



INTERIOR ACOUSTICS  
**LATTICE TRAPEZIUM  
DATASHEET**

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## LATTICE TRAPEZIUM

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 colors.

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 the 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 Trapezium from thermally bonded polyester containing not less than 45% recycled material as manufactured by Autex. [www.autexacoustics.com](http://www.autexacoustics.com)

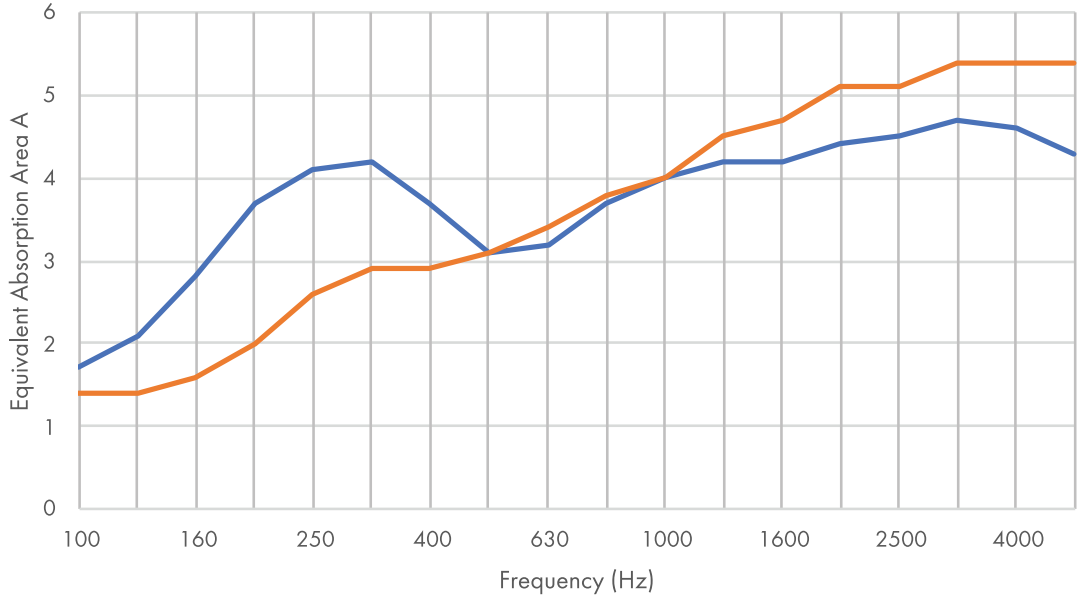
Suspended acoustic absorber 46.4" x 7.81' x 11.42" (nom. depth), color ( ). Fire rating ASTM E-84-15a: Class A, FS:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 - 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2.

Lattice to be supplied unassembled with 4 x 39" galvanised cables, 4 x ceiling mounts, 4 x "Velda" cable clips, 8 x alloy tube inserts. Install as per Autex Lattice Trapezium Install Instructions.



Autex Industries

## 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
<b>Lattice™ Trapezium 1/2" Direct Fix</b>	T1326-16	2.2	4.0	3.4	4.0	4.4	4.6	<b>3.90</b>
<b>Lattice™ Trapezium 1/2" Suspended 7.87"</b>	T1326-14	1.5	2.5	3.2	4.1	5.0	5.4	<b>3.70</b>

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	Lattice Trapezium
Composition	100% Polyester Fibre (PET)
Assembled Size	47.1" x 92.4" x 13.3"
Tolerance	(+0.02") (+0.02") (+0.02")
Thickness	1/2"
Tolerance	(+/-6%)
Weight	7.54 oz/ft <sup>2</sup>

### INSTALLATION

Install as per Autex 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 (echo) in building interiors.



## LIGHT REFLECTANCE VALUES BY COLOR

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

Pavilion	78
Opera	49
Savoie	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: <5.0m<sup>2</sup>/s  
As required by NZBC C/VM2

### AS ISO 9705 - 2003

Classification: Group 1  
(SMOGRARC): <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  
F14974 dated 16th September, 2012 and FAR 4055-2 dated 8th October 2013

### EN13501-1:2007+A1:2009

B - s<sub>2</sub>, d<sub>2</sub>  
WF336911 dated 25th February 2014

### ASTM E-84-15a

Class A, FS:0 - SD:45  
R14479-2 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/m<sup>3</sup> (7 days)

## WATER VAPOR SORPTION

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

## MICROBIAL RESISTANCE

ASTM G21-15  
Growth Rating: 0 (No growth)  
Lattice Trapezium does not promote the growth of moulds and mildew.

## COLOR FASTNESS TO LIGHT

Lattice Trapezium is suitable for indoor use only. Light fastness is dependent on use and exposure. Lattice Trapezium 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 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™ Trapezium 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 Trapezium 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 Trapezium 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.

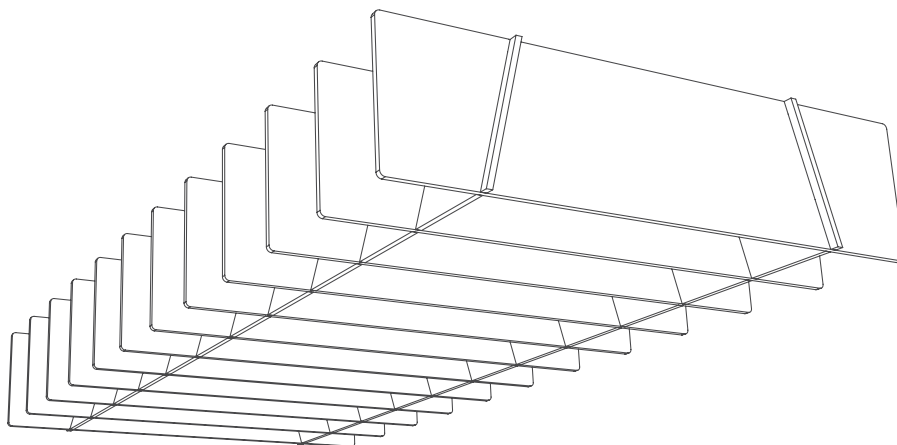
## SERVICE

For further information about Lattice Trapezium, 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



TRAPEZIUM





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## COLOR OPTIONS

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

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