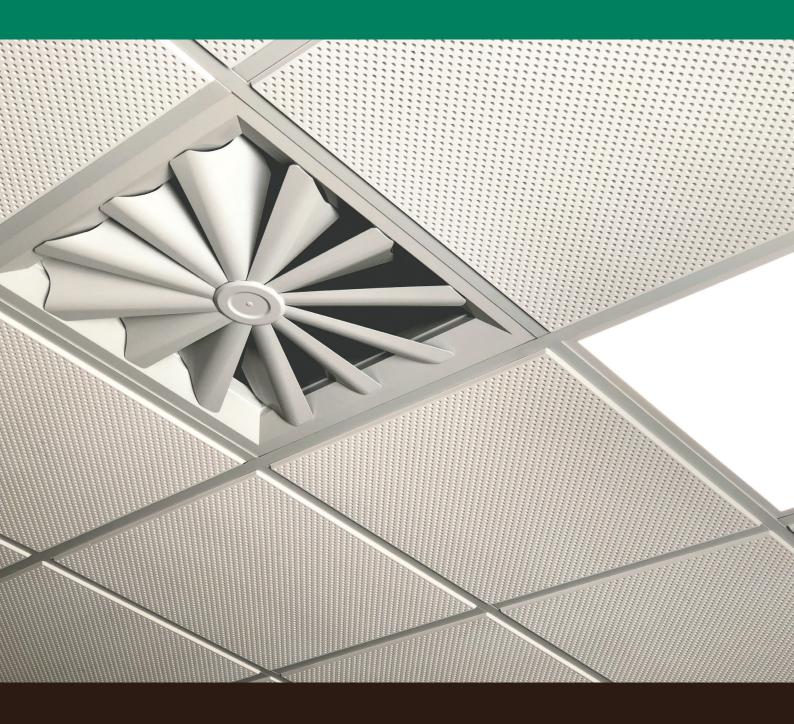
Australian Plaster Acoustics

Quiet Sound – Ultimate Plaster Acoustic Ceiling Tiles







COVER AND THIS PAGE ECOCHECK INSTALLATION HUMPTY DOO SENIOR SCHOOL DARWIN NT AUSTRALIA



SHADEX INSTALLATION ZUCCOLI PRIMARY SCHOOL DARWIN NT AUSTRALIA

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Quiet Sound ULTIMATE COLLECTION

The **Quiet Sound** Ultimate collection was developed from our *Standard Range of Plaster Acoustic Ceiling Tiles.* It involved major research and development that highlighted the substantial relationship between acoustic performance and the weight of the tiles. As a consequence of research and development, the **Quiet Sound** collection provides:

- New innovative modern designs only achievable from cast plaster
- Exceptionally sharp tile profiles possible only with the use of silicone rubber moulds
- Higher acoustic & sound transmission properties
- Lightweight properties which allow lighter structural ceiling grid
- Easier installation
- Easier packaging & transportation

The **Quiet Sound** consists of perforated ceiling tiles and panels, perfect for acoustic engineers architects and interior designers who are looking for aesthetic designs coupled with high acoustic properties. **Quiet Sound** provides subtle innovative solutions for creating a unique, decorative finish giving many benefits.

KEY SELECTION ATTRIBUTES

- Cost effective ceiling and wall solution
- High-quality product
- Decorative or non-decorative
- High humidity performance. Our acoustic tiles and panel do not sag in humid conditions. They are able to withstand high humidity and temperature from 0° to 80°C
- Dimensional stability up to 95% humidity
- Anti-mould paint applied at the time of manufacture which stops growth of mould (Tiles are pre-painted white)
- Simple installation Plaster Acoustic Tiles.
- Plaster glass panels screw fix to steel or timber battens
- Flush jointing
- High acoustic performance all products having NRC ranges between 0.70 up to 0.90 NRC
- CAC between 32 to 45 dB for acoustic ceiling tiles

- Reduces noise reverberation
- Prevents dust entering into room space
- Reduces echo
- Able to distinguish between music and speech
- Fire rated to group 1 certification
- High light reflective
- Good R values in plaster acoustic tiles 0.80 thermal resistance
- All products 100% Australian made

All acoustic tests for NRC carried out by RMIT University of Melbourne and CSIRO Melbourne in accordance with ASTM-C423-90A NRC (Noise Reduction Coefficient)

Acoustic tests for CAC (Ceiling Attenuation Class) carried out by Acoustic Laboratories Australia Pty Ltd in accordance with ASTM E1414/E1414 M 11A for CAC

APPLICATIONS

- Commercial office buildings
- Show rooms
- Schools and universities
- Restaurants, cafes, food halls
- Retail complexes
- Shopping centres
- Auditoriums and concert halls
- Libraries and galleries
- Cinemas
- Home theatres
- Foyers for public buildings
- Music rooms
- Public Domains
- Health Care Areas

THE ULTIMATE COLLECTION CONSISTS OF

Lightweight plaster acoustic ceiling tiles for exposed grid ceiling system

Six modern designs that have excellent NRC and CAC properties, made to suit 600 x 600mm steel or aluminium grid systems.

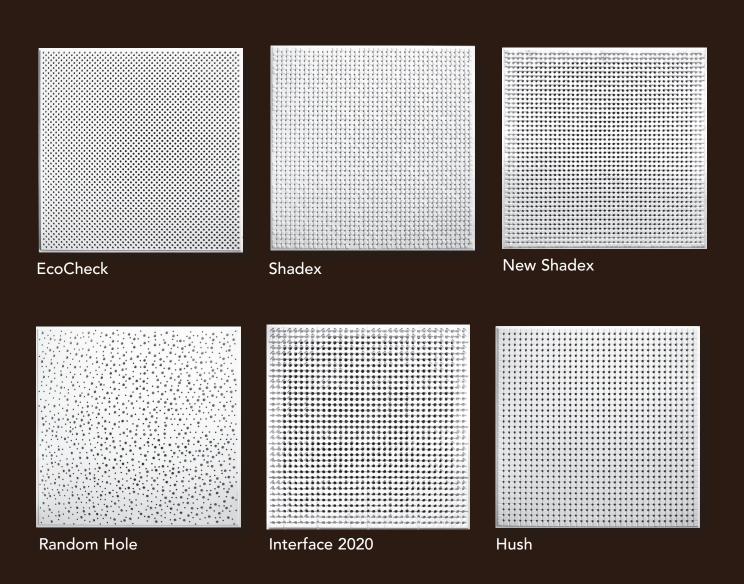
2. Plaster acoustic ceiling tiles for concealed direct fixing

Two striking designs for V-edged finish, giving exceptional NRC and CAC properties. These are made to be directly fixed to furring channels.

ECOCHECK INSTALLATION DARWIN NT AUSTRALIA

LIGHT WEIGHT PLASTER ACOUSTIC CEILING TILES

 made from silicon rubber moulds giving a sharp and distinctive attribute



LIGHT WEIGHT PLASTER ACOUSTIC CEILING TILES

• for exposed grid ceiling systems.

Plaster acoustic ceiling tiles are manufactured from reinforced casting plaster and offer excellent sound absorption, controlled sound transmission and decorative finishes.

The tiles are supplied with an integrated sound absorbent batt inserted during casting and are produced in a range of varying designs. These tiles are pre-painted white.

ACOUSTIC PROPERTIES

These tiles measure 30mm thick, 600 x 600mm with a 20mm thick sound absorbent batt giving a high NRC and CAC value.

ADVANTAGES

- 1. Dimensionally stable will not warp or buckle
- 2. Not affected by humidity
- 3. Fire resistant
- 4. Acoustic properties
- 5. Redecoration does not affect the properties
- 6. Easy removal and replacement
- 7. Mass 12.2-12.4 kg/m²

PLASTER ACOUSTIC TILE RANGE :

ECOCHECK Diamond pattern tile

SHADEX

Multi-level mosaic faced tile with regular 5mm dia holes spaced 13mm apart

NEW SHADEX

Multi-level mosaic faced tile with regular 7mm dia holes spaced 13mm apart

INTERFACE 2020

Indented faced tile with regular 10mm dia holes

HUSH

Uniform chocolate block pattern tile

RANDOM HOLE

Plain faced tile with Random Hole circular perforations over the entire face

CASE STUDY



Palmerston Police Station, NT Location: 2 Kettle St, Palmerston City NT,

The new Palmerston Police Station in Darwin will provide upgraded 24-hour Policing capability which includes, administration offices, operational areas, watch house, community hall, and services building and covered parking areas.

Solution

The EcoCheck ceiling tile was selected due to its superior acoustic performance. EcoCheck not only has high sound absorption performance specifications with a NRC value of 0.8, but it is also coupled with a high CAC of 35Db provides an efficient barrier to airborne sound transmission between adjacent closed offices.

Over four thousand tiles were used in this project and were installed in most areas, including command centre rooms, police records rooms, multiple meeting/ interview rooms and corridors where acoustic consideration was imperative.



ECOCHECK INSTALLATION PALMERSTON POLICE STATION DARWIN NT AUSTRALIA

EcoCheck



PROPERTIES

- Bevelled edge.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

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EcoChec	EcoCheck ACOUSTIC PERFORMANCE AND SPECIFICATION										
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg		
21.3%	20	600 x 600	35	0.80	0.80	0.78	0.80	12.20	4.45		

Australian Plaster Acoustics



Quiet Sound Collection

CASE STUDY

Seven TEN SPLIT Fairfield Bowling Club Location: 22 railway parade Fairfield NSW



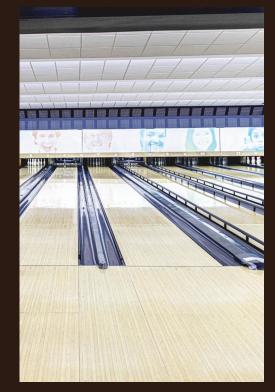
Storm damage had cause existing suspended ceiling tiles to collapse over the bowling alley. It was a good opportunity to replace these tiles with high performance plaster acoustic tiles.

Being a bowling alley, noise reverberation was a substantial factor. Eco Check was recommended for controlling in-room noise.



These tiles had to be installed onto a Rondo Ceiling grid on a staggered angled plane.

The Eco check design offered an attractive ceiling solution with the highest acoustic rating possible to reduce reverberation





SHADEX INSTALLATION

ZUCCOLI PRIMARY SCHOOL DARWIN NT AUSTRALIA



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PROPERTIES

- Bevelled edge.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

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Shadex ACOUSTIC PERFORMANCE AND SPECIFICATION									
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg
10.1%	30	600 x 600	32	0.80	0.75	0.72	0.80	12.20	4.5

CASE STUDY

Darwin High School NT Location: Bullocky Point, The Gardens, NT, Australia

The Northern Territory Government recently worked on an extensive project with Australian Plaster Acoustics, to help solve a recurring issue with failing ceiling systems.

This project was considerably large in scale, replacing approximately 3000 square metres of ceilings in the administration building of the high school, all whilst working with a limited time frame during mid-term school holidays. There was a need to manage the sound reverberation and reduction of noise within the learning environments at Darwin High School, so an acoustic ceiling tile was a necessary inclusion

The Solution

Australian Plaster Acoustics put forward the high quality Shadex option of custom made ceiling tiles - a 600mm x 600mm acoustic bespoke ceiling tile made with Gyprock Casting Plaster – a grit free speciality plaster that produces a strong moulded product with a clean cast face.

Incorporating a 3D grid pattern of tiny square blocks randomly aligned on the tile, Shadex provides a rigid, faceted diamond appearance once installed.

The ceiling tiles created were unique in style, aesthetically pleasing and most importantly, offered excellent sound absorption capabilities.

The Result

The Shadex design offered an attractive ceiling solution with the highest acoustic rating possible to reduce noise transfer and sound reverberation in crucial learning environments. The Northern Territory Government is extremely pleased with the successful outcome and innovative product delivered by Australian Plaster Acoustics, with the refurbished ceiling improving the overall performance of the administration space.



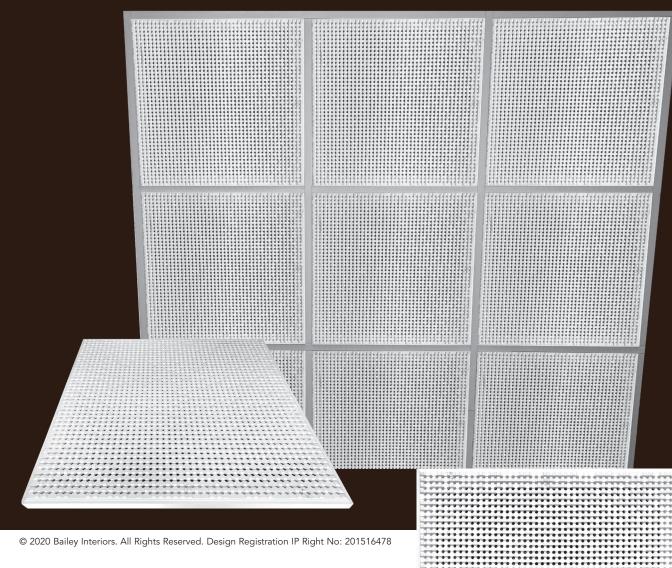


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SHADEX INSTALLATION DARWIN HIGH SCHOOL NT AUSTRALIA

New Shadex



PROPERTIES

- Bevelled edge.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

New Shadex ACOUSTIC PERFORMANCE AND SPECIFICATION										
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg	
19.8%	30	600 x 600	38	0.80	0.80	0.81	0.80	12.20	4.5	

CASE STUDY

Forrest Parade Special Needs School NT Location: 120 Flynn Circuit, Bellamack Palmerston NT, Australia



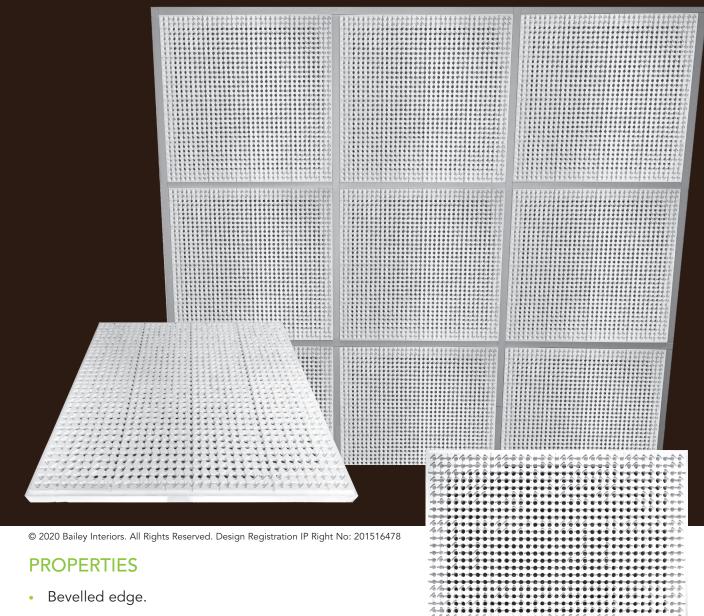
180 m

Rain noise from the low-pitched metal roof penetrating through the corrugated tin roof and into the ceiling below made learning difficult.

Northern Territory Government specified Echo Check on the Forest parade special needs school, because of the high CAC qualities provided by the plaster scrim over the insulation, (this had an added effect of reducing the rain noise from the low-pitched metal roof,) as well as the sound absorption abilities within the room, the result was most satisfactory and resulted in reducing noise penetrating through the corrugated tin roof and into the ceiling below.



Interface 2020



- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

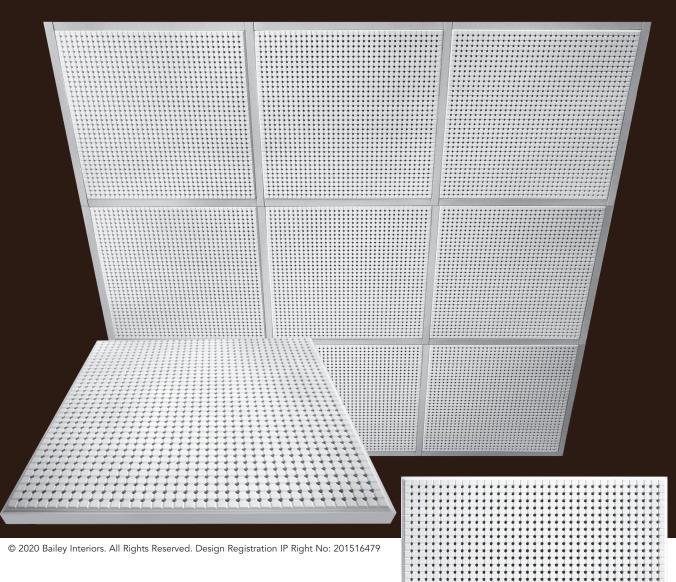
Interface 2020 ACOUSTIC PERFORMANCE AND SPECIFICATION										
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg	
26.7%	30	600 x 600	39	0.80	0.80	0.81	0.80	12.20	4.5	



HUSH INSTALLATION (TOP) MINING COMPANY HEAD OFFICE FANNIE BAY NT AUSTRALIA

HUSH INSTALLATION (BOTTOM) CHARLES DARWIN UNIVERSITY NT AUSTRALIA

Hush



PROPERTIES

Bevelled edge.

Hu

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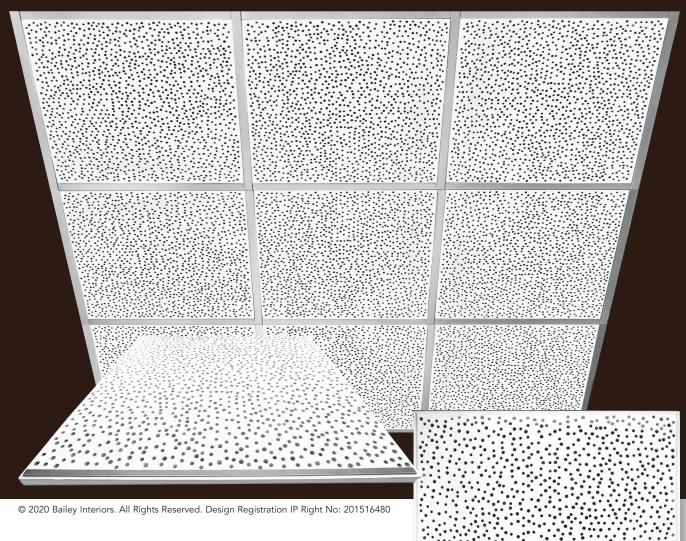
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

ush /	Sh ACOUSTIC PERFORMANCE AND SPECIFICATION										
pen Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg		
0.5%	30	600 x 600	34	0.80	0.70	0.69	0.78	12.20	4.5		



RANDOM HOLE INSTALLATION KINGSGROVE RSL SYDNEY NSW AUSTRALIA

Random Hole



PROPERTIES

- Bevelled edge.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with ceiling grid exposed 24mm T Bar steel or aluminium 600 x 600 system.

Random Hole ACOUSTIC PERFORMANCE AND SPECIFICATION											
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg			
16.6%	30	600 x 600	35	0.80	0.70	0.80	12.20	4.5			

PLASTER ACOUSTIC CEILING TILES

for concealed direct fixing

These tiles are designed specially for a concealed grid system. Installation is by direct fixing to furring channels. The tiles are supplied with an integrated sound absorbent batt inserted during casting and are produced in two different patterns.

ACOUSTIC PROPERTIES

These tiles measure 30mm thick, 600 x 600mm with a 20mm thick sound absorbent batt giving outstanding NRC and CAC results.

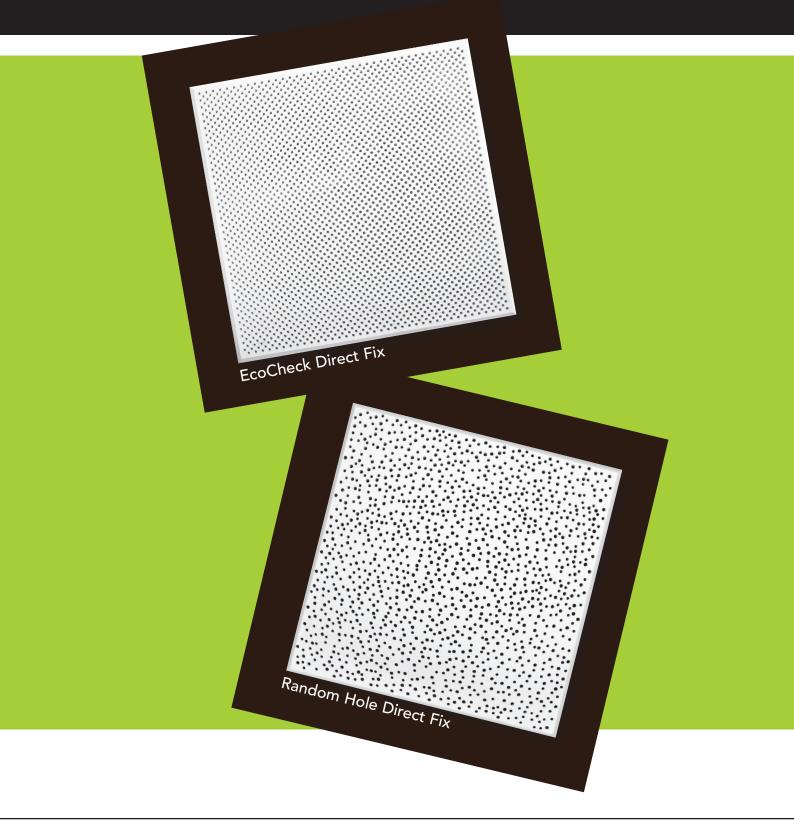
ADVANTAGES

- 1. Dimensionally stable will not warp or buckle
- 2. Not affected by humidity, no variance up to 95 % humidity
- 3. Fire resistant Group 1 Rating
- 4. Acoustic properties excellent NRC and CAC Rating
- 5. Mass 12.0-12.5 kg/m2

THE RANGE CONSISTS OF: ECOCHECK DIRECT FIX CEILING TILE A diamond pattern tile

RANDOM HOLE DIRECT FIX CEILING TILE A plain faced tile with Random Hole circular perforations over the entire tile

PLASTER ACOUSTIC CEILING TILES FOR CONCEALED GRID SYSTEM



CASE STUDY

The Summit : Offices Location: 734 Victoria Road Ryde NSW Australia



The Summit is a brand new, mixed use development that required acoustic treatment. Australian Plaster Acoustics was asked to help control acoustics within the building.

There was a need to manage the sound reverberation and reduction of noise within the commercial office space of the development, so acoustic ceiling tiles were a necessary inclusion.

The EcoCheck Direct Fix system was chosen due to its high sound absorption (NRC = 0.80) and high sound blocking (CAC = 42) properties, making them exceptionally high performing. These plaster acoustic ceiling tiles were also lightweight which made installation easier and ideal for this project.

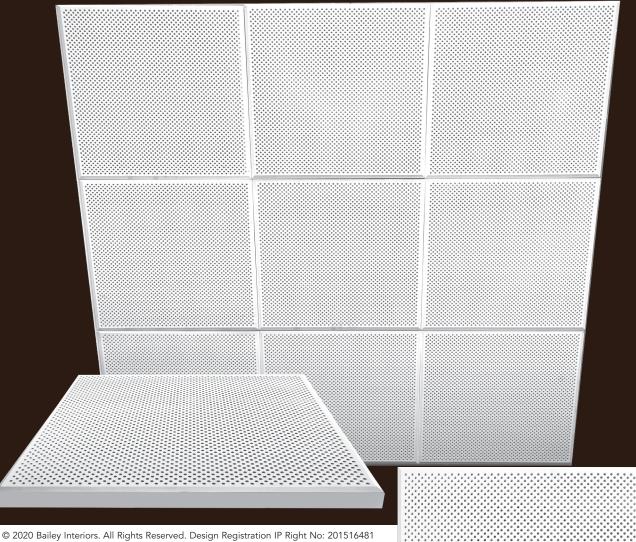
The EcoCheck design offered an attractive ceiling solution with the highest acoustic rating possible to reduce noise transfer and echoing.

The refurbished ceiling has substantially improved the overall performance and aesthetics of the office.



ECOCHECK DIRECT FIX INSTALLATION THE SUMMIT OFFICE RYDE NSW AUSTRALIA

EcoCheck Direct Fix



PROPERTIES

- V edged tile.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with concealed Rondo Furring Channel No 155 system.

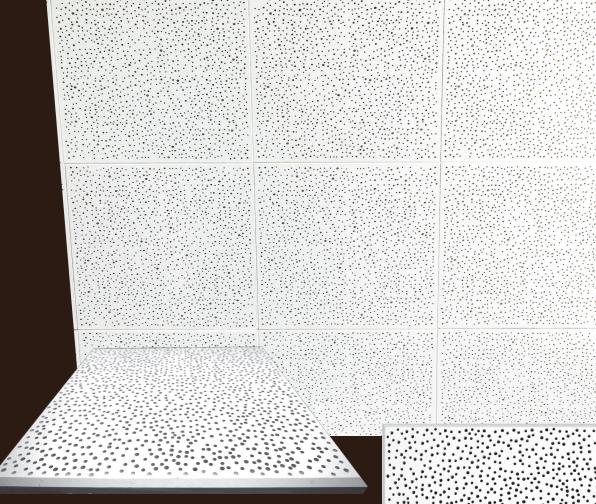
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EcoCheck DF ACOUSTIC PERFORMANCE AND SPECIFICATION											
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg		
21.3%	30	600 x 600	42	0.80	0.8	0.79	0.80	12.5	4.5		



RANDOM HOLE DIRECT FIX INSTALLATION LDS CHURCH LAMI FIJI

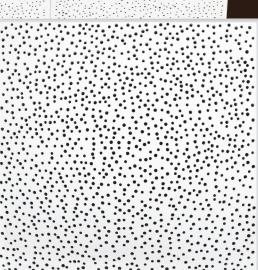
Random Hole Direct Fix



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PROPERTIES

- V edged tile.
- Insulation is integrated. Fiberglass insulation batt inserted into tile during manufacture. 32Kg/m³, 20mm thick Glasswool
- To be used in conjunction with concealed Rondo Furring Channel system.



Random Hole DF ACOUSTIC PERFORMANCE AND SPECIFICATION											
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	SAA	% Light Reflective	Mass Kg/m²	Weight per Tile - Kg		
12.0%	30	600 x 600	38	0.80	0.75	0.72	0.80	12.5	4.5		

SUMMARY

LIGHTWEIGHT PLASTER ACOUSTIC TILES – EXPOSED GRID CEILING SYSTEM

Tile Dimensions: 600mm x 600mm x 30mm Thick, Mass 12.20 Kg/m ²											
	Onen		Glass	wool			0/ Linkt				
	Open Area	NRC	CAC B ¹	CAC dB ²	SAA	R Value	% Light Reflective	Suspension			
EcoCheck	21.3%	0.80	35	38	0.78	0.80	0.80				
Shadex	10.1%	0.75	32	35	0.72	0.80	0.80				
New Shadex	19.8%	0.80	38	41	0.81	0.80	0.80	Duo1/Duo x1200			
Interface 2020	26.7%	0.80	39	42	0.81	0.80	0.80	Duo2/600			
Hush	10.5%	0.70	34	37	0.69	0.80	0.78				
Random Hole	11.5%	0.70	35	38	0.70	0.80	0.76	V			

PLASTER ACOUSTIC TILES – CONCEALED DIRECT FIXING

Tile Dimensions: 600mm x 600mm x 30mm Thick, Mass 12.50 Kg/m ²											
	0	Glasswool					o/ 11 1.				
	Open Area	NRC	CAC dB ¹	CAC dB ²	SAA	R Value	% Light Reflective	Suspension			
EcoCheck DF	21.3%	0.80	42	45	0.79	0.80	0.80	∱ Furring			
Random Hole DF	12.0%	0.75	38	41	0.72	0.80	0.80	Rondo 155 ↓			

1 – CAC Tile only

2 - CAC R3.5 insulation batts, 1800 each side of partition

SUMMARY - PHYSICAL PROPERTIES

- Material: Glass reinforced plaster
- Surface finish: Factory applied white Anti Mould paint (Plaster acoustic tiles only)
- Flame spread/ fire resistance: Conforms to BCA Spec Cl 10 tested to AS/NZS 3837 1998 Group 1
- Thermal resistance (R Value): 0.80 m²k/w
- Insulation: FBS-1 Glasswool Insulation, 32Kg/m³, compressed to 20mm thick, with lightweight black acoustic fabric backing
- This product has a "non-dangerous goods" classification
- Dimensional stability up to 95% humidity

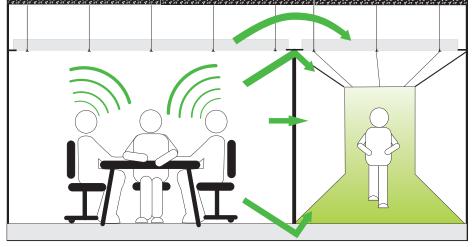
CAC - Ceiling Attenuation Class

ABOUT CAC - Ceiling Attenuation Class

CAC is an important measure of sound transfer between adjacent rooms and or a corridor.

Ceiling Attenuation Class indicates the ceilings ability to prevent airborne sound from travelling between adjacent rooms when the dividing wall does not connect with the structural ceiling.

Higher Values are better. A CAC value of 35 dB or above is considered to be very good.

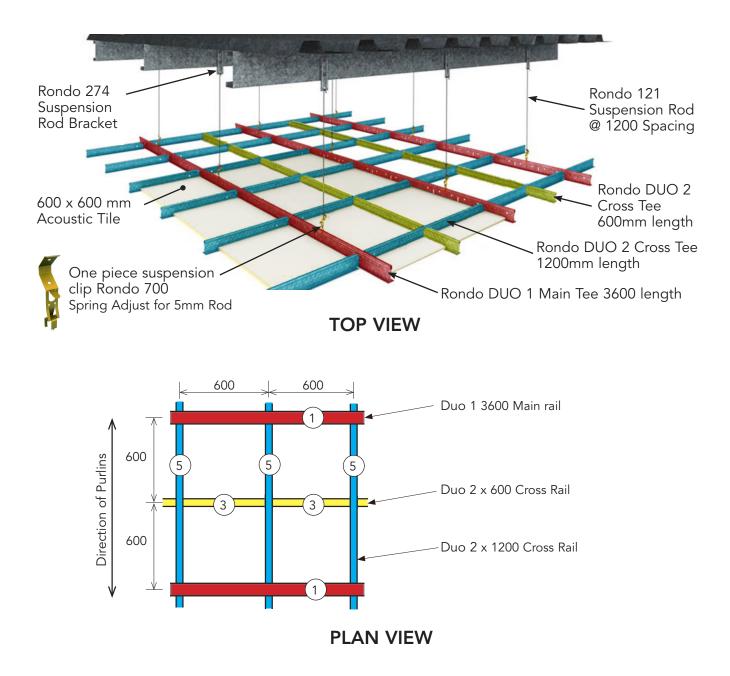


INSTALLATION TIPS

LIGHT WEIGHT PLASTER ACOUSTIC CEILING TILES, 600 X 600 MM RANGE

- 1. Plan ceiling layout to provide even margins at the perimeter.
- 2. Centre the ceiling both ways ensuring centre lines are at right angles.
- 3. Fix wall angle trim to perimeter walls at the correct height set by a level line. Mitre the wall angle trim around piers and columns.
- 4. Fix ceiling grid in accordance to Rondo grid layout using Duo system.
- 5. Cutting tiles can generally be avoided by designing the ceiling so that whole tiles or panels extend as close as practicable to the room area perimeters and then filling to the wall with a plaster board margin.
- 6. If cutting cannot be avoided the following typical methods are recommended.
 - When ordering plaster acoustic ceiling tiles make sure to order solid tiles with the same pattern but without the acoustic insulation, these separate tiles will make cutting of the tiles much easier to perform.
 - Use a router bit to cut panels and tiles to the required size. The router bit rebates the tile to enable installation into the ceiling grid.
 - Panels and tiles can also be cut to size with a panel saw.
 - Cable penetrations and sprinkler head holes should be cut into solid tiles or panels using a drill with an appropriate hole saw attachment.
 - Down light & pipe penetrations should also be cut into solid tiles or panels using a key hole saw or a drill with an appropriate hole saw attachment.

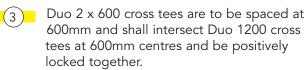
GRID SYSTEM LAYOUT PLASTER ACOUSTIC CEILING TILE 600 X 600 MM RANGE



The Duo 1 main tee shall be hung on soft galvanize rod or 2.5mm wire, accurately leveled. Suspension clips shall be spaced at 1200mm centres along the Duo 1 main tee.



Duo 2 main tees to be spaced at 1200mm centres. Duo 2 X 1200 cross tees shall intersect main tees at 600mm centres and be positively locked together.



Wall angle shall be securely fixed to the wall at 600mm centres providing a true level edge.

The suspension hangers, main tees and cross tees shall be spaced as not to exceed the design ceiling load, or

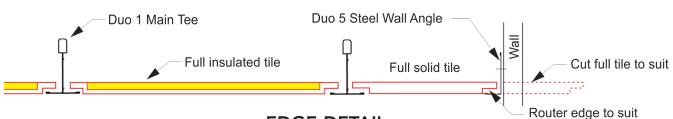
as required to prevent deflection, in excess of 1/360 of the span of cross tee or main tee.

Extra hangers are to be provided for light fittings and conditioning units etc.

All light fittings are to be supported on the main tee.

INSTALLATION

Exposed Suspended Grid Installation Using RONDO DUO Ceiling System



EDGE DETAIL

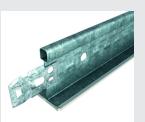
RONDO DUO COMPONENTS



Rondo DUO 1 24 x 38mm Main Tee 3600 mm Length



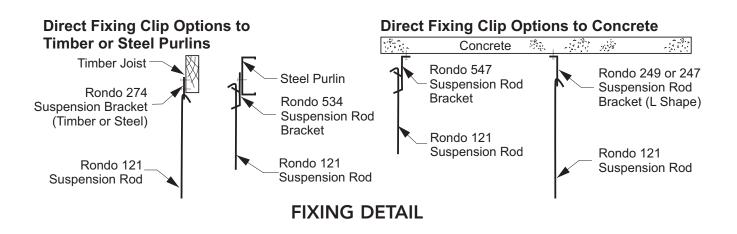
Rondo DUO 2 24 x 34mm Cross Tee 1200 mm Length



Rondo DUO 2 24 x 34mm Cross Tee 600 mm Length



Rondo DUO 5 25 x 19mm Steel Wall Angle



RONDO SUSPENSION ROD HANGERS



Rondo 274 Suspension Rod Bracket (Timber/ Steel)



Rondo 547 Adjustable Hanger (Concrete)



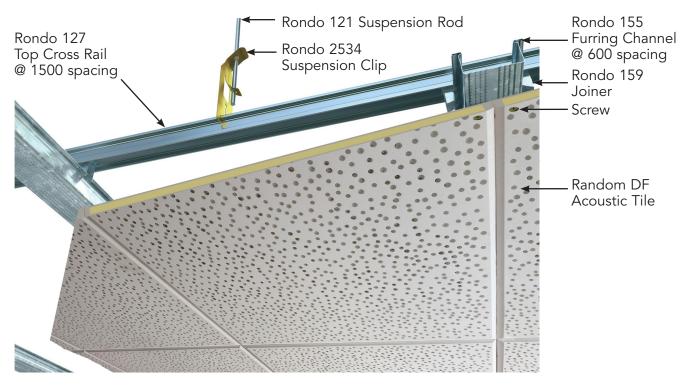
Rondo 534 Adjustable Hanger (Purlins)



Rondo 247 Suspension Rod Bracket (Concrete)

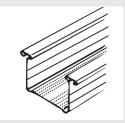
INSTALLATION Concealed Grid Installation RONDO KEY-LOCK® Ceiling System

CONCEALED SUSPENDED CEILING INSTALLATION



BOTTOM VIEW Typical Ceiling Installation with RONDO KEY-LOCK® Ceiling System

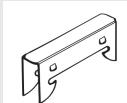
RONDO KEY-LOCK® Components



155 Furring Channel



Rondo 127 Top Cross Rail



159 Joiner



Rondo 121 Suspension Rod



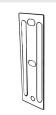
Rondo 247 Suspension Rod Bracket



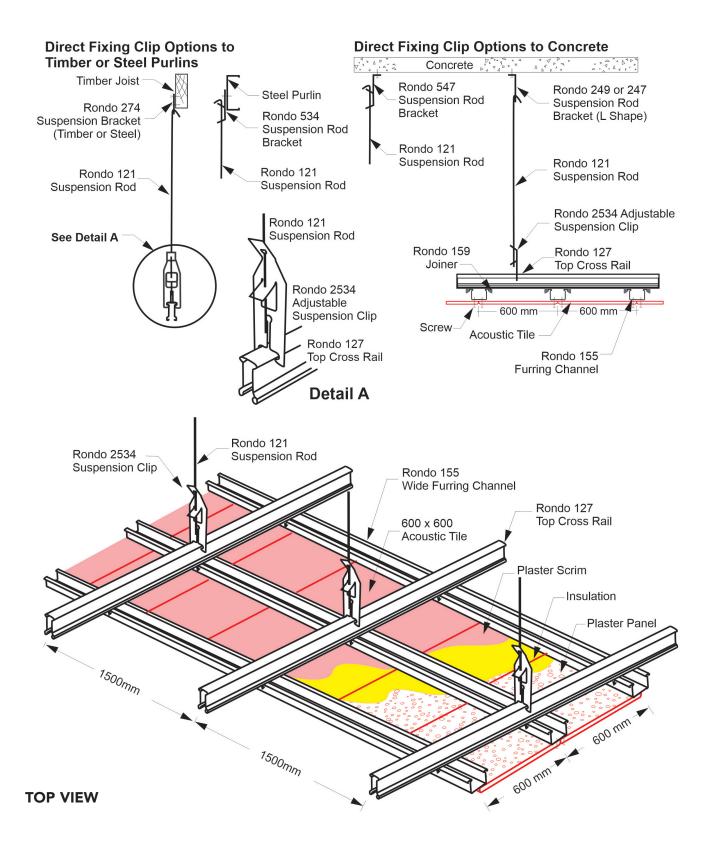
Rondo 547 Adjustable Suspension Hanger



Rondo 2534 Suspension Clip



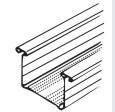
Rondo 274 Suspension Bracket

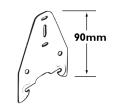


INSTALLATION Concealed Grid Installation Using RONDO KEY-LOCK® Ceiling System

DIRECT FIX CEILING INSTALLATION

Typical Direct Ceiling Installation with RONDO KEY-LOCK® Components





155 Furring Channel

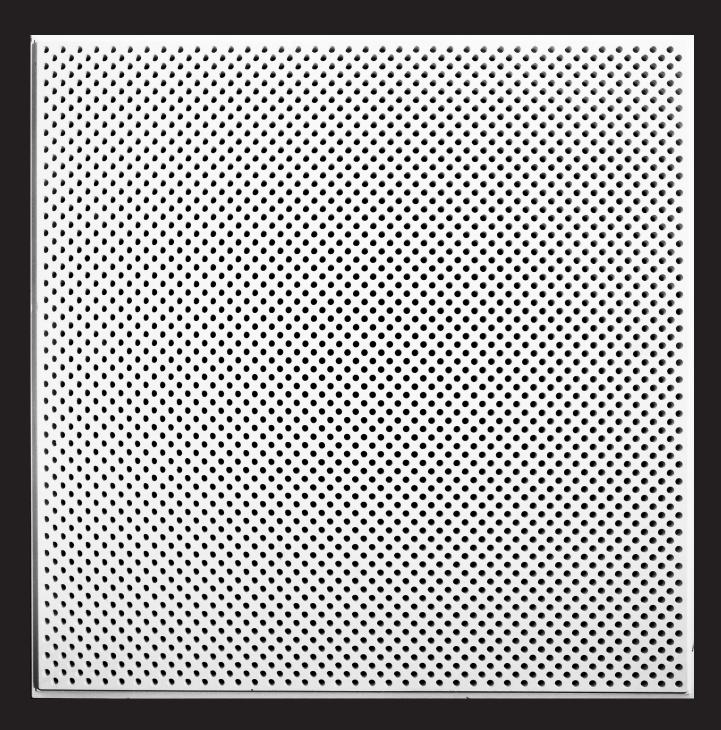
156 DIrect Fix Clip

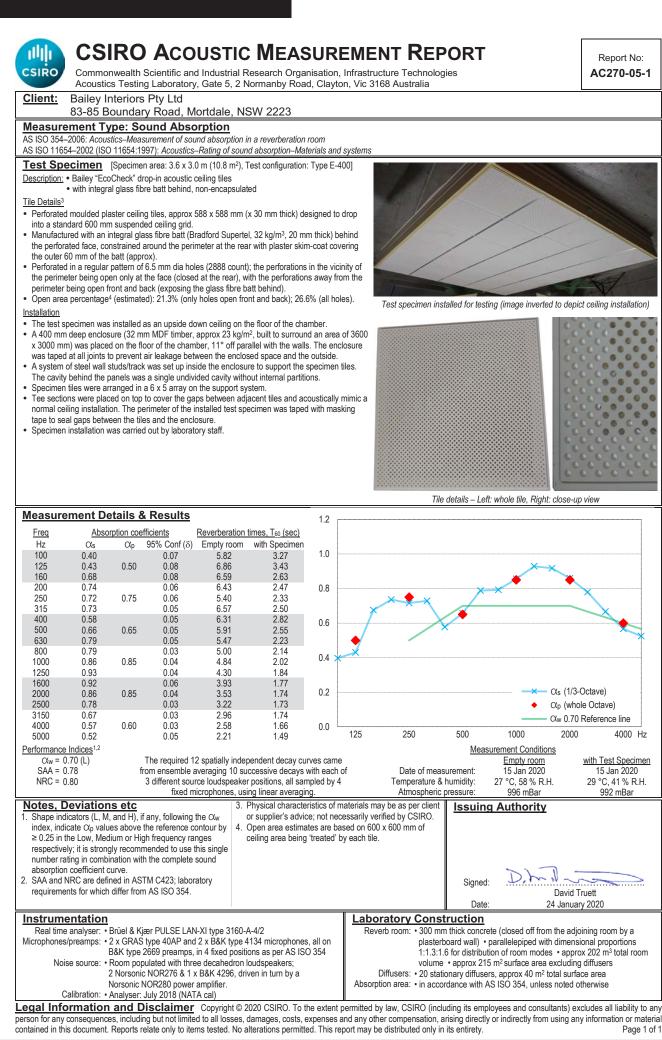
The 156 Direct Fix Clip is able to fix the 155 Furring Channel to steel purlins or timber joists in ceiling applications



TEST RESULTS

EcoCheck





Australian Plaster Acoustics – Ph (02) 9533 3909

All dimensions are in mm and are approximate

ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

16-095-4

Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

ALA Test No.: Client: Specimen: Detail:

Australian Plaster Acoustics Ecocheck tegular edge 600 x 600 Plaster Acoustic Tile

Description of Specimen:

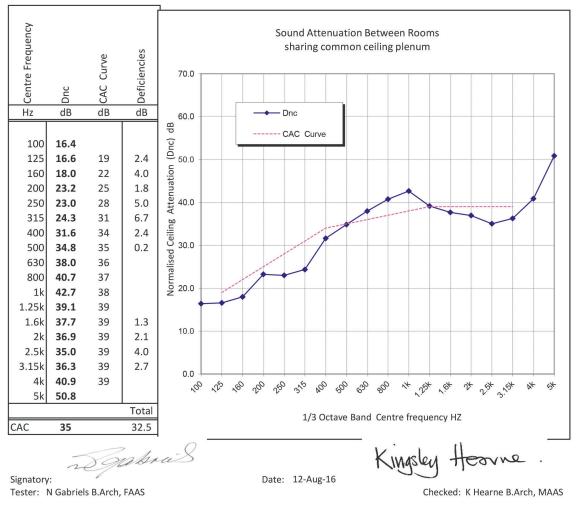
Ecocheck Tile, Tegular Edge 600 x 600 X 28mm Plaster Acoustic TileMeas. Date:10-Aug-16Nominal open area 22.7%25mm glasswool insulation @ 32 kg/m3; compressed to 20mm10-Aug-16Thin 2mm plaster skim coat over insulation to seal tileNominal weight per tile 4.35 kg10-Aug-16Lay in Tee Bar grid, Rondo Duo 1 & 2210-Aug-16

CAC

35

Tested in accordance with ASTM E1414 / E1414M - 11a

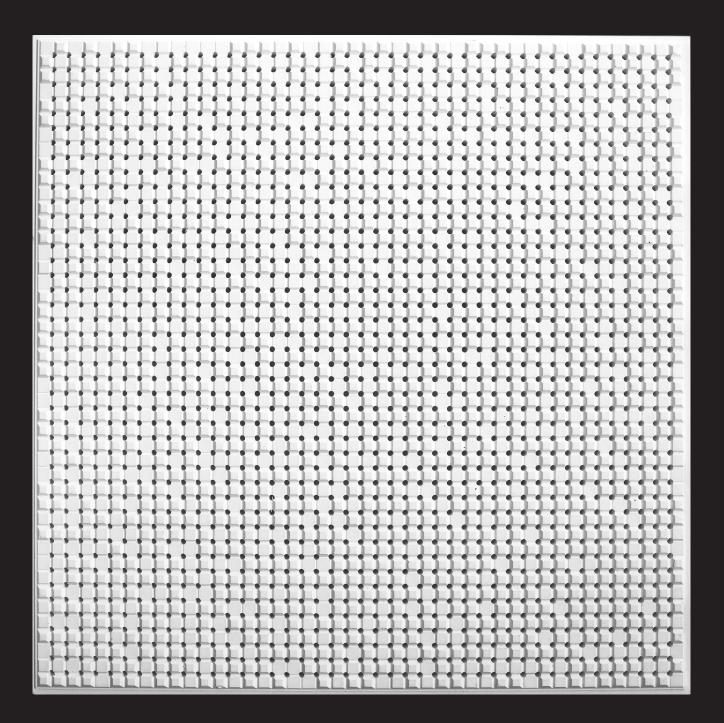
CEILING ATTENUATION CLASS

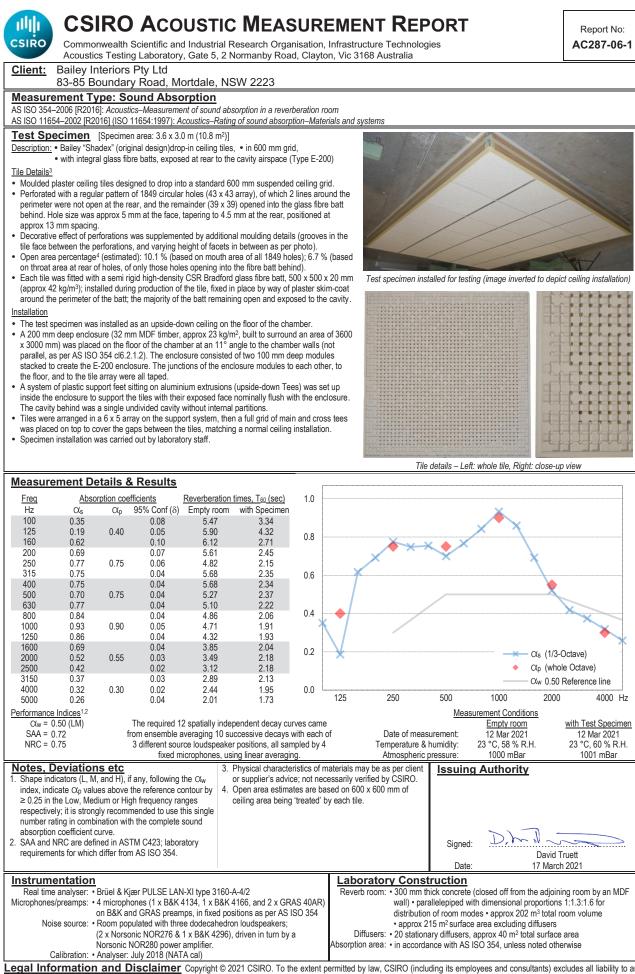


16-095-4L Ecocheck.xlsx

Page 7 of 7

TEST RESULTS SHADEX





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ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

ALA Test No.:	16-091-2
Client:	Australian Plaster Acoustics
Specimen:	Shadex tegular edge
Detail:	600 x 600 Plaster Acoustic Tile

Description of Specimen:

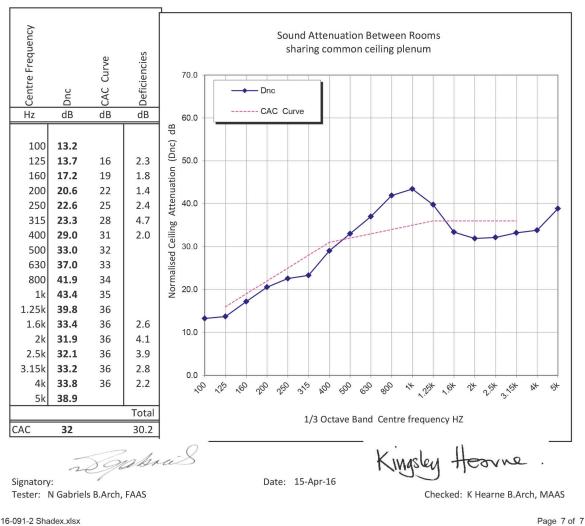
Shadex Tile, Tegular Edge 600 x 600 28mm thick Plaster Acoustic Tile Meas. Date: 13-Apr-16 Nominal open area 15% 25mm glasswool insulation @ 32 kg/m3; compressed to 20mm Thin 2mm plaster skim coat over insulation to seal tile Weight per tile4.5 Kg Lay in Tee Bar grid

CAC

32

Tested in accordance with ASTM E1414 / E1414M - 11a





TEST RESULTS

NEW SHADEX

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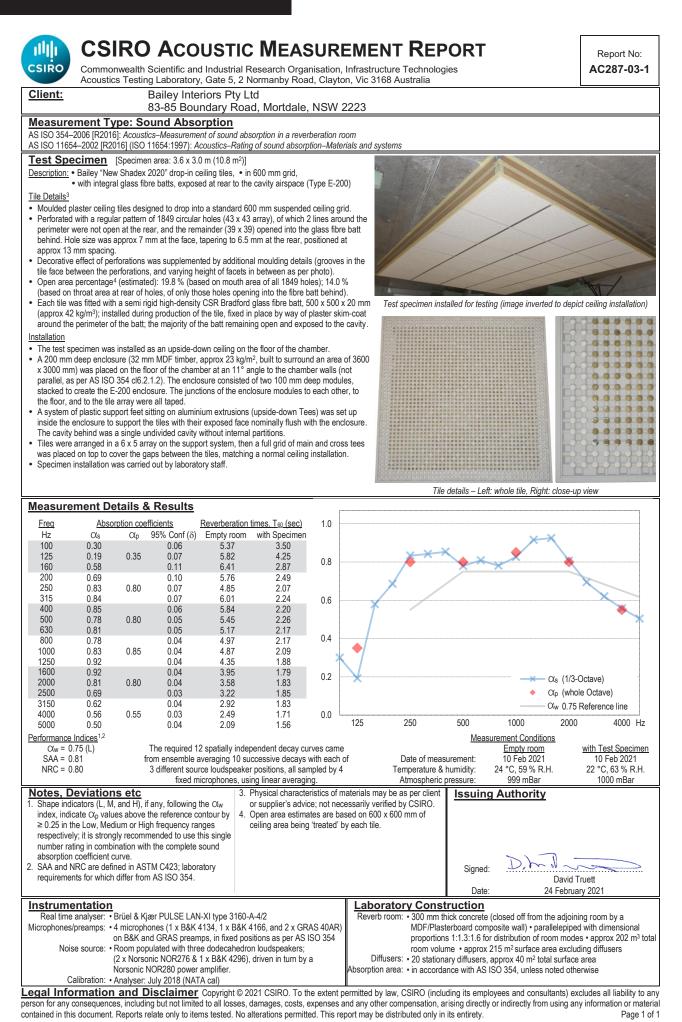
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ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

Client:	
ALA Test No.:	
Specimen:	
Detail:	

Australian Plaster Acoustics 20-093-1 New Shadex Plaster Acoustic Tile Polyester Insulation

Description of Specimen:

New Shadex Tile, Tegular Edge 600 x 600 X 28mm thick Plaster Acoustic TileMeas. Date:27-Aug-2025mm Polyester insulation @ 32 kg/m3; compressed to 20mm20mm20mm20mmTile is perforate with 7mm holes at 13mm centres10mm20mm20mmThis provides 22% open area in perforation, 19% in Tile20mm20mm20mmSkim coat plaster over large percetage of holes20mm20mm20mmRondo Duo 2, Exposed 24mm Main and Cross Tee bar grid20mm20mm20mmCeiling continuous over Partition Cap20mm20mm20mm

CAC

38

Test Standard: ASTM E1414 / E1414M - 16

CEILING ATTENUATION CLASS

Centre Frequenc Sound Attenuation Between Rooms Deficiencies CAC Curve sharing common ceiling plenum 70 Dnc Dnc Hz dB dB dB CAC Curve 60 В 100 19 (Dnc) 125 19 22 2.6 50 160 21 25 4.1 Normalised Ceiling Attenuation 200 27 28 0.8 250 25 40 31 6.1 315 29 34 4.7 400 34 37 2.7 30 500 38 38 630 42 39 800 43 40 20 45 1k 41 1.25k 47 42 1.6k 46 42 10 44 42 2k 0.5 2.5k 41 42 3.15k 40 42 1.5 0 0,00 40 42 1.7 N/ 4k 3 5k 47 Total 1/3 Octave Band Centre frequency HZ CAC 38 24.6

This Data Sheet must only be read in conjunction with full report

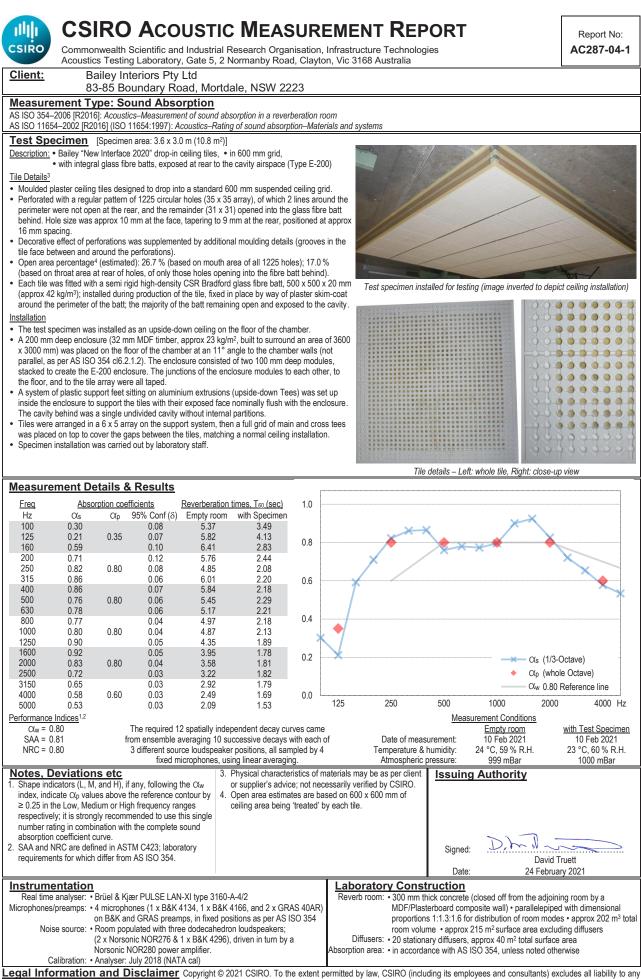
20-093-1 New Shadex Poly-insul-Data

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TEST RESULTS

INTERFACE 2020

lala. -----.............................. *^_____* /@/@/@/@/@/@/@/@/



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ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

Client:	Australian Plaster Acoustics
ALA Test No.:	20-093-2
Specimen:	Interface 2020 Plaster Acoustic Tile
Detail:	Polyester Insulation

Description of Specimen:

Interface 2020 Tile, Tegular Edge 600 x 600 X 28mm thick Plaster Acoustic TileMeas. Date:31-Aug-2025mm Polyester insulation @ 32 kg/m3; compressed to 20mm9mm holes at 16mm centres24% open area in perforation, 21% in TileSkim coat plaster over large percetage of holesRondo Duo 2, Exposed 24mm Main and Cross Tee bar gridExposed 24mm Main and Cross Tee bar grid

CAC

39

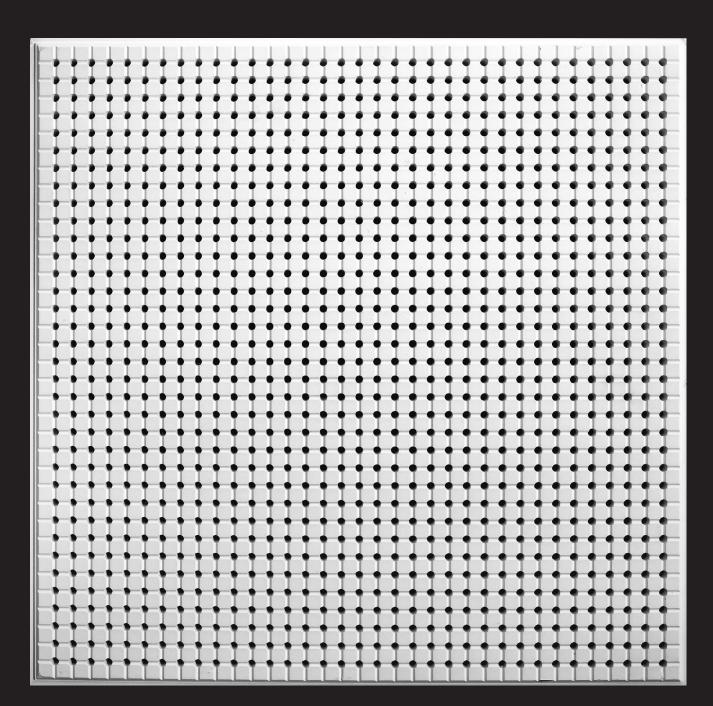
Test Standard: ASTM E1414 / E1414M - 16

CEILING ATTENUATION CLASS

Centre Frequend Sound Attenuation Between Rooms Deficiencies Curve sharing common ceiling plenum 70 CAC Dnc Dnc Hz dB dB dB CAC Curve 60 dВ 100 17 Normalised Ceiling Attenuation (Dnc) 125 21 23 2.3 50 22 3.9 160 26 29 200 25 3.9 40 250 26 32 6.2 315 27 35 7.9 35 400 38 2.8 30 39 500 38 1.1 630 41 40 800 43 41 20 1k 46 42 1.25k 48 43 1.6k 46 43 10 2k 46 43 2.5k 43 43 3.15k 41 43 2.3 0 25 100 ,00 41 1.8 5 43 NX+ 4k 5k 48 Total 1/3 Octave Band Centre frequency HZ CAC 39 31.2

This Data Sheet must only be read in conjunction with full report

TEST RESULTS



CSIRO

Client:

CSIRO ACOUSTIC MEASUREMENT REPORT

Commonwealth Scientific and Industrial Research Organisation, Infrastructure Technologies Acoustics Testing Laboratory, Gate 5, 2 Normanby Road, Clayton, Vic 3168 Australia

83-85 Boundary Road, Mortdale, NSW 2223

Measurement Type: Sound Absorption

Bailey Interiors Pty Ltd

AS ISO 354–2006: Acoustics–Measurement of sound absorption in a reverberation room

AS ISO 11654–2002 (ISO 11654:1997): Acoustics–Rating of sound absorption–Materials and systems

Test Specimen [Specimen area: 3.6 x 3.0 m (10.8 m²), Test configuration: Type E-400]

<u>Description:</u> • Bailey "Hush" drop-in acoustic ceiling tiles • with integral glass fibre batt behind, non-encapsulated

Tile Details3

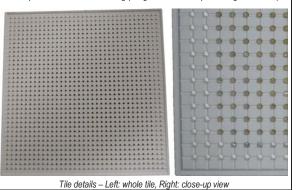
- Perforated moulded plaster ceiling tiles, approx 588 x 588 mm (x 30 mm thick) designed to drop into a standard 600 mm suspended ceiling grid.
- Manufactured with an integral glass fibre batt (Bradford Supertel, 32 kg/m³, 20 mm thick) behind the perforated face, constrained around the perimeter at the rear with plaster skim-coat covering the outer 60 mm of the batt (approx).
- Perforated in a regular pattern of 7.0 mm dia holes (1225 count); the perforations in the vicinity of the perimeter being open only at the face (closed at the rear), with the perforations away from the perimeter being open front and back (exposing the glass fibre batt behind).
- Open area percentage⁴ (estimated): 10.5% (only holes open front and back); 13.1% (all holes).
 Decorative effect of perforations supplemented by additional moulding details (grooves between the perforations).

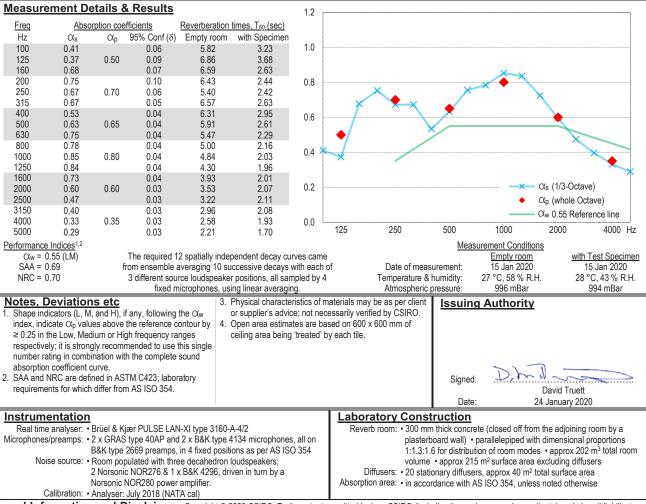
Installation

- The test specimen was installed as an upside down ceiling on the floor of the chamber.
- A 400 mm deep enclosure (32 mm MDF timber, approx 23 kg/m², built to surround an area of 3600 x 3000 mm) was placed on the floor of the chamber, 11° off parallel with the walls. The enclosure was taped at all joints to prevent air leakage between the enclosed space and the outside.
 A system of steel wall studs/track was set up inside the enclosure to support the specimen tiles.
- A system of steel wall studs/track was set up inside the enclosure to support the specimen tiles. The cavity behind the panels was a single undivided cavity without internal partitions.
 Specimen tiles were arranged in a 6 x 5 array on the support system.
- Tee sections were placed on top to cover the gaps between adjacent tiles and acoustically mimic a
 normal ceiling installation. The perimeter of the installed test specimen was taped with masking
 tape to seal gaps between the tiles and the enclosure.
- Specimen installation was carried out by laboratory staff.



Test specimen installed for testing (image inverted to depict ceiling installation)





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ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

CAC

34

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

ALA Test No.: Client: Specimen: Detail: **16-091-5 Australian Plaster Acoustics** Hush Tile- Tegular Edge 600 x 600 Plaster Acoustic Tile

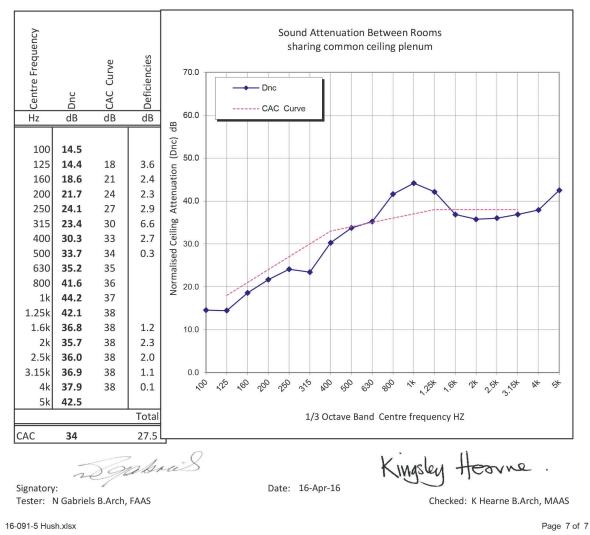
Description of Specimen:

Hush Tile, Tegular Edge 600 x 600 X 28mm Plaster Acoustic Tile 6mm perforated plaster face. Nominal open area 21.4% 25mm glasswool insulation @ 32 kg/m3; compressed to 20mm Thin 2mm plaster skim coat over insulation to seal tile Nominal weight per tile 4.5 kg Lay in Tee Bar grid - Rondo Duo 1 and 2 Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

Tested in accordance with ASTM E1414 / E1414M - 11a

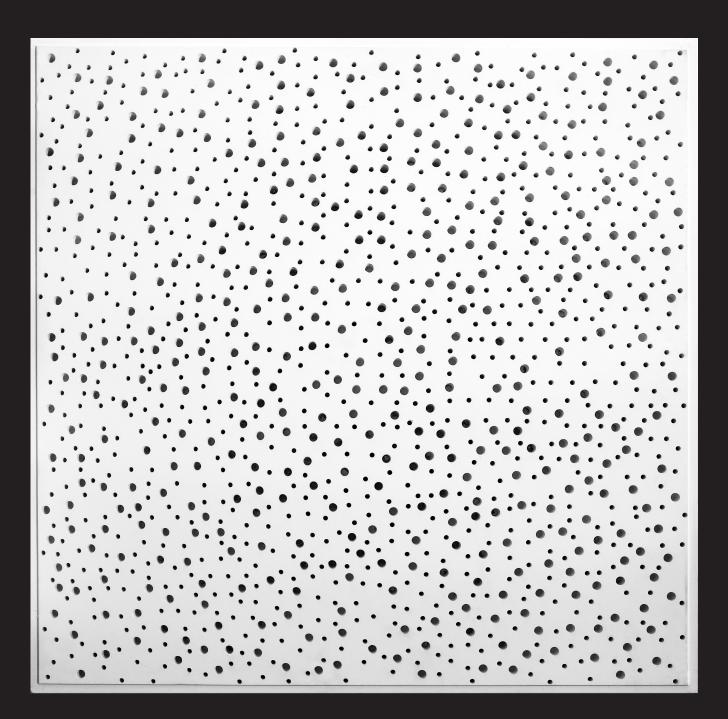
Meas. Date: 14-Apr-16





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TEST RESULTS Random



Quiet Sound Collection CSIRO ACOUSTIC MEASUREMENT REPORT Report No: CSIRO Commonwealth Scientific and Industrial Research Organisation, Infrastructure Technologies AC270-01-1 Acoustics Testing Laboratory, Gate 5, 2 Normanby Road, Clayton, Vic 3168 Australia Client: Bailey Interiors Pty Ltd 83-85 Boundary Road, Mortdale, NSW 2223 Measurement Type: Sound Absorption AS ISO 354–2006: Acoustics–Measurement of sound absorption in a reverberation room AS ISO 11654–2002 (ISO 11654:1997): Acoustics–Rating of sound absorption–Materials and systems Test Specimen [Specimen area: 3.6 x 3.0 m (10.8 m²), Test configuration: Type E-400] Description: • Bailey "Random" drop-in acoustic ceiling tiles · with integral glass fibre batt behind, non-encapsulated Tile Details³ Perforated moulded plaster ceiling tiles, approx 588 x 588 mm (x 30 mm thick) designed to drop into a standard 600 mm suspended ceiling grid. Manufactured with an integral glass fibre batt (Bradford Supertel, 32 kg/m³, 20 mm thick) behind the perforated face, constrained around the perimeter at the rear with plaster skim-coat covering the outer 60 mm of the batt (approx). Perforated in a random pattern with a mixture of 6.5 and 8.0 mm dia holes (approx 880 and 440 of each size respectively); the perforations in the vicinity of the perimeter being open only at the face (closed at the rear), with the perforations away from the perimeter being open front and back (exposing the glass fibre batt behind). Open area percentage⁴ (estimated): 11.5% (only holes open front and back); 14.3% (all holes). Test specimen installed for testing (image inverted to depict ceiling installation) Installation The test specimen was installed as an upside down ceiling on the floor of the chamber. A 400 mm deep enclosure (32 mm MDF timber, approx 23 kg/m², built to surround an area of 3600 x 3000 mm) was placed on the floor of the chamber, 11° off parallel with the walls. The enclosure was taped at all joints to prevent air leakage between the enclosed space and the outside. A system of steel wall studs/track was set up inside the enclosure to support the specimen tiles. The cavity behind the panels was a single undivided cavity without internal partitions. Specimen tiles were arranged in a 6 x 5 array on the support system. Tee sections were placed on top to cover the gaps between adjacent tiles and acoustically mimic a normal ceiling installation. The perimeter of the installed test specimen was taped with masking tape to seal gaps between the tiles and the enclosure. Specimen installation was carried out by laboratory staff. Tile details – Left: whole tile, Right: close-up view Measurement Details & Results 1.2 Absorption coefficients Reverberation times, T₆₀ (sec) Freq 95% Conf (δ) Empty room with Specimen Hz α_{s} α 10 100 0.42 0.07 5.82 3.18 125 0.38 0.50 0.08 6.86 3.66 160 0.68 0.08 6.59 2.62 2 5 1 200 072 0 12 643 0.8 250 0 70 540 0.68 0.06 2 4 2 315 6.57 2.62 0.68 0.05 400 0.55 0.04 6.31 2.91 0.6 0.64 0.04 5.91 2.61 500 0.65 630 0.77 0.05 5.47 2.28 800 0.78 0.04 5.00 2.19 04 1000 0.86 0.85 0.04 4.84 2.04 1250 0.85 0.03 4.30 1.95 1600 075 0.03 1 99 3 93 Cls (1/3-Octave) 0.2 2000 0.65 0.03 3.53 2.01 0.64 2500 0.52 0.03 3.22 2.06 Q_p (whole Octave) 3150 0.43 0.03 2.96 2.03 C/w 0.55 Reference line 0.35 0.35 2.58 1.88 4000 0.03 0.0 125 250 500 1000 2000 4000 Hz 5000 0.03 2.21 0.32 1 65 Performance Indices 1,2 Measurement Conditions $C_{W} = 0.55 (LM)$ SAA = 0.70 The required 12 spatially independent decay curves came with Test Specimen 15 Jan 2020 Empty room 15 Jan 2020 from ensemble averaging 10 successive decays with each of Date of measurement: NRC = 0.70 26 °C, 43 % R.H. 3 different source loudspeaker positions, all sampled by 4 Temperature & humidity 27 °C, 58 % R.H. 996 mBar 996 mBar fixed microphones, using linear averaging. Atmospheric pressure Notes, Deviations etc Physical characteristics of materials may be as per client 3. Issuing Authority or supplier's advice; not necessarily verified by CSIRO. 1. Shape indicators ($\overline{L, M}$, and \overline{H}), if any, following the α_w index, indicate α_p values above the reference contour by ≥ 0.25 in the Low, Medium or High frequency ranges Open area estimates are based on 600 x 600 mm of 4 ceiling area being 'treated' by each tile respectively; it is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve. 2. SAA and NRC are defined in ASTM C423; laboratory l -----Signed requirements for which differ from AS ISO 354. David Truett Date 24 January 2020 Instrumentation Laboratory Construction Real time analyser: • Brüel & Kjær PULSE LAN-XI type 3160-A-4/2 Reverb room: • 300 mm thick concrete (closed off from the adjoining room by a

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ACOUSTIC LABORATORIES AUSTRALIA PTY LTD

AIRBORNE SOUND ATTENUATION BETWEEN ROOMS SHARING COMMON CEILING PLENUM

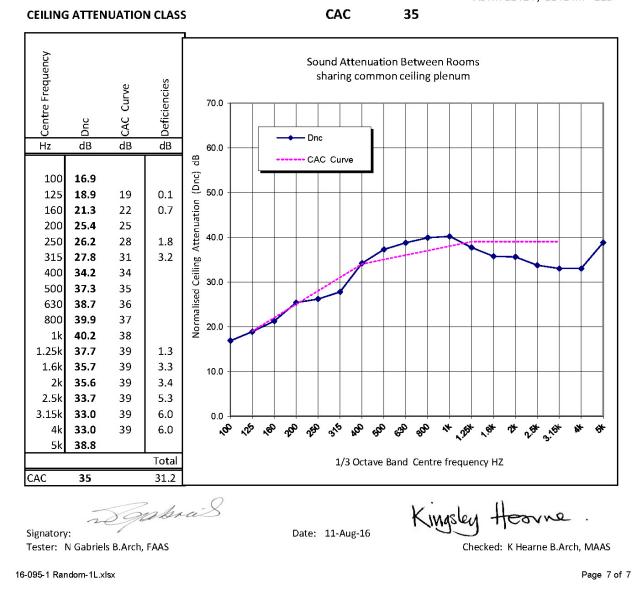
Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

ALA Test No.:16-095-1Client:Australian Plaster AcousticsSpecimen:Random TileDetail:600 x 600 Plaster Acoustic Tile

Description of Specimen:

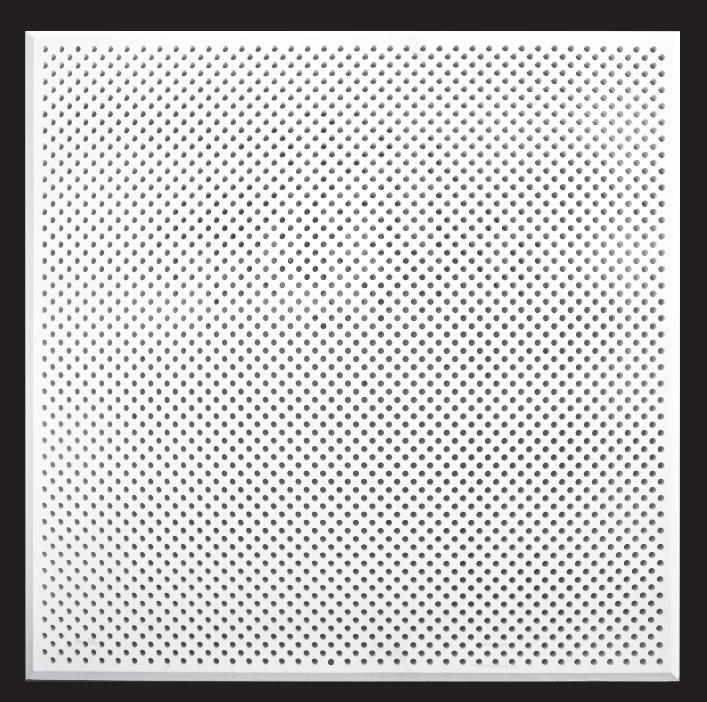
Random Tile, Tegular Edge 600 x 600 X 28mm thick Plaster Acoustic TileMeas. Date:09-Aug-16Nominal open area 10.5%25mm polyerster insulation @ 32 kg/m3; compressed to 20mm600 X 20mm600 X 20mmThin 2mm plaster skim coat over insulation to seal tile600 X 20mm600 X 20mm600 X 20mmNominal weight per tile 4.5 kg600 X 20mm600 X 20mm600 X 20mmLay in Tee Bar grid600 X 20mm600 X 20mm600 X 20mm

Tested in accordance with ASTM E1414 / E1414M - 11a



TEST RESULTS

EcoCheck Direct Fix



CSIRO ACOUSTIC MEASUREMENT REPORT

Commonwealth Scientific and Industrial Research Organisation, Infrastructure Technologies Acoustics Testing Laboratory, Gate 5, 2 Normanby Road, Clayton, Vic 3168 Australia

Report No: AC270-07-1

Client: 83-85 Boundary Road, Mortdale, NSW 2223

Measurement Type: Sound Absorption

Bailey Interiors Pty Ltd

AS ISO 354–2006: Acoustics–Measurement of sound absorption in a reverberation room AS ISO 11654–2002 (ISO 11654:1997): Acoustics-Rating of sound absorption-Materials and systems

Test Specimen [Specimen area: 3.6 x 3.0 m (10.8 m²), Test configuration: Type E-400]

Description: • Bailey "EcoCheck" nail-up acoustic ceiling tiles

• with integral glass fibre batt behind, non-encapsulated

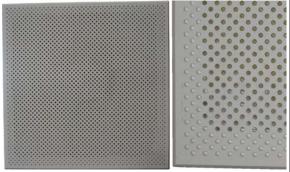
Tile Details³

CSIRO

- · Perforated moulded plaster ceiling tiles, nominal size 600 x 600 mm (x 30 mm thick) designed to be nail/screw fixed to overhead ceiling battens.
- Manufactured with an integral glass fibre batt (Bradford Supertel, 32 kg/m³, 20 mm thick) behind the perforated face, constrained around the perimeter at the rear with plaster skim-coat covering the outer 60 mm of the batt (approx).
- Perforated in a regular pattern of 6.5 mm dia holes (2888 count); the perforations in the vicinity of the perimeter being open only at the face (closed at the rear), with the perforations away from the perimeter being open front and back (exposing the glass fibre batt behind).
- Open area percentage⁴ (estimated): 21.3% (only holes open front and back); 26.6% (all holes). Installation
- The test specimen was installed as an upside down ceiling on the floor of the chamber.
- A 400 mm deep enclosure (32 mm MDF timber, approx 23 kg/m², built to surround an area of 3600 x 3000 mm) was placed on the floor of the chamber, 11° off parallel with the walls. The enclosure was taped at all joints to prevent air leakage between the enclosed space and the outside.
- A system of steel wall studs/track was set up inside the enclosure to support the specimen tiles. The cavity behind the panels was a single undivided cavity without internal partitions.
- Specimen tiles were arranged in a 6 x 5 array on the support system; tiles installed along two of the edges of the enclosure were rasped as required to fit into the 3.6 x 3.0 m enclosure. · All edges where adjacent tiles met each other and at the perimeter junction with the enclosure,
- were sealed with PVC electrical tape or paper masking tape.
- · Specimen installation was carried out by laboratory staff.



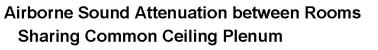
Test specimen installed for testing (image inverted to depict ceiling installation)



Tile details – Left: whole tile, Right: close-up view

Measurement Details & Results 12 Frea Absorption coefficients Reverberation times, T₆₀ (sec) 95% Conf (δ) αs Empty room with Specimen Hz Cίρ 0.42 1.0 100 0.06 5.79 3.20 125 0.37 0.45 0.09 6.74 3.67 160 0.62 0.07 6.43 2.77 200 0.72 0 07 6 4 4 2 52 0.8 5.49 2.39 250 0.70 0.06 0.71 315 6.62 0.68 0.04 2.65 400 0.60 0.05 6.48 2.81 0.6 500 0.70 6.08 2.54 0.68 0.05 630 0.80 0.06 5.65 2.26 800 0.83 0.05 5.34 2.15 0.4 1000 0.90 0.90 5.12 2.02 0.03 0.06 1250 0.97 4.62 1.86 1600 0.95 0.05 4.08 1.78 Cls (1/3-Octave) 0.2 2000 0.87 0.85 0.04 3.62 1.76 2500 0.77 0.04 3.22 1.76 α_p (whole Octave) 3150 0.69 0.04 2.83 1.71 Clw 0.75 Reference line 4000 0.56 0.60 0.03 2.36 1.62 0.0 125 250 500 1000 2000 4000 Hz 5000 0.54 0.04 1.93 1.42 Performance Indices 1,2 Measurement Conditions $\alpha_{\rm W} = 0.75$ SAA = 0.79 The required 12 spatially independent decay curves came with Test Specimen Empty room from ensemble averaging 10 successive decays with each of Date of measurement: 16 Jan 2020 16 Jan 2020 23 °C. 44 % R.H. NRC = 0.80 22 °C. 46 % R.H. 3 different source loudspeaker positions, all sampled by 4 Temperature & humidity: fixed microphones, using linear averaging. Atmospheric pressure: 1001 mBar 1001 mBar Notes, Deviations etc 3. Physical characteristics of materials may be as per client **Issuing Authority** 1. Shape indicators (L, M, and H), if any, following the α_w or supplier's advice; not necessarily verified by CSIRO. index, indicate Cxp values above the reference contour by 4 Open area estimates are based on 600 x 600 mm of \geq 0.25 in the Low, Medium or High frequency ranges ceiling area being 'treated' by each tile. respectively; it is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve. 2. SAA and NRC are defined in ASTM C423; laboratory Signed: requirements for which differ from AS ISO 354. David Truett 24 January 2020 Date Laboratory Construction Instrumentation Reverb room: • 300 mm thick concrete (closed off from the adjoining room by a Real time analyser: • Brüel & Kjær PULSE LAN-XI type 3160-A-4/2 Microphones/preamps: • 2 x GRAS type 40AP and 2 x B&K type 4134 microphones, all on plasterboard wall) • parallelepiped with dimensional proportions B&K type 2669 preamps, in 4 fixed positions as per AS ISO 354 1:1.3:1.6 for distribution of room modes • approx 202 m³ total room Noise source: • Room populated with three decahedron loudspeakers; volume • approx 215 m² surface area excluding diffusers 2 Norsonic NOR276 & 1 x B&K 4296, driven in turn by a Diffusers: • 20 stationary diffusers, approx 40 m² total surface area Norsonic NOR280 power amplifier. Absorption area: • in accordance with AS ISO 354, unless noted otherwise Calibration: • Analyser: July 2018 (NATA cal) Legal Information and Disclaimer Copyright © 2020 CSIRO. To the extent permitted by law, CSIRO (including its employees and consultants) excludes all liability to any person for any consequences, including but not limited to all losses, damages, costs, expenses and any other compensation, arising directly or indirectly from using any information or material Page 1 of 1 contained in this document. Reports relate only to items tested. No alterations permitted. This report may be distributed only in its entirety.

ACOUSTIC LABOR ATORIES AUSTRALIA PTY LTD



Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

ALA Test No.: Project: Specimen: Detail:

15-086-2 **Bailey Interiors** Echo-Check Nail Up. CAC Measurement

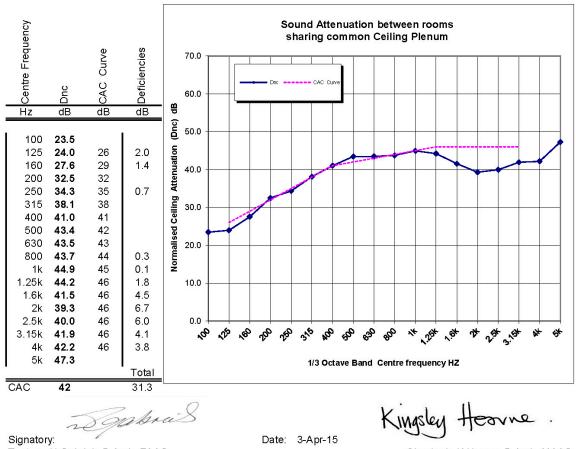
Description of Specimen:

Echo-Check 600 x 600 X 28mm thick Plaster Acoustic Tile 25mm glasswool insulation @ 32 kg/m3; compressed to 20mm Thin plaster skim coat over insulation to seal tile Sides of tile, screw fixed to furring chennels Opposite enbds of tile are lapped to control acoustic Leakage 6mm round holes with nominal open area 8.7% Nominal surface density 14.4 kg/m2

Meas. Date: 02-Apr-15

Tested in accordance with ASTM E1414 / E1414M - 11a





Tester: N Gabriels B.Arch, FAAS

Checked: K Hearne B.Arch, MAAS

15-086-2 Echo-Check nail-up CAC Data.xls

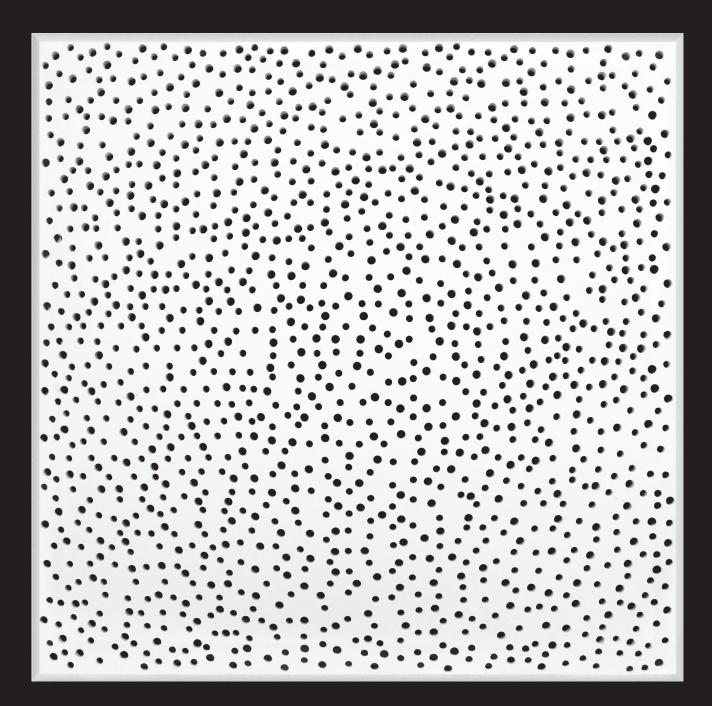
Page 6 of 6

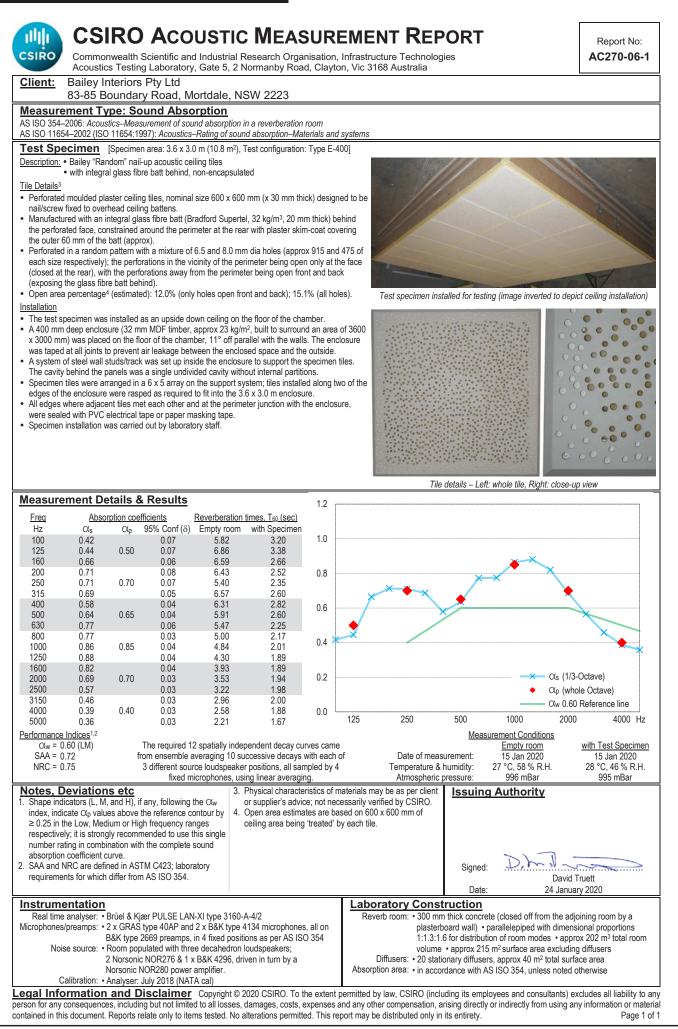


RANDOM DIRECT FIX INSTALLATION PRIVATE HOME THEATRE SYDNEY AUSTRALIA

TEST RESULTS

Random Direct Fix





ACOUSTIC LABORATORIES AUSTRALIA PTY LTD



Airborne Sound Attenuation between Rooms **Sharing Common Ceiling Plenum**

Unit 3/2 Hardy Street South Perth 6151 Tel: 9474 4477 Fax: 9474 5977

ALA Test No.: 15-086-3 Project: **Bailey Interiors** Specimen: Nail-up Random CAC Meas. Detail: 600 x 600 Plaster Acoustic Tile

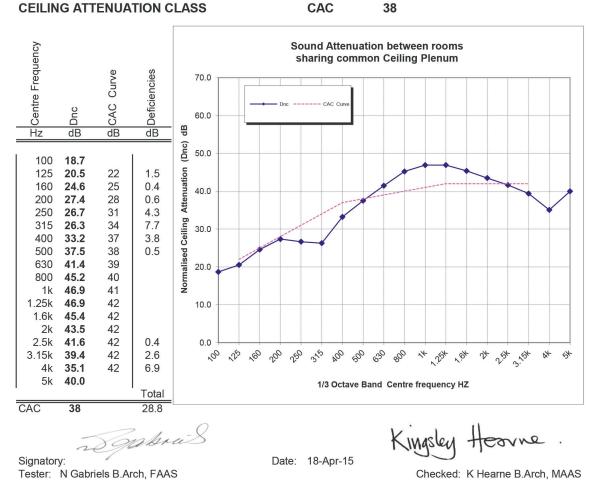
Description of Specimen:

Nail-up Random 'straight edge' 600 x 600 X 28mm thick Plaster Acoustic Tile 25mm glasswool insulation @ 32 kg/m3; compressed to 20mm Thin plaster skim coat over insulation to seal tile Sides of tile screw fixed to furring chennels Plaster Acoustic Tile has Butt joints to ends between furring channels Nominal open area 8.7% Nominal surface density 14.4 kg/m2

Tested in accordance with ASTM E1414 / E1414M - 11a

Meas. Date: 16-Apr-15

CEILING ATTENUATION CLASS



Page 7 of 7

AWTA PRODUCT TESTING

TEST REPORTS

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106 1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : Bailey Inte 83-85 Bour Mortdale N	ndary Road		Test Number : Issue Date : Print Date :	14-00104 31/10/201 1/10/2019	14
Sample Description	White molded plaster ceiling ti Colour : White End Use : Ceiling tiles	, Eco Check; Hush Tile; Sha es - pre insulated with glass ster/fibreglass			
STM C518-2010	Steady-State Thermal Transn	nission Properties by Mean	s of the Heat Flow	Apparatus	
	Date of Testing	Date of Testing			
	Test Date			27/10/2014	
	Test Apparatus		Laser	comp Fox 600	
	Sample Orientation		Horizontal		
	Mean Test Temperature			23	°C
	Temperature Differential			20	0
	Estimated uncertainty in result	S		3.9	
	Specimen		1	2	
	Specimen Thickness (as recei	,	40	39	mm
	Specimen Thickness (as teste	d)	40	39	mm
	Specimen Density (as tested)		391	403	kg/m³
	Test Duration		01:55	02:00	hrs:mins
	Measured Heat Flux		26.0	27.8	W/m²
	Measured Thermal Conductivi	ty	0.0520	0.0544	W/m.K
	Thermal Resistance		0.8	0.7	m²K/W
181403	1202			Page 1	of 1
C Australian Wool Testing Authority Ltd Copyright - All Rights Reserved	NATA - Chemi - Mecha	ed for compliance with ISO/IEC 17025 - Testin cal Testing nical Testing nance & Approvals Testing	g : Accreditation No. : Accreditation No. : Accreditation No.	983 985 1356	(Fr
	Ltd makes no warranty, impli relate only to the sample or s be rendered void if amended	and their identifying descriptions have been provided by the client unless otherwise stated. AWTA is no warranty, implied or otherwise, as to the source of the tested samples. The above test results by to the sample or samples tested. This document shall not be reproduced except in full and shall red void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd used in advertising providing the content and format of the advertisement have been approved by ging Director of AWTA Ltd.		All.	AWT
0204/44/06		ېل	201	MICHAEL A. J	IACKSON B.Sc.(
0204/11/06		APPROVED SI	GNATORY	MANAG	ING DIRECTOR

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106 1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400 Fax (03) 9371 2499							
			TES	T REPOR	Т		
Client :	Bailey Interic 83-85 Bound Mortdale NS ¹	ary Road			Issu	t Number : le Date : lt Date :	15-002457 09/06/2015 29/06/2018
		Replace	ment of Report of	lated :08/05/2	2018		
Sample D	escription	Colour : End Use : Nominal C	2000 Super Dia ded plaster ceiling til White Acoustic paneling Composition : Pla	mond; Open Slo es		lom; Casino;	Open Cell; NUTR
O 5660.1-20			ire Tests - Heat Rele (Cone Calorimeter I		duction and Mas	s Loss Rate F	Part 1: Heat
				Specimen			
vorago Hoot	Release Rate		1 fti	2 fti	3 fti	Mean fti	kW/m²
-			1	1	1	10	NV/III
noup numbe	r Classification					ation Method	C/VM2 Appendix A)
verage Spec	ific extinction a		0.2	0.1	1.4		m²/kg
est orientatior	n: Horizont	al		Specimen			
			1	2	3	Mean	
radiance			50	50	50	50	kW/m²
xhaust flow ra	ate		24	24	24	24	L/sec
	ned flaming		fti	fti	fti	fti	sec
me to sustair			1800	1800	1800	1800	sec
me to sustair est duration							Page 1 of 11
est duration	5644	5140					

0204/11/06

/ L A. JACKSON B.Sc.(Hons) ANAGING DIRECTOR

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APPROVED SIGNATORY

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106 1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400

TEST REPORT

Client : **Bailey Interiors** 83-85 Boundary Road Mortdale NSW 2223

19-007603 Test Number : Issue Date : 4/02/2020 Print Date

4/02/2020 :

Sample Description Clients Ref : "Shadex, Hush, Eco Check, New Shades, Random, Casino, Open Cell, Nut R2000, Super Diamond, OpenSlot, Moon" Moulded Plaster Ceiling Tiles

Dimensional Stability Date of Testing 04/02/2020 Length (%) Width (%) Change In Thickness (%) Specimen 0.0 0.0 0.0 1 2 0.0 0.0 0.0 0.0 0.0 0.0 3 0.0 0.0 0.0 Mean

Tested conditions: 168 hours at 50degC and 95% Relative Humidity Observation: After exposure no change in dimension and appearance

41504 Page 1 of 1 192823 Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above t results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. Australian Wool testing Authority Ltd Copyright - All Rights Reserved C sted samples. The above test This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising pro-content and format of the advertisement have been approved in advance by theManaging Direct AWTA Ltd. JACKSON B.Sc.(Hons) 0205/11/06 APPROVED SIGNATORY

GABRIELS HEARNE FARRELL



Page 1 Enquiries: Norbert Gabriels <u>norbert@gabriels.net.au</u> Ph (08) 9474 5966

19 November 2019

BAILEY INTERIORS 83 to 85 Boundary Road Mortdale NSW 2223

Attention: Roger Bailey

EFFECT OF INSULATION OVER PLASTER CEILING TILES

ACOUSTIC OPINION

Dear Roger,

As requested, we provide an acoustic opinion on the improvement in the Ceiling Attenuation Class (CAC) performance of Bailey Interior Plaster Acoustic tiles resultant from an insulation blanket strip located above the ceiling tiles either side of the ceiling height partition wall.

1. BACKGROUND.

As discussed, an acoustic opinion provided by Gabriels Environmental Design dated 27 March 2015 indicated that In 2015, the Acoustic Laboratories Australia Pty Ltd carried out acoustic test of the Room-to-room sound insulation of Plaster Acoustic panels as manufactured by Bailey Interiors. The tests were carried out in accordance with the Australian Standard AS2499:2000, *Acoustics – Measurement of sound insulation in buildings and of building elements – Laboratory measurement of room-to-room airborne sound insulation of a suspended ceiling with a plenum above it.*

The room-to-room sound insulation tests was carried out on a typical Bailey Interior product "Old Shadex" plaster acoustic tile, and a second test was carried out of same ceiling with a 1.8m wide strip of R3.5 Earthwool insulation located both side of the separating wall below the ceiling.

The result of the above tests was a 4 dB improvement in the room-to-room sound insulation performance in terms of the the Weighted Suspended Ceiling Normalised Level $(D_{n,c,w.})$.

Gabriels Hearne Farrell Pty Ltd have been requested by Bailey Interiors to provide an opinion of the expected improvement of providing a 1.8m wide strip of insulation on both sides of the separating partition wall in terms of the Ceiling Attenuation Class (CAC) performance; (ASTM E1414/E1414M – 11a Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum).

2. COMPARATIVE TEST PROCEDURES:

The test procedure for the Australian and American Standards are very similar. The laboratory set up at Acoustic Laboratories Australia can be set up to measure in accordance with both standards. The main difference in the two standards is that the Australian standard $(D_{n,c,w.})$ requires acoustic absorption in the ceiling plenum space on the two end plenum walls and one side plenum wall. The American Standard (CAC) requires acoustic absorption on all four plenum walls.

UNIT 3 / 2 HARDY STREET, SOUTH PERTH 6151 TEL: 9474 5966 FAX: 9474 5977 GABRIELS HEARNE FARRELL PTY LTD ACN 608 956 734 ATF THE GHF UNIT TRUST PROJECT: Bailey Interiors PROJ No: 19-023g-1 DATE: 19 Nov. 19 PAGE 2

3. ASSESSMENT

The effectiveness of the acoustic absorbent R3.5 Earthwool insulation installed as a 1.8m strip of insulation on both sides of the ceiling height partition wall is to a large extent dependant on the increase in the total absorption in the ceiling void. In the American (CAC) test method there is additional acoustic absorption in the ceiling void plenum space compared to the Australian $(D_{n,c,w})$ set up. It is therefore expected that the decibel (dB) improvement in sound insulation if tested in accordance with the American Standard would be less than when tested in the Australian standards.

Based on the above, it is our opinion that the improvement in the room-to-room CAC performance if the Bailey Interior "Old Shadex" plaster acoustic tile with strip acoustic absorption on either side of the partition were carried out to American Standard the improvement in Ceiling Attenuation Class (CAC) performance would be in the order of 2 to 3 dB

Conditions

The information given in this opinion represents extrapolation based on laboratory test carried out on Bailey Interiors plaster acoustic tile products. The assessment and opinions expressed refer to the expected comparative laboratory performance of the product when tested and rated in accordance with America Standard ASTM E1414/E1414M – 11a.

The assessment and opinions expressed refer to the expected laboratory performance of the product. It is assumed that when installed in the field the products are installed in accordance with manufacturer's instructions and installed with good workmanship. No allowance is made for flanking transmission and acoustic leakage via the construction, as these are construction and design issues that must be considered in the design and construction of individual projects.

This assessment is only valid for 5 years. It assumes there is no change in the construction of the material systems. This assessment addresses the acoustic performance only.

Where construction systems are to be extensively used, or are required to comply with specific or stringent specification requirements, it is strongly recommended that the product be laboratory tested. It must be noted that an acoustic opinion provides an estimate of performance and that the likely performance is usually within +/- 3 dB of the opinion.

We trust this proposal meets your requirements. Please call if you require any clarifications.

Yours Faithfully

Saparas

Norbert Gabriels B.Arch F.A.A.S for

GABRIELS HEARNE FARRELL PTY LTD

Member Firm – Association of Australasian Acoustical Consultants **A** Unit 3 / 2 Hardy St, SOUTH PERTH WA 6151 **P** (08) 9474 5966 **E** kingsley @gabriels.net.au **W** gabriels.net.au**M** 0407 470 865 (6) BAILEY Architectural Plaster

83 Boundary Road (PO Box 78) Mortdale NSW 2223 ABN 36 003 722 665

T 612 9153 9326 F 612 9534 6532

E sales@baileyinteriors.com.au

W www.baileyinteriors.com.au

Northern Territory Government Department of Infrastructure Level 5 Highway House Palmerston Circuit P O Box 61 Palmerstone N T 0831

Attention: Kurt Leerburg

"ACOUSTIC CEILING PRODUCTS AS PROJECT SPECIFIC FACTORY DIRECT PACKAGES " "INCLUSIVE GRID WITH WARRANTY"

Australian Plaster Acoustics has been developing these plaster tiles in conjunction with its parent company Bailey Interiors for the last 5 years.

The organisation has a strong commitment to innovation with major research and development programmes resulting in producing outstanding designs that are truly innovative, lightweight exceptionally high acoustic ratings (NRC) (CAC) and R values. The tiles are fire resistant, pre painted with anti mould paint, will not warp or buckle under humid conditions.

Big innovations have been

- The reduction in weight of each tile bringing overall weight down from approx. 19.50 Kilos m2 - 12.75 kilos m2(in most cases)this has resulted in being able to use a lighter grid for installation as per Rondo Design confirmation REF 4562-15-001.
- 2) The introduction of silicone rubber moulds this has made it possible to create very strong, clean, and sharply designed undercut ceiling tiles which are truly innovative this has only been possible with our strong commitment to R & D.

Australian Plaster Acoustics warrants all plaster products in conjunction with Rondo grid systems from the date of purchase for a period of 10 years.

This warranty does not apply to damage caused by

- 1) Normal wear and tear.
- 2) The fitting of components not supplied by Australian plaster Acoustics /Bailey Interiors or Rondo.
- 3) Repair ,Maintenance or service by a person not authorised by Rondo /Bailey Interiors

We Rondo and Bailey Interiors are jointly marketing these products, plaster acoustic tiles and ceiling grid as a package directly to the builder after nomination from the Department of Infrastructure.

Yours Faithfully, Bailey Interiors Pty Ltd

> Roger Bailey Managing Director Phone 02 91539326 Fax 0295346532 Email: roger@baileyinteriors.com.au



NATIONAL 57–87 Lockwood Rd, Erskine Park,NSW, 2759 (PO Box 324 St Marys NSW 1790) TEL (02) 9912 7300 FAX: (02) 9912 7310

CUSTOMER SERVICE HOTLINE 1300-36-RONDO (1300-36-7663)

www.rondo.com.au

To whom It may concern

Rondo Building Services is Australasia's largest manufacturers of roll formed lightweight steel building products for internal and external use, from steel stud and track drywall systems to building board finishing sections and from exposed and concealed ceiling systems to access panels and other ancillary products.

Rondo has been producing product to serve the building industry for over 50 years and not only has manufacturing facilities in Australia but also New Zealand, Malaysia and India as well as JV's elsewhere.

During that period Bailey Interiors manufacturers of Australian Plaster Acoustics panels has been a valued customer of Rondo.

Rondo has been pleased to partner with Bailey Interiors in the development of its innovative plaster acoustic panels by providing specification assistance in the use of the Rondo Duo^R Exposed Ceiling Grid System in conjunction with their panels, thereby ensuring their clients have a code compliant suspended ceiling grid system to support their plaster acoustic ceiling panels.

Steve Jupp Product & Innovation Manager Rondo Building Services Pty Ltd

AUSTRALIA · NEW ZEALAND · MALAYSIA · MIDDLE EAST · INDOCHINA

67





TO WHOM IT MAY CONCERN

Gyprock provides a comprehensive range of high performance plasterboard wall and ceiling lining solutions across all segments of the construction industry. Gyprock is also a supplier of casting plaster used in the manufacture of cast plaster products and decorative cornices. Gyprock is one of the many companies owned and operated by CSR Limited, one of Australia's oldest and most respected public companies founded in Sydney in 1855 as the Colonial Sugar Refining Company.

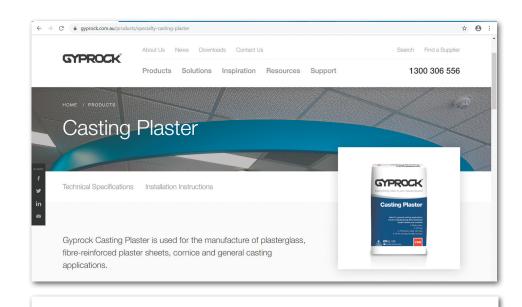
When Gyprock opened its Concord Plaster Mills in 1942, it soon became a supplier of casting plaster to Ernest Alfred Bailey who had established E. A. Bailey & Sons Pty Ltd in Boundary Road, Mortdale in 1938. Since that initial supply, Gyprock has maintained its long association with the Bailey family and continues today to supply its casting plaster to Bailey Interiors.

Over that time, Bailey Interiors has grown in significance to become the largest supplier of all types of architectural plaster products in Sydney and one of Gyprock's major customers for casting plaster. Bailey Interiors has always employed continuously innovative approaches to the manufacture of cast plaster products and demonstrates considerable expertise in moulding and casting from simple to complex shapes.

For over 80 years, CSR has manufactured glasswool insulation under the Bradford brand. Bradford is a supplier of insulation batts and acoustic fabrics used by Bailey Interiors in the manufacture of their exceptionally high performing plaster acoustic ceiling tiles namely for NRC and CAC.

> CSR Building Products Limited ABN 55 008 631 356 Commercial Design Centre 7 Slough Avenue Silverwater NSW 2128 Mobile: 0419 477 359 Telephone: 02 8748 1450 Facsimile: 02 8748 1488 Email: aveling@csr.com.au









TO WHOM IT MAY CONCERN

Gyprock manufactures and supplies a comprehensive range of high performance plasterboard wall and ceiling lining solutions across all segments of the construction industry. Gyprock is one of the many companies owned and operated by CSR Limited, one of Australia's oldest and most respected public companies founded in Sydney in 1855 as the Colonial Sugar Refining Company.

Gyprock is the major supplier of casting plaster used by Australian Plaster Acoustics in the manufacture of their innovative plaster acoustic tiles. These exceptionally high performing plaster acoustic ceiling tiles are manufactured at Bailey Interiors' modern facility utilising the latest, innovative plaster tile manufacturing process. Gyprock has been a casting plaster supplier to Bailey Interiors for over 75 years.

CSR also manufactures Bradford glasswool insulation. Bradford is a supplier of insulation batts and acoustic fabrics used by Australian Plaster Acoustics. The resulting range of plaster acoustic tiles have exceptionally high performing acoustics for NRC and CAC with a modern architectural appearance.

Gyprock and Bradford are proud to be associated with Australian Plaster Acoustics and we feel confident that, based on our long association, Australian Plaster Acoustics will provide a high level of product quality, reliable service, trusted performance and industry compliance associated with their large range of plaster acoustic tiles.

Antoine Veling NSW Commercial Segment Manager CSR Lightweight Systems

CSR Building Products Limited ABN 55 008 631 356 Commercial Design Centre 7 Slough Avenue Silverwater NSW 2128 Mobile: 0419 477 359 Telephone: 02 8748 1450 Facsimile: 02 8748 1488 Email: aveling@csr.com.au



MATERIAL SAFETY DATA

Product Name: FBS-1 Glasswool Insulation

is classified as **Non-Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances. FBS-1 Glasswool Insulation is classified as **Non-Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

- Full test results of each product for acoustic NRC and CAC can be viewed online at www.australianplasteracoustics.com.au.
- All ceiling grid and steel support systems by Rondo can be viewed from PDF files on request.
- All acoustic test are NATA approved

DISCLAIMER

Products manufactured and systems designed by Bailey Interiors are produced in accordance with the building code of Australia and New Zealand Building Code and also relevant Australian and New Zealand standards.

All acoustic testing for NRC - (Noise Reduction Coefficients) was carried out in accordance with these standards at RMIT University, Melbourne, Australia and CSIRO, Melbourne, Australia.

All sharing common ceiling testing CAC - (Ceiling Attenuation Class) was also carried out in accordance to Australian and New Zealand standards at Acoustic Laboratories Australia Pty Ltd.

All fire resistance Group 1, thermal resistance testing were also carried out to the latest Australian and New Zealand standards at AWTA a product testing in Melbourne, Australia.

All light reflective tests carried out by Light Lab International, QLD Australia in accordance with NATA accreditation.

All these products received excellent results in all instances they were tested in true laboratory situations which may differ to readings recorded on site.

Australian Plaster Acoustics will not be held responsible for any claims resulting from installation of its products not in accordance with manufacturers recommendations or relevant Australian and New Zealand standards.

Bailey Interiors has been supplying the building and architectural industry with the finest quality acoustic tiles for nearly eighty years. The Acoustic Tile Range features outstanding quality, elegant style, finish and functionality.

Green Product Sheet

Made to last a lifetime

Bailey Interiors Architectural products are made of the finest Gypsum. They have timeless features and built for longevity.

Made of natural Gypsum

Bailey Interiors Architectural products are a unique blend of at least 75% naturally occurring Gypsum.

Energy and water-efficient

Bailey Interiors Architectural products are more energy and water-efficient than alternative acrylic and resin based products. Bailey Interiors have installed a unique water recycling process whereby excess water from the production runs are recycled and used again in further production. The high Gypsum content also outperforms acrylic, which quickly dissipates water heat, resulting in reduced use of water.

Minimal manufacturing impact

Bailey Interiors Architectural products are created by a combination of machine made and hand made production methods. This combination allows for a better quality product as compared with acrylic, and composite products.

Bailey Interior's Architectural products also use significantly less energy than electrically high – heat ovens. They use a combination of natural drying and gas operated ovens.

Additionally Bailey Interiors Architectural products are hand finished by craftsmen, further reducing reliance on non renewable resources.

Minimal impact on the environment

Bailey Interiors Architectural Products are made of the finest Gypsum.

Bailey Interiors have installed two filtration units on top of the bulk silo bin. These units absorb any excess plaster dust from going in to the atmosphere whilst the plaster silo is being loaded with plaster which is pumped by compressed air from the bulk plaster truck. These filtration units allow for the air to remain clean and clear which does not impact on the environment.

Recycled Shipping

Bailey Interiors Architectural products are shipped on pallets made of reclaimed wood, with strapping made from recycled bottles.

Recycled Waste Plaster

Bailey Interiors have a special method of recycling excess casting plaster and fibre glass reinforcement. This material is transported form Bailey's current work place to be recycled as part of road base material.

Customers who choose Bailey Interiors Architectural products know they are making an environmentally good choice because they are making a purchase lasting a lifetime.





Tel:

Fax:

Eml:

Australian Plaster Acoustics Pty Ltd ABN 69 610 255 242

Visit our showroom at

83-85 Boundary Road Mortdale NSW 2223 Australia

+612 9533 3909 +612 9534 6532

sales@australianplasteracoustics.com.au Web: www.australianplasteracoustics.com.au

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