Autex Acoustics®

Acoustic Timber™ Panel™ Data Sheet

Product overview

Acoustic Timber™ Panel™ is a versatile acoustic panel designed for a variety of interior applications. Available in 12 mm, 24 mm, and 25 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.

Sustainable material

- Carbon neutral product and manufacturing
- Zero waste manufacturing initiative
- Recycled content - >75% recycled material
- Low VOC and CDPH compliant - <0.092 mg/m^3 (7 days)
- Sustainable supply chain and anti-modern slavery

Environmental certifications

- 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

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.uk, 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 Cube™ or Quietspace® Panel range. If you have any concerns about the install location, please contact your Autex Acoustics 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 80% recycled material as manufactured by Autex Acoustics autexacoustics.co.uk

Panel 1200 x 2400 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. 25 mm: Class C, NRC 0.85.

Fire rating ASTM E-84: Class A, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, 12 mm: BS EN 13501-1:2018 B - s2, d0, 24 mm: BS EN 13501-1:2018 B - s2, d2, 25 mm: BS EN 13501-1:2018 B - s2, d2.

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

Product specifications

Product name	Acoustic Timber Panel
Content	100% polyester fibre
Panel dimensions	1200 mm x 2400 mm 1200 mm x 2700 mm
Tolerance	(+/- 0.5 mm) x (+/- 0.5 mm)
Thickness	12 mm 24 mm 25mm
Tolerance	(+/- 6%) (+/- 6%) (+/- 6%)

Thermal performance
(Internally tested by Autex Lab)
Acoustic Timber Panel 12 mm R0.31 (@15°C)
Acoustic Timber Panel 24 mm R0.62 (@15°C)
Acoustic Timber Panel 25 mm R0.66 (@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 Autex Acoustics account manager.

Product specifications

Fire ratings
Acoustic Timber Panel is made from Cube™ and Quietspace® Panel 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 5637.1:2015, required by NCC Specification 7: Fire Hazard properties: S7C4
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

Wall applications
Classification: B-s2,d2
(Cube™ 24 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-21-000135-G-A

Wall applications
Classification: B-s2,d2
(25 mm Quietspace® Panel)
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-E-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

Ceiling applications
Classification: B-s2,d2
(Cube™ 24 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-21-000135-G-B

Ceiling applications
Classification: B-s2,d2
(25 mm Quietspace® Panel)
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-E-B

ASTM E-84-15a
Class A, FS:0 - SD:45
(Cube™ 1/2")
RJ4479
Class A, FS:0 - SD:65
(Cube™ 1")
RJ4479

ASTM E84 - 14
(1" Quietspace® Panel)
Class A, FS:0 - SD:10
RJ3297

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 joins.

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.

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 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.

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

W1 Birch	58	W32 Aged Oak	34
W2 Hoop Pine	45	W33 Nordic Oak	46
W3 Oak	37	W34 Australian Blackbutt	32
W4 American Ash	53	W36 Soft Walnut	57
W6 Eucalyptus	46	W37 Coastal Oak	42
W7 Queensland Walnut	15	W38 Natural Oak	35
W12 Tasmanian Oak	28	W39 Civic Oak	23
W18 Grey Ironbank	15	W40 Coffs Blackbutt	21
W21 Black Walnut	15	W41 Prime Oak	22
W30 Yakisugi Black	3	W42 Boston Oak	32
W31 Whitewash Gum	58		

Acoustic performance

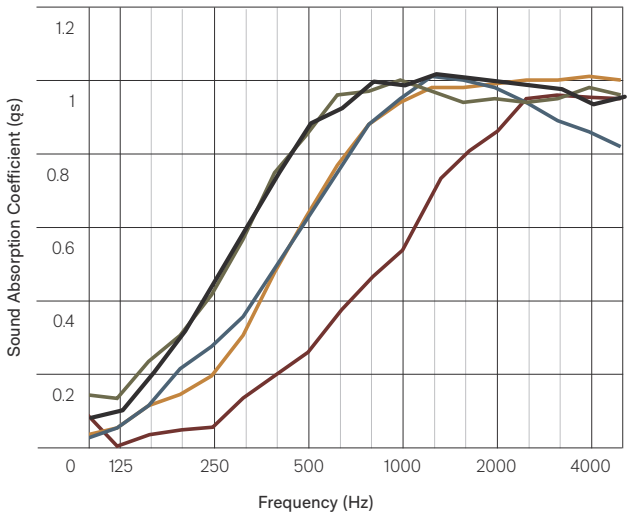
Acoustic Timber Panel is made using Cube or Quietspace Panel. The effect of the printed surface has been tested and found to have no impact on the acoustic performance of Cube or Quietspace Panel.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
12 mm Cube	0.00	0.05	0.25	0.60	0.85	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
25 mm Quietspace Panel	0.15	0.45	0.85	1.00	1.00	0.95	0.85

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
Quietspace Panel (25 mm) - test no. T0712-18



- **New Zealand**
  702-718 Rosebank Road,
  Private Bag 19988
  Avondale 1746, Auckland
  T 0800 428 839
  T +64 9 828 9179
  autexacoustics.co.nz
- **Australia**
  285 Swan Street,
  Richmond, VIC 3121
  T 1800 678 160
  T +61 3 9450 6700
  autexacoustics.com.au
- **United Kingdom**
  Unit J4, Lowfields Way,
  Lowfields Business Park,
  Elland, West Yorkshire
  HX5 9DA
  T +44 0 142 241 8899
  autexacoustics.co.uk
- **United States**
  1630 Dan Kipper Drive,
  Riverside, CA 92507
  T +1 424 203 1813
  autexacoustics.com

Autex is an ISO certified organisation encompassing Quality (ISO 9001), Environmental (ISO 14001), and Health and Safety (ISO 45001). Brand names and logos are registered or unregistered trademarks owned or used under license by Autex Industries Limited or other members of the Autex Group. © Copyright 2024 Autex Industries Ltd. All rights reserved. It is the user's responsibility to determine if the product and information presented in this document is suitable for the intended application by engaging a suitably qualified consultant. The information contained in this document is correct to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your Autex Acoustics account manager.