Panel is made using Cube. The effect of the printed surface has been tested and found to have no impact on the acoustic performance of Cube.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 12 mm Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
● 12 mm Cube (with 25 mm air gap)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● 24 mm Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 24 mm Cube (with 25 mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80

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.

Absorption Coefficient According to ISO 354 University of Auckland Testing Service

Cube (12 mm) - Test No. T0712-3
 Cube (12 mm with 25 mm air gap) - Test No. T0712-6
 Cube (24 mm) - Test No. T1961-1
 Cube (24 mm with 25 mm air gap) - Test No. T1326-2



Caring for the environment

Acoustic Timber Panel 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 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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