



Autex
Acoustics®

Cube™

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		Imperial	
Panel dimensions	1220 mm x 2440 mm		4' x 8'	
Tolerance	(±5 mm/-0 mm) x (±10 mm/-0 mm)		(±0.20") x (0.40")	
Thickness	12 mm	24 mm	1/2"	1"
Tolerance	(±/- 6%)	(±/- 6%)	(±/- 6%)	(±/- 6%)
Weight	2400 gsm	3600 gsm	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/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 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
	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



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 80% 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™ 12 mm R0.41 (@15°C)
Cube™ 24 mm R0.82 (@15°C)

Fire Ratings

(Conducted on 12 mm 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
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637:2015, as 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 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2019. 7191343095-MEC24/03-JV

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 15102:2019. 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 + A1:2022 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 15102:2019. 7191343095-MEC24/03-JV

ASTM E-84-14

Class A, FS:0 - SD:45
RJ4479-2

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
autexglobal.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 10 mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5 kg object dropped from a 2 metres height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 metre height.

Soft Body Impact

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

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