



Lattice 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 Lattice
Description 100% polyester lightweight semi-rigid panel.

Imperial

Assembled Size	Available in 3 assembled sizes Please refer to Lattice Datasheet for individual dimensions
Tolerance	(+/-0.5mm) (+/-0.5mm) (+/-0.5mm)
Thickness	1/2"
Tolerance	(+/- 6%)
Weight	2300gsm
Density	192kg/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

Lattice is specifically designed to reduce and control reverberated (echo) noise in building interiors. For a copy of the full acoustic report please contact your Autex Account Manager.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
● Lattice Eclipse (1/2" Direct Fix)	0.60	1.60	1.70	2.20	2.80	3.20	2.10
● Lattice Eclipse (1/2" Suspended 787")	0.30	1.0	1.80	2.30	3.10	3.60	2.05



Acoustic Performance

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Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
Lattice Torus (1/2" Direct Fix)	0.80	1.70	1.60	1.90	2.80	2.30	1.85
Lattice Torus (1/2" Suspended 787")	0.30	0.80	1.30	1.80	3.10	2.40	1.60

Acoustic Performance

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Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabine Per Unit
Lattice Trapezium (1/2" Direct Fix)	2.20	4.0	3.40	4.0	4.40	4.60	3.90
Lattice Trapezium (1/2" Suspended 787")	1.50	2.50	3.20	4.10	5.0	5.40	3.70

Service

For further information about Lattice Eclipse, Autex Cube™ or any other Autex product, please contact your Autex 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). Lattice is made from Autex Cube™ which contains a minimum of 45% previously recycled polyester fiber.

Suitable Applications

Suspended

Fire Ratings

Lattice is a value-added product made from Autex Cube™ acoustic panels as the base material. Cube™ (12mm) 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 BCA Specification C110-4

FI 4974

FAR 4055

BS EN 13501-1:2018

Ceiling applications

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 13964:2014. EUI-20-000268-B

ASTM E-84-15a

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)

Water Vapor Sorption

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH

Water vapor absorbed and

adsorbed after 4 days:

0.4% by weight

Microbial Resistance

ASTM G21-15

Growth Rating: 0 (No growth)

Lattice Eclipse does not promote the growth of molds and mildew.

Color Fastness To Light

Lattice is suitable for indoor use only. Light fastness is dependent on use and exposure. Lattice Eclipse 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 Lattice Cleaning and Maintenance Guide for more information.

Finish

Non-woven. No pattern repeat but Workstation has a 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.



Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Lattice contains a minimum of 45% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Lattice is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant..

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