



Product overview

Lattice is a range of hanging sculptures built from a grid of acoustic fins. Covering a greater surface area than traditional parallel fin systems, Lattice effectively absorbs echo and reverberation in interior spaces. Lattice is made from 100% polyester fiber and is lightweight and structurally sound—holding form over its lifetime.

Sustainable material

- Carbon neutral product
- Zero carbon manufacturing
- Recycled content
 - >80% recycled material
- Low VOC and CDPH compliant
 - <0.092 mg/m³ (7 days)
- Zero waste manufacturing initiative
- Sustainable supply chain and anti-modern slavery

Environmental credentials

- EPD – compliant with ISO 14025 and EN 15804
- Declare – Red List free (third party verified)
- ISO 14001 Certified Environmental Management
- Health Product Declaration
- CDPH Standard



Certifying your green building

Autex Acoustics® products meet criteria for WELL, LEED, Green Star, and BREEAM building rating systems, helping you achieve certification for your project. For support and guidance on available rating system points please visit autexacoustics.com, or speak with your Autex Acoustics account manager.

Specification

Suspended acoustic absorption system shall be Lattice made from thermally bonded polyester containing not less than 80% recycled material as manufactured by Autex Acoustics. autexacoustics.com

Direct fixed acoustic absorber Lattice Eclipse/Torus/Trapezium, color (), sound absorption NRC 1.00 – if direct fixed to ceiling: NRC 1.00. Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003, Classification: Group 1, BS EN 13501-1:2018: B - s1, d0.

Lattice Eclipse and Trapezium to be supplied unassembled with 4 x 39" galvanized cables,

4 x ceiling mounts, 4 x "Velda" cable clips, 4 x alloy tube inserts. Install as per Lattice Install Instructions.

Suspended acoustic absorber Lattice Eclipse/Torus/Trapezium (nom. depth), color (). Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003. Classification: Group 1, BS EN 13501-1:2018: B - s1, d0.

Lattice Torus to be supplied unassembled with 8 x 39" galvanized cables, 8 x ceiling mounts, 8 x "Velda" cable clips. Install as per Lattice Install Instructions.



Product specifications

Product name	Lattice Eclipse
Composition	100% polyester fiber (PET)
Assembled size	47.1" x 92.4" x 13.3"
Tolerance	(+/- 0.02") x (+/- 0.02") x (+/- 0.02")
Thickness	1/2"
Tolerance	(+/-6%)
Weight	7.54 oz/ft ²

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.

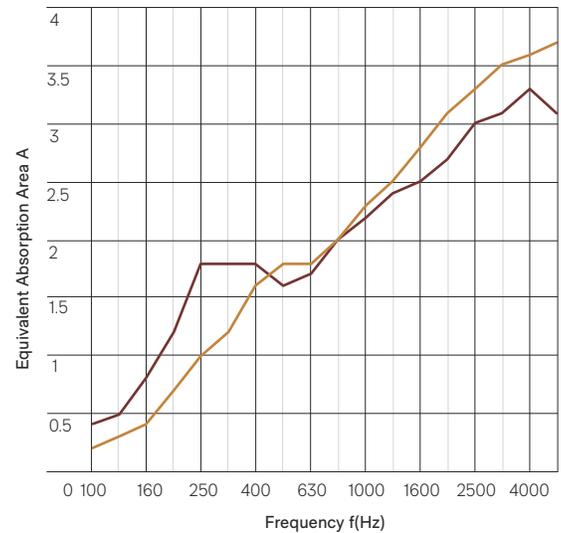
	Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
● Lattice Eclipse (1/2" direct fix)		0.5	1.8	1.6	2.2	2.7	3.3	2.10
● Lattice Eclipse (1/2" suspended 787")		0.3	1.0	1.8	2.3	3.1	3.6	2.05

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 centered 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 Eclipse 1/2" direct fix - test no: T1420-1

Lattice Eclipse 1/2" suspended 787" - test no: T1409-7



Product specifications

Product name	Lattice Torus
Composition	100% polyester fiber (PET)
Assembled size	57.1" x 57.1" x 11.5"
Tolerance	(+/- 0.02") x (+/- 0.02") x (+/- 0.02")
Thickness	1/2"
Tolerance	(+/-6%)
Weight	7.54 oz/ft ²

Installation

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



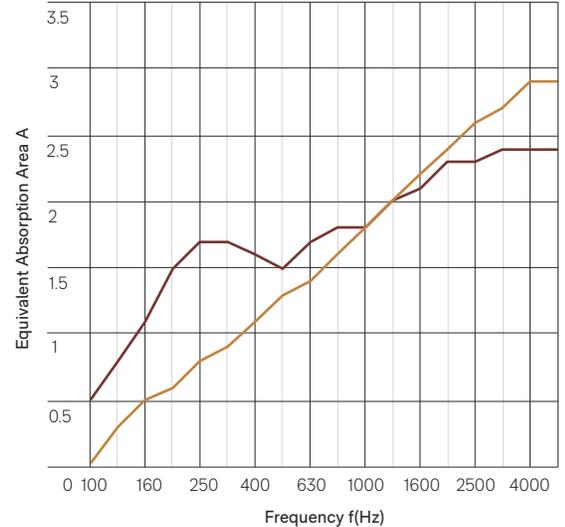
Acoustic performance

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

Frequency (Hz)	125	250	500	1000	2000	4000	Metric sabin per unit
Lattice Torus (1/2" direct fix)	0.5	1.5	1.6	1.8	2.1	2.4	1.75
Lattice Torus (1/2" suspended 7.87")	0.3	0.8	1.3	1.8	2.4	2.9	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 centered 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 Torus 1/2" direct fix - test no: T1420-2
Lattice Torus 1/2" suspended 7.87" - test no: T1420-3



Product specifications

Product name	Lattice Trapezium
Composition	100% polyester fiber (PET)
Assembled size	47.1" x 92.4" x 13.3"
Tolerance	(+/- 0.02") x (+/- 0.02") x (+/- 0.02")
Thickness	1/2"
Tolerance	(+/-6%)
Weight	7.54 oz/ft ²

Installation

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

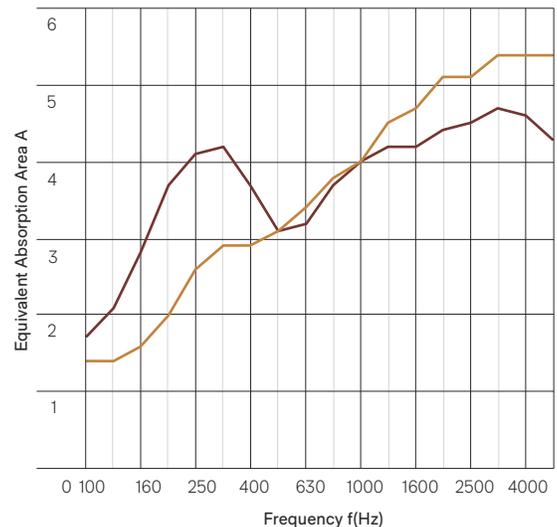
Acoustic performance

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 unit
Lattice Trapezium (1/2" direct fix)	2.1	4.1	3.1	4.0	4.4	4.6	3.90
Lattice Trapezium (1/2" suspended 7.87")	1.4	2.6	3.1	4.0	5.1	5.4	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 centered 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 1/2" direct fix - test no: T1326-16
Lattice Trapezium 1/2" suspended 7.87" - test no: T1326-14





Product specifications

Fire ratings

Lattice is made from Cube™ as the base material. Cube (1/2") 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 NCC Specification 7: Fire Hazard properties: S7C4
FI 4974
FAR 4055

BS EN 13501-1:2018

Ceiling applications
Classification: B-s1, d0
(Cube™ 1/2")
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™ 1/2")
RJ4479-2

Water vapor sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapor absorbed and adsorped after 4 days:
0.4% by weight

Microbial resistance

ASTM G21-15
Growth rating: 0 (No growth)
Lattice 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 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 Lattice requires the services of a specialist cleaning company. Refer to the Lattice Care and Maintenance Guide for more information.

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 color

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

Acros	40	Opera	49
Beehive	33	Parthenon	33
Canyon	19	Pavilion	80
Caspian	6	Petronas	2
Cavalier	12	Pinnacle	3
Empire	5	Sargazo	4
Falling Water	34	Savoye	46
Flatiron	24	Senado	44
Gherkin	8	Terrace	24
Highland	19	Tree House	3
Muralla	9		

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