



INTERIOR ACOUSTICS
**LATTICE ECLIPSE
DATASHEET**

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LATTICE ECLIPSE

Autex Lattice is a master at controlling the echo of background chatter and reducing reverberated noise whilst adding a unique piece to any space.

Lattice offers incredible performance by using fins. Because noise operates in different frequencies the various shapes of lattice are designed to tune into and cut out the babble. Lattice is available in 3 ready to go styles but our design team can create bespoke fins and shapes for your challenge. Lattice is available in a wide range of colours.

But Lattice doesn't only look good, it's high performing as well; specifically designed to reduce and control echo creating a more focused and productive space.

Just like the rest of our range, durability, longevity and performance are assured, leaving nothing left but your creative license.

APPLICATIONS

- Decorative and functional acoustic absorption system for office, education, retail, hospitality and commercial interiors
- Minimise noise in the interior environment and create a unique aesthetic

SPECIFICATION:

Suspended acoustic absorption system shall be Lattice Eclipse from thermally bonded polyester containing not less than 45% recycled material as manufactured by Autex. www.autexindustries.com

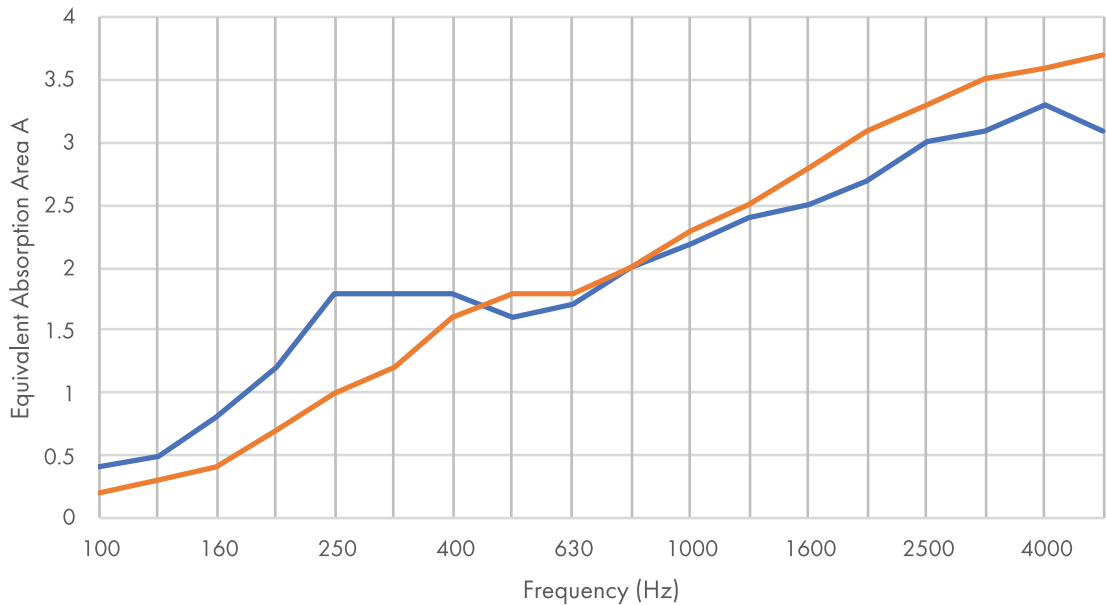
Suspended acoustic absorber 1197 x 2346 x 337mm (nom. depth), colour (L). Fire rating ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2.

Lattice to be supplied unassembled with 4 x 1m galvanised cables, 4 x ceiling mounts, 4 x "Velda" cable clips, 4 x alloy tube inserts. Install as per Autex Lattice Eclipse Install Instructions.



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EQUIVALENT ABSORPTION AREA ACCORDING TO ISO 354



Frequency (Hz)	University of Auckland Test Report Number	125	250	500	1000	2000	4000	Metric Sabine Per Unit
Lattice™ Eclipse 12mm Direct Fix	T1420-1	0.6	1.6	1.7	2.2	2.8	3.2	2.10
Lattice™ Eclipse 12mm Suspended 200mm	T1409-7	0.3	1.0	1.8	2.3	3.1	3.6	2.05

All results are reported in Metric Sabine - per unit. Equivalent sound absorption area according to ISO 354 Measurement of sound absorption in a reverberation room. Average Absorption (Sabins per unit) calculated at one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz. and rounded to the nearest 0.05.

PRODUCT SPECIFICATIONS

Product Name	Lattice Eclipse
Composition	100% Polyester Fibre (PET)
Assembled Size	1197mm x 2346mm x 337mm
Tolerance	(+0.5mm) (+0.5mm) (+0.5mm)
Thickness	12mm
Tolerance	(+/-6%)
Weight	2300 GSM

INSTALLATION

Install as per Autex recommendations. Install instructions are included in each pack or available on the website.

ACOUSTIC PERFORMANCE

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



LIGHT REFLECTANCE VALUES BY COLOUR

Lattice is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010

Pavilion	78
Opera	49
Savoye	47
Senado	45
Rosada	45
Acros	42
Falling Water	36
Bosco	29
Flatiron	25

Zenith	22
Lotus	16
Galaxy	16
Iron Bank	13
Pinnacle	8
Empire	6
Tree House	3
Petronas	2

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 5637.1:2015, as required by BCA Specification C1.10-4
FI 4974 dated 16th September, 2012 and FAR 4055-2 dated 8th October 2013

EN13501-1:2007+A1:2009

B - s2, d2
WF336911 dated 25th February 2014

ASTM E-84-15a

Class A, FS:0 - SD:45
RJ4479-2 dated 25th January, 2015

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 Eclipse does not promote the growth of moulds and mildew.

COLOUR FASTNESS TO LIGHT

Lattice Eclipse 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™ Eclipse Cleaning and Maintenance Guide for more information.

ENVIRONMENTAL

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

Autex Lattice Eclipse 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.

Autex Lattice Eclipse 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.

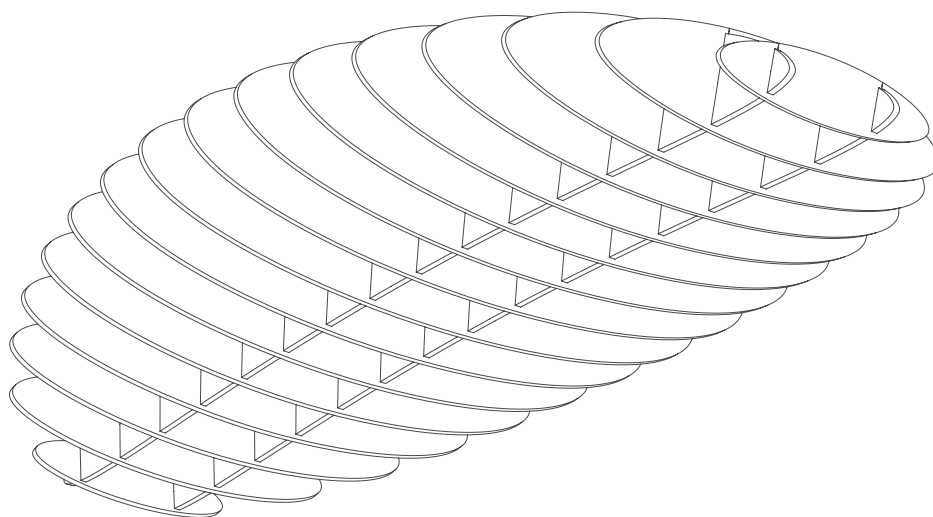
SERVICE

For further information about Lattice Eclipse, Autex Cube™ or any other Autex product, please contact your Autex account manager or visit our website and Autex Pty. Cube is proudly manufactured in New Zealand by Autex Industries Ltd and in Australia by Autex Pty Ltd.



AUTEX INDUSTRIES

DESIGN OPTIONS



ECLIPSE



Autex Industries

COLOUR OPTIONS

IRONBANK	ZENITH	SENADO
ROSADA	OPERA	ACROS
TREE HOUSE	LOTUS	BOSCO
PINNACLE	GALAXY	FALLING WATER
EMPIRE	FLATIRON	SAVOYE
PETRONAS	PAVILION	

MOQ's apply to some colours. To find out more, or to order a sample, please contact your Account Manager or visit our website.