



Cube™ is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. 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	1220 mm x 2440 mm (Custom lengths to 3600 mm available)	
Tolerance	(+5 mm) (+10 mm)	
Thickness	12 mm	24 mm
Tolerance	(+/- 6%)	(+/- 6%)

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 to reduce and control reverberated noise and echo 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 Acoustics® product, please contact your account manager or visit our website.

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.

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
(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-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

Ceiling applications

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 13964:2014 EUI-20-000268-B

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 15102:2007 + A1:2011.
7191343095-MEC24/03-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

ASTM E-84-15a

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

Class A, FS:0 - SD:65
(Cube 1")
RJ4479-1

Thermal performance

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

VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.
VOC concentration:
0.009 mg/m³ (7 days)

Water vapour sorption

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

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 m 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 m 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.

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 lay-up, 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 Autex Acoustics Care and Maintenance Guide for more information.

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