



**Autex
Acoustics®**

Acoustic Timber™ Panel

Manufacturer's Guarantee

Acoustic Timber™ Panel is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

Specification

| | | | |
|---------------------|---|----------|----------|
| Product name | Acoustic Timber™ Panel | | |
| Description | 100% polyester lightweight semi-rigid panel | | |
| | Metric | | |
| Panel dimensions | 1220 mm x 2440 mm | | |
| | 1200 mm x 2700 mm (AU only) | | |
| Tolerance | (+5 mm) (+10 mm) | | |
| Thickness | 12 mm | 24 mm | 25 mm |
| Tolerance | (+/- 6%) | (+/- 6%) | (+/- 6%) |

Physical description/ properties

| | |
|--------------------------|----------------|
| Boiling point: | N/A |
| Melting point: | 250°C |
| Vapour pressure: | N/A |
| Specific gravity: | Polyester 1.38 |
| Flash point: | N/A |
| Explosive limits: | N/A |
| Solubility in water: | Not soluble |
| Alkalinity: | pH 7.8 |
| Relative vapour density: | N/A |

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.

Minimum Noise Reduction
Coefficient 0.45

| 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 |
| 25 mm Quietspace | 0.15 | 0.45 | 0.85 | 1.00 | 1.00 | 0.95 | 0.85 |



Product specifications

Fire ratings

Acoustic Timber 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

(SMOGR_{ARC}): <100m²/s2

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, 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

Wall applications

Classification: B-s2, d0

(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 15102:2019. 7191343095-MEC24/03-JV

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 15102:2019. EUI-21-000135-E-A

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 13964:2014. 7191361939-MEC25/03-JV

Ceiling applications

Classification: B-s2, d0

(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. 7191343095-MEC24/03-JV

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

Class A, FS:0 - SD:10

(1" QuietSpace® Panel)

RJ3297

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.

Acoustic performance

The ink used to print this surface finish has been tested and found to have no impact on the acoustic performance of Autex Acoustics® products. Please contact your account manager for further information if required.

Pinnable

Acoustic Timber is pinnable.

However, please be aware that the surface is not self-healing, and the backing panel colour may be visible when pinning.

Impact resistance

Acoustic Timber may show surface damage when subjected to impacts.

We would advise against using Acoustic Timber in areas where there is likely to be contact with the product.

VOC emissions

Acoustic Timber has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC and low formaldehyde emissions product. VOC emissions: 0.019 mg/m³ Formaldehyde emissions: <0.005 mg/m³

Colour fastness to light

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

Light Refelctance Value (LRV) solid colours

When selecting Acoustic Timber, a sample can be provided and tested for LRV. Please contact your account manager at the start of your project to arrange a test.

Fabric care

Avoid contact with the Acoustic Timber 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 Guide for cleaning guidance. Consult a specialist cleaning company for cleaning if required.

Finish

The acoustic product colour may vary from samples and between each product batch. This is due to the inherent nature of the textile. This will not affect the colour of the Acoustic Timber.

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.

Service

For further information about Acoustic Timber or any other Autex Acoustics product, please contact your account manager or visit our website. The information contained in this document is correct to the best of our knowledge at the date of its publication. It is the user's responsibility to determine if this information is suitable for their intended application and to make sure that this document is the most current publication. You can do this by checking our website or contacting your account manager.

Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

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