



ASCOT
COMMERCIAL GROUP
ACOUSTIC PRODUCT
GUIDE



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About Acoustics

? What is sound?

Sound is energy vibrating through substance. All sounds are caused by vibrations - the back and forth motion of molecules. The molecules collide with each other and pass on energy as a moving wave. Sound waves can travel through air, water, wood or metal.

- ✓ Sound travels through the air at 343 metres per second at 20° C
- ✓ Reflection is the sound that bounces off a hard surface
- ✓ Sound transmission pass through a wall or ceiling (i.e. from one room to another)
- ✓ Sound flanking travels over or around a wall or ceiling (i.e. through a gap or a join)
- ✓ Reverberation time is the time taken for a sound to fade away or be absorbed (RT)
- ✓ Flutter echo is a series of echo's that occur in rapid succession

- ✓ Amplitude is a measurement of volume (decibels)
- ✓ Human hearing frequency range is 20 – 20,000 Hz
- ✓ Average Human Speech frequency range is 100-250 Hz
- ✓ Frequency of sound is measured in hertz (Hz), or the number of waves that pass a fixed point in a second

The way we deal with sound treatments is largely by absorbing sound, or lowering the reverberation time. Each of the products available at Ascot Commercial Group have been tested to a NRC rating. **NRC stands for Noise Reduction Coefficient**, which is a measurement of sound absorption.

- **0 NRC** rating means there is no sound absorption
- **0.45 NRC** rating means the product absorbs 45% of the sound that penetrates it
- **1 NRC** rating means the product absorbs 100% of the sound that penetrates it



Peel and Stick Tiles

Peel and Stick is an acoustic fabric tile that features a self-adhesive backing.

Features & Benefits

- ✓ Delivers excellent acoustic performance
- ✓ Pinnable, hook-and-loop receptive surface
- ✓ Adhesive backing allows for easy install

NRC 0.40



- 600x600 tiles
- 10 or 12 mm thick

Cube

Cube™ is a lightweight and semi-rigid acoustic panel that can be used as a wall covering, creative medium, and stand-alone feature.



Features & Benefits

- ✓ Excellent acoustic performance
- ✓ Extensive colour range
- ✓ Solid colour through thickness, so no edging or trim required



NRC 0.70 - 24 mm thick



NRC 0.45 - 12 mm thick

Quietspace Panels

Quietspace® Panel is a high-performance acoustic panel suitable for wall and ceiling applications.



Features & Benefits

- ✓ Delivers excellent acoustic performance
- ✓ Available in three solid colors
- ✓ Can be applied to the front verface for more colour options
- ✓ Available in 25,50, 75 or 100 mm thick

NRC 0.75 - 25 mm thick

NRC 1.00 - 50 mm thick



- 2400x1200 sheets



Quietspace Ceiling Panels with Expansion Joints



Groove

Groove, a cube panel with added architectural charm, is a customization tool - a series of precise, angular cuts designed to tactfully bend and distort light.



Features & Benefits

- ✓ Adds depth and nuance
- ✓ Gives texture to interior spaces
- ✓ Has a large range of standard pattern options



3D Tiles

3D Tiles are elegant, high-performing, acoustic wall art designed to provide effective acoustic control for any interior environment.

Features & Benefits

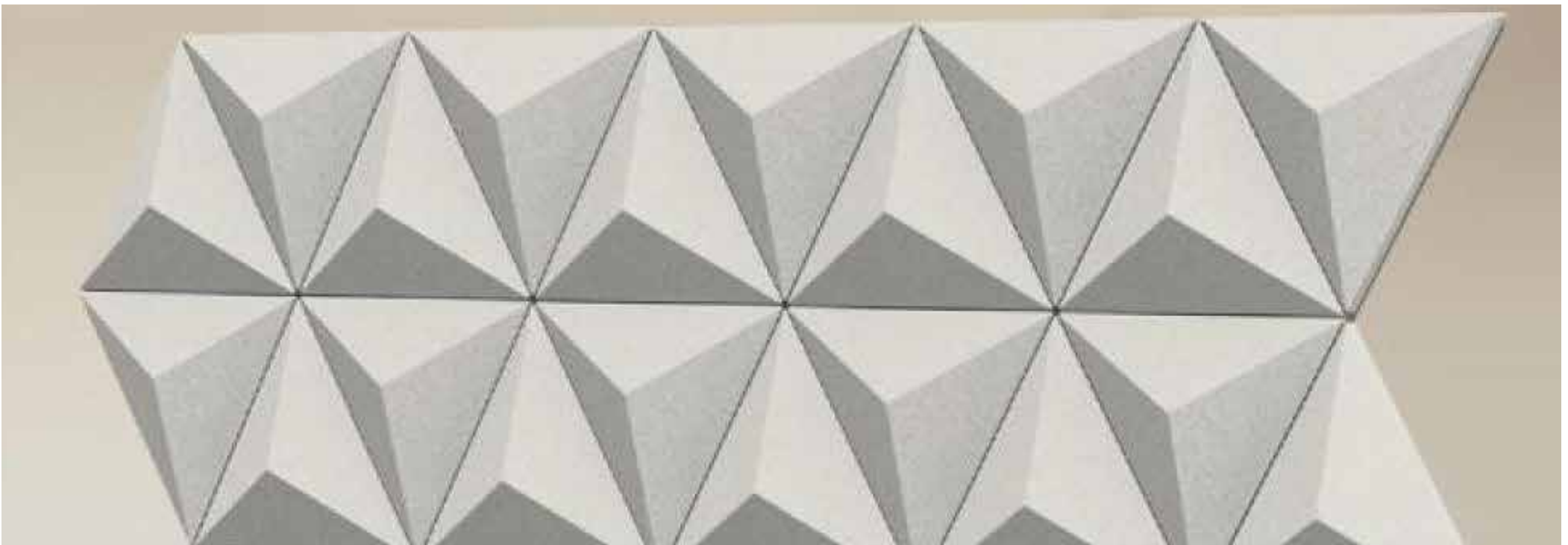
- ✓ Controls noise in interior environments and create unique sculptural features
- ✓ The hollow design creates an air gap improving acoustic performance
- ✓ Lightweight
- ✓ Includes mounting clips for easy install
- ✓ Available in eight designs



● NRC 0.65 to 0.90

● 575x575 mm

● Range of styles



Etch Panels

Etch™ decorative fabric can be used as a standalone wall covering. Selecting one of Autex's acoustic backing options can also provide a wide range of acoustic absorption.



Features & Benefits

- ✓ Great way to display architectural elements, logos, themes, etc.
- ✓ Fully-customisable
- ✓ Large range of base colours





Cascade

Cascade™ is a collection of acoustic hanging screens that can be suspended or fixed to ceiling space.



Features & Benefits

- ✓ Floor to ceiling privacy
- ✓ Design/customisation flexibility
- ✓ Non-permanent fixture
- ✓ Flexible fixing methods
- ✓ Subtle acoustic solution





Composition

Composition® is an acoustic fabric made in solid colors that is designed to be used in the same way as a wallpaper.



Features & Benefits

- ✓ Targets speech frequencies
- ✓ Improves speech intelligibility
- ✓ Pinnable, hook and loop receptive surface
- ✓ An alternative finish to paint

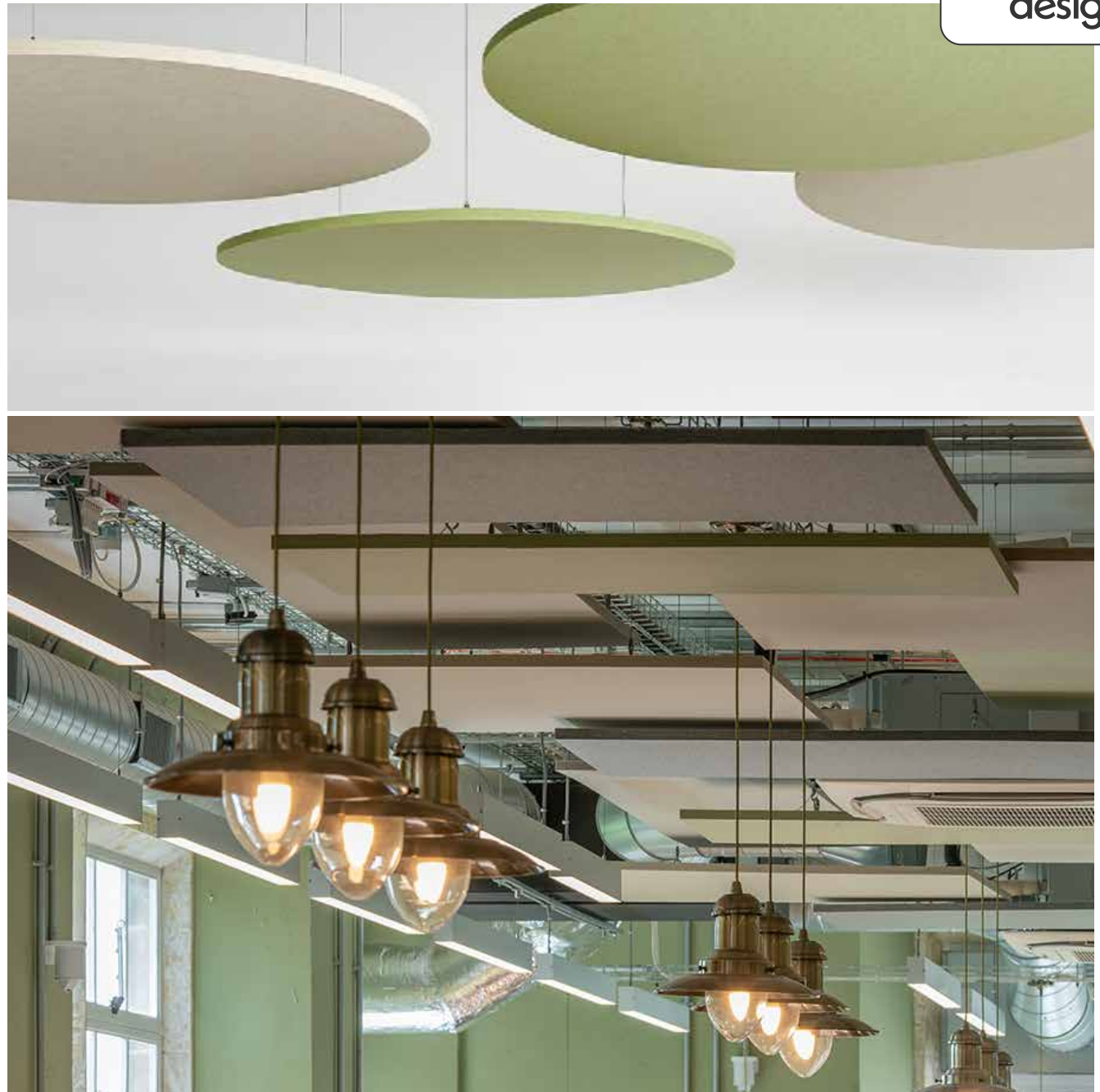
Horizon

Horizon™ is a range of floating acoustic panels, cut in a variety of design options that could create a cloud-like illusion when suspended.



Features & Benefits

- ✓ Maintains high ceilings
- ✓ Solid colour and smooth finish, with no edging or capping required
- ✓ Large range of shapes and colours





Lattice

Lattice is a collection of acoustic baffles that are suspended or direct fixed to ceiling space.



Features & Benefits

✓ Delivers excellent acoustic performance

- ✓ Adjust suspension height to target different acoustic frequencies
- ✓ Available in three standard designs and a sophisticated colour palette
- ✓ Gridded configuration designed to absorb echo and reverberation







Frontier Fins

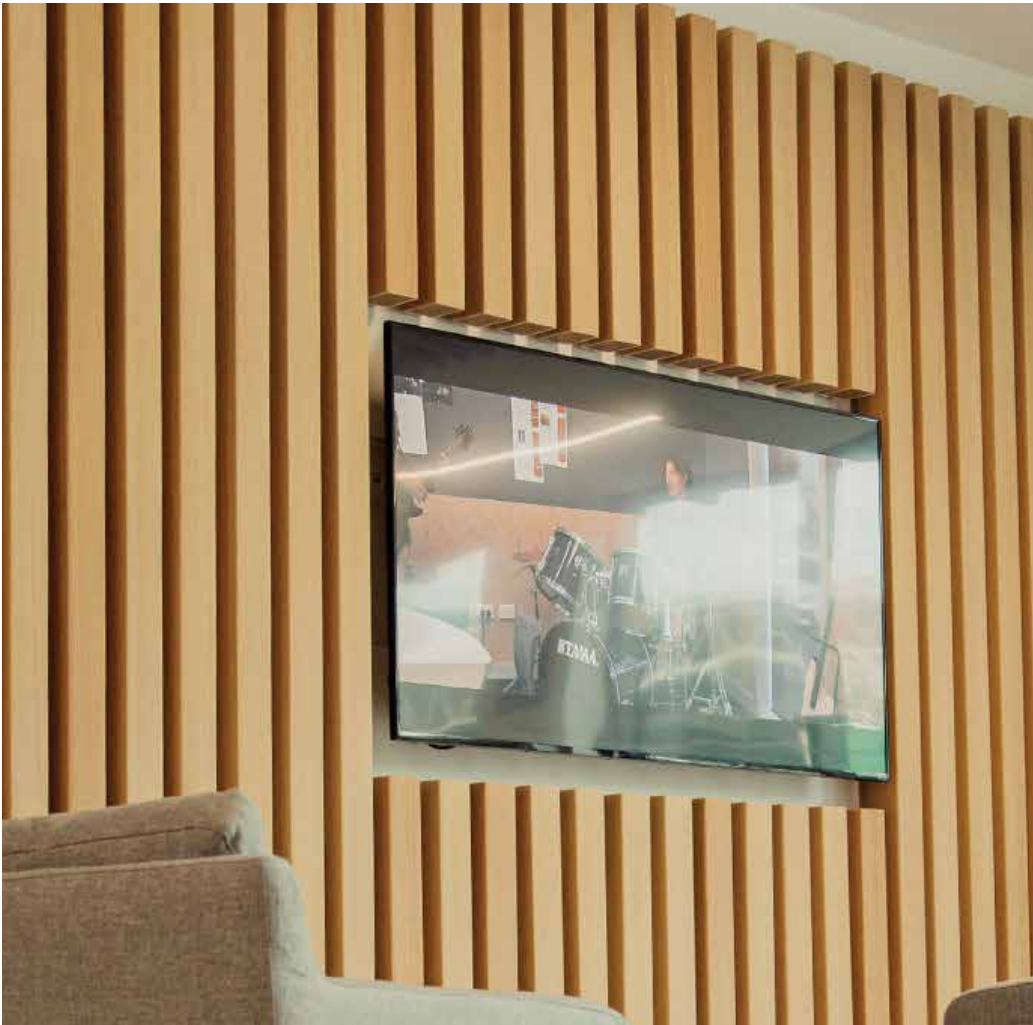
An innovative acoustic baffle system designed for targeted sound absorption for ever-changing open-plan workspaces, retail, education, and hospitality applications.



Features & Benefits

- ✓ Create a more comfortable and personalised experience by tuning the acoustic effect - simply move the fins or rafts closer together or further apart.
- ✓ Mount fins or rafts flush to the ceiling to 'blend in', fix them to rails or suspend them using extension rods
- ✓ Frontier can be configured to fit the space perfectly
- ✓ Available in nine styles





Frontier Beam

A designer acoustic beam system, that has the appearance of a blade wall or battens, yet constructed in acoustic product.



Features & Benefits

- ✓ Beams can be made to any length or to suit any ceiling design
- ✓ Won't detract from feature ceilings including heritage buildings
- ✓ Can be wall or ceiling mounted



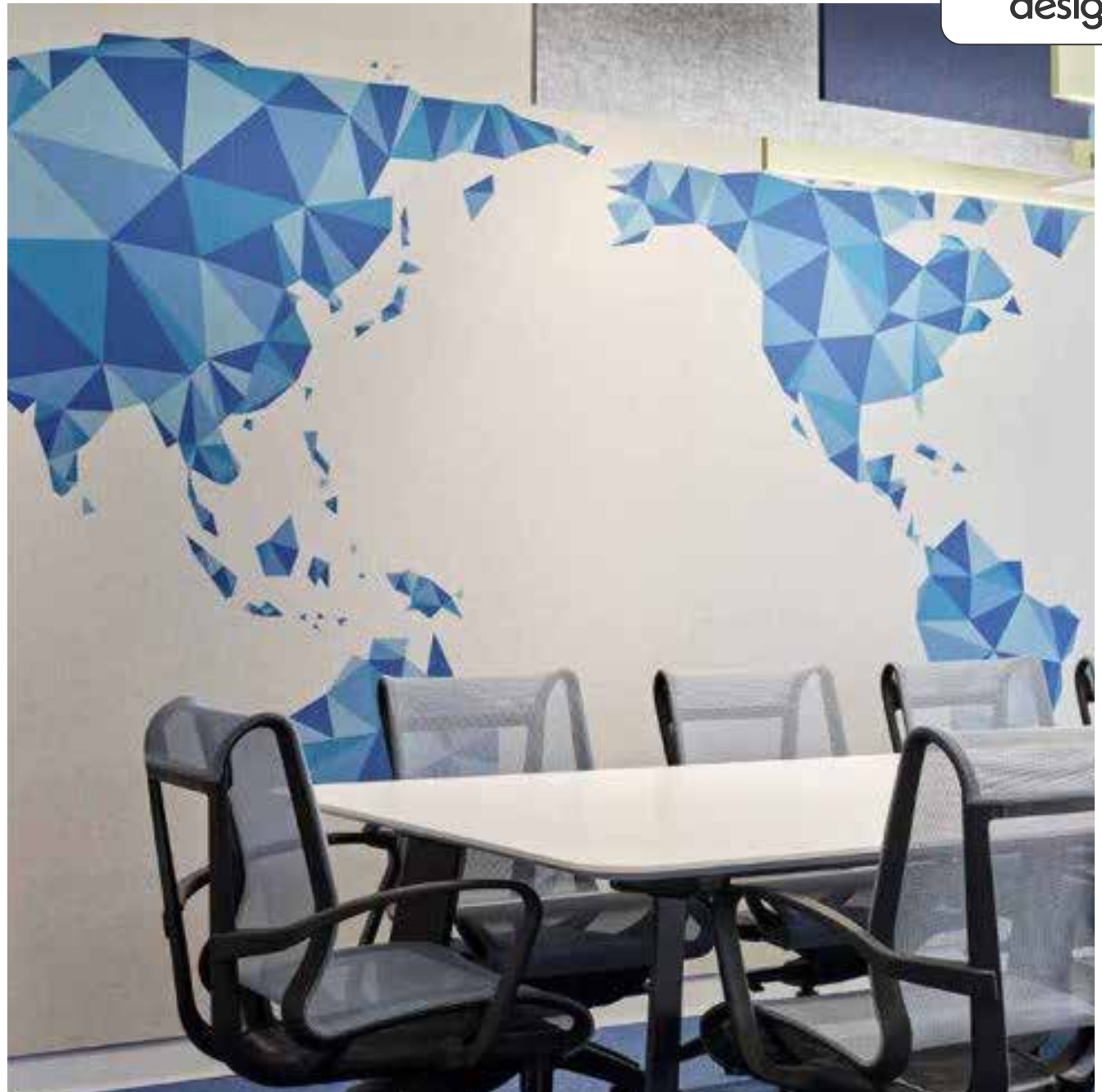
Custom Printed Acoustics

The option to print acoustics is one of the most exciting achievements. This allows us to print company logos, local architecture or landscapes, or the create something original and truly amazing.



Features & Benefits

- ✓ Allows acoustics to become part of the artwork or creativity of your space
- ✓ Allows the option to print custom colours or themes
- ✓ Great way to bring custom design to your walls or ceiling





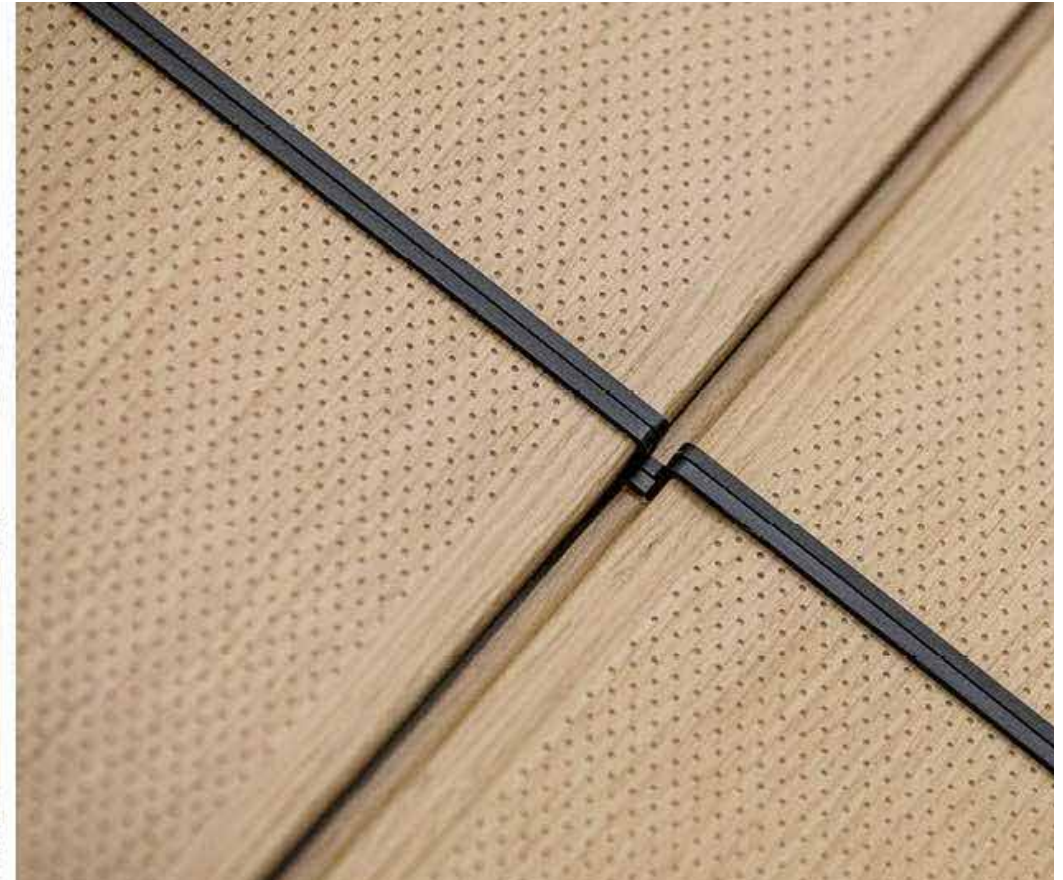
Acoustic Veneer

An elegant acoustic printed panel available in 7 woodgrain finishes with a perforated look for improved acoustic performance, Group 1 fire rating + Cradle to Cradle Bronze environmental certification, available in 3 sound absorbing thicknesses.



Features & Benefits

- ✓ Allows timber look to be introduced with the benefit of acoustic performance
- ✓ Available with perforated option for higher acoustic performance
- ✓ Print extends to the full panel, so no obvious repeat



NRC 0.20 - Non-Perforated Veneer Finish

NRC 0.3 -0.65 (Direct Fix)

NRC 0.80 - Perforated Veneer Finish

Drop-in Ceiling Tiles

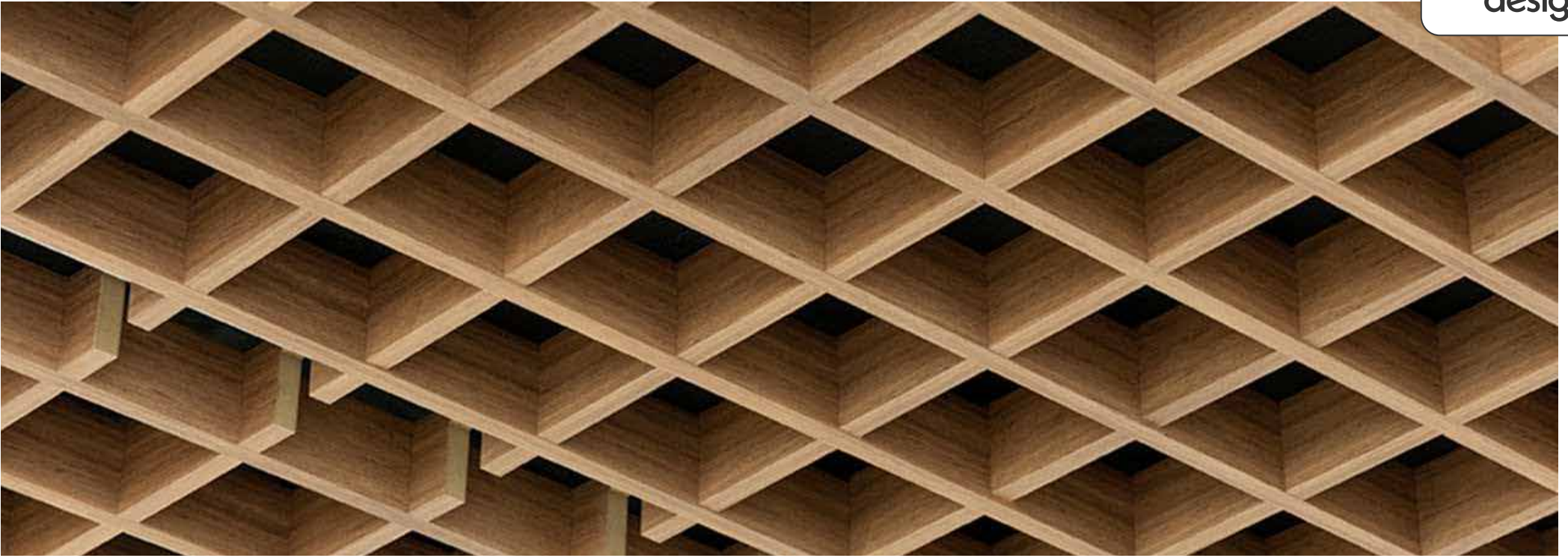
A designer drop in ceiling tile with a range of designs and styles for new or existing ceiling grids.



Features & Benefits

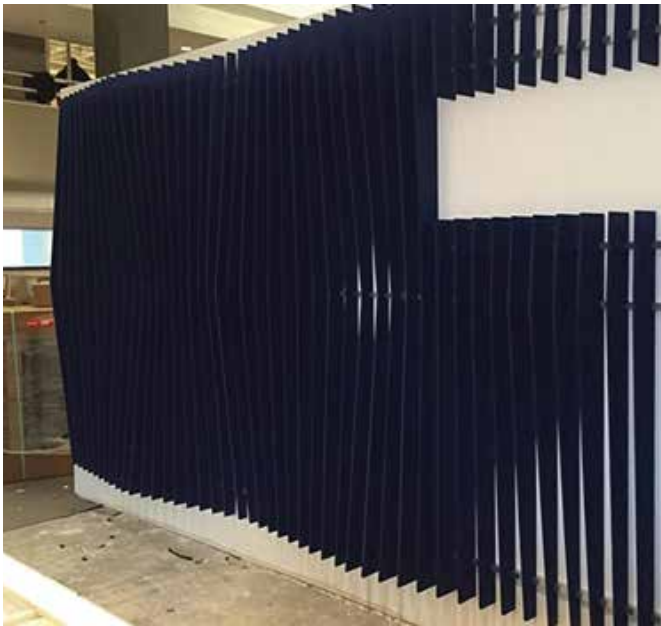
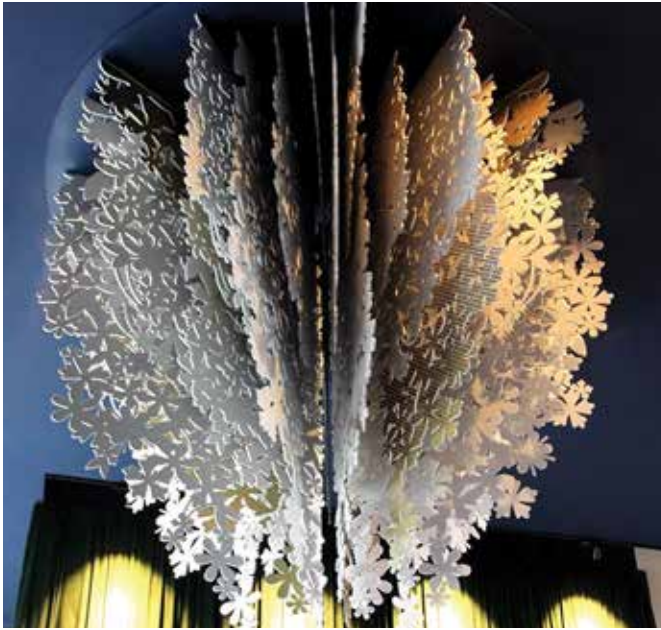
- ✓ Great way to bring a boring ceiling grid ceiling to life with a lovely timber batten finish
- ✓ Panels are rebated to fit into the grid, so the grid is hidden from view
- ✓ Large range of designs and styles







Customized Products



About Ascot

Ascot Commercial Group is a premier corporate and commercial interior design company.

With more than 40 years of experience in the design industry and a long list of clients, our consultants have the experience and resources to create functional, environmentally conscious and professional interiors for all industries. Our business is family managed and owned, and has a singular focus – to satisfy the needs of each of our valued customers – whether large or small.

Our custom design process has a consultative approach, and our interior designers work with you to design the best fitouts and furniture to suit your space.

Our team is comprised of some of the most accomplished professional interior design consultants Australia-wide, who understand the requirements of businesses in terms of fast turnaround, diligent service and results that represent a real value for money investment in the future of the business.

By designing with the individual business in mind, and sourcing quality products that fit with the design concept, Ascot Commercial produces stunning commercial interiors on time and on budget.

Whether you need a full office fitout with efficient workstations and boardroom tables or just a new reception desk to give your entrance a facelift, our designers have the perfect solution for every unique premise.





**CONTACT US TODAY TO FIND OUT
HOW WE CAN HELP YOU ACHIEVE
YOUR GOALS**

📞 1300 720 608

@ sales@ascotcommercial.com.au

🌐 www.ascotcommercial.com.au

VICTORIA

Level 14, 330 Collins Street,
Melbourne VIC 3000

TASMANIA

19-20 Marine Terrace,
Burnie TAS 7320