



Technical Product Overview

Cube™

Cube™ is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 and ISO 14001 certified Quality and Environment 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 20 years to meet all of the performance properties stated in this guarantee. This guarantee excludes damage caused by daily wear and tear, contamination (including moisture, dust, or stains), fading or discoloration from sunlight exposure, and any issues resulting from incorrect installation or improper maintenance.

Specification

Product Name	Cube™	
Description	100% polyester lightweight semi-rigid panel	
	Imperial	
Panel Dimensions	48" x 111.8"	
Tolerance	(±0.2") x (±0.4")	
Thickness	3/8"	1"
Tolerance	(± 6%)	(± 6%)
Weight	5.08 oz/ft ²	12 oz/ft ²
Density	192 kg/m ³	

Physical Description/ Properties

Boiling Point:	N/A
Melting Point:	482°F
Vapor 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 Vapor 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
● 3/8" Cube	0.00	0.05	0.15	0.40	0.70	0.85	0.30
● 1" Cube	0.05	0.20	0.60	0.90	1.00	1.00	0.70
● 1" Cube (with 1" 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 Momentum account manager or visit momentumco.com.

Care and Maintenance

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

Product Specifications

Composition

100% polyester fiber from polyethylene terephthalate (PET). Cube contains a minimum of 80% previously recycled polyester fiber.

Suitable Applications

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

Fire Ratings

Cube has been evaluated using the following test methods.

ASTM E-84-15a

Class A, FS:24 - SD:250

(Cube™ 3/8")

RJ9445F-1a

Class A, FS:0 - SD:65

(Cube™ 1")

RJ4479-1

CAN/ULC-S102

FS:15 - SD:65

(Cube™ 3/8")

QA-2243F-3

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 Vapor Sorption

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapor 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 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 0.5m 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 50kg object dropped from a 150mm height.

Microbial Resistance

ASTM G21-15

Growth rating: 0 (No growth)

Cube does not promote the growth of molds and mildew.

Color 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)

Color 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 fiber 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.

Autex Acoustics®

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