



Product specifications

Product nameLattice™ EclipseComposition100% polyester fibre (PET)Assembled size1197 mm x 2346 mm x 337 mmTolerance(+/- 0.5 mm) (+/- 0.5 mm) (+/- 0.5 mm)Thickness12 mmTolerance(+/- 6%)

Installation

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

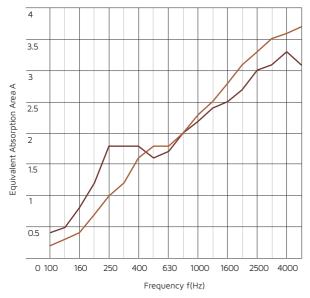
Acoustic performance

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

	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
•	Lattice Eclipse (12mm Direct Fix)	0.60	1.60	1.70	2.20	2.80	3.20	2.10
•	Lattice Eclipse (12 mm Suspended 200 mm)	0.30	1.0	1.80	2.30	3.10	3.60	2.05

All results are reported in metric sabin - 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 Composition Assembled size Tolerance Thickness Tolerance Lattice[™] Torus 100% polyester fibre (PET) 1450 mm x 1450 mm x 293 mm (+/- 0.5 mm) (+/- 0.5 mm) (+/- 0.5 mm) 12 mm (+/- 6%)

Installation

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

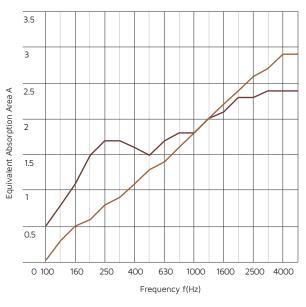
Acoustic performance

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

Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service Lattice Torus 12 mm direct fix - test no:T1420-2 Lattice Torus 12 mm suspended 200 mm - test no:T1420-3

	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
•	Lattice Torus (12 mm 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

All results are reported in metric sabin - 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 nameLattice™ TrapeziumComposition100% polyester fibre (PET)Assembled size1180 mm x 2380 mm x 290 mmTolerance(+/- 0.5 mm) (+/- 0.5 mm) (+/- 0.5 mm)Thickness12 mmTolerance(+/- 6%)

Installation

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

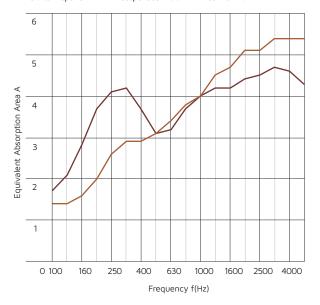
Acoustic performance

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

	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per uni
•	Lattice Trapezium (12mm direct fix)	2.20	4.0	3.40	4.0	4.40	4.60	3.90
•	Lattice Trapezium (12 mmsuspended 200 mr	_{n)} 1.50	2.50	3.20	4.10	5.0	5.40	3.70

All results are reported in metric sabin - 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.

Sound Absorption Coefficients according to ISO 354. University of Auckland Testing Service Lattice Trapezium 12 mm direct fix - test no:T1326-16 Lattice Trapezium 12 mm suspended 200 mm - test no:T1326-14





Product specifications

Fire ratings Lattice is made from Cube™ 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,asrequired by BCA Specification C1.10-4 Fl 4974 FAR 4055

BS EN 13501-1:2018 Ceiling applications Classification: B-s2,d0 (Cube™ 12 mm) Tested using BS EN ISO 11925-2:2020and BS EN 13823:2020andclassified in accordance with BS EN 13501-1:2018,asrequired by BS EN 13964:2014. EU-I20-000268-B

ASTM E-84-15a Class A, FS:O- SD:45 RJ4479-2

VOC emissions Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered 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 adsorped after 4 days: 0.4% by weight

Microbial resistance ASTM G21-15 Growth rating: O (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 layup, 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 Lattice requires the services of a specialist cleaning company. Refer to the Lattice Care and Maintenance Guide for more information.

Environmental

Autex Acoustics is committed to best practice through our ISO 14001certified Environmental Management Systems.

Lattice contains a minimum of 60% 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 fibre and does not contain formaldehyde binders. Autex Acoustic polyester fibre support safer indoor air quality and will not become a potential airborne pollutant.

Service

For further information about Lattice, Cube or any other Autex Acoustics product, please contact your account manager or visit our website.

Light reflectance values by colour

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

Pavilion	80
Орега	49
Savoye	46
Senado	45
Rosada	44
Acros	40
Falling Water	34
Parthenon	33
Beehive	33
Bosco	29
Flatiron	24
Zenith	23

Galaxy	15
Lotus	14
Ironbank	13
Cavalier	12
Muralla	9
Gherkin	8
Empire	5
Sargazo	4
Pinnacle	3
Tree House	3
Petronas	2



Caring for the environment

Lattice is manufactured using 100% polyester fibre and contains a minimum of 60% recycled fibre (from PET plastics). Our products are designed to be recycled at the end of their life too.

We have continual improvement programmes in which we implement a range of initiatives to mitigate the environmental 'hotspots' that we have identified. Our products are GreenRate Level A, LCARate Gold and PHD level platinum certified. Lattice is made from Cube which is DeclareSM certified to be Red List free and can be used in Living Building Challenge projects. Autex has a high functioning Environmental Management System (ISO 14001) to enhance our environmental performance and contribute to sustainable development.





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