

Discover the limitless design flexibility of Cube™; a lightweight and semi-rigid panel that has sound absorbing properties. Designed with solid colour throughout, Cube™ has the potential to be used in a large array of spatial design and interior solutions.

More than just a traditional interior acoustic panel; Cube™ can be employed as a base material for creative solutions where design and aesthetics are important.

Cube™ is made from 100% polyester and manufactured in New Zealand and Australia under Autex's ISO 14001 accredited Environmental Management System. Containing a minimum of 65% post-consumer recycled material (PET bottle-flake); Cube™ is completely safe, non-toxic, non-allergenic and non-irritant.

#### Key Features and Benefits

- Design flexibility without the need for edging or capping, created with solid colour throughout
- Excellent acoustic performance
- Available in a wide range of colours
- Custom colour printing available
- Limitless branding and design possibilities with in-house custom cutting
- Light-weight and easy to handle
- Made from 100% polyester fibre without chemical binders and certified low VOC
- Manufactured using a minimum of 65% post-consumer recycled material
- Highly durable providing long-term stability and performance
- Safe, non-toxic, non-irritant and non-allergenic
- Made in New Zealand and Australia
- Manufactured under ISO 9001 and ISO 14001 accredited Quality and Environmental Systems
- Does not contain any Red List chemicals \*

\* Red List chemicals are defined by the United States Environmental Protection Agency (U.S. EPA) and The International Living Future Institute as materials that are harmful to living creatures, including humans. A full list can be found at [www.declareproducts.com](http://www.declareproducts.com)

#### Specification:

(Wall) treatment shall be **Autex Cube™** from thermally bonded high density polyester containing not less than 65% post-consumer recycled material as manufactured by Autex [www.autexindustries.com](http://www.autexindustries.com)

Panel 1200 x 2400 x [ ]mm (nom.) depth, colour [ ], sound absorption 12mm: Class D, NRC 0.45 – with 24mm air gap: Class C, NRC 0.70. 24mm: Class D, NRC 0.65 – with 24mm air gap: Class C, NRC 0.80. Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2.

Install as per Autex recommendations.

If Cube™ is to be specified for use other than as a wall covering, please seek guidance from your Autex Account Manager.

#### Applications

- Decorative and functional acoustic wall covering for education, retail and commercial interiors
- Media for creative solutions
- Acoustic pin-board surface for education and commercial sectors
- Modular room divider for display, privacy and sound absorption
- Free-standing or direct fix acoustic panel

#### Colour Options



## Product Specifications

<b>Product Name</b>	Cube™	
<b>Composition</b>	100% Polyester Fibre (PET)	
<b>Panel Dimensions</b>	1200mm (+5mm)	x 2400mm (+10mm)
<b>Thickness</b>	12mm	24mm
<b>Weight</b>	2400gsm	4800gsm
<b>Density</b>	200kg/m <sup>3</sup>	

## Installation

Install as per Autex recommendations.  
If Cube™ is to be specified for use other than as a wallcovering, please seek guidance from your Autex Account Manager.

## Fastness to Light

Cube™ is suitable for indoor use only.

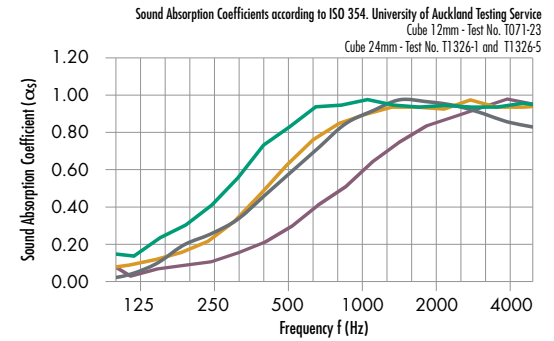
## Thermal Performance

Cube™ 12mm	R0.41 (@15°C)
Cube™ 24mm	R0.82 (@15°C)

## Acoustic Performance

Cube™ is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Minimum Noise Reduction Coefficient 0.45



Frequency (Hz)	100	250	500	1000	2000	4000	NRC
12mm Cube	0.05	0.10	0.30	0.65	0.90	0.95	0.45
12mm Cube (with 25mm air gap)	0.02	0.27	0.61	0.91	0.97	0.85	0.70
24mm Cube	0.10	0.25	0.60	0.90	0.95	0.95	0.65
24mm Cube (with 25mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80

## Fire Ratings (Conducted on 12mm Cube™)

**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  
(SMOGRArc): <100m<sup>2</sup>/s<sup>2</sup>  
As required by BCA C1.10  
Fl 4974 dated 16th September, 2012

**EN13501-1:2007+A1:2009**  
B - s2, d2  
WF 336911 dated 25th February, 2014

**ASTM E-84-14**  
Class A, FS:0 - SD:10  
RJ3297-10R1 dated 17th March, 2015

## VOC Emissions

Autex polyester has been tested for chemical emission (Report: CV080408) and is classified as low VOC. VOC concentration: 0.01 mg/m<sup>3</sup>.

## Moisture Absorption

Polyester fibre when exposed to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture, mould or mildew and will not rot or deteriorate in intended use situations.

## Pattern Repeat

Non-woven. No pattern repeat but product has directional grain. Product may vary from samples and batch to batch due to fibre blending and layup which is an inherent feature of this product.

## Fabric Care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed. Blot with a clean dry cloth after each application of solution. Custom printed Cube™ requires the services of a specialist cleaning company.

## Impact Resistance

Cube™ has been tested for impact resistance to EN13964:2004 and meets the criteria of Class 1A; not adversely effected at impact velocities over 16.5m/s.

## Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 accredited Quality and Environmental Management Systems.

Cube™ products contains a minimum of 65% previously recycled polyester fibre (from PET bottle-flake) ensuring comparatively low embodied energy. Off-cuts and manufacturing waste is re-used or recycled wherever possible. Uncontaminated Cube™ can be recycled.

Cube™ is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

## Service

For further information about Cube™ or any other Autex product, please contact your Autex Account Manager or visit our website.

Cube™ is a trademark of Autex Industries Limited and Autex Pty.