

INT&RIOR SYSTEMS

creating quality ambient spaces

ACOUSTIC SOLUTIONS T&R PRODUCTS







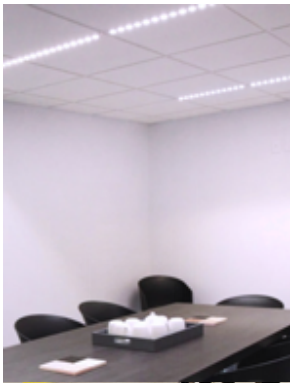
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Product Range

- GRIDLUX LIGHTING
- C MAX - GLASSWOOL
- DAIKEN - MINERAL FIBRE
- INNOVATIVE ACOUSTIC SOLUTIONS
- HYGIENE
- SEISMIC



WHITE



MIRROR



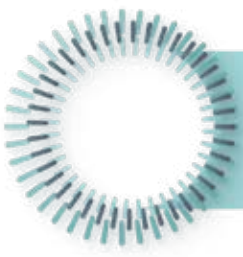
OPAL



Gridlux Lighting



GRIDLUX



GRIDLUX LED MODULE

Chrome, Opal and White Mirror Optic 1200/600



Gridlux LED Module offers a new and exciting way to incorporate lighting into a suspended ceiling grid. It is designed in the shape of a standard tee bar to allow selected tees in the grid to be substituted with the Gridlux. It can be fully integrated or retrofitted into any type of suspended ceiling as long as the web tees are 38mm. It creates a stylish and innovative lighting solution suitable for offices, schools, and commercial interiors.

- Low Glare (UGR=19) option while providing 400 lumens on the workstation (dependant on configuration).
- This is a perfect acoustic solution; removing light panels in a ceiling results in more absorption across the ceiling surface.
- Gridlux has been engineered to take seismic load, (similar to CBI cross tees) and is therefore ideal to be used as part of a seismic suspended ceiling design.
- 5-year replacement warranty.
- Long-life energy-saving LED technology.
- Complete system installed with flex and plug; can be used with Building Management System.
- Anodised and powder-coated aluminium extrusion body, steel mounting clips.
- Easy Installation.



Please Note: Gridlux is installed as part of the ceiling, and should be tendered as part of the ceiling contract. Installation will need to be coordinated with the electrical contractor for suitable power points in the plenum.

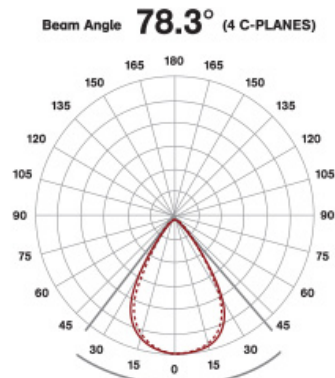


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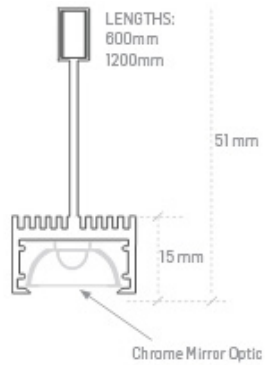


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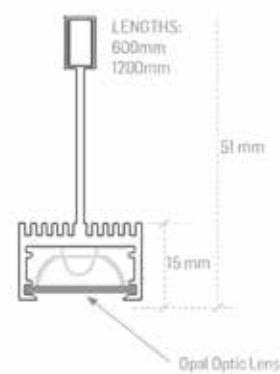
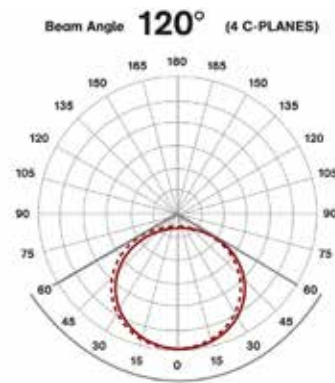
Chrome Mirror Optic



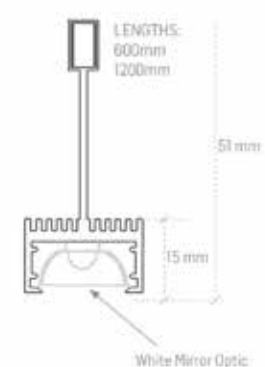
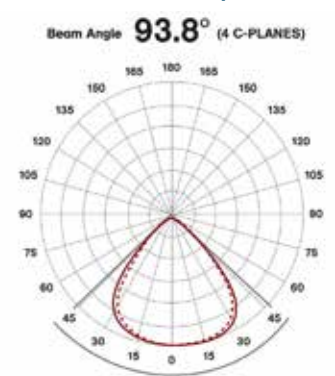
UGR=19 Option



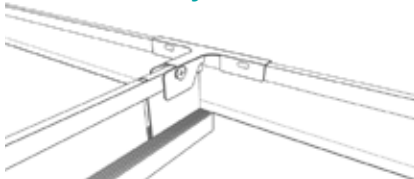
Opal Optic



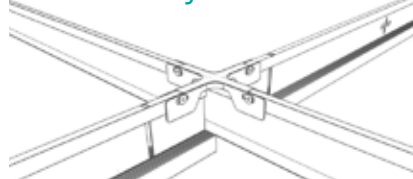
White Mirror Optic



Three Way Connector



Four Way Connector

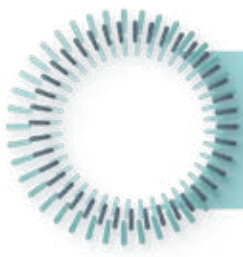


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PLEASE NOTE THAT SOME TILES MAY HAVE A LEAD TIME. CONTACT US FOR LEAD TIME OR ALLOW 12 WEEKS FOR DELIVERY. MINIMUM ORDER QUANTITIES MAY APPLY



GRIDLUX - TRIDONIC DRIVER

TRIDONIC



Tridonic driver for Gridlux

Available as:

Non-Dimmable - (3 pin)

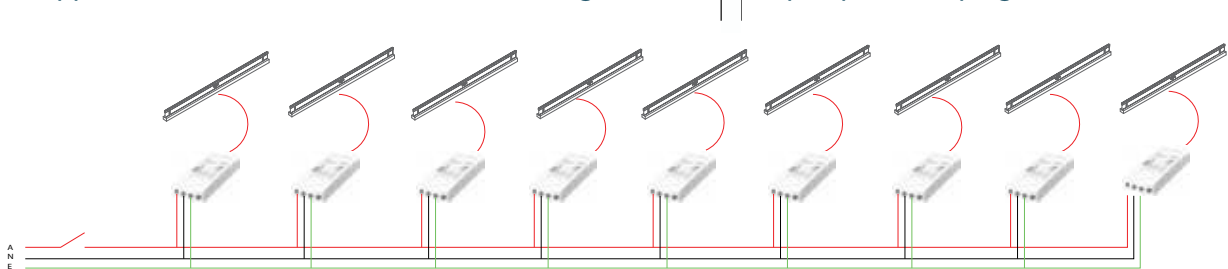
Dimmable - (5 pin)

The Tridonic Driver is the future of LED Drivers. It is a highly advanced system with outstanding dimming function.

- Constant-current LED Driver with application-oriented operating windows
- One4all interface supports DALI, DSI, switchDIM and corridor FUNCTION
- High efficiency of up to 93 %
- Unmatched standby losses of < 0.15 W

Non-Dimmable - 3 pin

For standard non-dimmable application use standard 3 pin wiring. Each individual 1200mm light, or pair of 600mm lights, is supplied with a Tridonic driver and a 2.5m long 3 core flex & (3-pin) pre fitted plug.



Dimmable - 5 pin

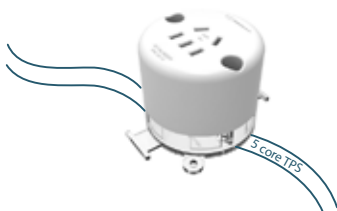
For any setup that isn't a simple on/off function (such as dimmable, DALI and any other lighting protocol) use the specifications below:

Each individual 1200mm light, or pair of 600mm lights, is supplied with a Tridonic (switchDIM one4all) driver and a 2.5m long 5 core flex & (5-pin) pre fitted plug.

The electrical installation will include 5 core wiring and 5-pin plug base (CMS QF75).

The wiring between each plug base will be 5 core wiring.

The digital one4all interface of the Dimmable Tridonic driver ensures proper operation and integration in various lighting control systems. In addition, all the parameters of the Tridonic driver can be configured for maximum effect. The current can be adjusted in 1 mA increments for individual matching to the required luminous fluxes.



Core flex & (5-pin) pre fitted plug socket to be supplied by electrical engineer/contrator. CMS 5 Pole plug base QF75.

5 core TPS installed from Distribution Board and loops in a daisy chain between all 5 pin sockets.

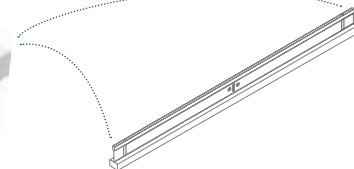


Core flex & (5-pin) pre fitted plug

- Supplied



Tridonic Driver (Dimmable)



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Medical Centre - Auckland - ASC Architects



Holland Beckett Law - Rotorua - Darryl Church Architects

ABSORB



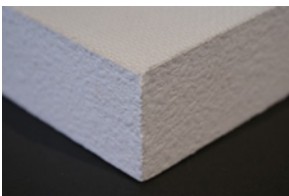
REFLECT



COMBO



IMPACT



IMPACT
COMBO



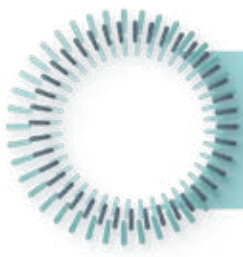
DIRECT FIX



All tiles in the C Max range (except for Impact and Black) have the same face finish. This allows designers to achieve the desired acoustic performance (depending on space type and useage) while maintaining a monolithic look throughout the entire project.

A modern interior space, likely a cafe or office, featuring a grid ceiling with acoustic tiles and integrated linear lighting. The room includes wooden tables, chairs, a whiteboard, and a large potted plant. The text 'C MAX Acoustic Ceiling Tiles' is overlaid on the image.

C MAX Acoustic Ceiling Tiles



C MAX ABSORB

High Performance Acoustic Ceiling Tile



C Max Absorb is a glass wool tile with a refined white painted, monolithic, pre-finished face:

- Extremely high Noise Reduction Coefficient (NRC) to reduce Reverberation Time.
- Mid-range tile suitable for exhibit halls, museums, medical centres, offices, classrooms, receptions, meeting rooms and other commercial interiors.
- Constructed from 90% dry felt resin bonded glass-wool, utilising longer fibres in a more compact fibre arrangement. This non-absorbent, non-water soluble design gives C Max Absorb improved durability when compared to mineral fibre.
- The high density glass-wool tile achieves a density of 100kg/m^3 . This results in a light weight, high performance ceiling tile which is user friendly and ideal for use in large spaces.
- Glass-wool products are well known for their thermal advantages, and C Max Absorb is no exception. With a high thermal resistance coupled with low thermal conductivity, C Max Absorb is excellent in helping maintain indoor temperature and reducing energy consumption.
- 30 year lifetime system warranty to withstand conditions up to 40° and 99% relative humidity without visible sag, when used with a T&R Interior Systems branded suspension system. Tiles should be installed in accordance with the grid manufacturer's instructions.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT -

For Green Star rated projects, C Max has been verified and meets the Greenguard Emission Certificate standard.




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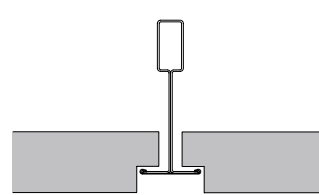
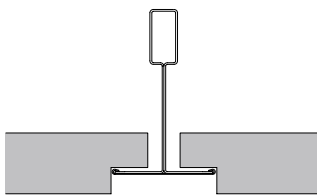
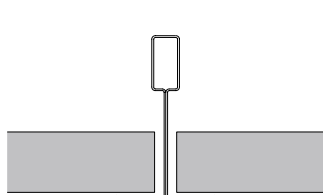
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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.95	ISO 354:2003
Ceiling Attenuation Class	15mm: CAC 20 + 20mm: 26 +	
Light Reflectance	LR 87% +	ASTM E1477-98
Density	100kg/m ³	
Weight	15mm: 1.5kg/m ² 20mm: 2.0kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Moisture Rate	≤ 1 %	JC/T 670 – 2005
Thermal Resistance	≥ 0.4 (m ² -k/w)	ASTMC 423
Est. R-Value (m ² k/w)	15mm: R0.4 20mm: R0.5	

SIZE

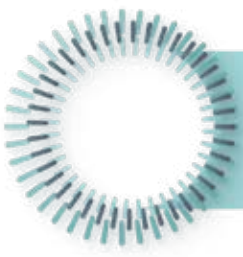
15mm or 20mm,
25mm, 40mm and 80mm
Depth Square Edge, Reveal Edge,
*Concealed, Direct Fix
*[2400 x 600] [1200 x 600] *[1500 x 300]
*[1200 x 300] [600 x 600]
To suit 15 or 24 mm grid patterns
* Available by indent order.
Other sizes available on request.



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C MAX ABSORB - BLACK

High Performance Acoustic Ceiling Tile



Black C Max is a glass wool tile with a refined black painted, monolithic, pre-finished face:

As part of the C Max range, it is held in stock as a 15mm Absorb but is also available as a Combo tile and in differing thicknesses on indent.

- Mid-range tile suitable for exhibit halls, museums, receptions, theatres, meeting rooms and other commercial interiors.
- Constructed from 90% dry felt resin bonded glass-wool, utilising longer fibres in a more compact fibre arrangement. This non-absorbent, non-water soluble design gives C Max improved durability when compared to mineral fibre.
- The high density glass-wool tile achieves a density of 100kg/m^3 . This results in a light weight, high performance ceiling tile which is user friendly and ideal for use in large spaces.
- Can be matched with black CBI Grid for a sleek and sophisticated ceiling. Can also be integrated with black GridLux lights.
- 30 year lifetime system warranty to withstand conditions up to 40° and 99% relative humidity without visible sag, when used with a T&R Interior Systems branded suspension system. Tiles should be installed in accordance with the grid manufacturer's instructions.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT -

For Green Star rated projects, C Max has been verified and meets the Greenguard Emission Certificate standard.




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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.95	ISO 354:2003
Ceiling Attenuation Class	CAC 20 +	
Light Reflectance	none	
Density	100kg/m ³	
Weight	15mm: 1.5kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Moisture Rate	≤ 1 %	JC/T 670 – 2005
Thermal Resistance	≥ 0.4 (m ² -k/w)	ASTMC 423
Est. R-Value (m ² k/w)	15mm: R0.4	

• SIZE

15mm Depth Square Edge, *Reveal Edge*,
25mm 80mm and 40mm

Also available as a Combo tile

*[2400 x 600] [1200 x 600] *[1500 x 300]

*[1200 x 300] [600 x 600]

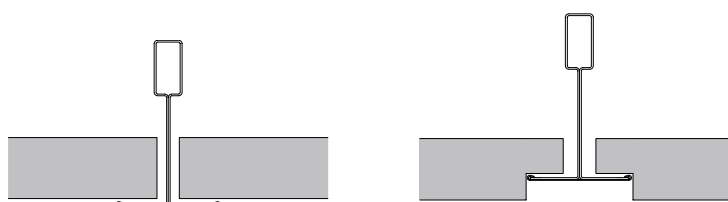
To suit 24 mm grid patterns

* Available by indent order, MOQs apply

Other sizes available on request.

• COLOUR

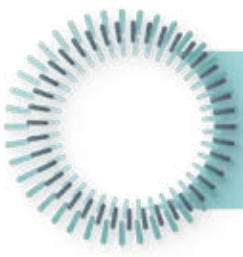
Black



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C MAX DIRECT FIX

High Performance Acoustic Ceiling Tile



C Max Direct Fix is a white painted, textured glass wool acoustic ceiling tile. Direct fix eliminates the need for an exposed grid and enhances the clean smooth monolithic surface. Available in a range of colours as well as white.

- It has a high noise reduction coefficient (NRC 0.75 – 0.95 – depending on installation method) to reduce reverberation time.
- A high end tile.
- Designed for direct fix application to new existing gypsum board or over timber/metal battens. 40mm tile or 20mm tile on batten exceeds Department of Education acoustic requirements when installed over gypsum board backing.
- This product is constructed from 90% dry felt resin bonded glass-wool, utilizing longer fibres in a compact fibre arrangement. The non-absorbent, non-water soluble design gives C Max Direct Fix improved durability when compared to mineral fibre.
- C Max achieves a density of 100kg/m³. This results in a light weight, high performance ceiling tile which is user friendly and ideal for use in classrooms, offices, medical centres, lobbies and receptions and other commercial interiors.
- 30 year lifetime system warranty to withstand conditions up to 40° - 99% relative humidity without visible sag.




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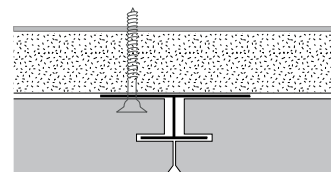
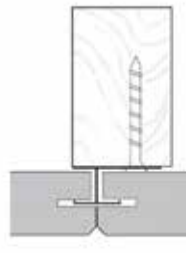
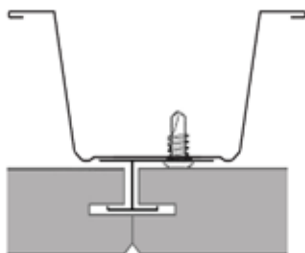
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	Without air gap: 0.75 20mm with air gap: 0.95 40mm without air gap: 0.95 40mm with air gap: 1.00	ISO 354:2003
Ceiling Attenuation Class	CAC 26 + (without plasterboard backing)	
Light Reflectance	LR 87% +	ASTM E1477-98
Density	100kg/m ³	
Weight	20mm: 2kg/m ² 40mm: 4kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Moisture Rate	≤ 1 %	JC/T 670 – 2005
Thermal Conductivity	≥ 0.04 (kcal/mh°C	JIS A 1412
Est. R-Value (m²k/w)	20mm: R0.5 40mm: R1	

- SIZE**

20mm & 40mm Depth x [600 x 600] [1200 x 600]
Other sizes available on request

- INSTALLATION**

Tiles must be installed in an Ashlar pattern

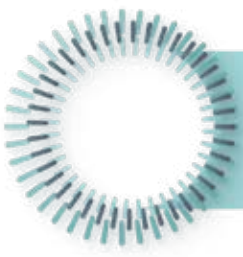


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C MAX IMPACT

Sports Acoustic Ceiling Tile



The C Max Impact Sports Sound Panel is a 38mm thick glass-wool ceiling tile with a strong fibre glass face.

- Exceptionally high acoustic properties, the high Noise Reduction Coefficient will reduce reverberation time.
- Mid-range tile.
- Due to its unique strong impact resistant fibre glass face, it is ideal for gymnasiums, sports centres, schools and community halls. It can withstand significant impact and the Robo-clip system will prevent tiles from dislodging.
- This product is constructed from 90% dry felt resin bonded glass-wool, utilizing longer fibres in a compact fibre arrangement. The non-absorbent, non-water soluble design gives C Max Impact improved durability when compared to mineral fibre. C Max achieves a density of 100kg/m³. This results in a light weight, high performance ceiling tile which is user friendly and ideal for use gymnasiums, sport Centres, community halls and schools.
- Suspend C Max Impact Sports Panels in a standard T&R Interior System two way grid or direct fix with a very simple and quick install system.
- Can be ink-jet printed with custom designs and logos.
- Available in a selection of colours – standard colour is white.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, C Max has been verified and meets the Greenguard Emission Certificate standard.




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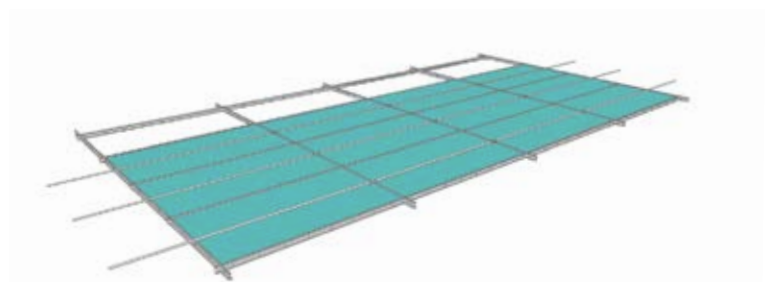


TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient		
With 50mm air gap (suspended)	NRC 1.0	GB/T 20247 – 2006
With Zero air gap (direct fix)	NRC 0.95	ISO 354:2003
Ceiling Attenuation Class	CAC 30 +	
Light Reflectance	LR 84% + (White Panel Only)	
Density	100kg/m ³	
Weight	4kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1-AS27
Thermal Conductivity	≥ 0.04 kcal/mh°C	JIS A 1412
Est. R-Value (m ² k/w)	R1	

- SIZE**
 38mm Depth Square Edge x [600 x 1200]
 Other sizes available on request
- COLOURS**
 White
 Available by indent, Black, Blue, Grey, Caramel – MOQ
- INSTALLATION**
 Designed to fit into a standard 24mm two way exposed grid
- EDGE DETAIL**



Square Edge 24mm Grid



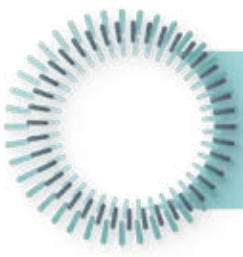
Special knock-proof system available where ceiling is prone to getting hit



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C MAX COMBO Slim & Standard

High Performance Acoustic Ceiling Tile



C Max Combo is a thick glass wool tile with a refined white painted, monolithic, pre-finished face and an attenuating layer behind (either 6mm layer of compressed glass-fibre board or 9mm plasterboard). This combination results in a tile with an extremely high Noise Reduction Coefficient (NRC) combined with a high Ceiling Attenuation Class (CAC).

- The absorbent face is made from a compounded, high density glass-wool. The attenuating backer improves the reduction of sound transfer over office partitions and reduces rain noise from roofing. It is a high performance ceiling tile which is user friendly and ideal for use in airports, offices, classrooms, boardrooms, museums and other commercial interiors.
- Glass-wool products are well known for their thermal advantages, and C Max Combo is no exception. With a high thermal resistance coupled with low thermal conductivity, C Max Combo is excellent in helping maintain indoor temperature and reducing energy consumption.
- 30 year lifetime system warranty to withstand conditions up to 40° and 99% relative humidity without visible sag, when used with a T&R Interior Systems branded suspension system. Tiles should be installed in accordance with the grid manufacturers instructions.



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SLIM COMBO TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.75	ISO 354: 2003
Ceiling Attenuation Class	CAC 44	E1414-11a
Density	Glasswool: 100kg/m ³ Condensed Glass-fibre: 1000kg/m ³	
Max Weight	9.6kg/m ²	

STANDARD COMBO TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.90	ISO 354: 2003
Ceiling Attenuation Class	CAC 46	E1414-11a
Density	Glasswool: 100kg/m ³ Condensed Glass-fibre: 1000kg/m ³	
Max Weight	11.1kg/m ²	
Light Reflectance	LR 87% +	ASTM E1477-98
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Moisture Rate	≤ 1 %	JC/T 670 – 2005

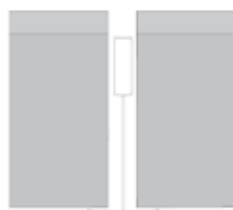
- SIZE**

Square Edge, Reveal edge (Slim only)
 [600 x 600] [1200 x 600] *[24 00 x 600] *[1500 x 300]
 *[1200 x 300]
**Available by indent order. Other sizes available*

- COLOUR**

White Black Available by indent and MOQ

- EDGE DETAIL**



Square Edge 24mm Grid



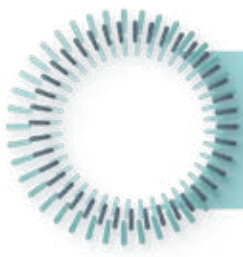
Reveal Edge 24mm Grid



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C MAX IMPACT COMBO

High Performance Acoustic Sports Tile

INDENT ONLY



The C Max Impact Combo Sports Sound Panel is thick glass wool tile with a strong impact-resistant fibre glass face and an attenuating layer behind (either 6mm layer of compressed glass-fibre board or 9mm plasterboard). This combination results in a tile with an extremely high Noise Reduction Coefficient (NRC) combined with a high Ceiling Attenuation Class (CAC).

Exceptionally high acoustic properties for both absorption and attenuation: the high Noise Reduction Coefficient (NRC) will reduce reverberation time and the compressed glass-fibre backer blocks noise from the ceiling plenum (such as rain noise). This is an ideal tile for gymnasiums where sound transfer is a concern.

- This product is constructed from 90% dry felt resin bonded glass-wool, utilizing longer fibres in a compact fibre arrangement. The non-absorbent, non-water soluble design gives C Max Impact improved durability when compared to mineral fibre.
- Due to its unique strong impact resistant fibre glass face, it is ideal for gymnasiums, sports centres, schools and community halls. It can withstand significant impact and the Robo-clip system will prevent tiles from dislodging.
- Suspend C Max Impact Combo Sports tiles in a standard T&R Interior System two way grid for a very simple and quick install system.
- Can be ink-jet printed with custom designs and logos.
- Available in a selection of colours – standard colour is white.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, C Max has been verified and meets the Greenguard Emission Certificate standard.



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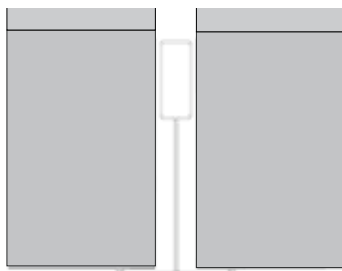


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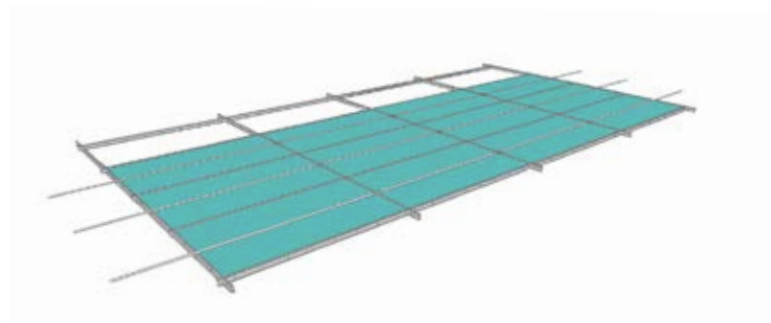


TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.90	ISO 354:2003
Ceiling Attenuation Class	CAC 46 +	E1414 - 11a
Light Reflectance	LR > 85% + (White Panel Only)	
Density (glass fibre) - 38mm	100kg/m ³	
Density (compressed fibre) - 6mm	1000kg/m ³	
Combined Weight	10.8kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1-AS27

- SIZE**
 44mm or 47mm Depth Square Edge x [600 x 1200]
 Other sizes available on request
- COLOURS**
 White
 Available by indent, Black, Blue, Grey, Caramel – MOQ
- INSTALLATION**
 Designed to fit into a standard 24mm two way exposed grid
- EDGE DETAIL**



Square Edge 24mm Grid



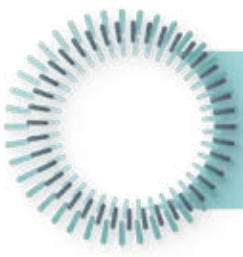
Special knock proof system available where ceiling is prone to getting hit



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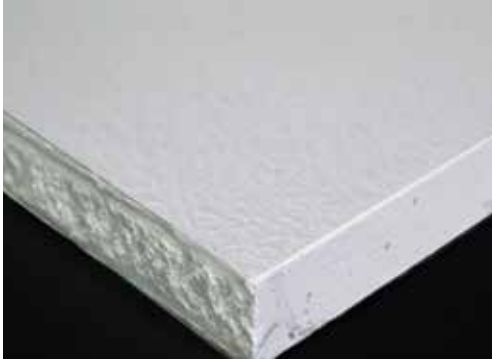


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C MAX REFLECT

Reflective Gypsum Tile



Designers must consider where to place absorption material to reduce reverberation times and where to use reflective surfaces to ensure that - where applicable - a speaker's voice is clearly projected to the people in the room. Immediate reflection of sound waves carries the voice into the space and are essential for good speech intelligibility. C Max Reflect has an extremely low Noise Reduction Coefficient to aid direct reflections.

Advantages:

- To add reflective surfaces: enhancing direct reflections of sound
- Suitable for use in classrooms, lecture halls and where early reflections are desired.
- Can be combined with other tiles in the C Max range (Absorb, Combo, Direct Fix) to achieve optimum acoustics while maintaining a monolithic look
- Tiles should be installed in accordance with the grid manufacturers instructions.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT -

For Green Star rated projects, C Max has been verified and meets the Greenguard Emission Certificate standard.




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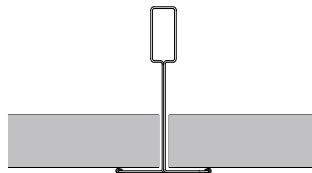


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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.05	ISO 354:2003
Ceiling Attenuation Class	CAC 45	
Light Reflectance	LR 87% +	
Density	1000kgs/m ³	
Weight	7.2kg/m ²	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27

- SIZE**
 7mm Depth Square Edge, [1200 x 600] [600 x 600]
 To suit 15 or 24 mm grid patterns
 Other sizes available on request.
- COLOUR**
 White
- EDGE DETAIL**





Riverhead School - Auckland - Pacific Environments



Above Your Space - Christchurch - AE Architects



Offices - Christchurch - Buchan Group



Marist School - Auckland - DLM Architects

HARMONY



VENUS



NEW NDF



FINE FISSURED

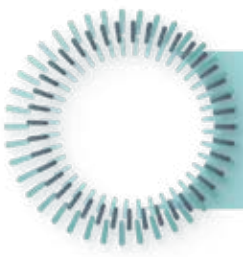


DAI LOTONE



A photograph of a modern building's interior, featuring glass railings and acoustic ceiling tiles. The image is overlaid with a semi-transparent white rectangle containing the text. The background shows a multi-level atrium with glass railings and acoustic ceiling tiles. The text is centered within the white rectangle.

DAIKEN Acoustic Ceiling Tiles



DAIKEN HARMONY

Acoustic Suspended Ceiling Tile



Daiken Harmony Acoustic Ceiling Tiles have monolithic white face with a very subtle sandy fibre texture. The clean monolithic look is an ideal aesthetic choice for many commercial interior space requirements. The surface is specifically engineered to provide high absorption (NRC) to reduce reverberation time while the density of the mineral fibre provides good attenuation performance across the ceiling plenum. This versatile mineral fibre ceiling tile is able to meet most standard acoustic specifications.

- Fine, monolithic texture
- High light reflectance
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and meets Cleanroom ISO Class 3.
- High sound absorption qualities, which reduces reverberation time, and a medium Ceiling Attenuation Class (CAC) to reduce sound transfer through the ceiling plenum.
- Suitable for use in offices, education centres, lobbies, reception areas call centres and commercial interiors.
- Mineral Fibre tiles are not only non-combustible, but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 50° - 99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.



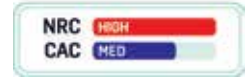
EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.



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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.70	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	19mm: 5.3 kg/m ²	
Light Reflectance	LR 1 75% +	BS 8493:2008
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Relative Humidity	RH 99%	
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.5	

- SIZE**

19mm Depth Square Edge [1200 x 600] [600 x 600]
[1200 x 300]*

19mm Depth Reveal Edge [1200 x 600] [600 x 600]
[1200 x 300]*

To suit 15 or 24 mm grid patterns

**Available on Indent.* Other sizes available on request.
- COLOUR**

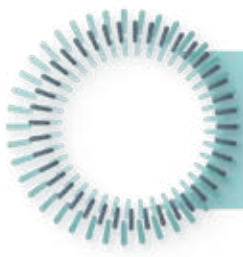
White
- EDGE DETAIL**



Reveal Edge



Square Edge



DAIKEN VENUS

Mineral Fibre Acoustic Suspended Ceiling Tile



Daiken Venus is a white mineral fibre ceiling tile with a stippled texture and scattered pinhole finish.

- The Venus tile has a medium Noise Reduction Coefficient (NRC) and a medium Ceiling Attenuation Class (CAC) to help reduce reverberation time and prevent sound transfer through the ceiling plenum.
- Cost is middle of the range.
- A very versatile tile - Suitable for application in a variety of areas such as libraries, hotel lobbies and entrance halls, shops and other commercial interiors.
- Daiken Mineral Fibre Ceiling tile materials are not only non-combustible but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 40° - 99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.



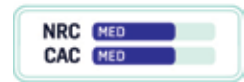
EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.




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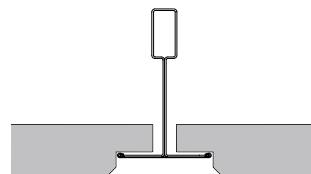
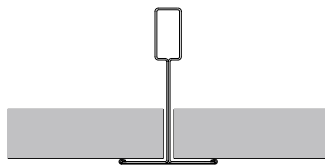


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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.55 - 0.60	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	15mm: 4.2kg/m ²	
Light Reflectance	LR 1 75% +	ASTM C 523
Fire Test	 Group 1 – S	BRANZ Cone Calorimeter NZBC C/AS1- AS27
Relative Humidity	RH 99%	
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.3	

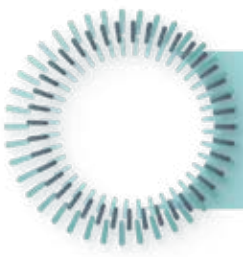
- SIZE**
 15mm Depth Square Edge x [1200 x 600]
 15mm Depth Reveal Edge x [1200 x 600] [600 x 600]
 To suit 15 or 24 mm grid patterns.
 Other sizes available on request.
- COLOUR**
 White
- EDGE DETAIL**



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DAIKEN NEW NDF

Mineral Fibre Acoustic Suspended Ceiling Tile



Daiken New NDF Mineral Fibre Acoustic ceiling tile has a non-directional fissured clean white surface.

- Daiken New NDF has a medium Noise Reduction Coefficient and medium Ceiling Attenuation Class to help reduce reverberation time and to prevent sound transfer through the ceiling plenum
- New NDF is the most economical tile in the Daiken Range.
- The New NDF tile has been used in NZ for twenty years and is still available for supply and ongoing maintenance. They are favoured for their durability and ease of handling.
- This is the ceiling contractors most favoured commodity panel.
- Daiken Mineral Fibre Ceiling tile materials are not only non-combustible but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 40° - 99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.



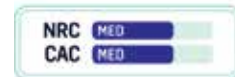
EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.




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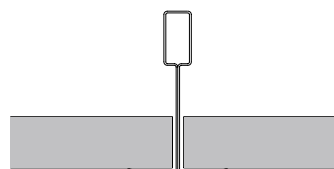
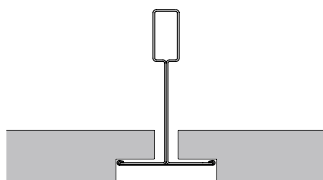


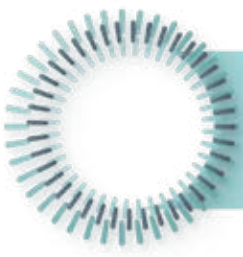
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.55 - 0.60	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	15mm: 4.2kg/m ²	
Light Reflectance	LR 1 75% +	ASTM C 523
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Relative Humidity	RH 99%	
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.3	

- SIZE**

15mm Depth Square Edge x [1200 x 600]
 15mm Depth Reveal Edge x [1200 x 600] [600 x 600]
 To suit 15 or 24 mm grid patterns
 Other sizes available on request.
- COLOUR**

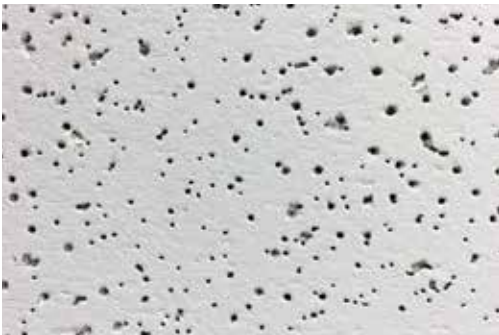
White





DAIKEN FINE FISSURED

Mineral Fibre Acoustic Ceiling Tile



Daiken Fine Fissured Mineral Fibre Acoustic ceiling tile has a non-directional fissured clean white surface.

- The tile has a medium Noise Reduction Coefficient and medium Ceiling Attenuation Class to help reduce reverberation time and to prevent sound transfer through the ceiling plenum
- Fine Fissured is an economical tile in the Daiken Range.
- The Fine Fissured tiles are favoured for their durability and ease of handling.
- Daiken Mineral Fibre Ceiling tile materials are not only non-combustible but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 40° - 99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.




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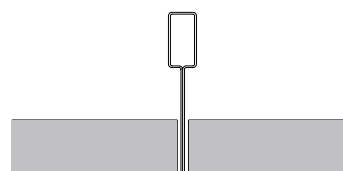
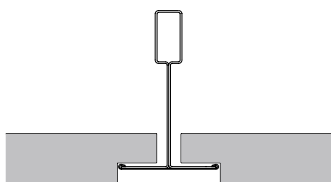


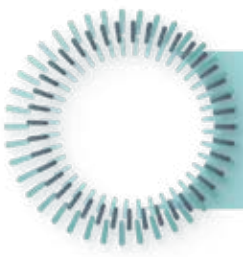
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.55 - 0.60	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	15mm: 4.2kg/m ²	
Light Reflectance	LR 1 75% +	ASTM C 523
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Relative Humidity	RH 99%	
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.3	

- SIZE**

15mm Depth Square Edge x [1200 x 600]
 15mm Depth Reveal Edge x [1200 x 600] [600 x 600] on
 indent only
 To suit 15 or 24 mm grid patterns
 Other sizes available on request.
- COLOUR**

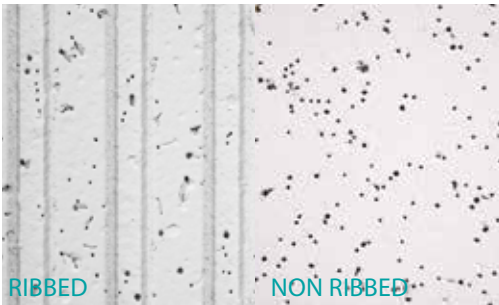
White
- EDGE DETAIL**





DAIKEN DAI LOTONE

Staple and Glue Direct Fix Ceiling Tile



Daiken Dai Lotone is a high density tongue and groove mineral fibre ceiling tile with a white painted finish designed for direct fix applications to new and existing gypsum board or timber battens. No additional painting required.

- Daiken T&G ceiling tiles have superior noise absorption.
- A mid-range tile.
- Daiken Dai Lotone Ceiling tiles are manufactured to produce porous properties with a low specific gravity and therefore exhibits efficient thermal insulation and sound absorption qualities, while resisting sound transmission more effectively than glass fibre products.
- Effective thermal insulation (more than 6 times gypsum board).
- Due to its high density and fine grained substrate, Daiken can achieve unique and high quality detailing in their tiles. This is reflected in the Rib 501 pattern.
- Daiken T&G ceiling tiles have outstanding fire resistance.
- Daiken Mineral Fibre Acoustic Ceiling materials are not only non-combustible but is less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 40° - 98% relative humidity without visible sag.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken "Excel – Tone MR" mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard. Fire Tested – BRANZ 1- S




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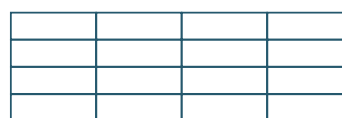
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient for speech range 500 – 4000 Hz	NRC 0.68 - 0.70	ASTM C 423
CAC	Depends on existing ceiling	ASTM E 413
Light Reflectance	LR 1 (over 80%)	ASTM C 523
Weight	Rib: 3.65kg/m ² Non-Rib: 2.72kg/m ²	
Moisture Content	1.5%	JIS A 6307
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	9mm: R0.2 12mm: R0.25	

Fire Test		Group 1-S	BRANZ Cone Calorimeter BC C/AS1-AS27
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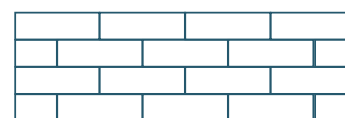
- **SIZE**
Non Rib: 9mm Depth x [606 x 303]
Rib: 12mm Depth x [606 x 303]
Other sizes available on request.
- **COLOUR**
White

- **INSTALLATION**

Tiles should be installed in accordance with the manufacturers / distributors recommendations. The use of clean hands or gloves is recommended when installing tiles. We recommend the ashlar pattern for aesthetic appeal and ease of installation.



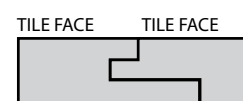
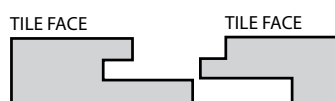
Line Through Pattern

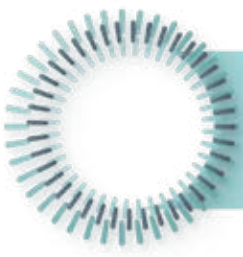


Ashlar Pattern

- **EDGE DETAIL**

Tongue and Groove





DAIKEN PLAIN

Mineral Fibre Acoustic Suspended Ceiling Tile



Daiken Plain Acoustic Mineral Fibre Ceiling tiles are non-fissured, with a smooth white painted surface.

- The Plain tile has a good Ceiling Attenuation Class (CAC) to prevent sound transfer through the ceiling plenum.
- Cost is middle of the range.
- This tile blends with most interiors and is an excellent replacement for Pinex Tiles. It is suitable for use in offices, shops and other commercial interiors where a white monolithic look is desired.
- A favoured tile with Contractors due to its robust dust free friendly nature.
- Daiken Mineral Fibre Acoustic Ceiling tile materials are not only non-combustible, but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 40° - 99% relative humidity without visible sag when used with a T&R Interior System brand suspension system.



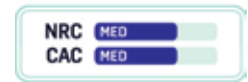
EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.



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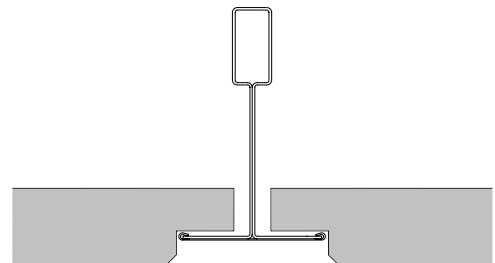
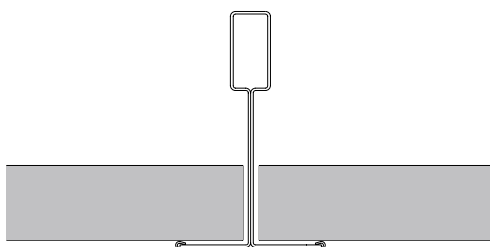
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.35 -0.45	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	12mm: 3.3kg/m ² 13mm: 3.6kg/m ²	
Light Reflectance	LR 1 (over 75%)	ASTM C 523
Fire Test	Group 1 –S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Relative Humidity	RH 99%	
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.3	



- SIZE**

12mm Depth Square Edge x [1200 x 600]
13mm Depth Reveal Edge x [1200 x 600] [600 x 600]
To suit 15 or 24 mm grid patterns
Other sizes available on request.
- COLOUR**

White
- EDGE DETAIL**

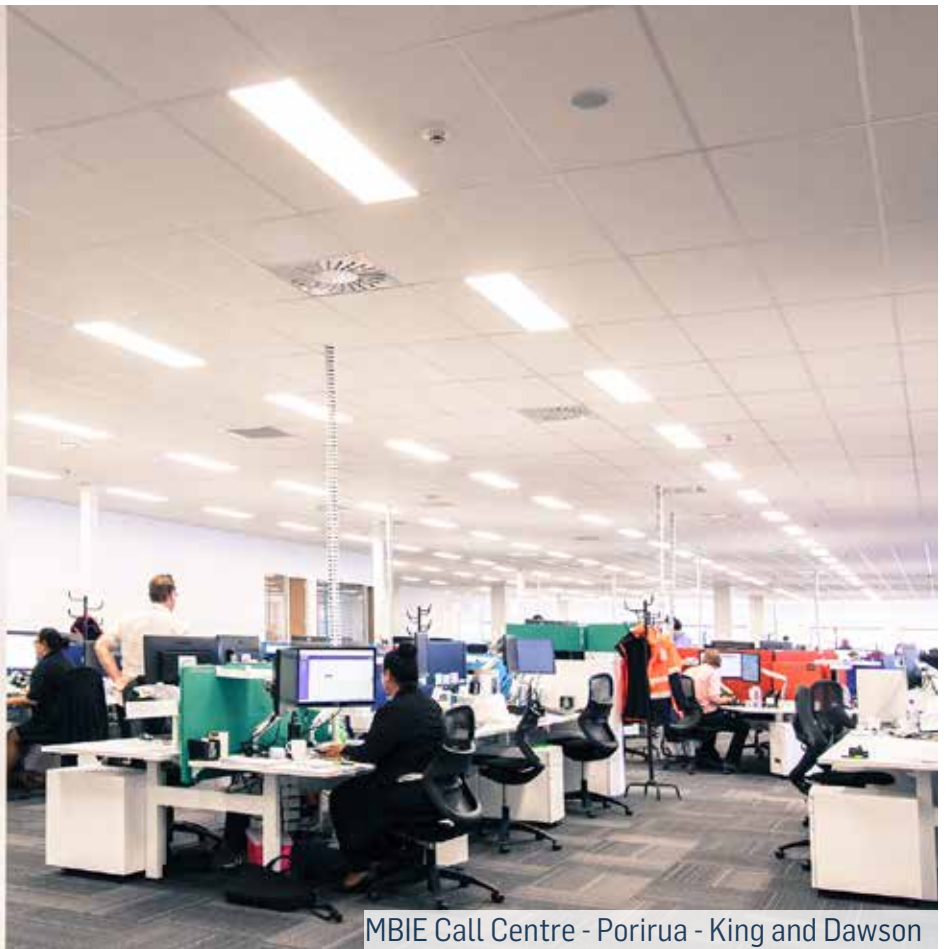




Our Lady of the Rosary- Lower Hutt - Don Jameison



Transpower - Boulcott Street - Jasmax & Architecture +

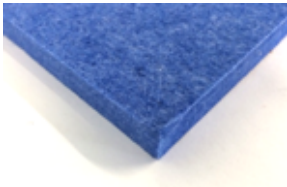


MBIE Call Centre - Porirua - King and Dawson



Dawson House - New Plymouth - Catalyst and Jacksons Architects

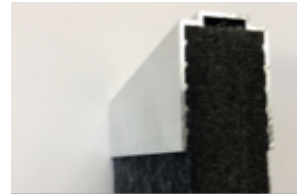
FOCUS



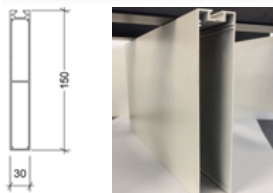
FOCUS 3D



FOCUS BAFFLE



ALUMINIUM
BAFFLE



SILENCE
CLOUD

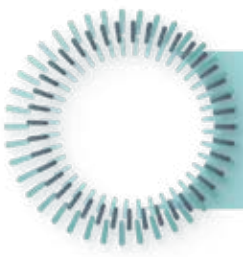


HUSH
PANELS



The background of the entire image is a light beige or cream color. It is decorated with numerous yellow butterflies of various sizes, some of which are 3D cutouts with shadows. There are also several thick, diagonal brush strokes in shades of green, orange, and yellow scattered across the background. A white rectangular box with a thin grey border is centered in the image, containing the text.

Innovative Acoustic Solutions



FOCUS

Acoustic Polyester Panel



FOCUS is an innovative acoustic panel with a sleek polyester texture. FOCUS panels have been acoustically tested for sound absorption performance and perform very well with an airgap behind. The panel can be printed with corporate logos or images. Comes in 9mm standard. Also available in 12 & 24mm on indent.

- Can be cut into different shapes and sizes: options include circles, ovals, clouds and other geometries.
- Can be folded into 3d geometries
- FOCUS panels come in a range of solid colours
- Applications include panels for walls and ceilings, workstation panels, wall panelling and other decorative features. Since the panels are a solid colour throughout; it is recommended that they be installed with a negative detail between panels for a sleek and sophisticated finish.
- FOCUS panels are receptive to staples for education and office applications.
- High quality with design flexibility, thus can be manufactured to bespoke designs to suit architectural requirements.
- Can be etched, computer cut or printed for branding and bespoke options.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - Focus Polyester Panels are made with 60% recycled materials.



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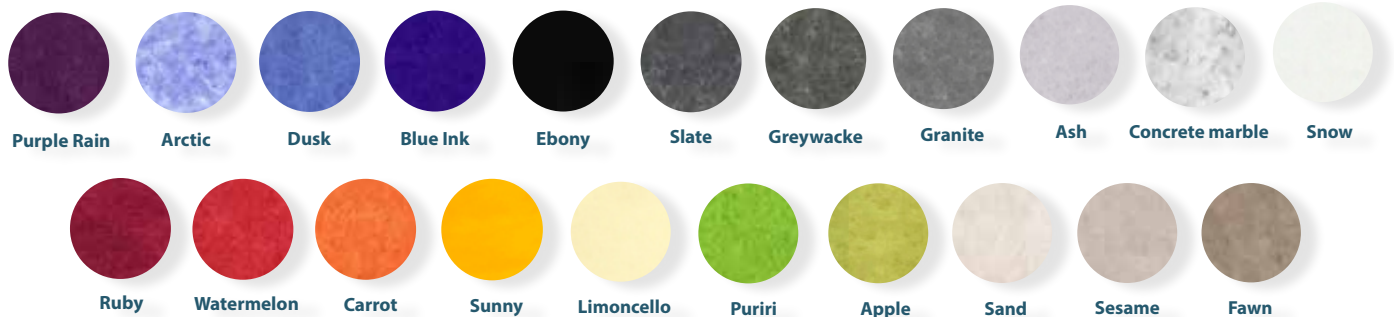
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NRC **HIGH**
CAC **LOW**

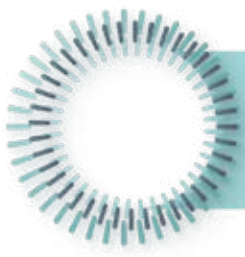
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient (9mm)	0.85 NRC with 200mm airgap	ISO 354:2003
Noise Reduction Coefficient (12mm)	0.90 NRC with 200mm airgap	ISO 354:2003
Noise Reduction Coefficient (24mm)	0.95 NRC with 200mm airgap	ISO 354:2003
Noise Reduction Coefficient (9mm)	0.30 NRC No Airgap	ISO 354:2003
Noise Reduction Coefficient (12mm)	0.40 NRC No Airgap	ISO 354:2003
Noise Reduction Coefficient (24mm)	0.65 NRC No airgap	ISO 354:2003
Fire Test - ISO 9705: 1993	Group 1- S Fire Rating	ISO 9705:1993
Cleanroom	ISO Class 3	ISO 14644.3:2015
Density	210kg/m ³	
Composition	100% Polyester Fibre (PET)	
Weight	9mm: 1.6 - 1.9kg/m ² 12mm: 2.1 - 2.5kg/m ² 24mm: 4.2 - 5kg/m ²	
R-Value (m ² k/w)	9mm: R0.2	

- **SIZE** Standard panels are 1220 x 2440mm.
- Job specific cuts available

• **COLOUR**



Please confirm colour selection by referring to a physical sample



FOCUS BAFFLE

Acoustic Polyester Ceiling Baffle



The Focus Baffle is a design-friendly, elegant linear ceiling, made up of polyester profiles. Focus polyester baffle sheets have been acoustically tested for sound absorption performance and perform very well.

Appropriate for high-end airports, malls, offices, hotel foyers, museums and commercial areas.

- The baffles are aesthetically pleasing and easy to maintain. Unlike timber, the baffle doesn't warp.
- Available in variable drops. Offers excellent design potential.
- Unique and client specific in its suspension system options.
- Comes in length of 2.44 metres. It can be cut down to size on site. We do not recommend joining baffles. A negative detail between lengths is recommended for a clean look. Can be direct fixed and suspended.
- High quality with design flexibility, thus can be manufactured to bespoke designs to suit architectural requirements.



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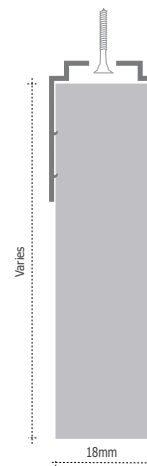
0800 666 556
www.tr-interiorsystems.co.nz

LEAD TIMES APPLY

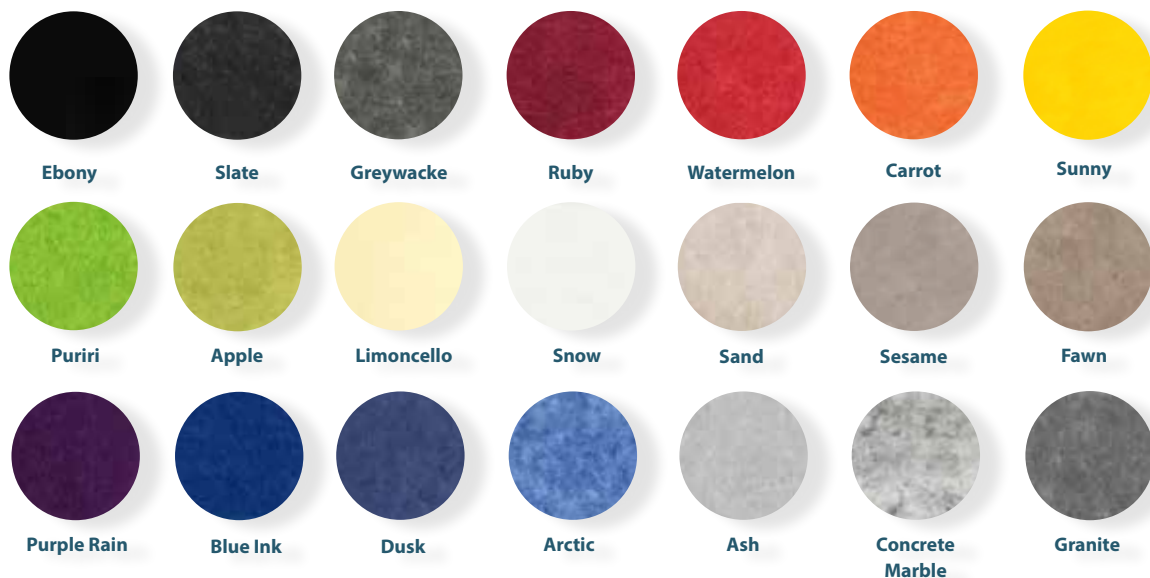
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.9 (Varies depending on configuration)	ISO 9705
Density	210kg/m ³	
Weight of fabric	18mm: 4.5kg/m ²	
Fire Test - ISO 5660 Parts 1&2	Group 1-S	BRANZ Cone Calorimeter

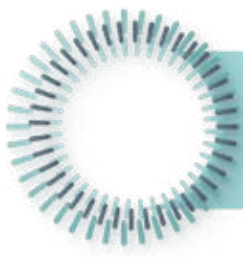
• **SIZE**

18mm with with variable drops available.



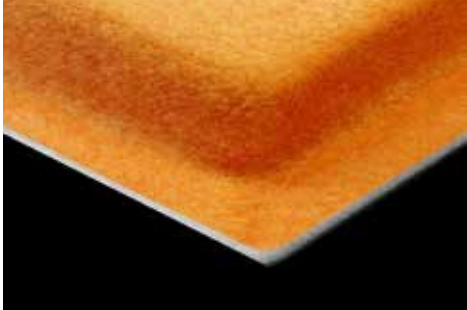
• **COLOUR**



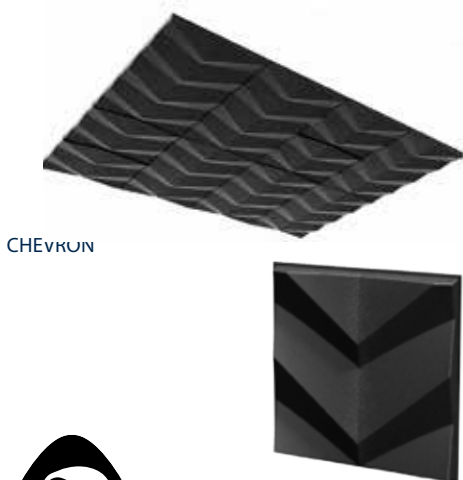


FOCUS 3D

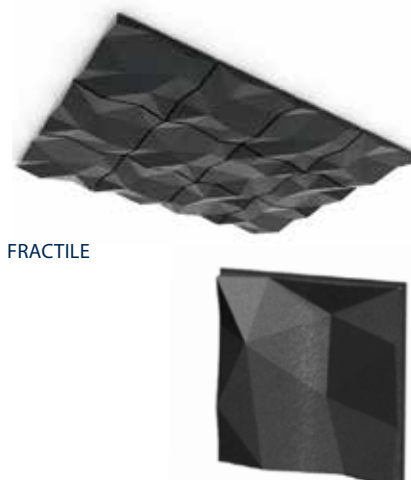
3D Acoustic Ceiling Tile (Suspended Grid System)



- Suitable for high end commercial and education spaces.
- Suitable for use in a suspended ceiling grid. Available in 600 x 600
- Can be fitted to existing ceiling grid.
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and meets Cleanroom ISO Class 3
- Acrylic diffusers in the same pattern available for ceiling lights.
- Elegant and contemporary designs to add interest to most interior spaces.



CHEVRON



FRACTILE



FLAT



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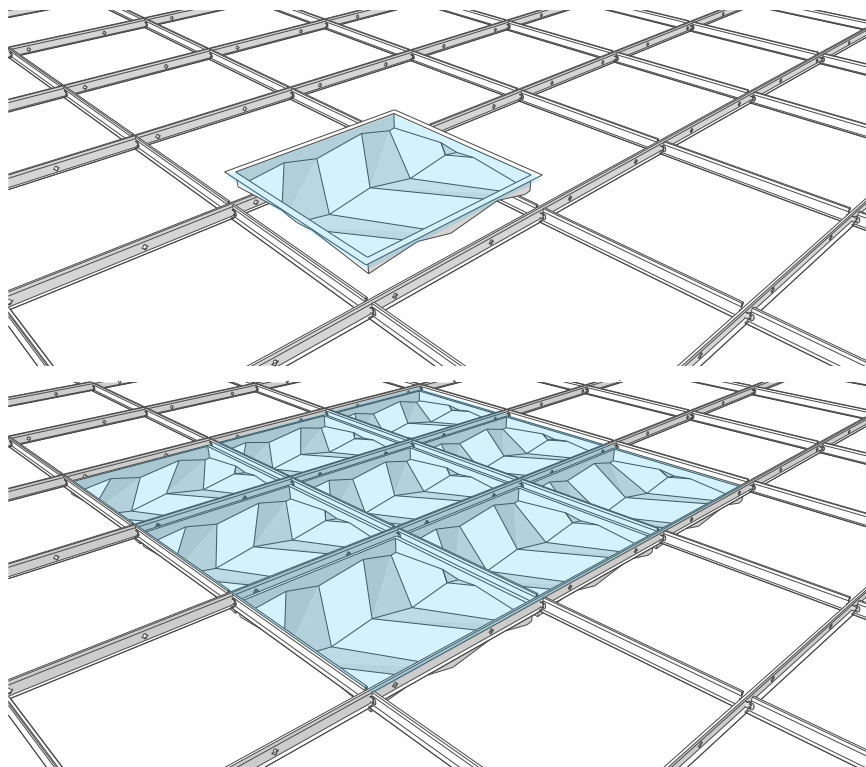
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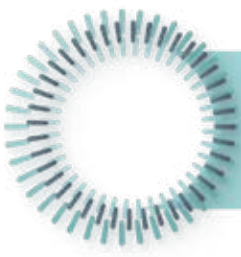
LEAD TIMES APPLY



TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient		
Without added insulation	NRC 0.75	ISO 354
With insulation behind	NRC 0.9	
Fire Test -	Group 1-S	ISO 9705:1993
Cleanroom	ISO Class 3	ISO 14644.3:2015

- **SIZE** 600 x 600 ceiling tiles
- **DESIGNS** Available in Fractile, Chevron and Flat tiles
Contact T&R Interior Systems for Custom Designs
- **COLOUR** Available in FOCUS polyester colours.



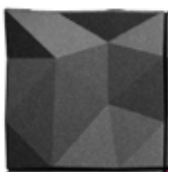


FOCUS 3D

3D Acoustic Tile (Direct Fix)



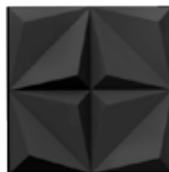
- Striking acoustic solution suitable for cafes, restaurants, offices, boardrooms and other commercial interiors.
- Ideal to use as a retrofit solution to reduce reverberation time in most commercial and education spaces.
- Direct fix to ceilings and walls
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and meets Cleanroom ISO Class 3
- Elegant and contemporary designs to add interest to most interior spaces.



FRACTILE



CHEVRON



SIREN



SPECTRUM



ATLAS



PIVOT



GEMINI



SWISH



PINCH



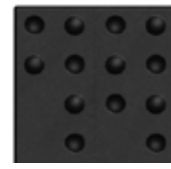
BLEND



**FIBONACCI
COMPLEX**



FIBONACCI



DIMPLE



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LEAD TIMES APPLY



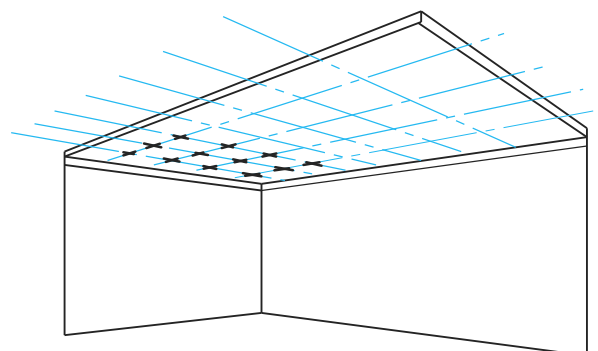
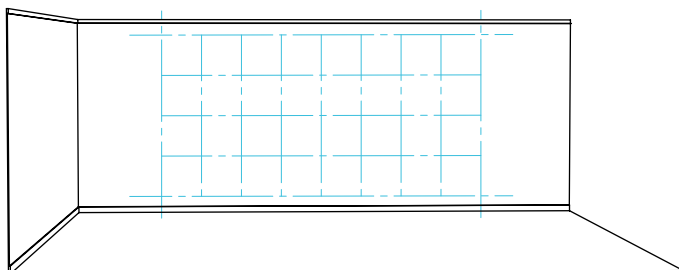
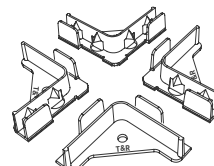
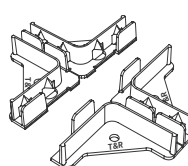
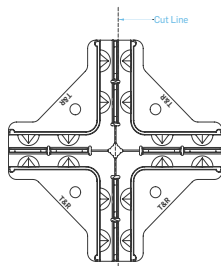
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient		
Without added insulation	NRC 0.75	ISO 354
With insulation behind (On Battens)	NRC 0.9	
Fire Test -	Group 1S	ISO 9705:1993
Cleanroom	ISO Class 3	ISO 14644.3:2015

- SIZE**

500 x 500
(Clip System for Direct Fix)
- DESIGNS**

Available in Various Designs
Contact T&R Interior Systems for Custom Designs
- COLOUR**

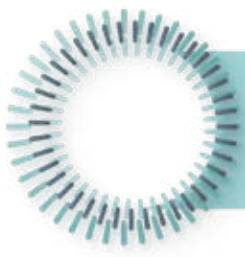
Available in FOCUS polyester colours.
Autex Workstation colours (MOQs apply)



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C MAX SILENCE CLOUD

Acoustic Sound Panel



C Max Silence Cloud Sound Panel is a 40mm fabric wrapped glass wool acoustic ceiling or wall panel.

- Exceptionally high acoustic properties.
- Mid-range priced panel suitable for cafes, restaurants, offices, boardrooms, classrooms, cafes and as a retrofit solution to reduce reverberation time in most commercial and education spaces.
- Suitable to use below an existing ceiling and as wall panels.
- Ideal for use on walls in spaces 3m and higher; where acoustic ceilings are not sufficient to absorb sound.
- An architecturally attractive and acoustically effective design solution.
- Digital customisation option – print your own creative graphics onto the panel.
- Easy installation.
- Prefabricated.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, C Max Silence Cloud Sound Panels were independently verified and meet the Greenguard Emission Certificate standard.




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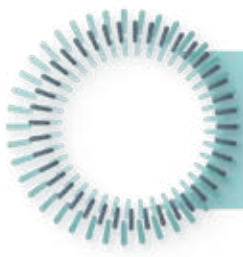


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TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient		
With 50mm air gap (suspended)	NRC 1.0	ISO 354: 2003
With zero air gap (direct fix)	NRC 0.95	
Ceiling Attenuation Class	CAC 20 +	
Light Reflectance	LR 87% + (White Panel only)	
Density	100kg/m ³	
Weight	4kg/m ²	
Fire Test		ISO 5660 Parts 1&2 – Blank Panel Group 1-S
		ISO 5660 Parts 1&2 – Standard Fabric Group 2-S
Fire Retardant Test Custom Fabric	IMO A 471 Pass	BRANZ Cone Calorimeter NZBC C/AS1-AS 27

- **SIZE** 40mm Depth x [2200 x 1200] [1200 x 600]
Other sizes available on request. MOQ applies
- **COLOUR** White. Other colours can be colour matched
- **INSTALLATION** See installation brochure for details.
 - Direct Fix Adhere brackets to wall by mechanical fixing and manoeuvre panel on to the fixing brackets.
 - Ceiling Suspension Suspend from the ceiling using wires and cable locks, or use magnets to adhere directly to the structure.
 - Light Fitting Holes may be cut to allow lighting to be suspended through panels.



HUSH PANELS

Acoustic and Decorative Paneling



Hush Panels are a perforated panel in a variety of finishes that have been designed to replace hard surface wall and ceiling linings to create a high level of acoustic performance. They are ideal for use in commercial interiors, lobbies, gymnasiums, restaurants and schools due to the product's durability and ability to absorb noise.

- Constructed in sheet form for easy use as a wall and ceiling lining and also available in panel form for placement in a suspended ceiling system.
- Panels are made to order and offer a large degree of bespoke design. Additionally, there are a range of standard designs available.
- Substrates available include Radiata Plywood, Hoop Pine, MDF, Melamine, Veneer, Torchguard® MDF and Torchguard® Ply. Certain substrates are able to meet a Group 1-S fire test requirement; other substrates meet Group 1 and Group 3 test requirements.

Hush Panels' acoustic performance has been tested by Marshall Day Acoustics and is dependent on the perforations and backing material.



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LEAD TIMES APPLY

SUBSTRATE

Hush Panels are available in any available wood based sheet material.

- Radiata Plywood
- Hoop Pine
- MDF
- Melamine
- Veneer
- Torchguard® MDF
- Torchguard® MDF Black
- Torchguard® Ply

ACOUSTIC BACKING

Acoustic Backing Polyester acoustic insulation available in black or white.

Autex AAB or other polyester insulation

Variable NRC from 0.25 up to 0.8 dependant on perforation.

Acoustic backing can be supplied as full sheets (2400x1200) or cut to size prior to delivery for easy fitting between battens or studs (Recommended).

FACE FINISH

- Clear lacquer
- Painted
- Veneer
- Stain & Clear
- Meltica
- Timber Veneer

FIRE TEST REPORT

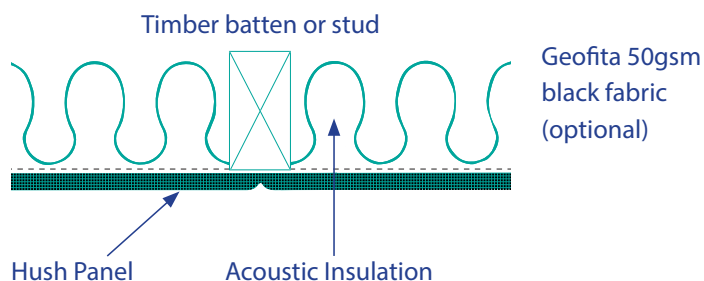
Torchguard MDF, Ply and Strandboard 15

Group 1-S Fire Rating

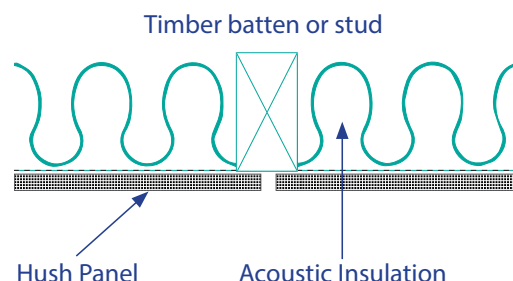
ISO 5660: 2002



VEE JOINT

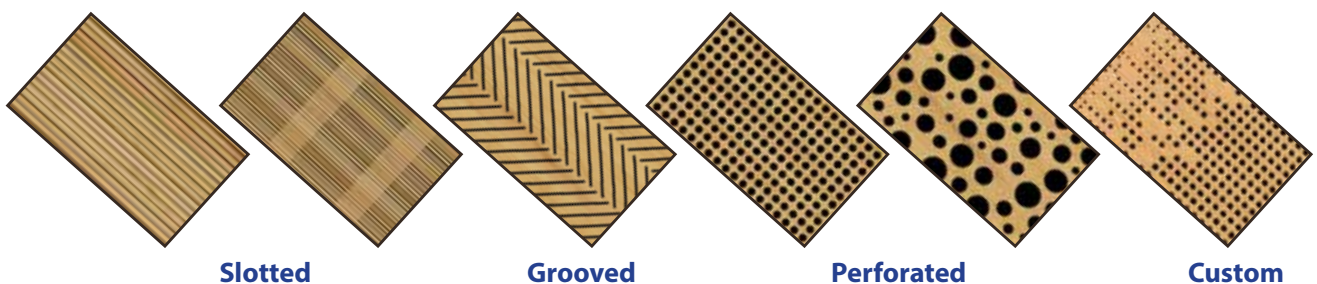


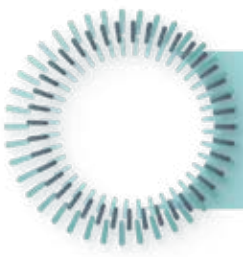
EXPRESSED JOINT



Hush Panels are a wood based product so consideration needs to be taken regarding expansion and contraction especially over large areas.

PERFORATION OPTIONS



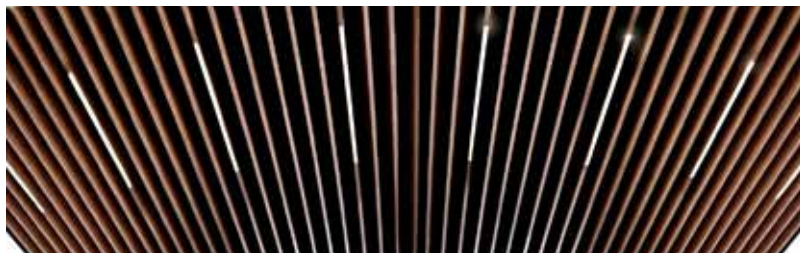


ALUMINIUM BAFFLE

Suspended Ceiling baffle



- The T&R Aluminium Baffle is an elegant linear ceiling, made up of extruded aluminium profiles.
- Has a sleek and seamless appearance. Appropriate for airports, malls, offices, hotel foyers, museums and commercial areas.
- The baffles are aesthetically pleasing and easy to maintain. Unlike timber, the baffle doesn't warp. Powdercoating options allow for a timber look.
- Can be installed with integrated lighting options; Gridlux can be incorporated into the aluminium extrusion and the luminaires are flush with the base of the baffle.
- Powder coat options offer great flexibility in colour.
- Unique and client specific in its suspension system options.
- Add acoustic absorption behind for good reverberation control/high NRC.



Compatible with Gridlux



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LEAD TIMES APPLY

TEST DESCRIPTION

RESULT

Noise Reduction Coefficient

Depends on acoustic material behind

Weight

Depends on configuration

Luminaires

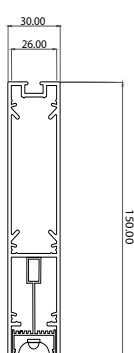
Able to incorporate Gridlux

• SIZE

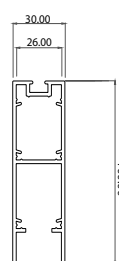
150mm Baffle



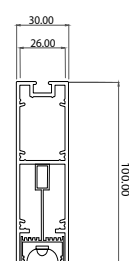
150mm Baffle with Gridlux



100mm Baffle

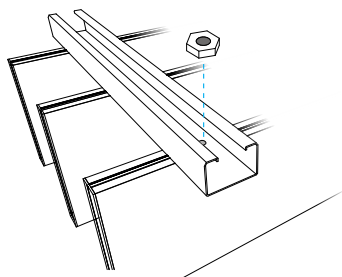


100mm Baffle with Gridlux

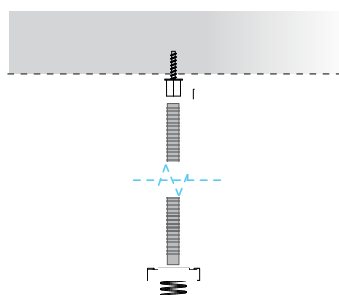


• COLOUR

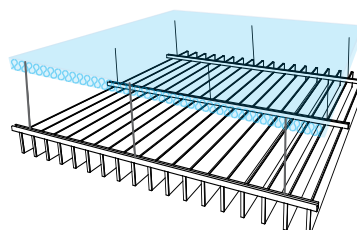
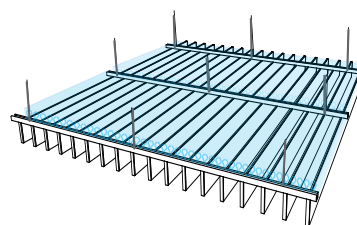
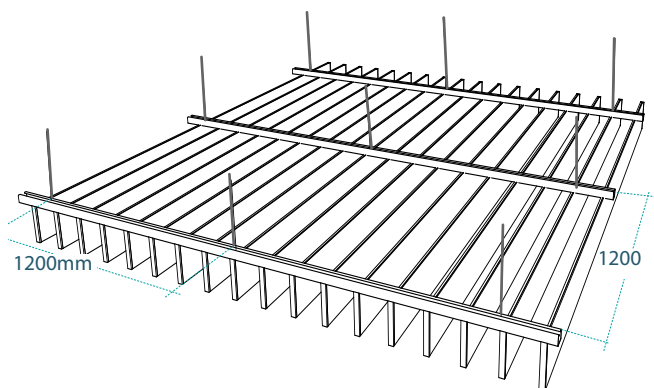
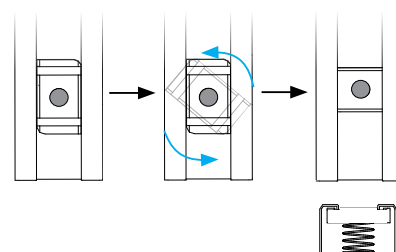
Any powdercoat colour



Threaded rod suspension system



Fixes into Carrier Rail with M10 Spring Nut



Poyester Insulation above the baffle (either directly on top or in the ceiling plenum) will create an acoustically absorbent ceiling

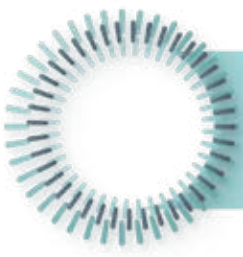


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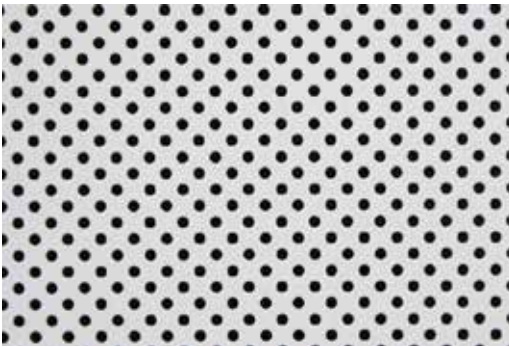
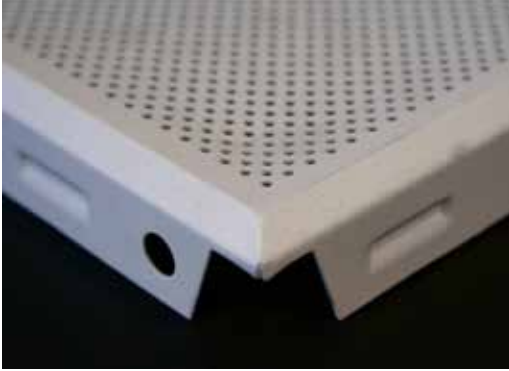
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PLEASE NOTE THAT SOME TILES MAY HAVE A LEAD TIME. CONTACT US FOR LEAD TIME OR ALLOW 12 WEEKS FOR DELIVERY. MINIMUM ORDER QUANTITIES MAY APPLY



METACOUSTIC

Bespoke Metal Ceiling Tile



The Metacooustic range offers bespoke metal ceilings. A variety of designs are available (including a perforated metal pan ceiling tile). Metacooustic offers high quality, immense flexibility with high aesthetic appeal. Tiles are made to order and have as standard a black Soundtex Acoustic Cloth backing to enhance the sound absorption.

Made from high quality aluminium, they are Ideal for use in swimming pools, airports, railway stations, sports halls and other large commercial spaces.

- Metacooustic Tiles are made to order (Indent Item) to maximise flexibility of design as well as aesthetic effect. It is possible to have the tiles manufactured in variable sizes to suit architectural requirements.
- The Sound Absorption Coefficient (NRC) is dependent on the size and configuration of the perforations and can be increased with additional insulation.
- Perforation can be square or round and punched to variable densities for different aesthetic and acoustic preferences.
- Metacooustic Tiles can be made to be compatible with 15mm or 24mm exposed metal suspended ceiling grid systems.
- Metacooustic Tiles have adequate integrity to carry approved down lights, sound and service detailing.



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INDENT ONLY. MOQ
LEAD TIMES APPLY



TEST DESCRIPTION

Noise Reduction Coefficient

RESULT

Standard NRC of 0.6 (Changes depending on configuration and size of perforations). Can be increased to NRC of 0.8 with added insulation backing.

- **SIZE**
600 x 600 mm standard size
Maximum size: 3000 x 1200mm
Other sizes and shapes available on request.
- **COLOUR**
Powdercoat Colours
- **EDGE DETAIL**
Fully Concealed
One way exposed
Rebated
Square Edge





Offices - Auckland - Catalyst



Auckland Museum Butterfly Exhibition - WORKSHOP E



Library - Christchurch - Architectus



Transpower - Boulcott Street - Jasmax



Greenwood Roche - Wellington - Custance
David Hamilton - photographer



Christchurch Boys Auditorium - Jasmex

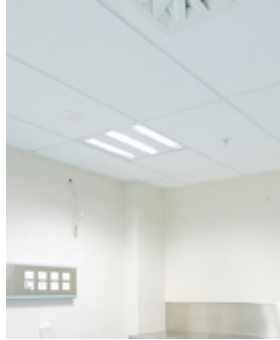
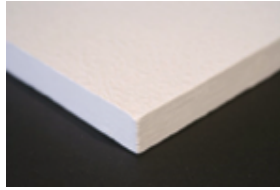


Offices - Wellington - DLA Architects

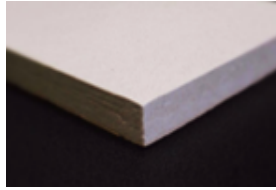


Everil Orr, Auckland - Chow Hill

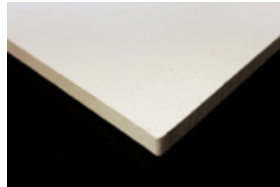
PHONIC CLEAN



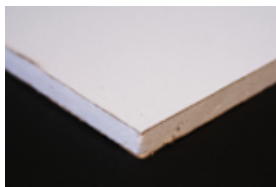
HARMONY
HOSPITONE



FENTA



GYPSUM VINYL



ISO 14644 for air purity classification is the world's most recognised and accepted standard for Cleanroom technology. It measures the amount of particles in ambient air. The classification is divided from ISO Class 1 to ISO Class 9; where Class 1 is best.

Phonic Clean, Daiken Harmony Hospitone and Focus panels achieve ISO Class 3.

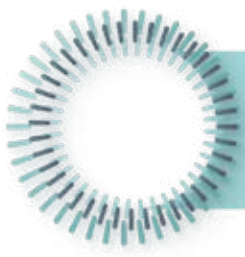
Daiken Harmony Hospitone and Phonic Clean Antibacterial have an anti-bacterial coating.

Where pressured rooms are required; a foam seal tape and clipped tiles can reduce airflow between the room and the ceiling plenum.

Eye Hospital, Hastings - Fat Parrot



Hygiene Applications



PHONIC CLEAN

Acoustic Hygiene Ceiling Tile

INDENT ONLY



Phonic Clean is a hygiene ceiling tile with a refined white painted, monolithic, pre-finished face.

- Suitable for use in medical centres, hospitals, laboratories and other commercial interiors.
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and the tile meets Cleanroom ISO Class 3.
- Water repellent face; can be wiped and cleaned, won't allow moisture penetration.
- Wipeable and cleanable face; Stains don't stick.
- Optional foil backing to allow positive pressure in ceiling plenum.
- Extremely high Noise Reduction Coefficient. Reduces reverberation time and improves speech intelligibility.
- Lightweight tile is ideal for seismic design.

5 year warranty to withstand conditions up to 40° and 99% relative humidity without visible sag. Tiles should be installed in accordance with the grid manufacturer's instructions.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT -

For Green Star rated projects, PHONIC has been verified and meets the Greenguard Emission Certificate standard.



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INDENT ONLY

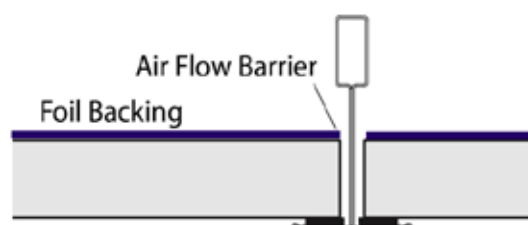
TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC .85	ISO 354:2003
Ceiling Attenuation Class	CAC 20 +	
Light Reflectance	LR 84% +	ASTM E1477-98
Density	100kg/m ³	
Weight	20mm: 2kg/m ²	
Fire Test - ISO 5660 Parts 1&2	Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27
Cleanroom	ISO Class 3	ISO 14644.3:2015
Moisture Rate	≤ 1 %	JC/T 670 – 2005
Thermal Resistance	≥ 0.4 (m ² -k/w)	ASTMC 423
Est. R-Value (m ² k/w)	20mm: R0.5	



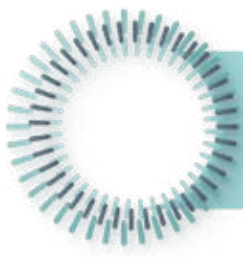
Available in Combo (with Plasterboard backer) 35mm and 50mm

- SIZE**
 - 20mm
 - Square Edge
 - [1200 x 600]
 - To suit 24 mm grid patterns

- EDGE DETAIL**



Phonic Clean also available with an anti-bacterial coating. Testing available on request



DAIKEN HARMONY HOSPITONE

Medical Acoustic Suspended Ceiling Tile

INDENT ONLY



Daiken Harmony Hospitone medical acoustic ceiling tiles have a monolithic white face with a very subtle sandy fibre texture. The monolithic look is an ideal aesthetic choice for many medical spaces. As well as the antibacterial surface, the face is specifically engineered to provide high absorption (NRC) to reduce reverberation time while the density of the mineral fibre provides a good attenuation across the ceiling plenum. This versatile mineral fibre ceiling tile is able to meet most standard acoustic specifications in medical centres.

- Antibacterial face
- Fine, monolithic texture
- High light reflectance
- Tested to the principal requirements in accordance 14644.1:2015 and ISO 14644.3:2015 and meets Cleanroom ISO Class 3.
- High sound absorption qualities, which reduces reverberation time, and a medium Ceiling Attenuation Class (CAC) to reduce sound transfer through the ceiling plenum.
- The Smooth Faced Acoustic Ceiling materials are not only non-combustible, but also less likely to emit gas or smoke, or to melt, break or become deformed under normal fire conditions.
- 30 year lifetime system warranty to withstand conditions up to 50° - 99% relative humidity without visible sag when used with a T&R Interior Systems brand suspension system.



EMISSIONS, SUSTAINABILITY AND THE ENVIRONMENT - For Green Star rated projects, Daiken mineral fibre tiles were independently verified and meet the Greenguard Emission Certificate standard.



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TEST DESCRIPTION - HOSPITONE

BACTERIA	SPECIMEN	VIABLE BACTERIA COUNT/ SPECIMEN (24 HOURS LATER)
Eschericia Coli (3.6×10^4)	Regular tile (non-hospitone coating)	1.1×10^2
	Hospitone coating	10 +
	Bacteria specimen	2.6×10^6
Pseudomonas aeruginosa (4.5×10^4)	Regular tile (non-hospitone coating)	7.8×10^6
	Hospitone coating	10
	Bacteria specimen	2.2×10^6
MRSA mejishirin methicillin resistant staphylococcus aurei (3.8×10^4)	Regular tile (non-hospitone coating)	10
	Hospitone coating	10 +
	Bacteria specimen	1.2×10^6

Test Method: drop each bacteria on specimen and stock - culture 24hrs at 36°C and measure the bacteria count
Tested by Japan Food Research Laboratories



TEST DESCRIPTION	RESULT	TEST METHOD
Noise Reduction Coefficient	NRC 0.70	ASTM C 423
Ceiling Attenuation Class	CAC 36	ASTM E 413
Weight	19mm: 5.3 kg/m ²	
Light Reflectance	LR 1 + 85%	BS 8493:2008
Fire Test - ISO 5660 Parts 1&2	Group 1-S	BRANZ Cone Calorimeter
Relative Humidity	RH 99%	
Cleanroom	ISO Class 3	ISO 14644.3:2015
Thermal Conductivity	0.045 kcal/mh ° C	JIS A 1412
Est. R-Value (m ² k/w)	R0.5	

- SIZE**

19mm Depth Square Edge [1200 x 600] [600 x 600] [1200 x 300]*
 19mm Depth Reveal Edge [1200 x 600] [600 x 600] [1200 x 300]*
 To suit 24 mm grid patterns
**Available on Indent. Other sizes available on request.*
- COLOUR**

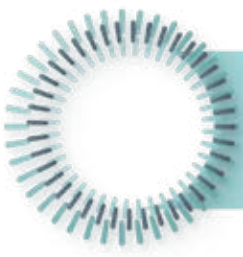
White
- EDGE DETAIL**



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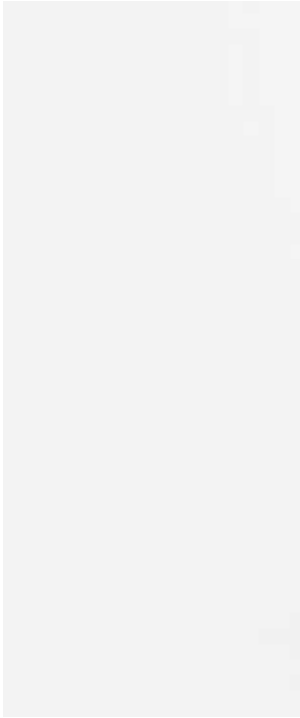
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FENTA

Hygiene Ceiling Tile

INDENT ONLY



Fenta Ceiling Tiles are white with a high-gloss polyurethane finish.

- Fenta tiles have exceptionally high STC and reduce inter-zone sound transfer.
- A high end tile.
- Composed of an extremely durable base, coated with a two pack, non-yellowing, high gloss polyurethane finish.
- Fenta tiles are high pressure steam cured, will not rot and are impervious to corrosion, borer or vermin.
- Due to the hard, high quality, durable and washable finish, Fenta tiles are extremely resistant to chemicals, steam and general soiling. This makes them highly suitable for a multitude of hygiene applications and are a recommended solution in kitchens, fast food outlets, medical centres and sports changing areas.
- Fenta tiles meet both Domestic and International Hygiene regulations when correctly installed in a suspended grid system.



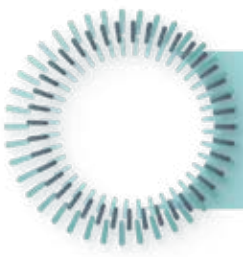
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A diagram showing a vertical rod with a rectangular block on top, supported by a base. The rod is positioned in the center, and the block is centered on top of the rod. The base is a horizontal line with a small vertical line extending upwards from its center, meeting the rod.



GYPSUM VINYL

Suspended Ceiling Tile



The T&R Interior Systems Vinyl Foil Gypsum ceiling tile is a versatile, cost effective product that lends itself to a range of suspended ceiling applications. The tiles are supplied in a standard white finish, in a nominal size of 1200 x 600 x 9mm.

Advantages

- Due to the durable and washable finish of the Vinyl Foil tiles they are highly suitable for a multitude of commercial and hygiene applications such as Retail, Fast Food Outlets, Medical and Sports Facilities.
- The moderately embossed facing gives a crisp clean monolithic look which ensures excellent light reflectance.
- Foil backing balances the tile, enhancing its dimensional tolerance whilst increasing thermal properties.
- Tiles should be installed in accordance with the grid manufacturers instructions.




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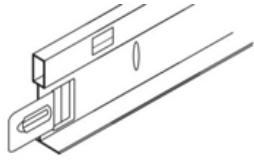
TEST DESCRIPTION	RESULT	TEST METHOD
Light Reflectance	LR 80% +	
Density	790kgs/m ³	
Weight	7.1	
Fire Test - ISO 5660 Parts 1&2	 Group 1-S	BRANZ Cone Calorimeter NZBC C/AS1 – AS27

- SIZE**
 9mm Depth Square Edge.
 [1200 x 600] [600 x 600]
 To suit 15 or 24 mm grid patterns
 Other sizes available on request.
- COLOUR**
 White
- EDGE DETAIL**

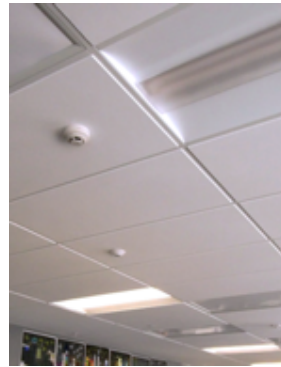
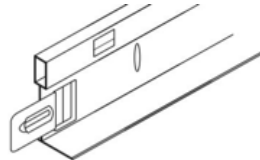


CBI CEILING

15mm



24mm




CBI FLOORING

STEEL

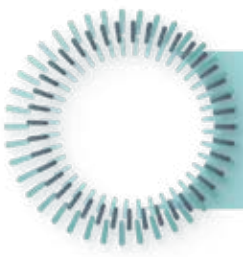


HPL



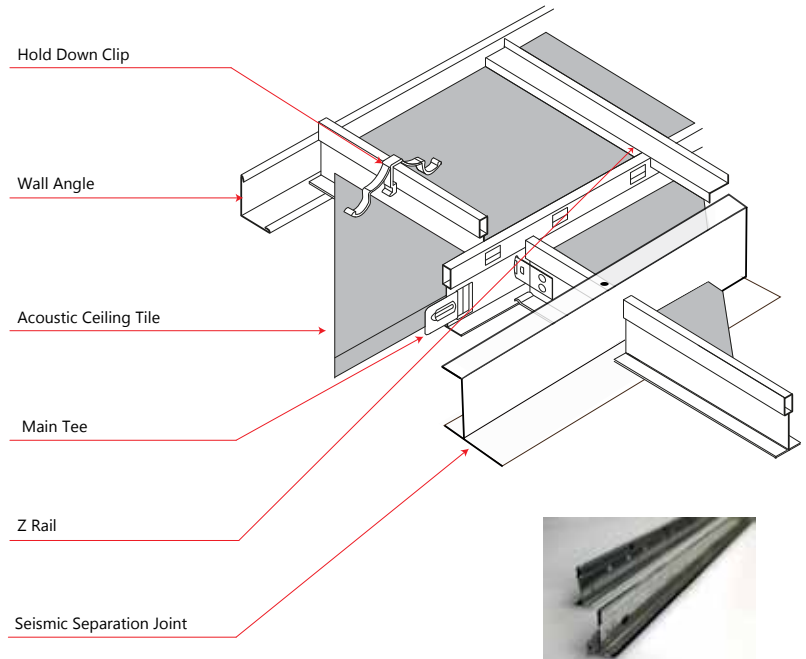


Seismic Design Solutions



CBI GRID

15mm and 24mm Two Way Exposed Grid System



- Heavy duty configuration with a 38mm web height to both Main and Cross Tees.
- Main Tees punched at 100mm centres with first punch at 50mm.
- Convenient punch out to both Web and Bulb for ease of suspension.
- Seismically tested and proven to meet current NZ Standards.
- Compatible with seismic separation joint and Cetram T Bar lighting.
- High quality Italian design and manufacture.
- PS1 and PS4 are available from our consulting Engineer as required.
- Site specific ceilings will be designed to both ultimate and serviceability limit state to meet current NZ Code.



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Main Tee

The Main Tee is manufactured from hot dipped galvanised steel in a double web, balanced tee design, in 3700mm lengths. It is finished with a pre-painted steel cap. The Main Tee is conveniently punched at 100mm centres and includes suspension points in both the bulb and web. Main tees extend from wall to wall and are the primary ceiling support. End splices allow for greater lengths. Slots along the runner side allow cross tee to connect. Hold down clips are available as required.

Cross Tees

The Cross Tees are manufactured in the same configuration in 1200mm and 600mm lengths. Lay on edge detail for neatness of installation coupled with resistance to twist. They connect between main tees using interlocking tabs. The high tensile clips ensure a positive locking system for quick installation

Wall Angle

L-shaped pieces that fasten to the wall and support the ends of the main runners and cross tees.

Z Rail

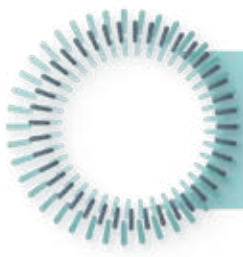
A seismic support that suspends the edge of the grid without relying on the perimeter.

Border

Cut panels around the perimeter of the room. They should be greater than half of a tile to maintain balance and add visual appeal.

- **PROFILE**

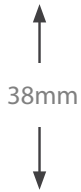




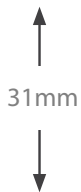
CBI

Access Flooring

Antistatic HPL



Fully Steel Encapsulated



Seismically, access floors are a very safe alternative to running heavy equipment in the ceiling plenum. They are a great solution for projects where technical flexibility and frequent modifications of electrical, telephone and/or computer wiring is required.

- Suitable for offices, banks, control stations and open plan office areas.
- The accessible inter-space created by the Access Floor allows for unobstructed alignment of all electrical, hydraulic ducts, computer cabling and telephone wiring.
- T&R standard stock component is a high density wood fibre core panel; with an external covering of Antistatic HPL or Steel Encapsulated panel. Other finishes are available on indent.
- Modular substructure systems support medium weight loads.

TECHNICAL SPECIFICATIONS

PHYSICAL DATA SUMMARY		ANTISTATIC HPL	FULLY STEEL ENCAPSULATED
High Density	720 Kg/m ²		
Fire Reaction	Class A1		
Thickness		38 mm	31 mm
fire reaction UNI EN 13501-1		Bfl-s1	Bfl-s1
fire resistance UNI EN 13501-2		REI 30	REI 30
center of panel - deflection 2.5 mm		4.2 KN	5.3 KN
center of panel - ultimate load		12.0 KN	13.4KN
loading class		6	6



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STRUCTURE

WEIGHT

0.270 kg/pcs

TECHNICAL DATA

Aspects of performance value (UNI 13964 - 2005)

FIRE REACTION

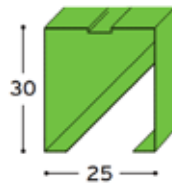
(Under structure) Class A1 DM 10/03/05 DEC. 2000/147/CE

MECHANICAL RESISTANCE

(Under structure) 548.80 N/m² Normal break load

DURABILITY

Protection against corrosion



SYSTEM COMPONENTS

Pedestal

Size

90mm

3.3 pcs/m²



PVC WASHER

Size

90mm

33 pcs/m²



STRINGER

Size

L560mm

6 pcs/m²

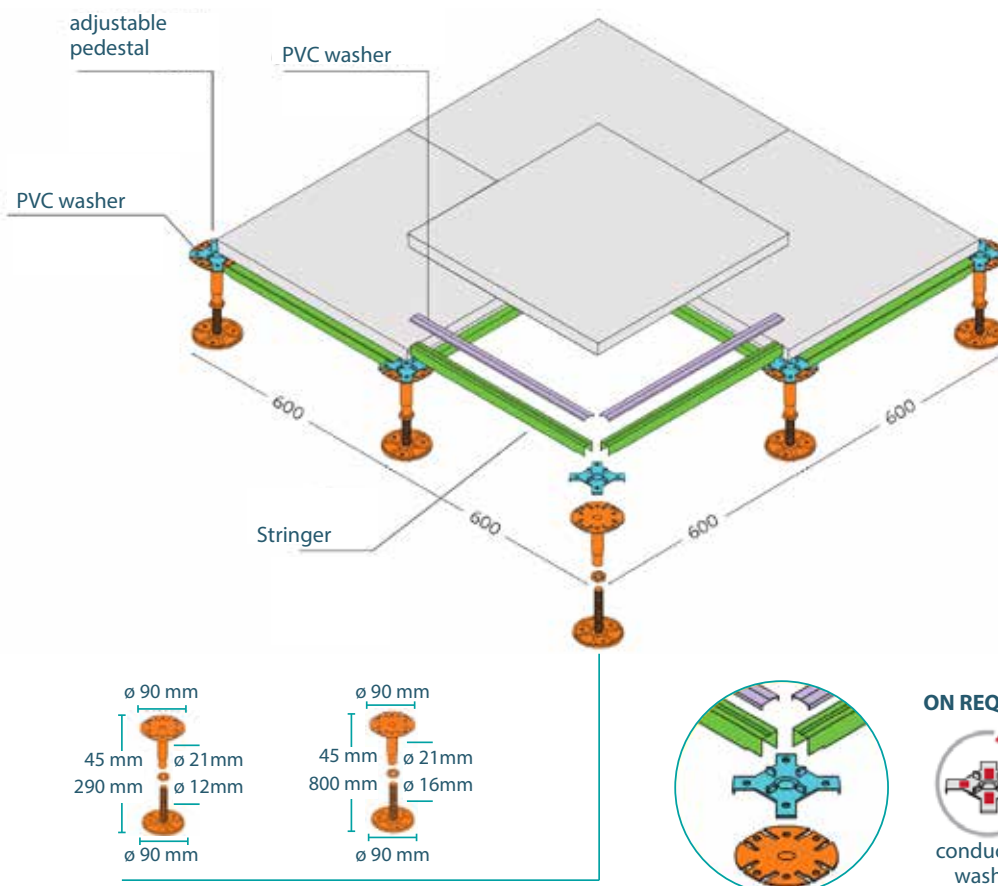


PVC WASHER

Size

L560mm

6 pcs/m²



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PLEASE NOTE THAT SOME TILES MAY HAVE A LEAD TIME. CONTACT US FOR LEAD TIME OR ALLOW 12 WEEKS FOR DELIVERY. MINIMUM ORDER QUANTITIES MAY APPLY

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