



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 Datasheet for individual dimensions
Tolerance	(+0.5mm) (+-0.5mm) (+-0.5mm)
Thickness	12mm
Tolerance	(+/- 6%)
Density	192kg/m <sup>3</sup>

**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 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 (12mm Direct Fix)	0.60	1.60	1.70	2.20	2.80	3.20	2.10
Lattice Eclipse (12mm Suspended 200mm)	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 (12mm Direct Fix)	0.80	1.70	1.60	1.90	2.80	2.30	1.85
Lattice Torus (12mm Suspended 200mm)	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 (12mm Direct Fix)	2.20	4.0	3.40	4.0	4.40	4.60	3.90
Lattice Trapezium (12mm Suspended 200mm)	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 Fibre from polyethylene terephthalate (PET). Lattice is made from Autex Cube™ which contains a minimum of 45% previously recycled polyester fibre.

### 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:

<5.0m<sup>2</sup>/s

As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1

(SMOGR<sub>Arc</sub>): <100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705 - 2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4 FI 4974

FAR 4055

### BS EN 13501-1:2018

Ceiling applications  
Classification: B-s<sub>2</sub>,d<sub>0</sub>  
(Cube™ 12mm)

Tested using BS EN ISO 11925-2:2020 and BS EN 13823-2:2020 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  
R14479-2

### 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/m<sup>3</sup> (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

### Microbial Resistance

ASTM G21-15  
Growth Rating: 0 (No growth)  
Lattice Eclipse 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 Eclipse 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 fiber blending and lay-up which is an inherent feature of this product.



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## 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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