



Cube™ is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System. 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 Cube™
Description 100% polyester lightweight semi-rigid panel

	Metric		Imperial	
Panel Dimensions	1220mm x 2440mm		4' x 8'	
Tolerance	(+5mm/-0mm) x (+10mm/-0mm)		(+0.20") x (0.40")	
Thickness	12mm	24mm	1/2"	1"
Tolerance	(+/- 6%)	(+/- 6%)	(+/- 6%)	(+/- 6%)
Weight	2400gsm	3600gsm	7.86oz/ft2	12oz/ft2
Density	192kg/m3			

**Physical Description /
Properties**

Boiling Point	N/A
Melting Point:	250°C 482°F
Vapour Pressure:	N/A
Specific Gravity:	Polyester 1.38
Flash point:	N/Aw
Explosive limits:	N/A
Solubility in water	Not soluble
Alkalinity:	pH 7.8
Relative Vapour Density:	N/A

Acoustic Performance

Cube™ is specifically designed to reduce and control reverberated (echo) noise in building interiors. Minimum Noise Reduction Coefficient 0.45

Frequency (Hz)	125	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)	0.05	0.30	0.60	0.95	0.95	0.85	0.70
● 24mm Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 24mm Cube (with 25mm air gap)	0.15	0.40	0.85	0.95	0.95	0.95	0.80



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.

Care and Maintenance

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

Product Specifications

Composition

100% Polyester Fibre from polyethylene terephthalate (PET). Cube contains a minimum of 60% previously recycled polyester fibre.

Suitable applications

Pinboards, partitions, wallcovering with acoustic properties. Accepts pins and staples.

Colour Fastness To Light

Cube is suitable for indoor use only. Light fastness is dependent on use and exposure. Cube has been evaluated to the following standard:

ISO 105-B02:2014

Rating: 6 (Highest = 7)

Thermal Performance

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

Fire Ratings

(Conducted on 12mm Cube™)

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
As required by BCA C1.10
Fl 4974 dated 16th September, 2012

BS EN 13501-1:2018

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

ASTM E-84-14

Class A, FS:0 – SD:45
R14479-2

VOC Emissions

Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as a low VOC product.

VOC concentration:
0.009 mg/m³ (7 days)

Finish

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

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 lay-up which is an inherent feature of this product.

Fabric Care

Refer to Cleaning Guide
www.autexindustries.com

Impact Resistance

ISO 7892:1988

Hard Body Impact

There is no surface damage or penetration to Cube when subjected to hard body impacts. When adhered to 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small

indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg object dropped from a 0.5-m height.

Soft Body Impact

There is no surface damage or penetration to Cube when subjected to soft body impacts. When adhered to 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 150mm height.

● Autex Industries Ltd

702-718 Rosebank Rd
Private Bag 19988
Avondale 1746, Auckland
New Zealand
Freephone 0800 428 839
Phone +64 9 828 9179
Fax +64 9 828 5810

● Autex Australia Pty Ltd

166 Bamfield Road
PO Box 5099
West Heidelberg, Melbourne
VIC 3081, Australia
Freephone 1800 678 160
Phone +61 3 9457 6700
Fax +61 3 9457 1020

● Autex Acoustics Ltd

Unit J4, Lowfields Way,
Lowfields Business Park,
Elland, West Yorkshire
Hx5 9Da
United Kingdom
Phone +44 0 1422418899

● Autex Acoustics LLC

1630 Dan Kipper Dr,
Riverside, CA 92507
United States of America
Phone +1 424 203 1813

An ISO 9001, ISO 14001 and ISO 45001 certified company. The brand names and logos mentioned herein are registered or unregistered trademarks either owned or used under license by Autex Industries Limited or other members of the Autex Group. The contents of this document are protected by Copyright 2021 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 account manager.

IA_CV_Cove Manufacturers Warranty_Oct21_RC