

QuietSpace®

**AUTEX**  
Interior Acoustics

# LATTICE

SUSPENDED ACOUSTIC ABSORBER

Quietspace®  
LATTICE ECLIPSE

Quietspace®  
**LATTICE**

TRAPEZIUM | ECLIPSE | TORUS

Redefine your environment with Quietspace® Lattice; a premium range of suspended acoustic absorbing baffles constructed from Autex Cube™. Artistically designed with functionality in mind; Lattice is ideal for reducing reverberated noise and controlling the echo of background chatter.

Constructed from Autex Cube™; Lattice is made from 100% polyester and manufactured in New Zealand under Autex's ISO 14001 accredited Environmental Management System. Containing a minimum of 65% post-consumer recycled material, Lattice is 100% recyclable.

Quietspace® Lattice is a non-toxic, non-allergenic and a non-irritable product making it ideal for environments where health and safety is key including hospitality, offices and the education sector.

#### Key Features and Benefits

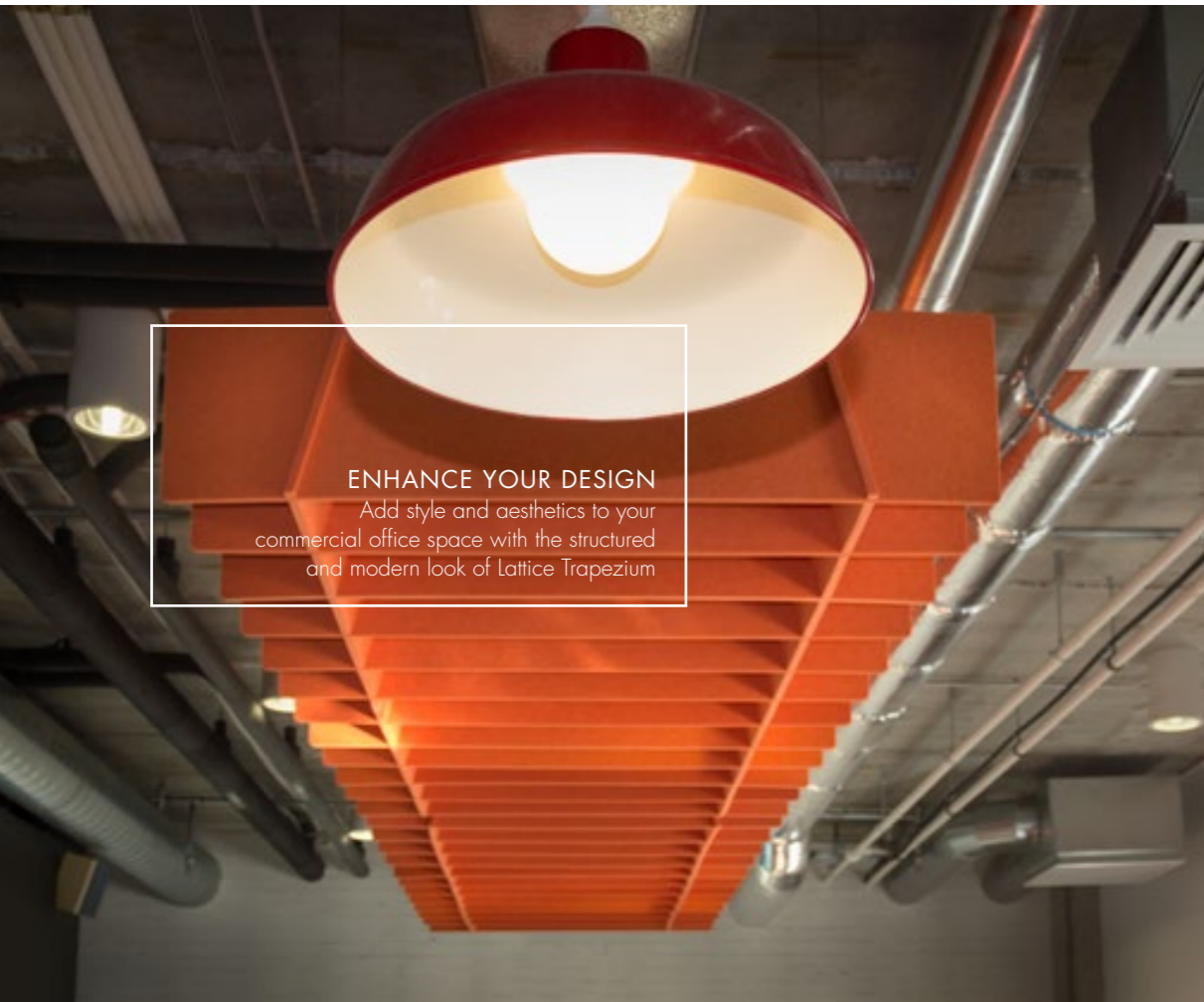
- Three unique design options to choose from: **Trapezium, Eclipse and Torus**
- Premium sound absorption and excellent acoustic performance
- Highly durable providing long term stability and performance
- Light weight and easy to install
- Available in a large range of colours
- Made in New Zealand
- Manufactured using a minimum of 65% post-consumer recycled material
- Made from 100% polyester fibre without chemical binders and certified low VOC
- Safe, non-toxic, non-allergenic and non-irritable
- Manufactured under ISO 9001 and ISO 14001 accredited Quality and Environmental Management Systems
- Does not contain any Red List chemicals \*

\* Green Building Rating Compatibility certificate can be found on [www.envirospec.co.nz](http://www.envirospec.co.nz) or from your Autex Account Manager

#### 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
- A modern and interesting piece for both retro-fit spaces and new builds

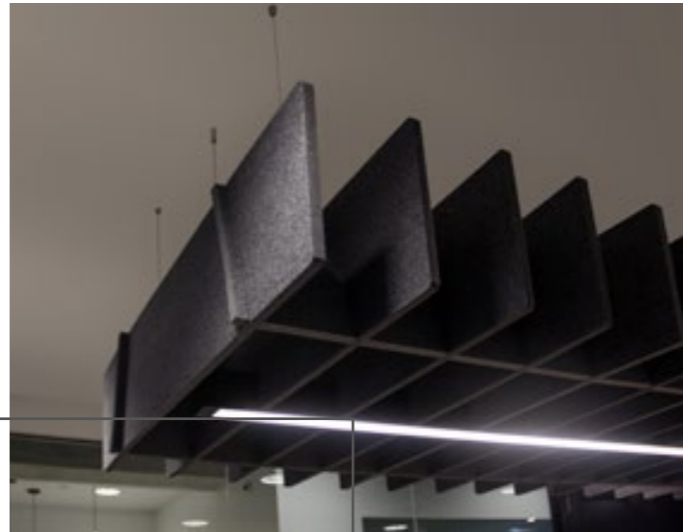
**AUTEX**   
Interior Acoustics



**ENHANCE YOUR DESIGN**  
Add style and aesthetics to your commercial office space with the structured and modern look of Lattice Trapezium



**PIONEERING NEW DESIGN**  
Autex can customise Lattice to suit your space



**MAKE A STATEMENT**  
Lattice can help incorporate colour into an otherwise neutral environment





VEND HQ  
AUCKLAND

LATTICE Trapezium  
PINNACLE

# LATTICE

## FOR OPEN PLAN OFFICES

Like many office spaces, point of sale specialists *Vend* use a multi-purpose boardroom to facilitate meetings and conferences between their offices. For this to be effective, their conferencing approach requires a realistic virtual presence between participants. Acoustics and speech intelligibility are fundamental components in successful meetings and video conferences.

Consisting of low ceilings, polished concrete floors and large windows, *Vend's* boardroom presents itself as an aesthetically pleasing space but also provides high acoustic reflectance. This meant that conference calls across *Vend's* international locations were difficult as voice clarity was compromised. Sound quality was also affected when larger meetings required the partitioning doors to be opened up, resulting in noise and echo flooding between the open office and boardroom.

Turning to Autex was an easy choice for Toni Brando of *Material Creative* – since 2010, Autex have been their number one choice for advice, design and manufacturing of interior acoustic products. Their brief was for an affordable solution that was visually outside the norm while complimenting *Vend's* vibrant interior design and most importantly minimised reverberation.

Made from 100% recyclable polyester and achieving a phenomenal minimum NRC rating of 1.3; *Quietspace® Lattice in Trapezium* was an ideal solution for this project. With an exceedingly high level of sound absorption, Lattice in the right conditions can greatly reduce the reverberation at the standard talking level of 250Hz. Following advice from Autex, four 2.4m long Lattice were suspended in *Vend's* meeting room to achieve the best acoustic outcome.

Due to the stepped ceiling in *Vend's* boardroom, careful consideration was taken to ensure the Lattice was fixed correctly. With vast experience in acoustic install, *NomadTika* were able to complement the existing lighting and ceiling design. Fixing the Lattice so the downlights shone through the Lattice fins created a unique effect perfect for *Vend's* space.

When asked about *Quietspace® Lattice*; *Vend's* People and Culture Administrator Jordyn Riley says, "It looks beautiful and extra awesome", making it a great fit for *Vend's* branding and company culture. Most importantly, since installing the Lattice, *Vend* have enjoyed the benefits of having absolutely no echo in their boardroom, resulting in happier staff and more productive meetings.

CLIENT  
Toni Brando of  
*Material Creative*  
for *Vend*

PHOTOGRAPHY  
Mark Scowen  
of *Intense Photography*

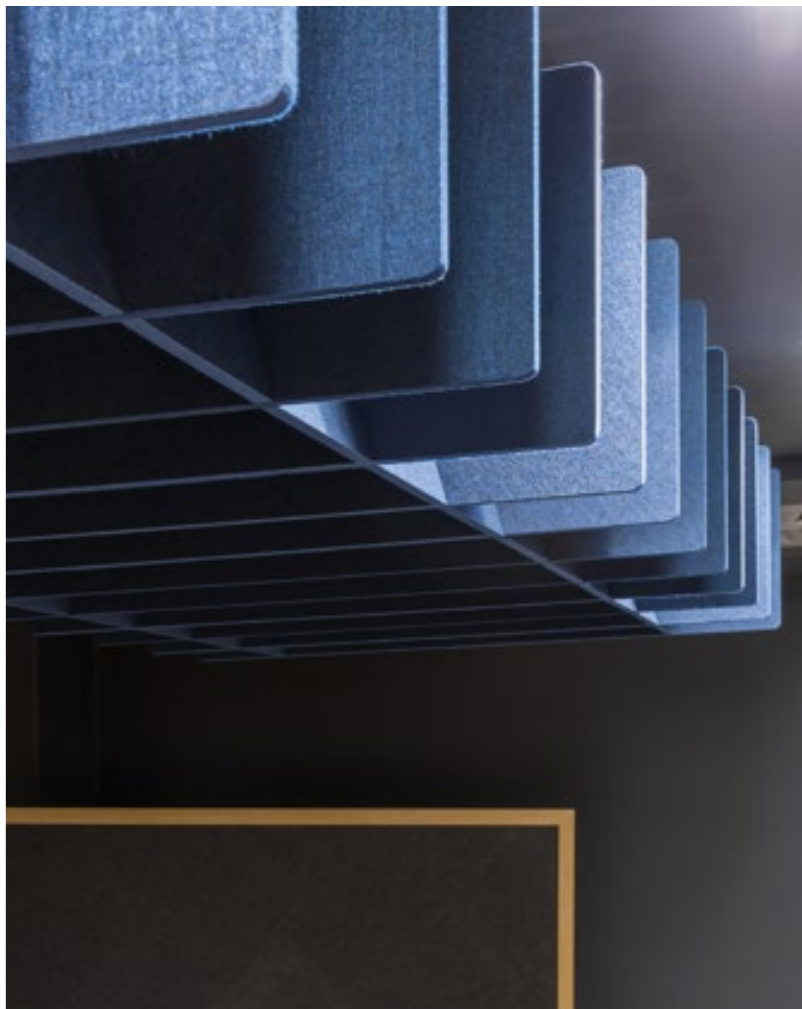
INSTALLER  
*NomadTika*



**SUBTLE AND QUIET**  
Lattice can help enhance a room's acoustics without compromising existing design



**FOR LARGE AND SMALL SPACES**  
For large rooms, Trapezium can be paired and placed end-on-end to provide extra length and performance



LATTICE

Eclipse  
ZENITH

"The Lattice has dramatically changed the quality of sound in our meeting rooms as well as adding an element of art rather than just a formal sound panel"

GHD  
AUCKLAND

# LATTICE

## FOR SUPERIOR SOUND CONTROL

For project management firm *GHD*, having a video conferencing room to provide a realistic virtual presence between participants was an important feature in the design of their new Auckland office. Adopting a traditional approach of a large room with glass walls, *GHD* faced an acoustic problem with speech intelligibility affecting the success of video conferencing and meetings.

Although modern conferencing technologies have various means of controlling what is transmitted and what is electronically filtered out, good acoustics in both the sending and receiving room create a complete system that is both constructive and effortless to use.

Approached by *GHD* to provide an acoustic solution, Autex suggested their recently developed Quietspace® Lattice - a suspended acoustic absorbing system with outstanding performance credentials. Boasting a minimum Noise Reduction Coefficient (NRC) of 1.3; Quietspace® Lattice has exceptional sound absorption qualities while providing an original and striking suspended feature.

For the smaller of the two meeting rooms, *GHD* opted for the curved Lattice Eclipse. Suspended from the ceiling by 200mm, Lattice Eclipse greatly improved the acoustics in the meeting room. Choosing the vibrant colour Zenith resulted in a creative feature that compliments the surrounds without being distracting.

To get a greater spread of acoustic performance in the larger conference room, Autex provided the two-piece system – Lattice Torus. The two piece functionality of Torus creates the same NRC value of the Trapezium and Eclipse styles but enables you to pinpoint key areas across a selected space. Employing the contrasting tones of Ironbank, Acros and Opera; *GHD* were able to create an attractive and stand out feature in their meeting room.

Staff at *GHD* instantly noticed the difference in the quality of sound which has made meetings and video conferencing easy and effective. The Lattice also added "an element of art" to the space which signals a new approach to acoustic design.

CLIENT  
GHD Limited

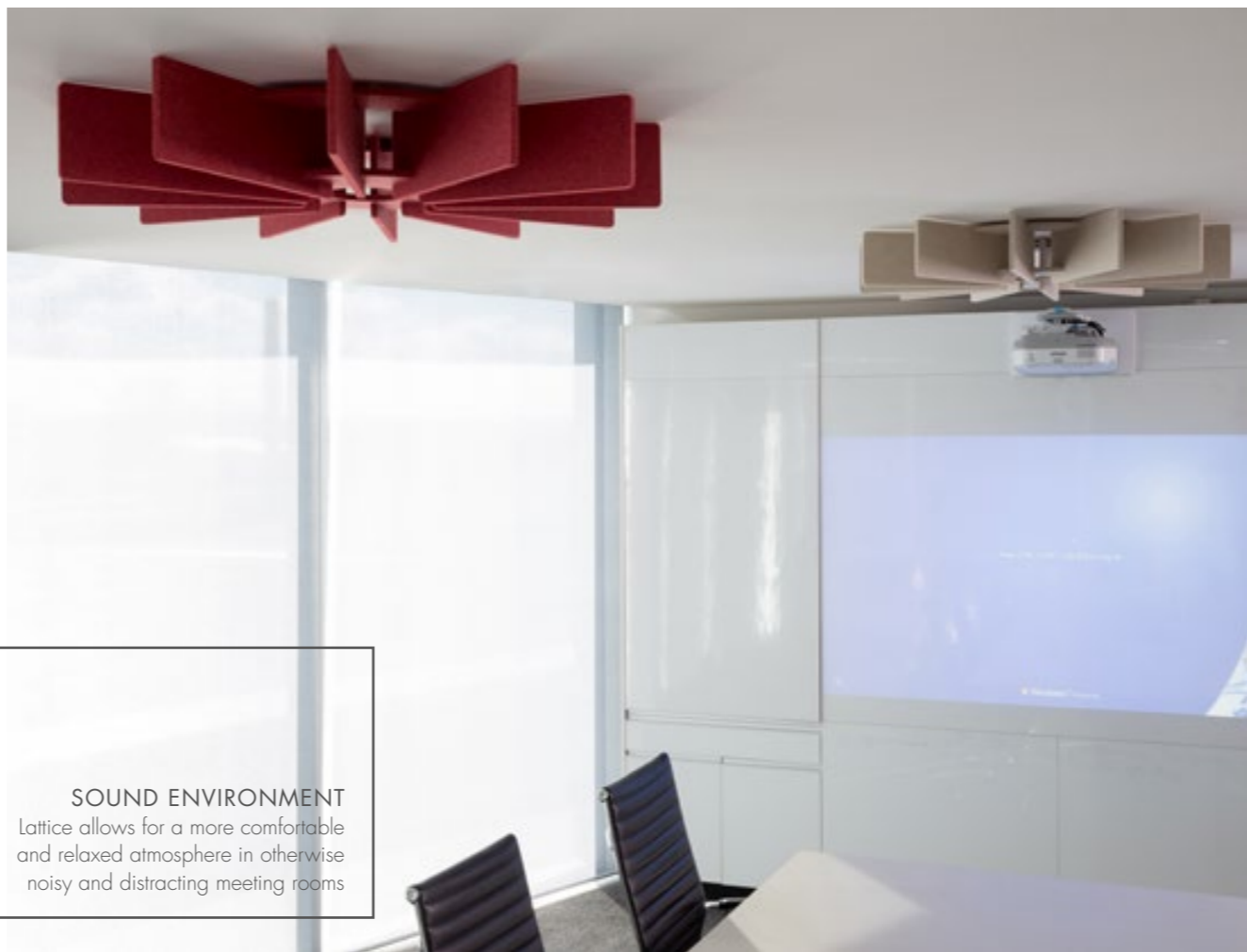
PHOTOGRAPHY  
Mark Scowen  
of Intense Photography

CONTRACTOR  
Autex Industries Ltd



**SPOILT FOR CHOICE**

With an impressive and slick colour range, Lattice has the versatility to create a space that is unique and inviting



**SOUND ENVIRONMENT**

Lattice allows for a more comfortable and relaxed atmosphere in otherwise noisy and distracting meeting rooms

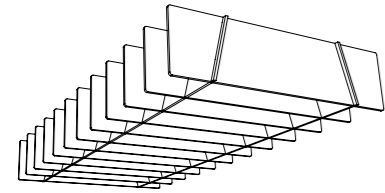


**APPLICATION MADE SIMPLE**

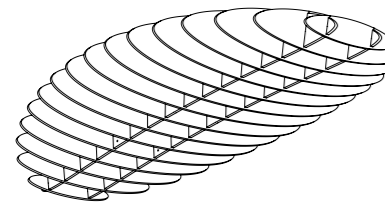
Lattice is not restricted to new builds, but can be easily incorporated into your existing space



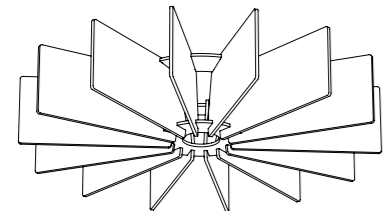
**Product Name** Quietspace® Lattice  
**Composition** 100% Polyester Fibre (PET)  
**Style Options**



**Style** Trapezium  
**Width** 1180mm at widest point  
**Length** 2380mm at longest point  
**Height** 290mm at highest point



**Style** Eclipse  
**Width** 1197mm at widest point  
**Length** 2346mm at longest point  
**Height** 337mm at highest point



**Style** Torus  
**Radius** 725mm  
**Diameter** 1450mm  
**Height** 293mm at highest point

### Colour Options



### Acoustic Performance

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

### Effective Absorption Per Unit (m<sup>2</sup> Sabine)

According to ISO 11654

#### Trapezium

Frequency (Hz)	125	250	500	1000	2000	4000
Direct Fix to Ceiling	2.2	4.0	3.3	4.0	4.4	4.5
200mm from Ceiling	1.5	2.5	3.1	4.1	5.0	5.4

#### Eclipse

Frequency (Hz)	125	250	500	1000	2000	4000
Direct Fix to Ceiling	0.6	1.6	1.7	2.2	2.7	3.2
200mm from Ceiling	0.3	1.0	1.7	2.3	3.0	3.6

#### TORUS (Effective Absorption Area Per Pair)

Frequency (Hz)	125	250	500	1000	2000	4000
Direct Fix to Ceiling	1.0	2.9	3.2	3.5	4.3	4.7
200mm from Ceiling	0.7	1.5	2.5	3.6	4.8	5.7

### Fire Ratings (Conducted on 12mm Cube™)

#### 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>  
 As required by BCA C1.10  
Fl 4974 dated 16th September, 2012

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

B - s2, d2  
WF 336911 dated 25th February, 2014

### VOC Emissions

Autex polyester has been tested by Cetec Pty Ltd (Report: CV080408) for chemical emission and is classified as low VOC. VOC concentration: 0.01 mg/m<sup>3</sup>.

### Moisture Absorption

Polyester fibre when exposed to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture, mould or mildew and will not rot or deteriorate in intended use situations.

### Environmental

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

Cube™ products contains a minimum of 65% previously recycled polyester fibre (PET bottle-flake) ensuring comparatively low embodied energy. Off-cuts and manufacturing waste is re-used or recycled wherever possible.

Cube™ 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 Cube™ or any other Autex product, please contact your Autex Account Manager or visit our website.

Cube™ is a trademark of Autex Industries Limited and Autex Pty. Cube™ is proudly manufactured in New Zealand by Autex Industries Ltd and in Australia by Autex Pty Ltd.

# AUTEX

Founded in New Zealand in 1967; Autex is a manufacturer and distributor of 100% recyclable polyester products. From our humble beginning of manufacturing carpet underfelts, Autex have led the way in developing innovative, high-quality polyester products in a range of solutions designed to meet their customer's needs.

Pioneering new materials and systems; Autex's range of interior acoustics have enhanced the sound clarity in schools, theatres and commercial buildings in over 25 countries including New Zealand, Australia, South East Asia, the United Kingdom and United Arab Emirates (UAE).

As well as a dedicated focus to proactive and innovative product development, Autex are committed to best practices and are proud to be accredited in ISO 9001 and ISO 14001 Quality and Environmental Management Systems. Autex continue to achieve new environmental standards on the global stage and strive to improve efficiency and transparency at every step of the production process.

Autex manufactures an expanding range of interior acoustic products made from 100% recyclable polyester, designed to reduce echo and reverberated sound. With unlimited design potential, Autex's range of interior acoustics and wallcoverings can be printed on, custom cut to shape and specified to fit any application where both sound control and design aesthetic is crucial.

Incorporating Autex's interior acoustic products into architectural design greatly diminishes reverberated noise by absorbing sound and creating a comfortable and productive environment. For acoustic solutions where both form and function are paramount, the Autex Interior Acoustics range can fit any architectural approach and add a unique finishing touch to your project.



# AUTEX



## Interior Acoustics

AN ISO 9001 AND ISO 14001 ACCREDITED COMPANY

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