



**Autex
Acoustics®**

Lattice

Manufacturer's Guarantee

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.

Metric

Assembled size	Available in 3 assembled sizes Please refer to Lattice Data Sheet for individual dimensions
Thickness	12mm
Tolerance	(+/- 6%)
Density	192kg/m ³

**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

Lattice Eclipse is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabin Per Unit
Lattice Eclipse (12mm Direct Fix)	0.5	1.8	1.6	2.2	2.7	3.3	2.10
Lattice Eclipse (12mm Suspended 200mm)	0.3	1.0	1.8	2.3	3.1	3.6	2.05

Acoustic performance

Lattice Torus is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabin Per Unit
Lattice Torus (12mm Direct Fix)	0.5	1.5	1.6	1.8	2.1	2.4	1.75
Lattice Torus (12mm Suspended 200mm)	0.3	0.8	1.3	1.8	2.4	2.9	1.60

Acoustic performance

Lattice Trapezium is specifically designed to reduce and control reverberated (echo) noise in building interiors.

Frequency (Hz)	125	250	500	1000	2000	4000	Metric Sabin Per Unit
Lattice Trapezium (12mm Direct Fix)	2.1	4.1	3.1	4.0	4.4	4.6	3.90
Lattice Trapezium (12mm Suspended 200mm)	1.4	2.6	3.1	4.0	5.1	5.4	3.70

Service

For further information about Lattice, 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). Lattice is made from Autex Cube™ which contains a minimum of 80% previously recycled polyester fibre.

Suitable applications

Suspended and direct fixed.

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

(SMOGRARc): <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

Ceiling applications

Classification: B-s1, d0
(Cube™ 12mm)

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 13964:2014, 7191361939-MEC25/03-JV

ASTM E-84-15a

Class A, FS:0 - SD:45
(Cube™ 12mm)
RI4479-2

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 vapour sorption

ASTM C1104 / C1104M-13a

Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorbed after 4 days:
0.4% by weight

Microbial resistance

ASTM G21-15

Growth Rating: 0 (No growth)

Lattice does not promote the growth of moulds and mildew.

Colour fastness to light

Lattice is suitable for indoor use only. Light fastness is dependent on use and exposure. Lattice 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 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 fibre blending and lay-up which is an inherent feature of this product.

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