



Acoustek 
TILES COLLECTION



Contents

5	About Acoustek
7	Why Acoustek Treatment?
9	Environmental Benefits & Sustainable Design
10	Why Acoustic Tiles
12	Cavasinni Acoustic Tile Range
14	Roma & Vitale
16	Milano
28	Newport Acoustic Tile Range
20	Diffuse
21	Woven
22	Geo
23	Shingle
24	Mistral 600 Series Acoustic Tile Range
26	Leaf & Lunar
28	Wave & Bamboo
30	Decorative Finishes



About Acoustek \

With 40 years design/manufacturing experience within the commercial furniture industry, we have seen varied trends and created products relevant to designer requirements.

The grand epiphany of 'the open office,' which began its rampant spread through the majority of offices over a decade ago, gave birth to new design concepts. The 'industrial look' soon emerged within offices and restaurants complete with introduction of polished concrete floors and similar hard surfaces that reflected noise.

This radical shift against conventional private offices was certain to boost communication and improve workflow. The open plan restaurant allowed more seating and the industrial look was firmly embraced.

However despite the designers best intentions, the resultant increased reverberate noise. Lack of privacy and more uncontrolled interactions have all been associated with higher stress, diminished ability to concentrate and diminished productivity.

Conversation Friendly Restaurants' soon became a rarity which gave rise to further studies on the effects noise has upon us.

Tests done by Russell Keast (Associate Professor of Food and Sensory Science - Deakin University) proved that:

- Significant levels of background noise. Reduce a patrons ability to detect flavour.
- Difficulty conversing and ordering also hinders positive experience causing frustration for clients and staff alike.

In essence, those cutting edge polished concrete floors, exposed brick or tiled walls all look excellent but are more 'visual experience focused' than 'quiet and content' productivity, or enjoyable ambient dining experience.

Our range of acoustic products were designed to combat reverberate noise. Our acoustic wall tiles will absorb up to 85% of reverberate noise and provide aesthetically pleasing designs with which to decorate or 'face lift' any area, their added benefit of noise attenuation makes them a 'sound investment'.

Fact

After bad service, restaurant noise is the most common dining complaint.





Why Acoustek Treatment \

Introducing an acoustic screen or barrier between a noise source and an individual will reduce the noise by an average of 8dB, yet the human ear perceives 50% noise reduction.

Noise. An irritant, a pollutant, a health hazard, yet accepted by many as 'normal'.

A good acoustic office environment can:

- Increase motivation by 60%
- Increase complex task efficiency by 50%
- Increase problem solving by 20%
- Lower adrenaline levels by 30%

Reverberate noise - an infinite number of sound reflections that will keep the 'source sound' audible for a short period of time.

Hard surfaces will reflect the sound more and bounce the noise wave back to meet its source, whereby it then joins the second wave of noise transmission and subsequently a third etc.

If enough surfaces produce strong audible reflections, persons within that environment will be bombarded with several versions of each noise emitted with each version only slightly delayed in time relative to the previous wave noise.

The latter is evident in many restaurants where the assault on ears can vary from chairs scraping floors, foot steps on hard surfaces, but more often general conversation where individual volume tends to increase relevant to the interfering sound reverberation, thereby contributing to the further mayhem.

Such mayhem propagates into an unhealthy auditory sphere formation bombarding the ears and all manner of other sensory perceptions.



Fact

70% of office workers say they could be more productive in a less noisy environment and 72% of office workers are dissatisfied with their speech privacy.



Environmental Benefits

Acoustek Lighting, 3D Tiles, Beams and Acoustic Screens are manufactured from thermally bonded polyester fibre with a minimum of 60% recycled fibre content from PET packaging such as empty drink bottles.

- Products with recycled content reduce greenhouse gas emissions.
- High reusable potential.
- The products are 100% recyclable.
- Volatile organic compounds (VOCs) generated in the manufacturing process is classified as low (0.01 mg/m3).
- No ozone-depleting gases are used during the manufacturing process.
- No red list chemicals are present.
- Safe, non-irritant, non-toxic, and non-allergenic.



Sustainable Design

All Acoustek Lighting Solutions are available as hard or soft-wired, and comply with AS/NZ UK/EU standards.

Acoustek 3D Tiles are certified GreenTagCert™ GreenRate Level A.

Suitable for use in Green Star™ projects. GreenTagCert™ is a certification and rating tool for building professionals approved by the Green Building Council of Australia (GBCA Physical).

AS standards and BS standards:

AS 1530.3, AS 3837, BS 476

Tile Description And Properties

Melting point: 250°C

Vapour pressure: Not applicable

Volatiles: Nil

Flash point: None allocated

Other properties: Non-allergenic, low irritant, low flame response, resilient

Ingredients: Organic, long chain synthetic polymers

Max service temp: 110°C

Alkalinity: pH 7.8 (pH 7 is neutral)

Moisture Absorption: Exposure to an atmosphere of 50°C and 95% RH for four days gives moisture absorption of less than 0.2% by volume

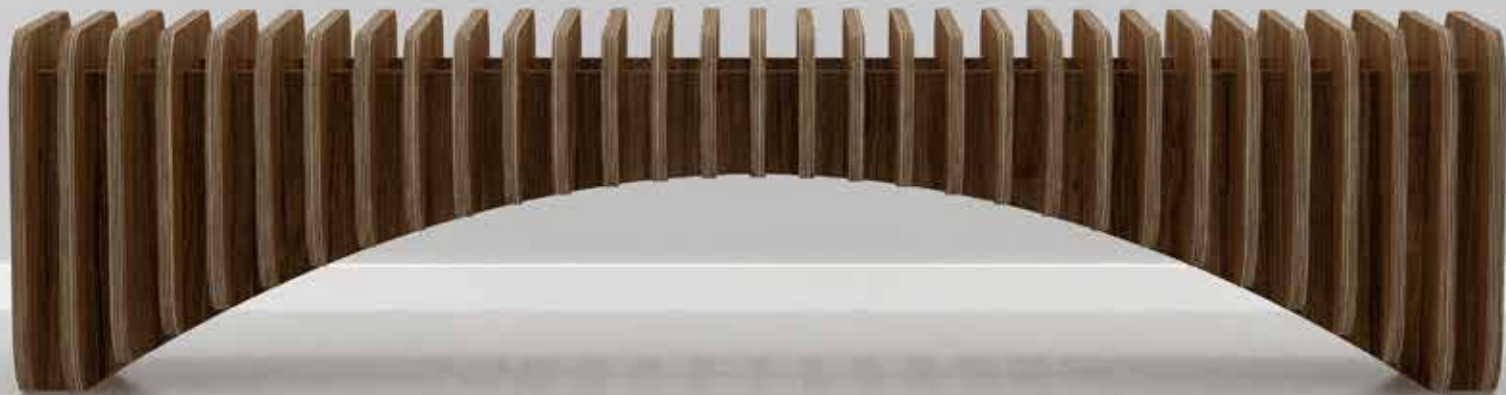
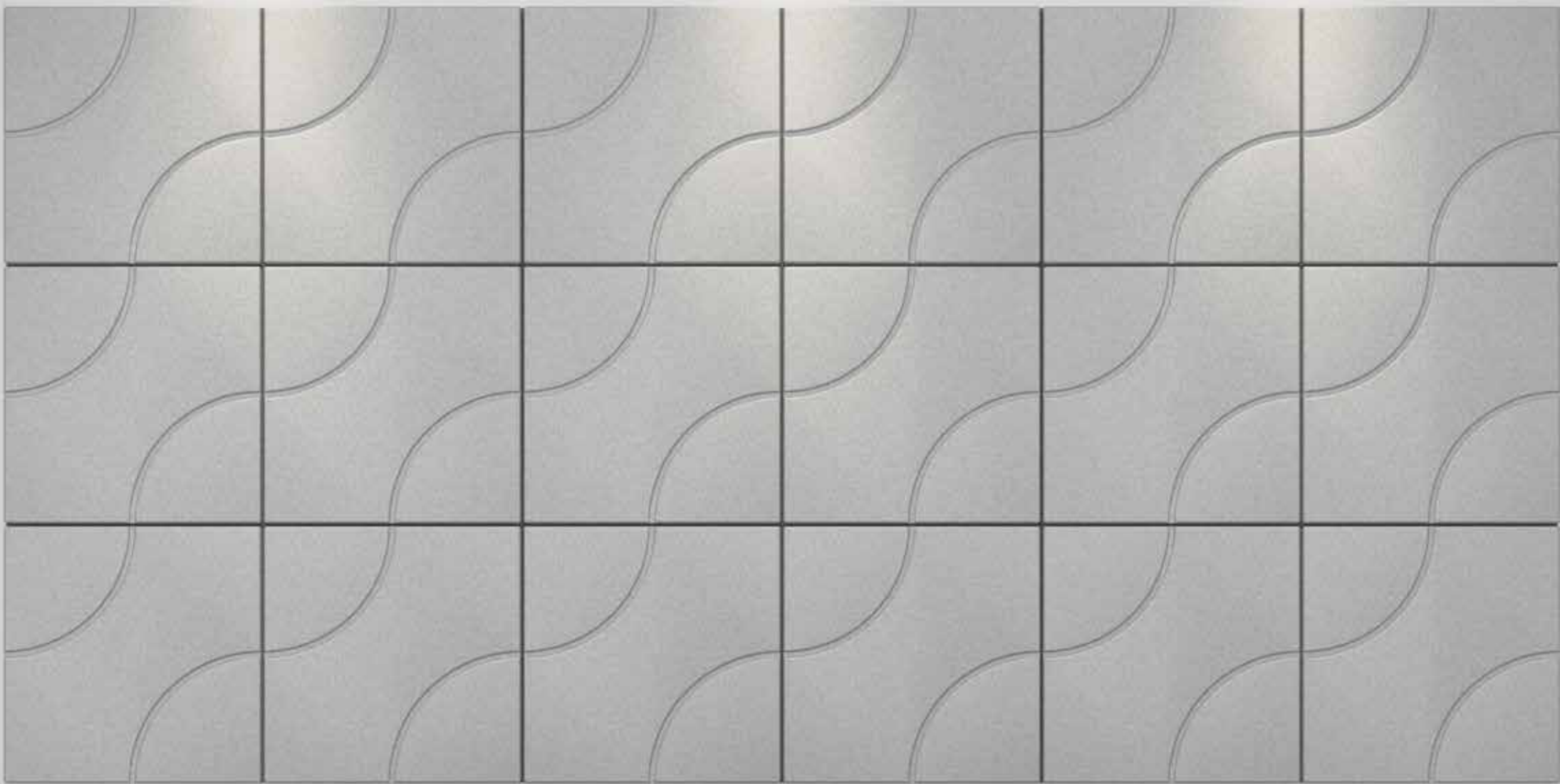
Fire Hazard Properties: The following results were obtained when subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3

Ignitability | 7

Spread of Flame | 0

Smoke Developed | 5

Heat Evolved | 2



Why Acoustic Tiles



Introducing an acoustic screen or barrier between a noise source and an individual will reduce the noise by an average of 8dB, yet the human ear perceives 50% noise reduction.

Noise. An irritant, a pollutant, a health hazard, yet accepted by many as 'normal'.

A good acoustic office environment can:

- Increase motivation by 60%
- Increase complex task efficiency by 50%
- Increase problem solving by 20%
- Lower adrenaline levels by 30%

Reverberate noise - an infinite number of sound reflections that will keep the 'source sound' audible for a short period of time.

Hard surfaces will reflect the sound more and bounce the noise wave back to meet its source, whereby it then joins the second wave of noise transmission and subsequently a third etc.

If enough surfaces produce strong audible reflections, persons within that environment will be bombarded with several versions of each noise emitted with each version only slightly delayed in time relative to the previous wave noise.

The latter is evident in many restaurants where the assault on ears can vary from chairs scraping floors, foot steps on hard surfaces, but more often general conversation where individual volume tends to increase relevant to the interfering sound reverberation, thereby contributing to the further mayhem.

Such mayhem propagates into an unhealthy auditory sphere formation bombarding the ears and all manner of other sensory perceptions.



Cavasinni Collection



Tuscan, Roma, Milano.

A striking yet simple collection of acoustic tiles, the soft curvature of Tuscan allows the pattern to be horizontal or vertical.

Whilst the soft curves of Roma are contrasted by the recessed detail designed into Milano. The latter tile having a more defined character to Roma but both patterns merge perfectly.

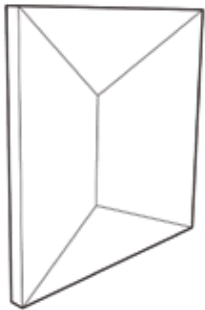




Roma

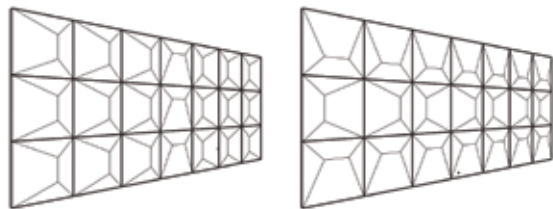
The simple creativity within this pattern continues the concept of design layout versatility, some suggestions listed on our website. Blend all in the same colour to create an effective but unobtrusive pattern. Add colour to make a statement that will compliment your chosen decor.

Roma will also merge with Milano to give added feature or contrast.



Tile Size: 500 x 500 x 55mm

Pack Size: 9 Tiles = 2.25sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



Tuscan

The purposeful yet simple undulation in this acoustic tile's design adds vital yet subtle interference with sound waves, aligned, offset, horizontal or vertical, this tile allows individual arrangement to achieve your bespoke design.



Tile Size: 500 x 500 x 60mm

Pack Size: 9 Tiles = 2.25sqm coverage

Cavasinni acoustic tile range replaces Celano & Torino with Tuscan



Milano

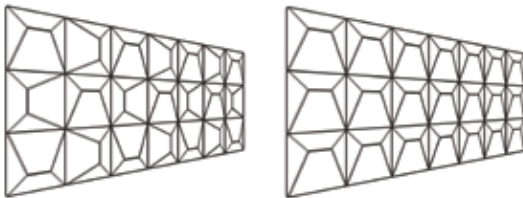
The character of this tile is similar to, but different from Roma due to its emphasised pattern detail, both patterns will however co-ordinate together to create further interest.

Milano's pattern's enhanced 3 dimensional effect creates a bolder statement that responds with colour. A more definite statement or toned to suit the ambience of surrounding colours, the choice is yours..



Tile Size: 500 x 500 x 55mm

Pack Size: 9 Tiles = 2.25sqm coverage





Newport Collection



Diffuse, Woven, Geo & Shingle

The aim of the Newport Collection is to achieve design flexibility, be bold or placid, all have their own character that can be developed into your preferred layout. All in the pursuit of arresting reverberate noise.





Diffuse

Based upon a standard 'diffuser pattern' this acoustic tile provides an effective vertical or horizontal pattern with depth and contour. Striking but simple, this acoustic tile absorbs up to 85% of reverberate noise. Soft or bold colours show the character of this tile and enhance the decor of any room.

Tile Size: 500 x 500 x 55mm

Pack Size: 9 Tiles = 2.25sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



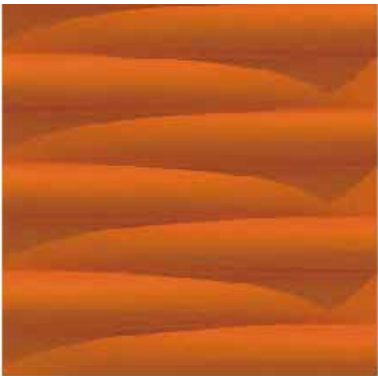
Woven

'The aim of the Newport Collection is to achieve design flexibility, be bold or placid, all have their own character that can be developed into your preferred layout. All in the pursuit of arresting reverberate noise.

Tile Size: 500 x 500 x 25mm

Pack Size: 9 Tiles = 2.25sqm coverage

Woven replaces Urban



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



Geo

Interesting 'Geo'metric pattern of this tile adds interest and yet further option to suit individual flare and design.

Tile Size: 500 x 500 x 20mm

Pack Size: 9 Tiles = 2.25sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



Shingle

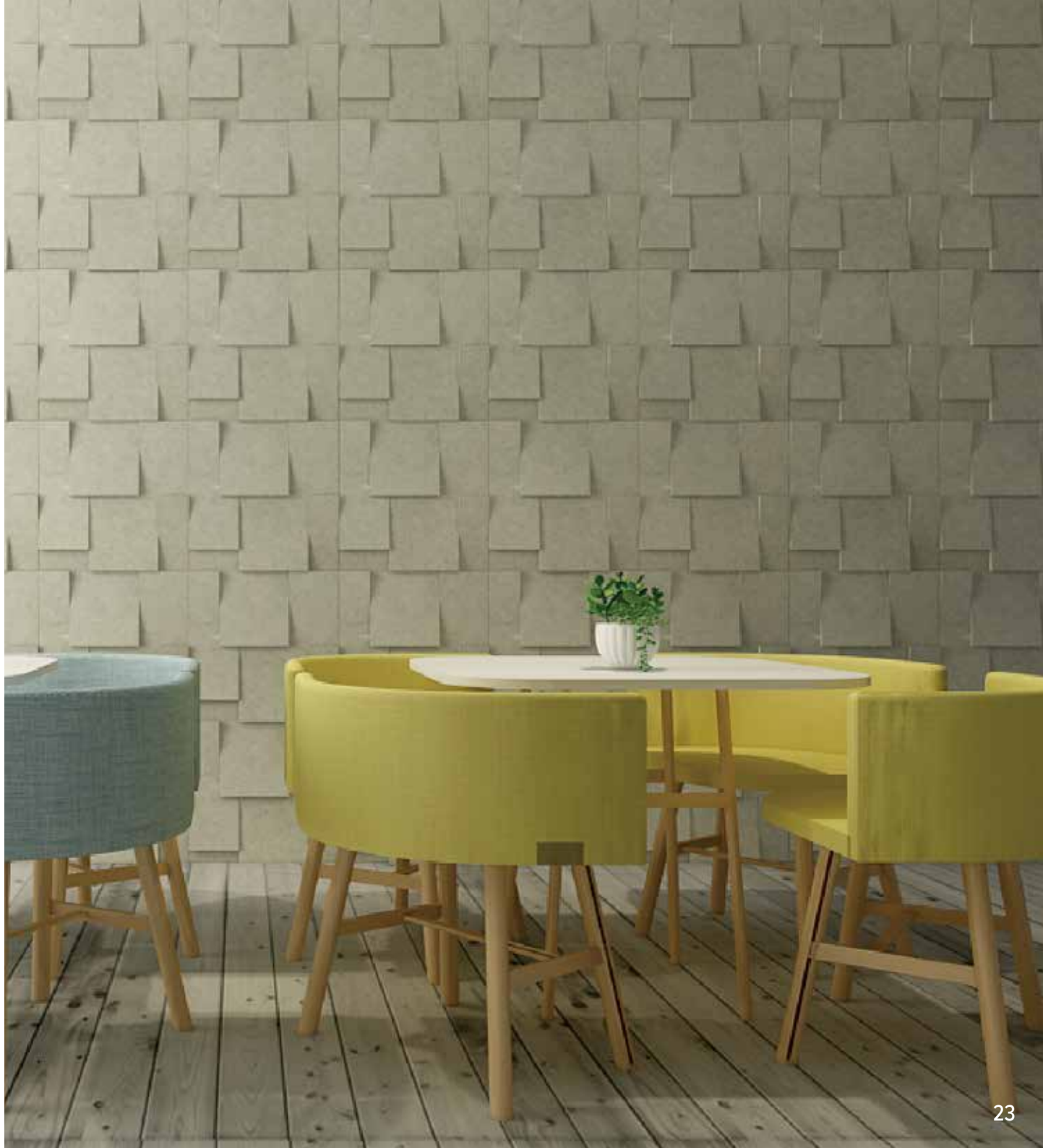
'Clean crisp style with simplicity yet speaks organised structure of a shingle wall or roof, the image of which can be varied with a change of direction. This new and complementary addition to Newport shares the same properties to combat reverberate noise, enhance decor and create an ambient style of your choice.

Tile Size: 500 x 500 x 55mm

Pack Size: 9 Tiles = 2.25sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



Mistral Collection



Leaf, Lunar, Wave, Bamboo

Our latest range of acoustic tiles are slightly larger in size being 600mm square and 74mm depth/height. The addition of these 4 unique patterns combined with our 21 colour options allows individual choice for either a flamboyant or harmonious 'sound statement'.

This range of tiles will achieve the higher NRC ratings and cover a larger space per carton of 9 tiles = 3.24sqm





Leaf

Green of Spring or Dulse colour of Autumn, create your seasons, this 3 dimensional tile offers yet further pattern with which to enhance an individual environment and the pursuit of reverberate noise absorption.

Tile Size: 600 x 600 x 74mm

Pack Size: 9 Tiles = 3.24sqm coverage



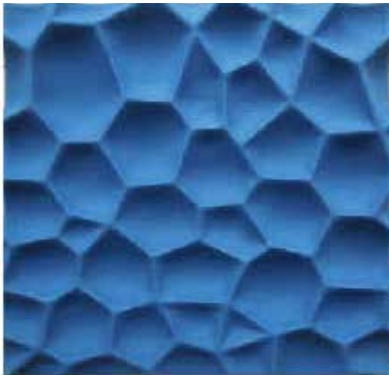
Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.

Lunar

The craters of this pattern aid diffusion of sound and interest to a bespoke design, the 74mm depth of the Mistral range ensures Class A noise absorption. Lunar offers yet further pattern with which to enhance an individual environment and the pursuit of reverberate noise absorption.

Tile Size: 600 x 600 x 74mm

Pack Size: 9 Tiles = 3.24sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.



Wave

Wave, a definite but still subtle curvature reminiscent of the ocean waves created by the mediterranean's Mistral winds. This 3 dimensional tile offers yet further pattern with which to enhance an individual environment and the pursuit of reverberate noise absorption.

Tile Size: 600 x 600 x 74mm

Pack Size: 9 Tiles = 3.24sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.

Bamboo

Based upon Nature's 'fractal' design, this acoustic panel of the Mistral Collection mimics the effect of Bamboo growth, creating an individual and effective look. This pattern can be mounted vertically or horizontally and offers yet further design flexibility in the pursuit of arresting reverberate noise and background echo.

Tile Size: 600 x 600 x 74mm

Pack Size: 9 Tiles = 3.24sqm coverage



Check our website for layout suggestions and install instructions.
Combine colours to create even more individuality.

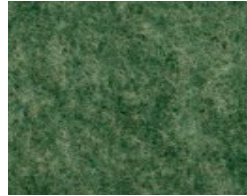
Acoustic Decorative Finishes \



RUBY



APPLE



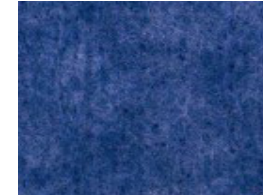
AMAZONITE



AUBERGINE



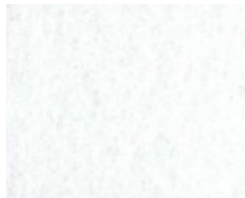
AGATE



LAPIS



MARINE



AQUA



FLANNEL



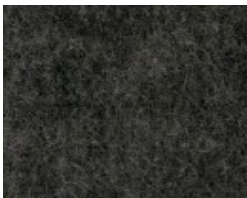
SCHIST



CHARCOAL



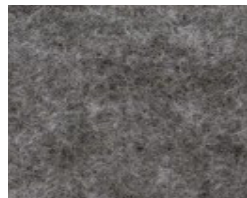
SLATE



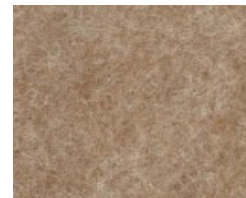
WHETSTONE



EBONY



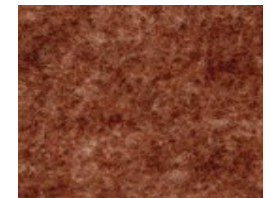
GRANITE



PEBBLE



BISCUIT



DULSE



MULBERRY



MOSS



PUMICE





The contents of this brochure are copyright protected and may not be reproduced in any form without prior written consent of Acoustek. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification, please refer to the Acoustek website for the latest version of this document. The purchaser should independently determine the suitability of the product for the intended use and application.

* Tolerance in Size: Length +/- 5mm; Width +/- 5mm; Depth +/- 2mm.

www.acoustek.com.au | www.acoustek-uk.com | sales@acoustek.com.au