



**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/ft ²	12oz/ft ²				
	Density	192kg/m ³							
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.	AS ISO 9705 - 2003 Classification: Group 1 (SMOGRArc): <100m²/s ² 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
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:	ASTM E-84-14 Class A, FS:0 - SD:45 RJ4479-2
ISO 105-B02:2014 Rating: 6 (Highest = 7)	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)
Thermal Performance Cube™ 12 mm R0.41 (@15°C) Cube™ 24 mm R0.82 (@15°C)	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
Fire Ratings (Conducted on 12 mm Cube™)	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
ISO 9705: 1993 Classification – Group 1-S Smoke Production Rate – <5.0m²/s As required by NZBC C/VM2	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 and classified in accordance with BS EN 13501-1:2018, as required by BS EN 13964:2014. 7191343095-MEC24/03-JV
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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