

$Cube^{^{\mathsf{TM}}}$

Manufacturer's Guarantee

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						
	Panel Dimensions	1220mm x 2440mm (+5mm) (+10mm)							
	Tolerance								
	Thickness	12	12mm			24mm			
	Tolerance (+/-		- 6%)				(+/- 6%)		
Physical Description /									
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	- Cube™ is specifically designed								
Acoustic Performance			y (Hz) 125	250	500	1000	2000	4000	NF
	Minimum Noise Reduction Coefficient 0.45	12mm Cu	be 0.05	0.10	0.30	0.65	0.90	0.95	0.4
		12mm Cu (with 25mm	be air gap) 0.05	0.30	0.60	0.95	0.95	0.85	0.7
		24mm Cu	be 0.05	0.20	0.60	0.90	1.00	1.00	0.

24mm Cube (with 25mm air gap) 0.15

0.40

0.85

0.95

0.95

0.95



Service

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

Care and Maintenance

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

Hard Body Impact

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.

Fire Ratings

Cube™ has been 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 56371/2015, as required by BCA Specification C1.10-4 F1 4974 FAR 4055

BS EN 13501-1:2018

Wall applications

Classification: B-s2,d0 (Cube[™] 12mm)

Tested using BS EN ISO 11925-22020 and BS EN 13823-2020 and classified in accordance with BS EN 13501-12018, as required by BS EN 15102-2007 + A1:2011.

EUI-20-000268-A

Ceiling applications Classification: B-s2,d0

(Cube[™] 12mm)

Tested using BS EN ISO 11925-22020 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

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.

Ceiling applications Classification: B-s2,d2

(Cube[™] 24 mm)

EUI-21-000135-G-A

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

ASTM E-84-15a

Class A, FS:0 - SD:45 (Cube™ 1/2") RJ4479-2 Class A, FS:0 - SD:65

(CubeTM 1")

Thermal Performance

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

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)

Water Vapour Sorption

ISO 7892:1988

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

Microbial Resistance

ASTM G21-15 Growth Rating: 0 (No growth) Cube™ does not promote the growth of moulds and mildew.

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)

Colour Fastness to Rubbing

ISO 105-X12:2016

Dry Rating: 4-5 (Highest = 5) Wet Rating: 4-5 (Highest = 5)

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. Refer to the Cube™ Cleaning and Maintenance Guide for more information.

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.

Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. Autex Cube™ contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake).

Off-cuts and manufacturing waste are re-used or recycled wherever possible. Autex 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.

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

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