Autex Acoustics®

Loch™ Manufacturer's Guarantee

Loch™ 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 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 Loch™

Description 100% polyester lightweight semi-rigid panel

	Metric	Imperial
Panel Dimensions	1220 mm x 2440 mm	48" x 111.8"
Tolerance	*(+5 mm/-0 mm) x (+10 mm/-0 mm)*	*(+0.20") x (0.40")*
Thickness	24 mm	1"
Tolerance	*(+/- 6%)*	*(+/- 6%)*
Weight	3600 gsm	12oz/ft^2
Density	192 kg/m^3	

Physical description/ properties

Boiling point:	N/A
Melting point:	250°C | 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

Loch™ is specifically designed to reduce and control reverberated and echo noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabine per unit
Loch Classic 1"	0.10	0.20	0.50	0.70	0.70	0.70	0.50
Loch Bevel 1"	0.10	0.20	0.40	0.60	0.60	0.60	0.40
Loch Arc 1"	0.10	0.20	0.40	0.60	0.60	0.60	0.45

Service

For further information about Loch 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 fiber from polyethylene terephthalate (PET). Loch contains a minimum of 80% previously recycled polyester fiber.

Suitable applications
Tackboards, partitions, wallcovering with acoustic properties. Accepts tacks and staples.

Colour Fastness To Light
Loch is suitable for indoor use only. Light fastness is dependent on use and exposure. Loch has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

Thermal Performance
Cube™ 24 mm R0.82 (@15°C)

Fire Ratings
Loch is made from Cube as the base material. Cube has been evaluated using the following test methods.

ISO 9705: 1993
Classification – Group 1-S
Smoke Production Rate – <5.0m^2/s
As required by NZBC C/VM2

AS ISO 9705 - 2003
Classification: Group 1
(SMOGRArc): <100m^2/s^2
Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4
FI 4974
FAR 4055

BS EN 13501-1:2018
Classification: B-s2,d0
(Cube™ 1/2")
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

ASTM E-84-14
Class A, FS:0 - SD:45
RJ4479-2

VOC Emissions
Autex Acoustics 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/m^3 (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.

Microbial resistance
ASTM G21-15
Growth rating: 0 (No growth)
Loch does not promote the growth of molds and mildew.

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 Loch requires the services of a specialist cleaning company. Refer to the Autex Acoustics Care and Maintenance Guide for more information.

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.

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