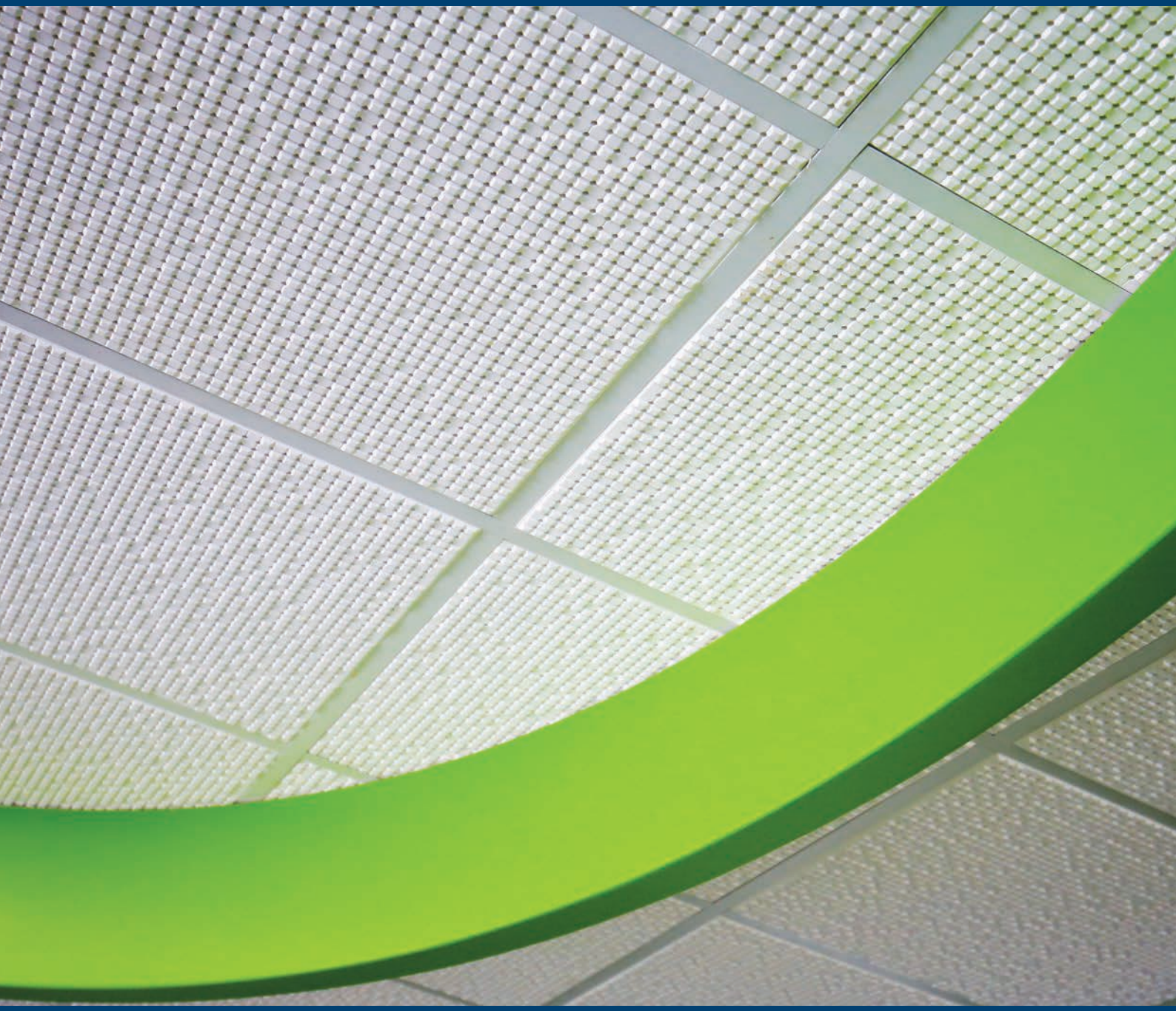
Australian Plaster Acoustics

Quiet Sound™ – The Advance Range



Plaster Innovations

AUSTRALIAN PLASTER ACOUSTICS

BAILEY Interiors

ABOVE: CUSTOM MADE PANELS

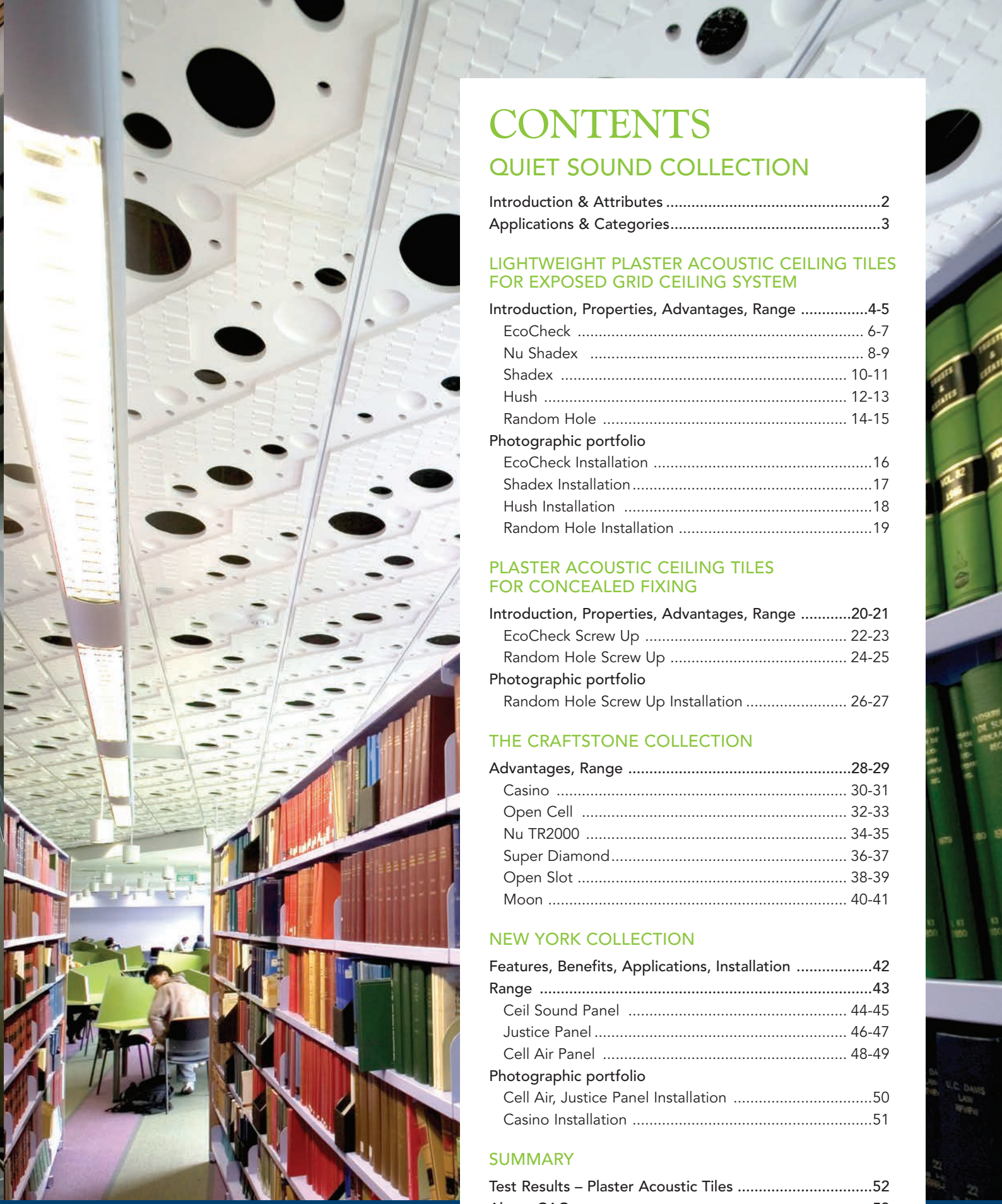
NEW PARLIAMENT HOUSE

Canberra

COVER : SHADEX INSTALLATION

DARWIN HIGH SCHOOL

NT Australia



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CUSTOM MADE PANELS

UNIVERSITY OF NSW

Sydney

THE Quiet Sound™ COLLECTION

The **Quiet Sound**™ 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
- Anti-mould paint applied at the time of manufacture which stops growth of mould (Tiles are prepainted white)
- Simple installation Plaster Acoustic Tiles. Craftstone collection mounted into exposed grid ceiling system
- Plaster glass panels screw fix to steel or timber battens
- Flush jointing
- High acoustic performance – all products having NRC ranges between 0.55 up to 0.85 NRC
- CAC between 32 to 46 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 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

All dimensions are in mm and are approximate

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 COLLECTION CONSISTS OF

1. Lightweight plaster acoustic ceiling tiles for exposed grid ceiling system

Five 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.

3. Craftstone collection Plaster acoustic tiles

Six unique designs that have high acoustic performance made in modules to suit 600 x 600mm exposed ceiling grid.

4. New York collection Plasterglass panels

Three subtle designs with either round or square perforations, or a very stylish slotted design. Panels are made in 1200 x 1200mm modules, which enables high acoustic performance.

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/m^2

PLASTER ACOUSTIC TILE RANGE :

ECOCHECK

a diamond pattern tile

NU SHADEX

a large circular holed 3D multi-level faced tile

SHADEX

a multi-level faced tile

HUSH

a uniform chocolate block pattern tile

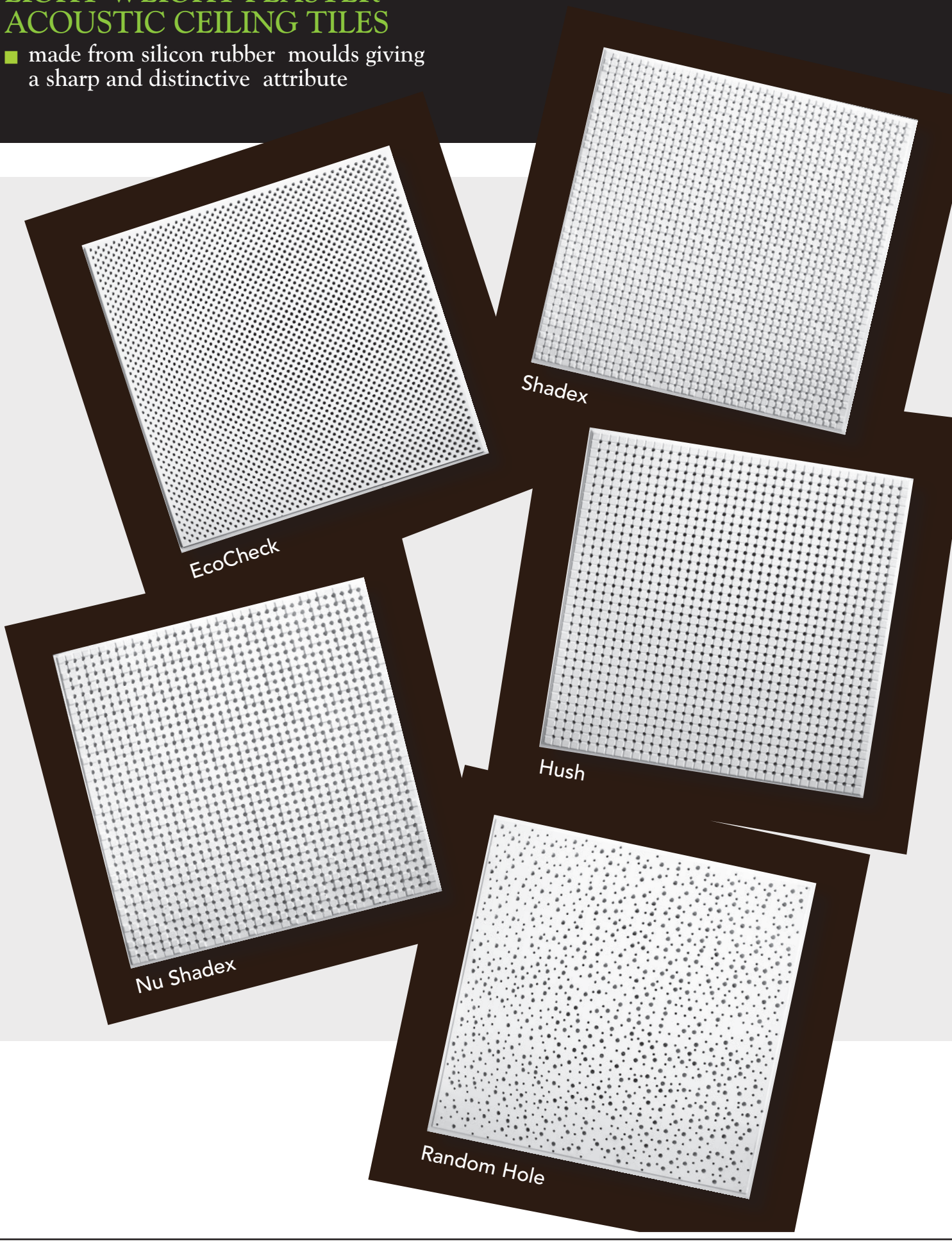
RANDOM HOLE

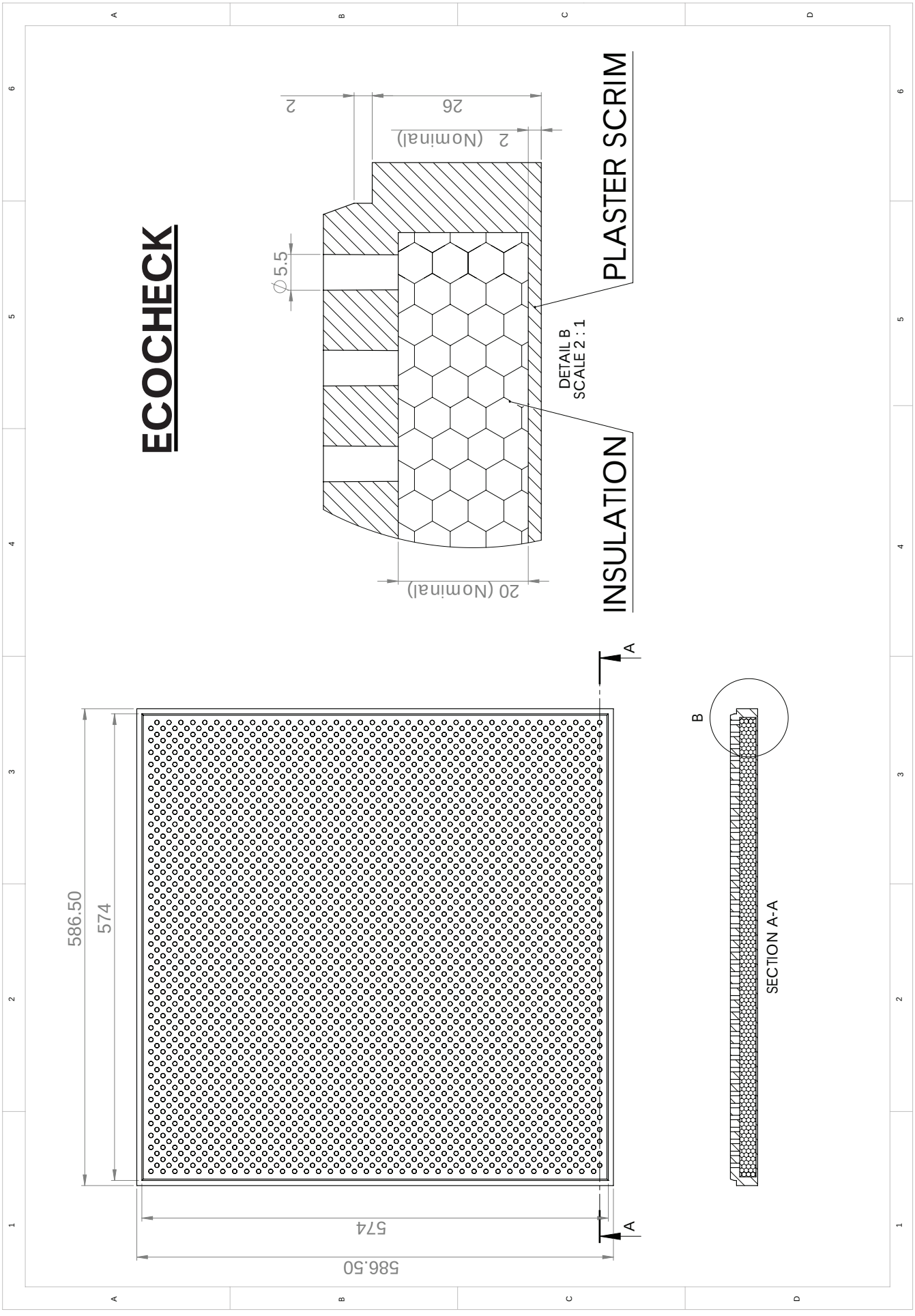
a plain faced tile with Random Hole circular perforations over the entire tile

All dimensions are in mm and are approximate

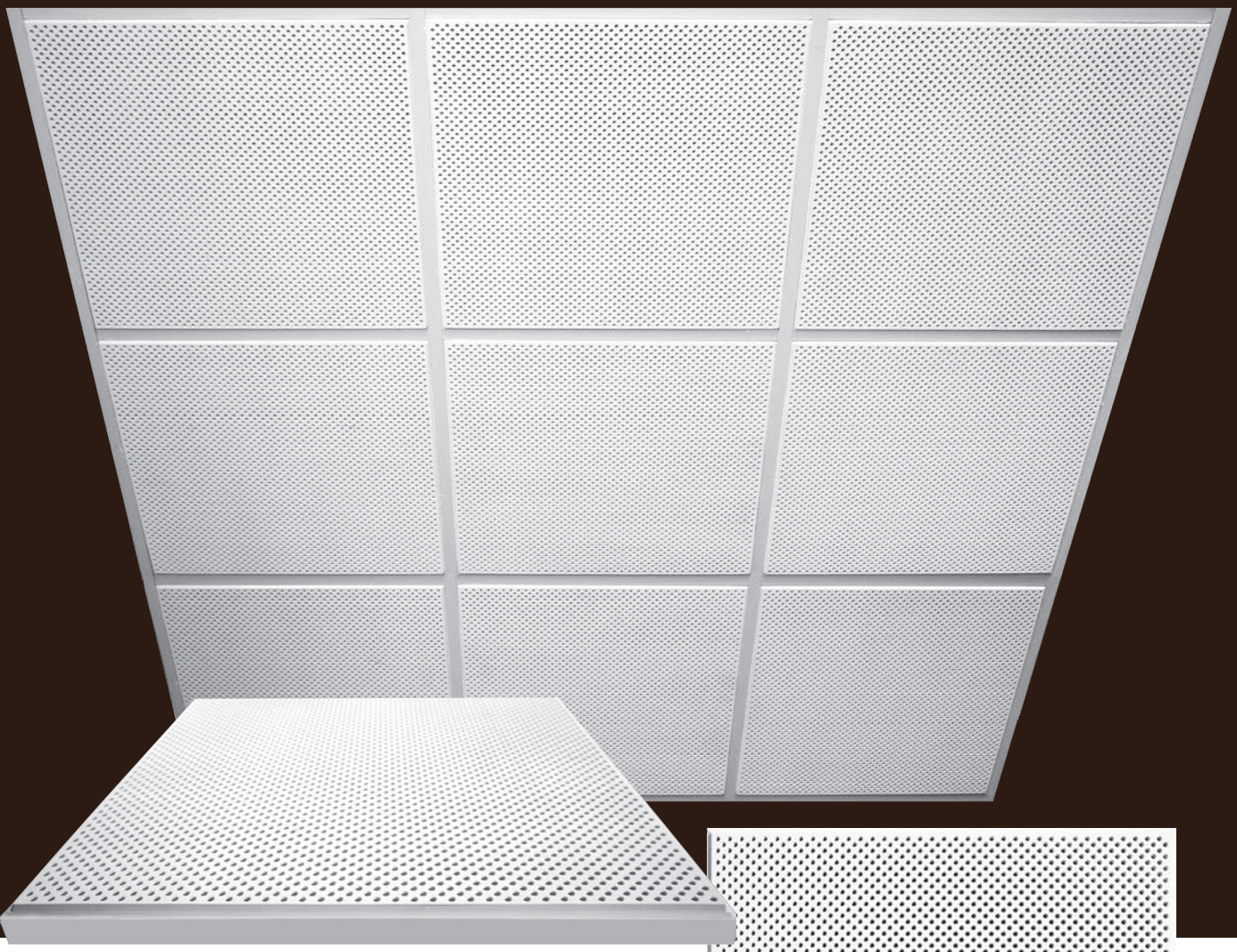
LIGHT WEIGHT PLASTER ACOUSTIC CEILING TILES

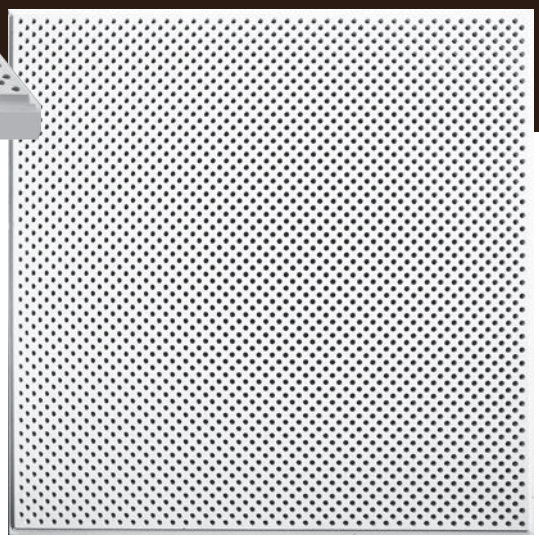
- made from silicon rubber moulds giving a sharp and distinctive attribute





EcoCheck





PROPERTIES

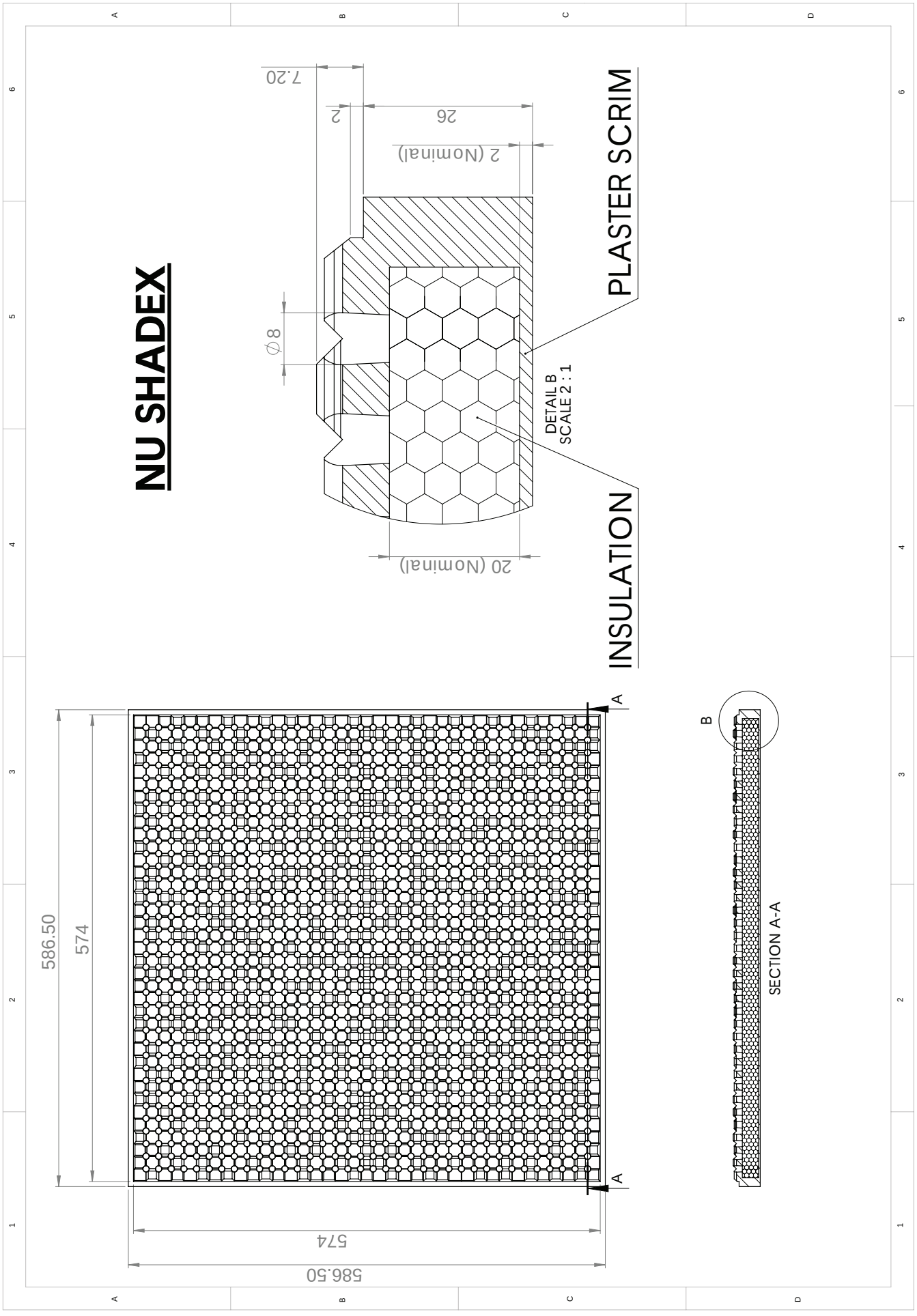
- Bevelled edge.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with ceiling grid exposed 24mm T Bar steel or aluminum 600 x 600 system.

EcoCheck ACOUSTIC PERFORMANCE AND SPECIFICATION

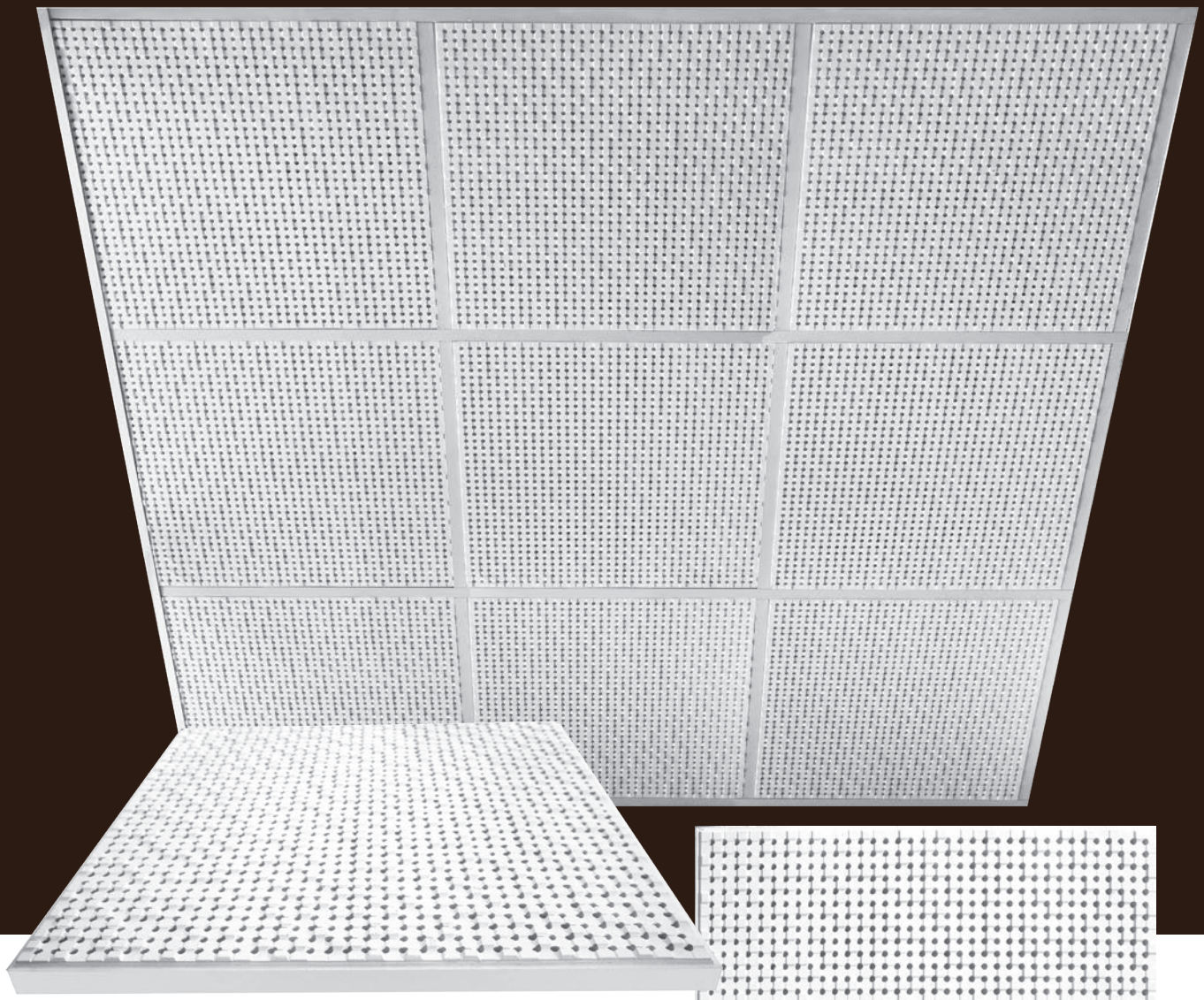
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile Kg
22.7%	30	600 x 600	35/39[1] 35/39[2]	0.80	0.80[1] 0.70[2]	0.80	12.20	4.45

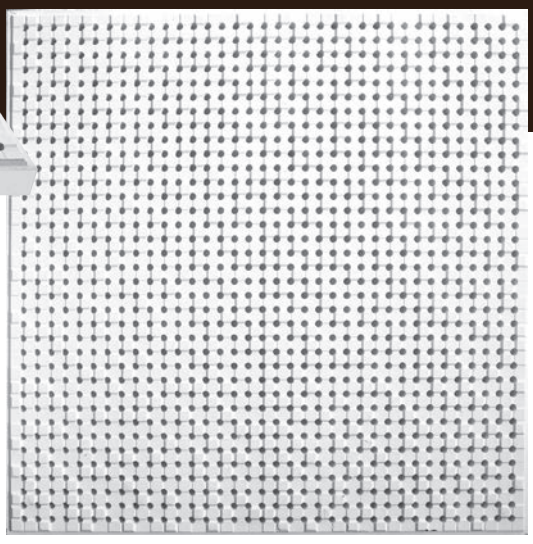
[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate



Nu Shadex





PROPERTIES

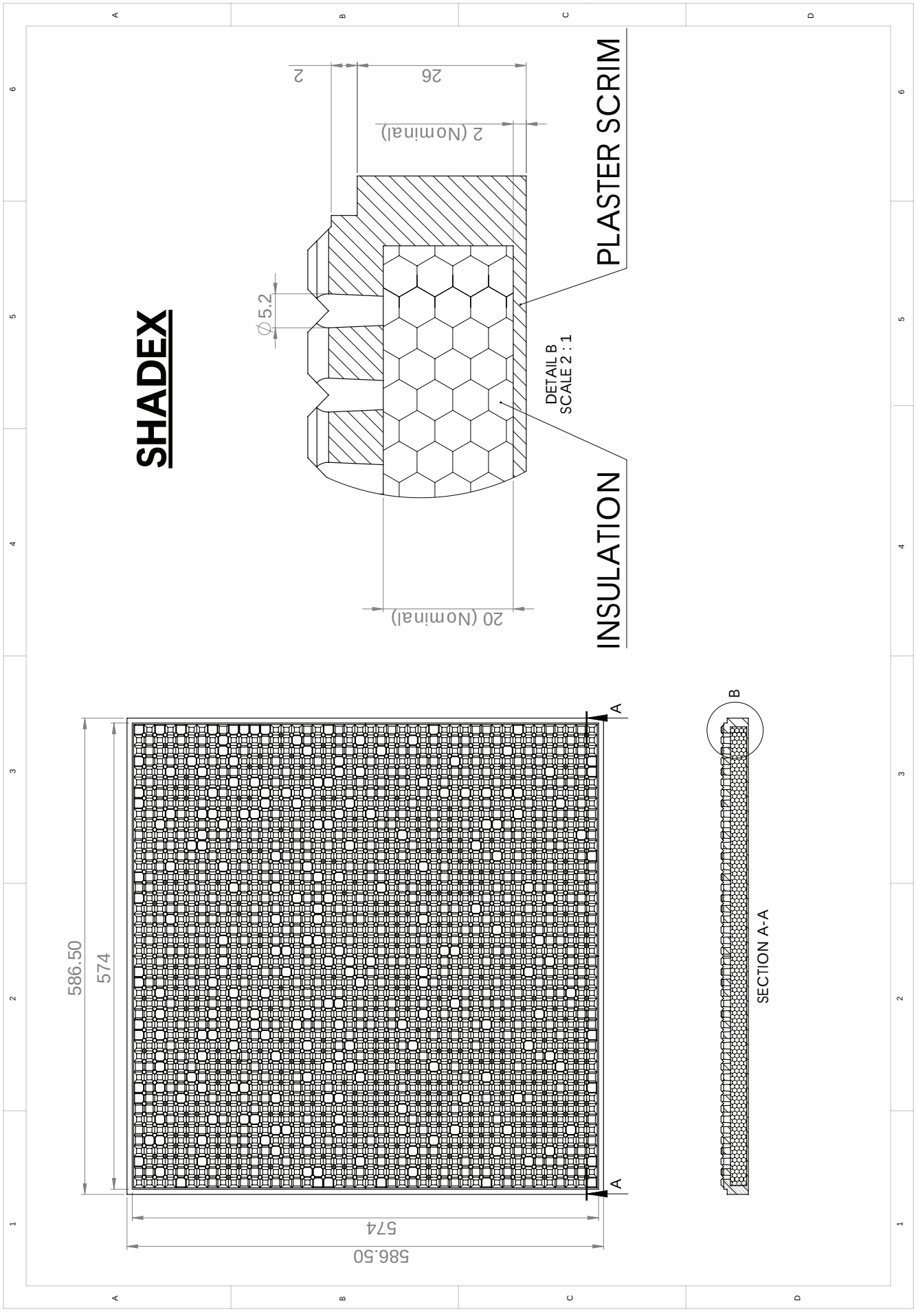
- Bevelled edge.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with ceiling grid exposed 24mm T Bar steel or aluminum 600 x 600 system.

Nu Shadex ACOUSTIC PERFORMANCE AND SPECIFICATION

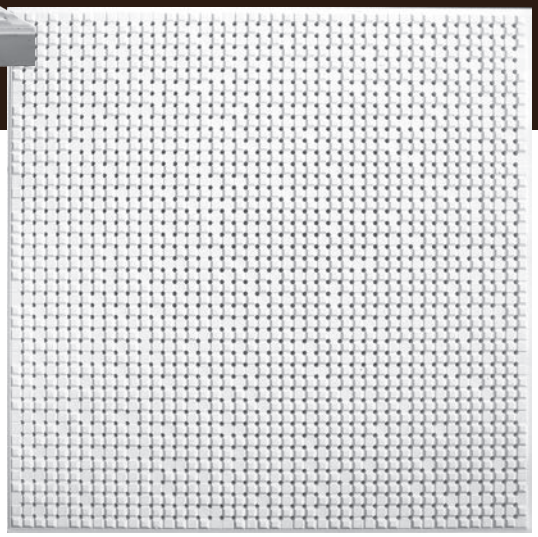
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile Kg
28.2%	30	600 x 600	32/36[1] 35/39[2]	0.80	0.80[1] 0.70[2]	0.78	12.20	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate



Shadex



PROPERTIES

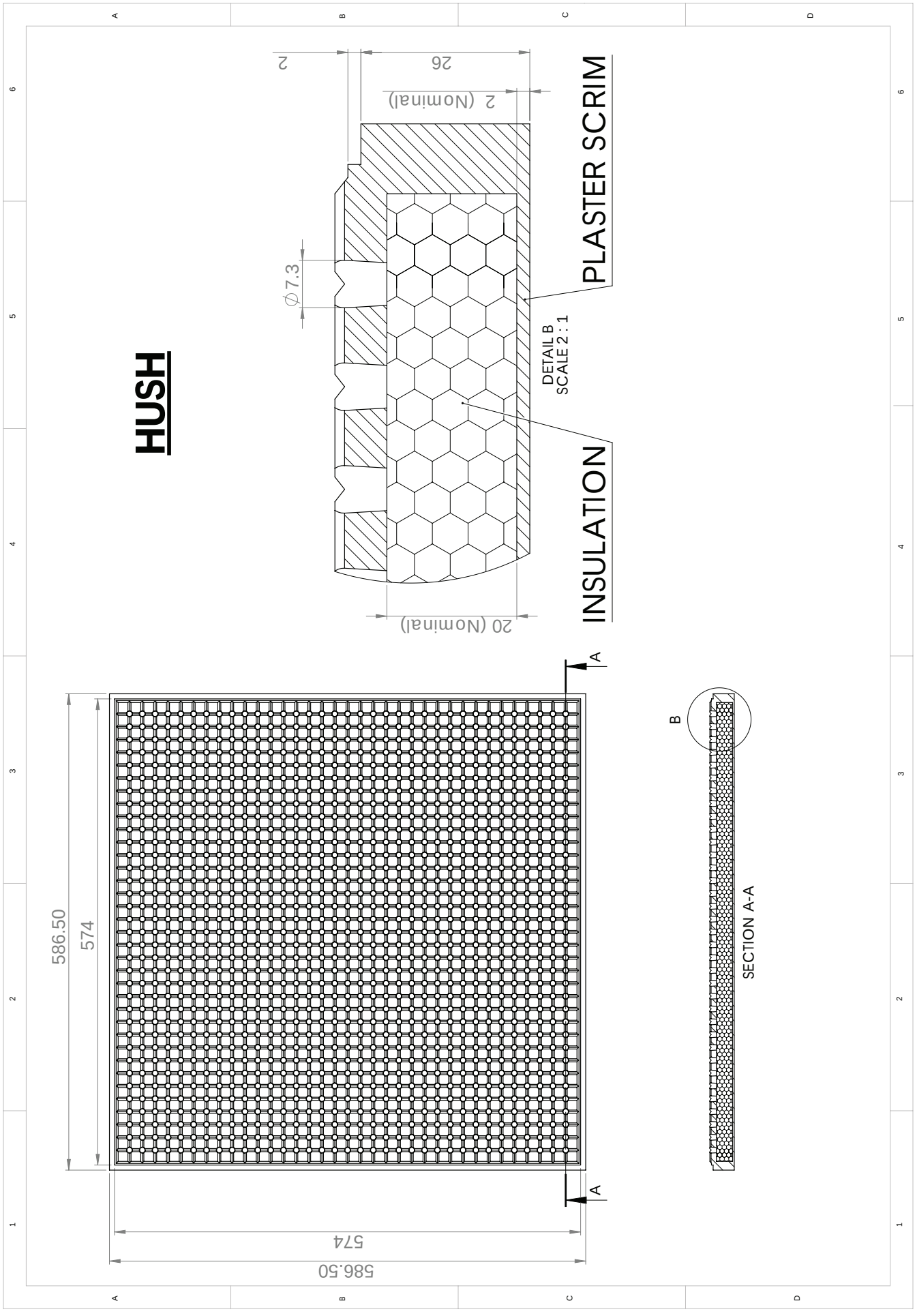
- Bevelled edge.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with ceiling grid exposed 24mm T Bar steel or aluminum 600 x 600 system.

Shadex ACOUSTIC PERFORMANCE AND SPECIFICATION

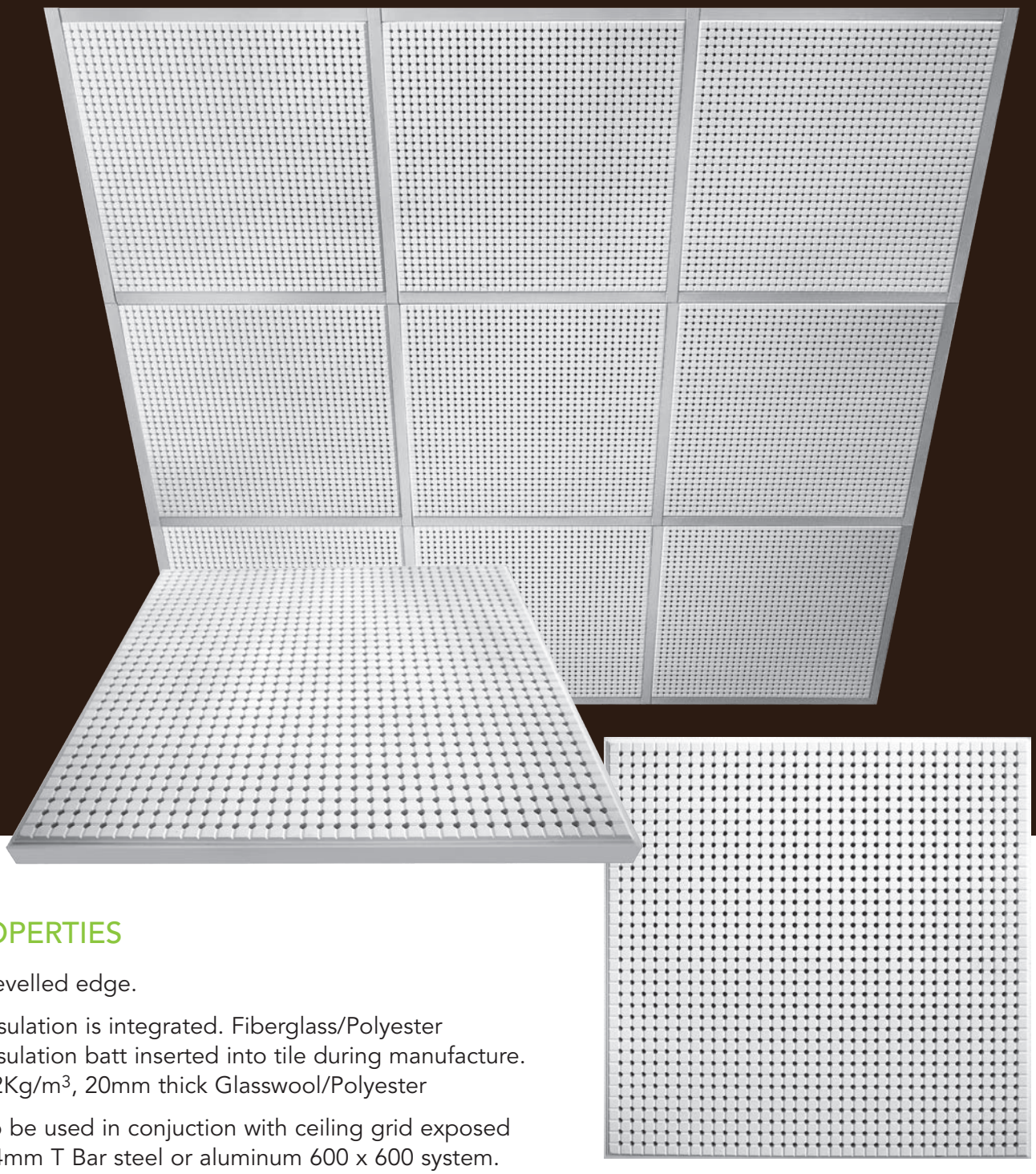
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile Kg
15.3%	30	600 x 600	32/36[1] 32/36[2]	0.80	0.70[1] 0.65[2]	0.80	12.20	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate



Hush



PROPERTIES

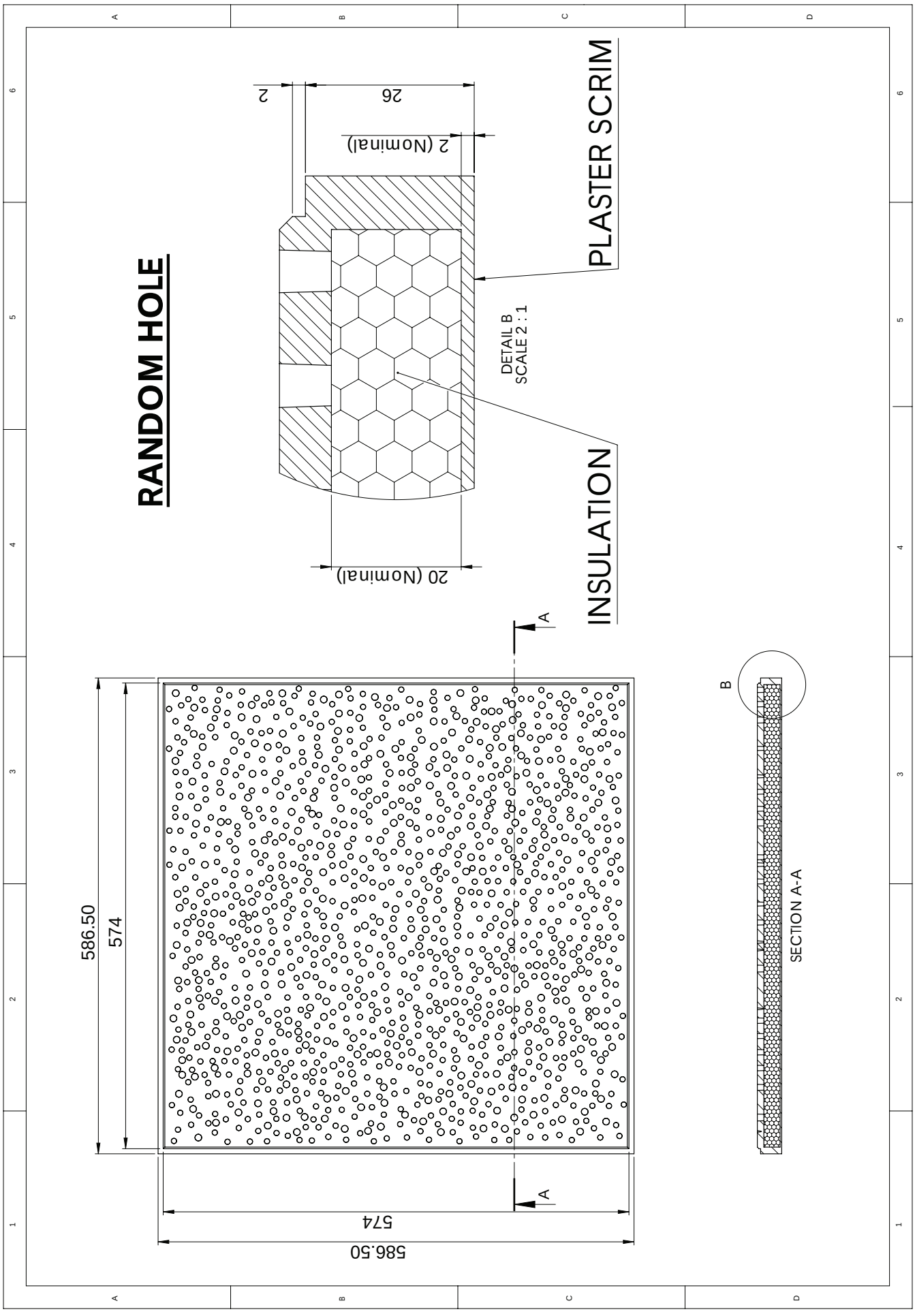
- Bevelled edge.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with ceiling grid exposed 24mm T Bar steel or aluminum 600 x 600 system.

Hush ACOUSTIC PERFORMANCE AND SPECIFICATION

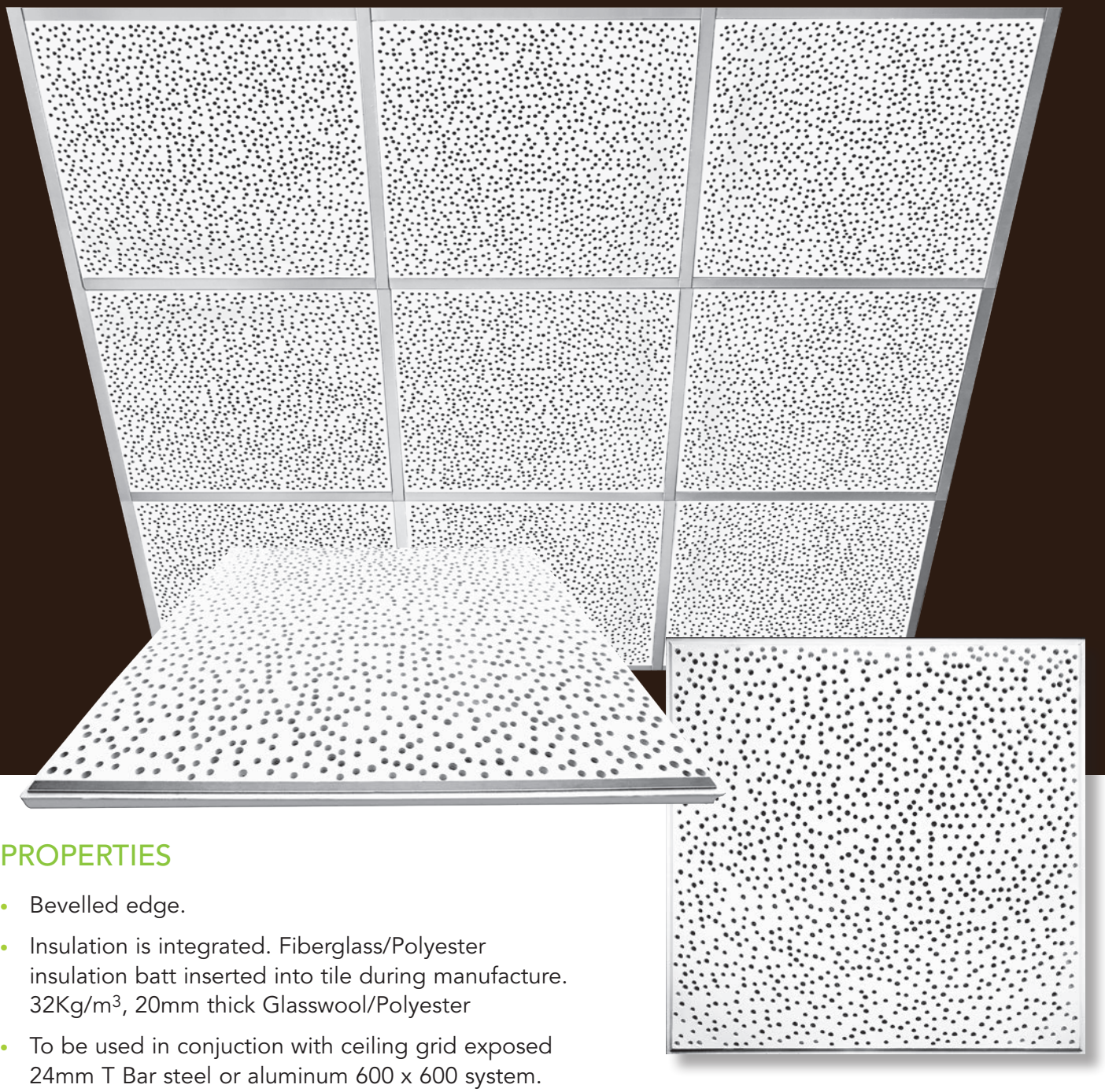
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile Kg
21.4%	30	600 x 600	34/38[1] 34/38[2]	0.80	0.70[1] 0.65[2]	0.78	12.20	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate



Random Hole



PROPERTIES

- Bevelled edge.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with ceiling grid exposed 24mm T Bar steel or aluminum 600 x 600 system.

Random Hole ACOUSTIC PERFORMANCE AND SPECIFICATION

Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile Kg
16.6%	30	600 x 600	34/38[1] 35/39[2]	0.80	0.70[1] 0.65[2]	0.80	12.20	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate

ECOCHECK INSTALLATION

Palmerston Special Education Centre,
Darwin NT Australia

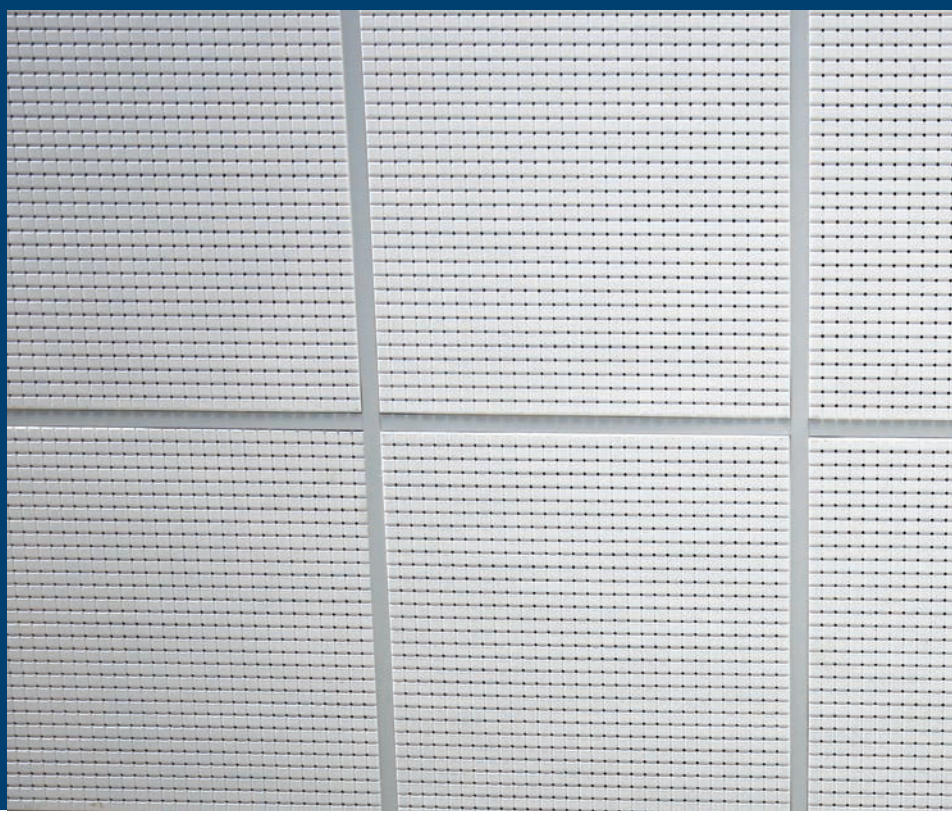
All dimensions are in mm and are approximate

SHADEX INSTALLATION

Darwin High School
NT Australia

HUSH INSTALLATION

Charles Darwin University NT Australia



All dimensions are in mm and are approximate

RANDOM HOLE INSTALLATION

Kingsgrove RSL Sydney NSW Australia

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
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 SCREW UP CEILING TILE

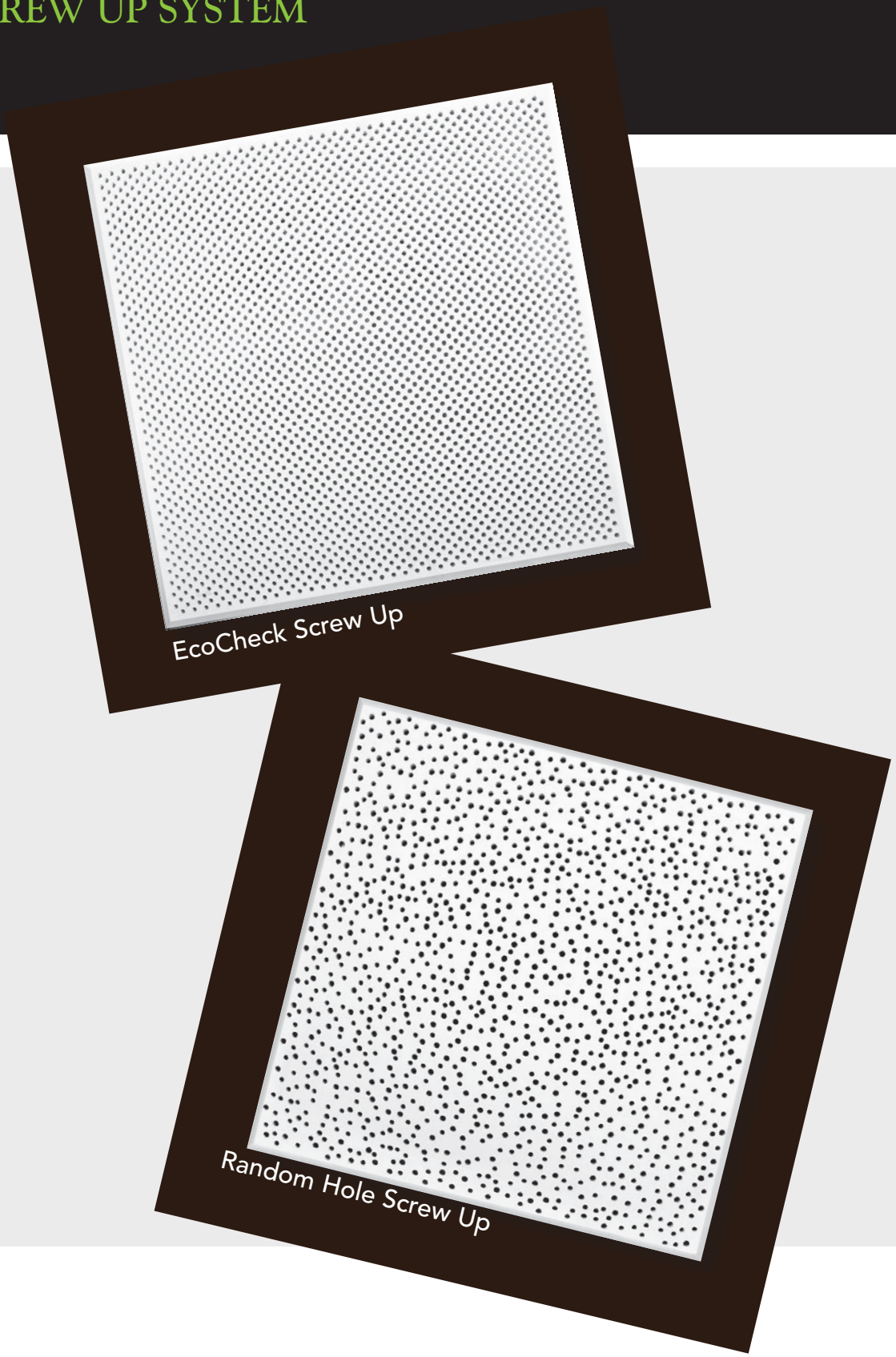
A diamond pattern tile

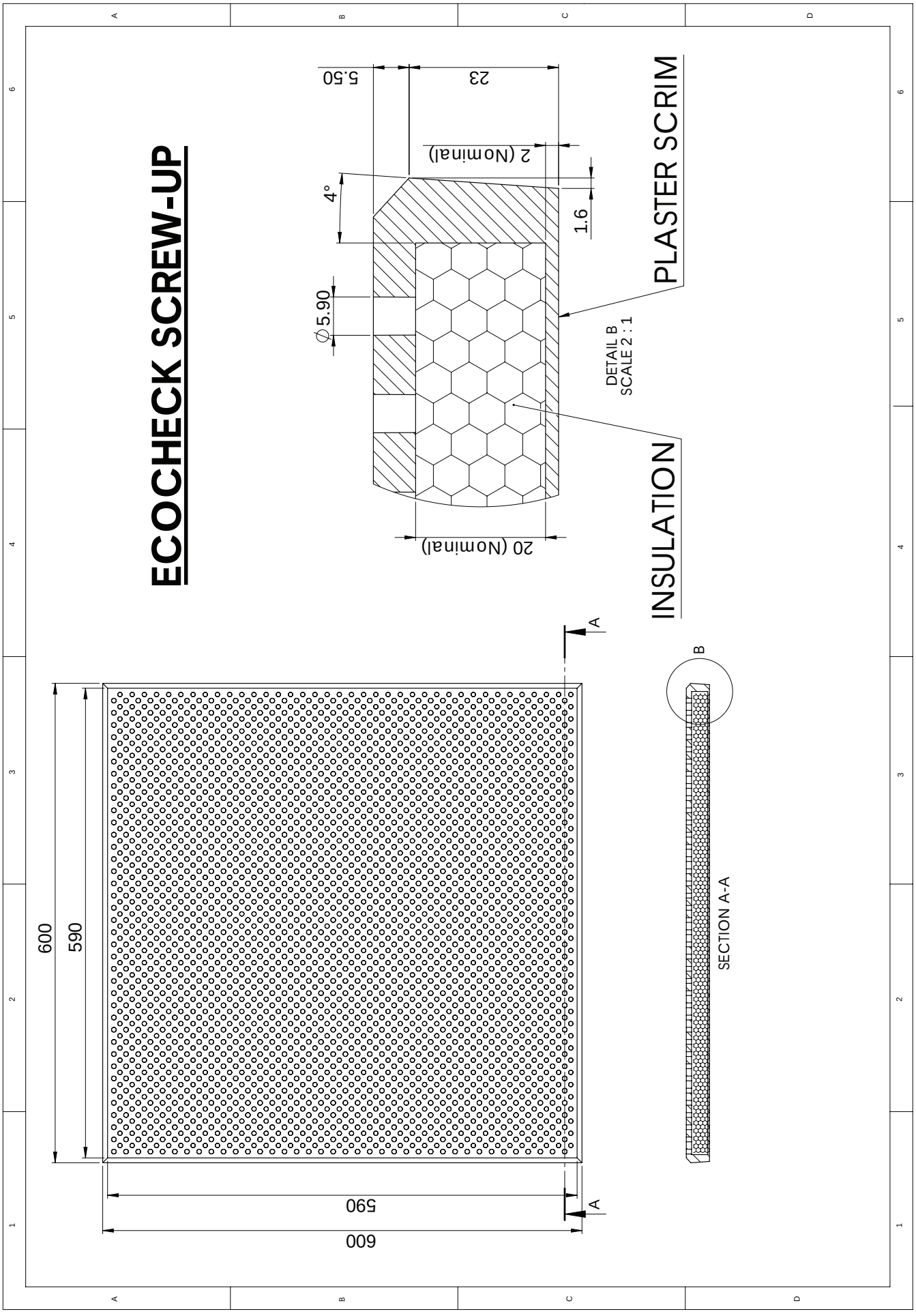
RANDOM HOLE SCREW UP CEILING TILE

A plain faced tile with Random Hole circular perforations over the entire tile

All dimensions are in mm and are approximate

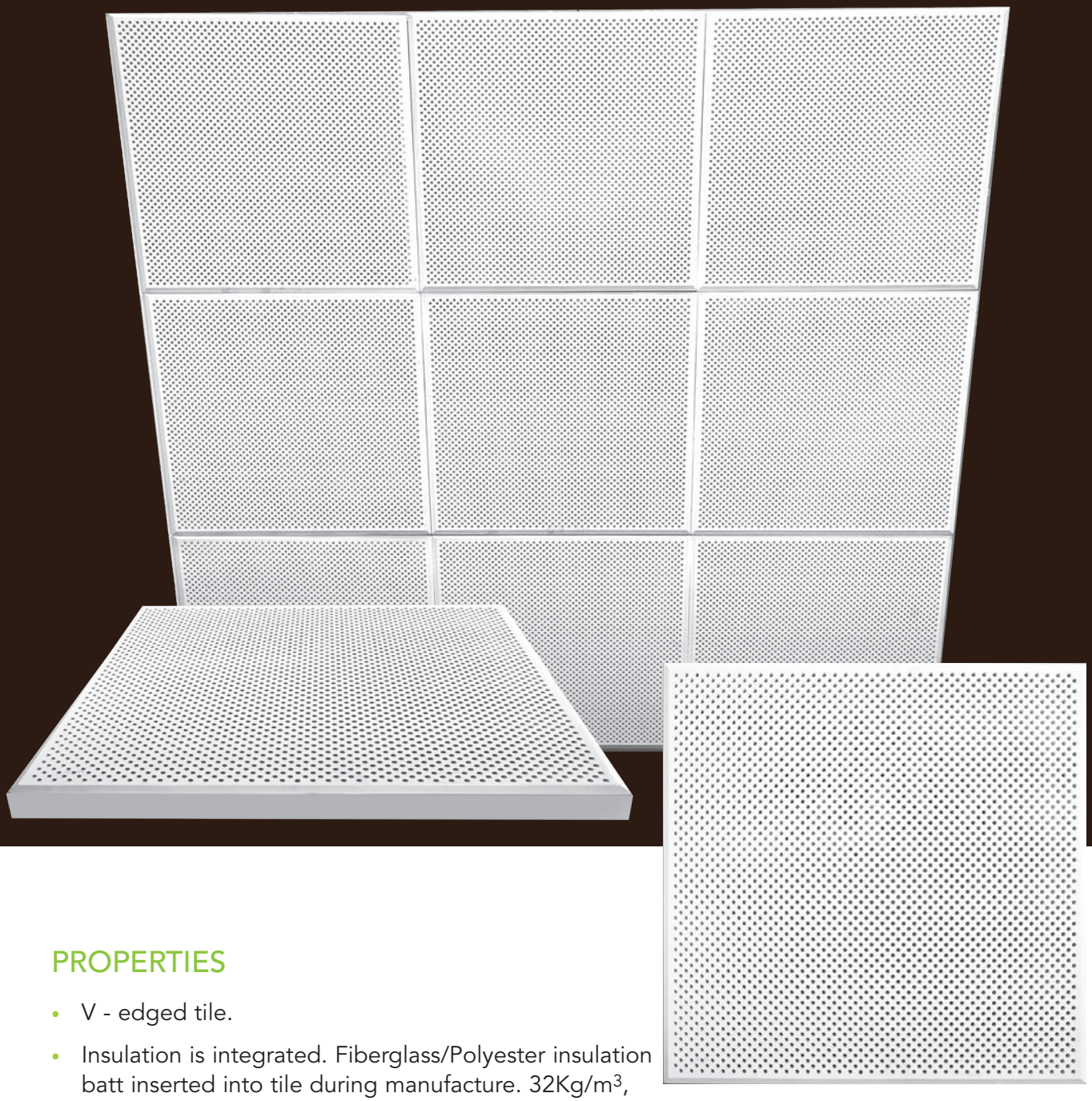
PLASTER ACOUSTIC CEILING TILES ON SCREW UP SYSTEM





All dimensions are in mm and are approximate

EcoCheck Screw Up



PROPERTIES

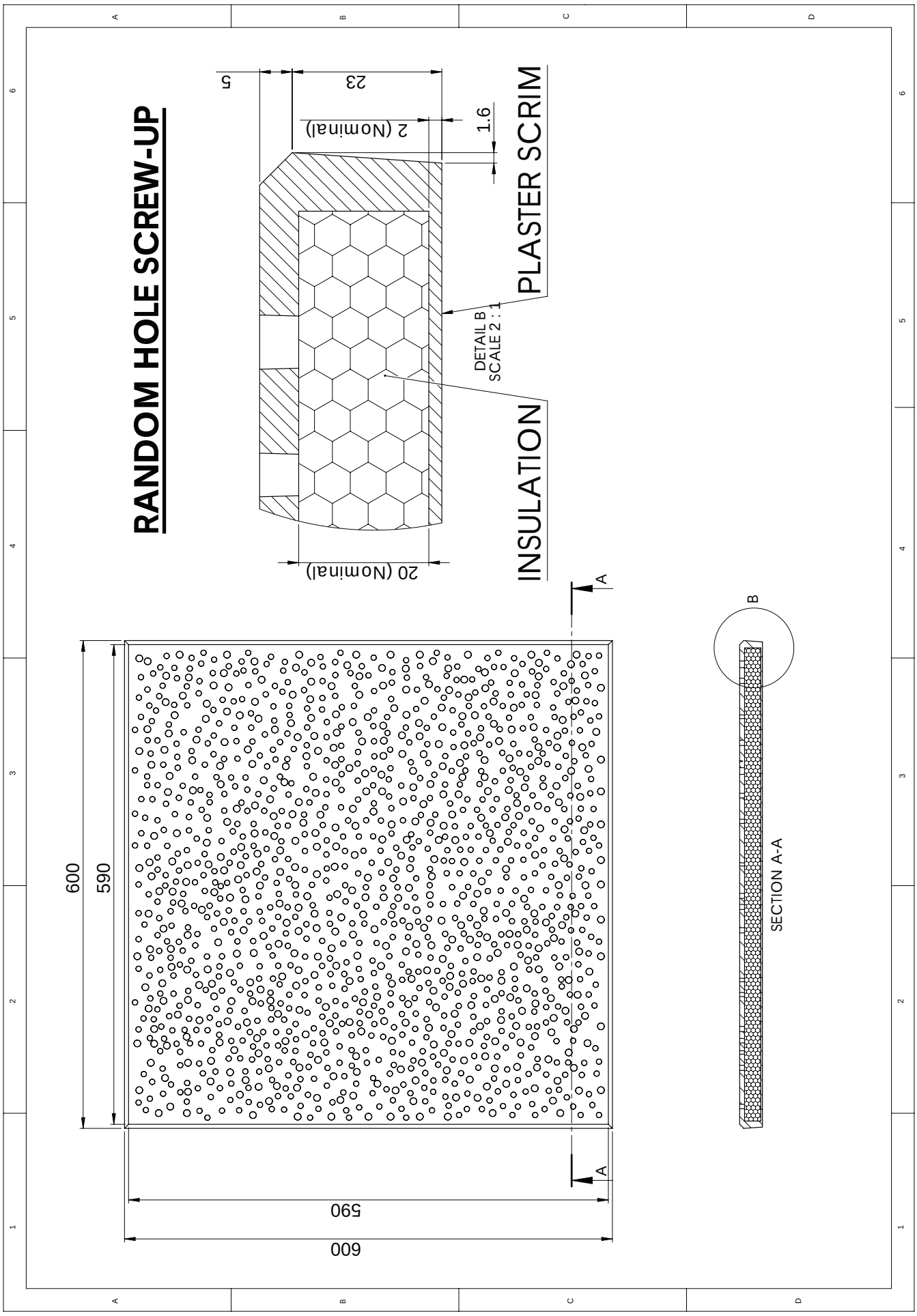
- V - edged tile.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with concealed Rondo Furring Channel No 155 system.

EcoCheck SU ACOUSTIC PERFORMANCE AND SPECIFICATION

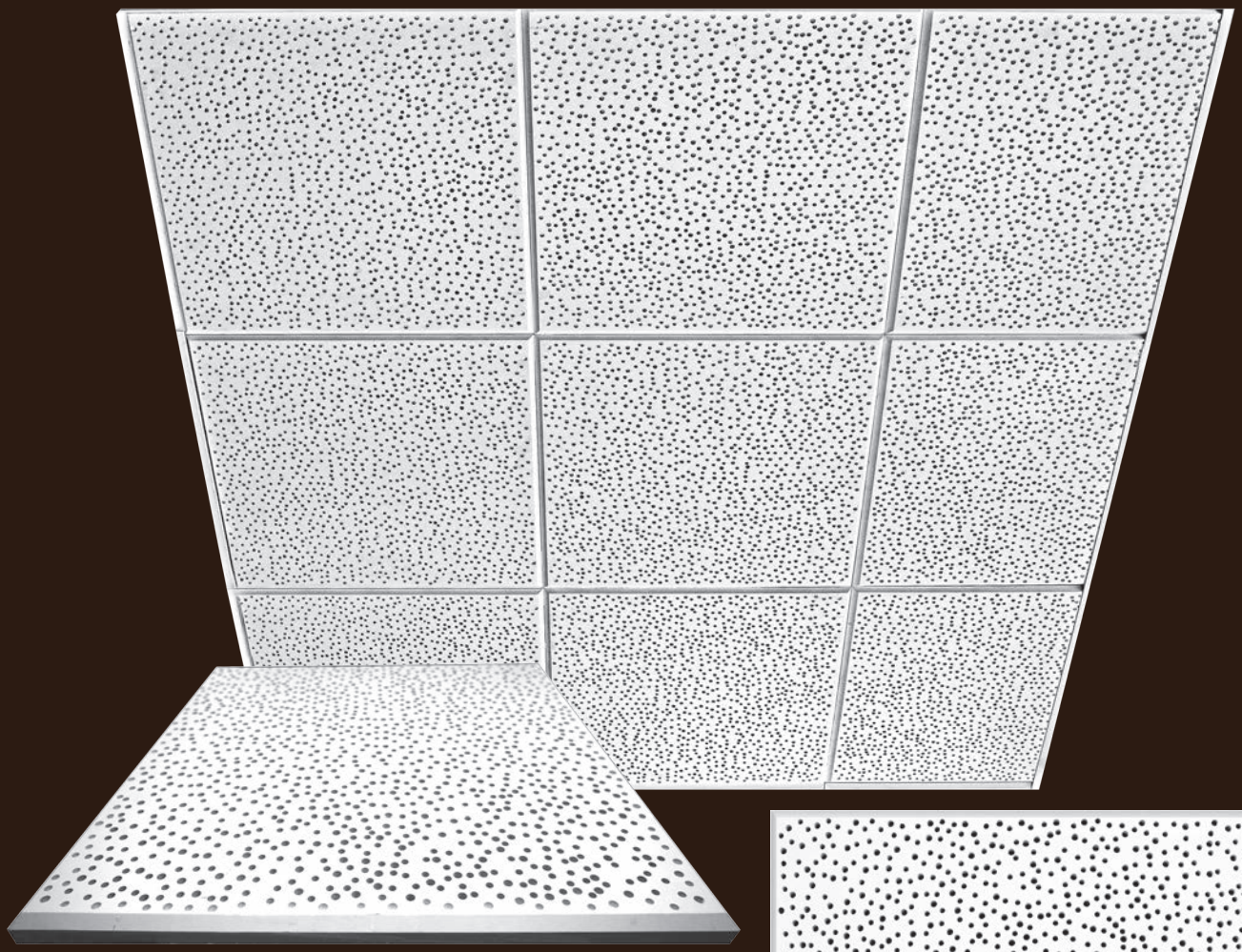
Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile - Kg
22.7%	30	600 x 600	42/46[1] 43/47[2]	0.80	0.80[1] 0.70[2]	0.80	12.5	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate



Random Hole Screw Up



PROPERTIES

- V - edged tile.
- Insulation is integrated. Fiberglass/Polyester insulation batt inserted into tile during manufacture. 32Kg/m^3, 20mm thick Glasswool/Polyester
- To be used in conjuction with concealed Rondo Furring Channel No 155 system.

Random Hole SU ACOUSTIC PERFORMANCE AND SPECIFICATION

Open Area	Thickness mm	Size mm	CAC	R Value	NRC	% Light Reflective	Mass Kg/m^2	Weight per Tile - Kg
16.6%	30	600 x 600	38/42[1] 39/43[2]	0.80	0.70[1] 0.65[2]	0.80	12.5	4.5

[1] Fiberglass [2] Polyester - further test pending

All dimensions are in mm and are approximate

RANDOM HOLE SCREW UP INSTALLATION

LDS Church Lami, Fiji

All dimensions are in mm and are approximate

RANDOM HOLE SCREW UP INSTALLATION

Private Home Theatre Sydney, Australia

THE CRAFTSTONE COLLECTION

■ for plaster acoustic tiles

ADVANTAGES

DURABLE

Each tile is made of reinforced plaster. This means they will not deteriorate. These tiles are pre–painted white. They are resistant to humidity, will not grow mould or bacteria. They will not sag.

EASILY INSTALLED

They simply drop into exposed grid systems.

Acoustic fabric backing is attached to the back of the tiles for testing only, fabric not included.

NOISE REDUCTION

The ceiling tiles are 600 x 600 mm, 15 - 25mm thick and with added acoustic fabric backing, gives NRC rating from 0.60 - 0.70* creating a quiet and pleasant environment.

* see note below

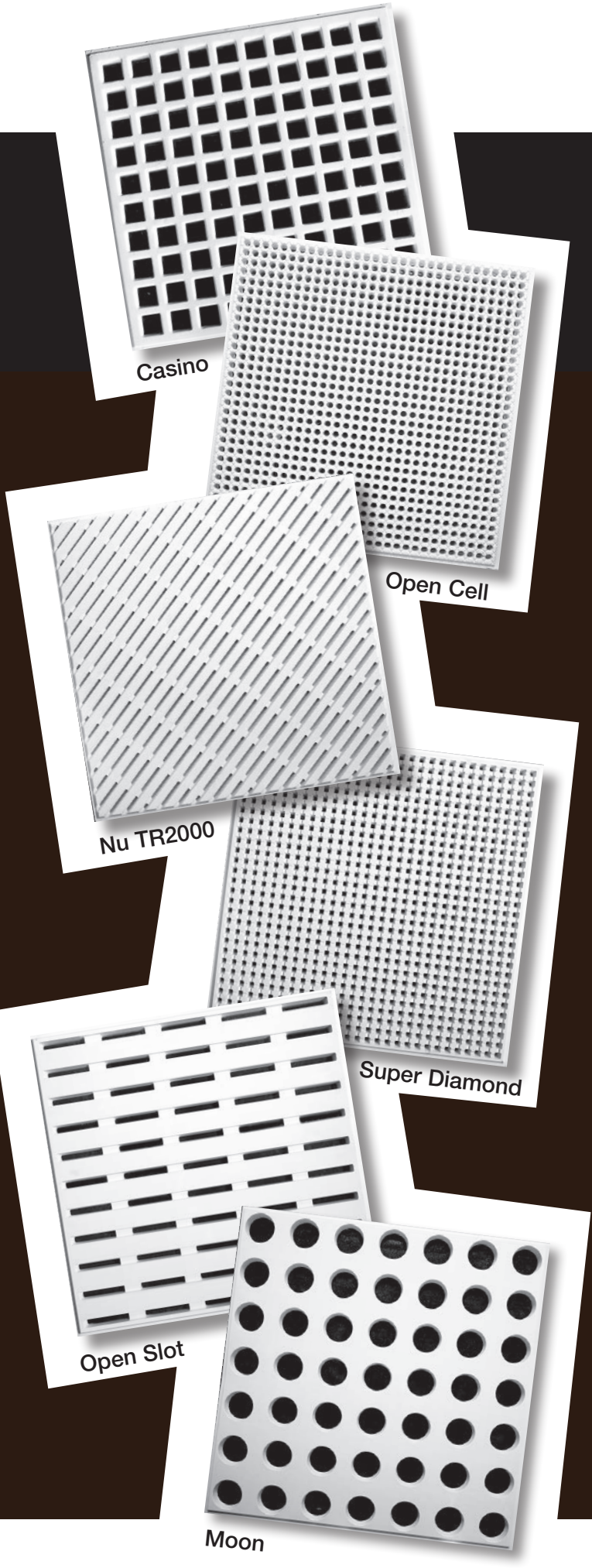
MASS

11.50 – 14.40 kg/m^2

*NOTE

The Craftstone Range is supplied, standard, *without* insulation. A choice of acoustic insulation can be manufactured with this range upon request.

The Craftstone Collection are truly beautiful, decorative ceiling tiles. They are aesthetic, artistic and functional.



THE CRAFTSTONE RANGE:

CASINO

A 25mm thick tile with 45mm square holed openings in a 10 x 10 grid. Achieves a very high acoustic rating

OPEN CELL

A circular holed tile giving a very clear crisp style for exposed grid system.

NU TR2000

Diagonal bands across tile with perforations and slots between each band.

SUPER DIAMOND

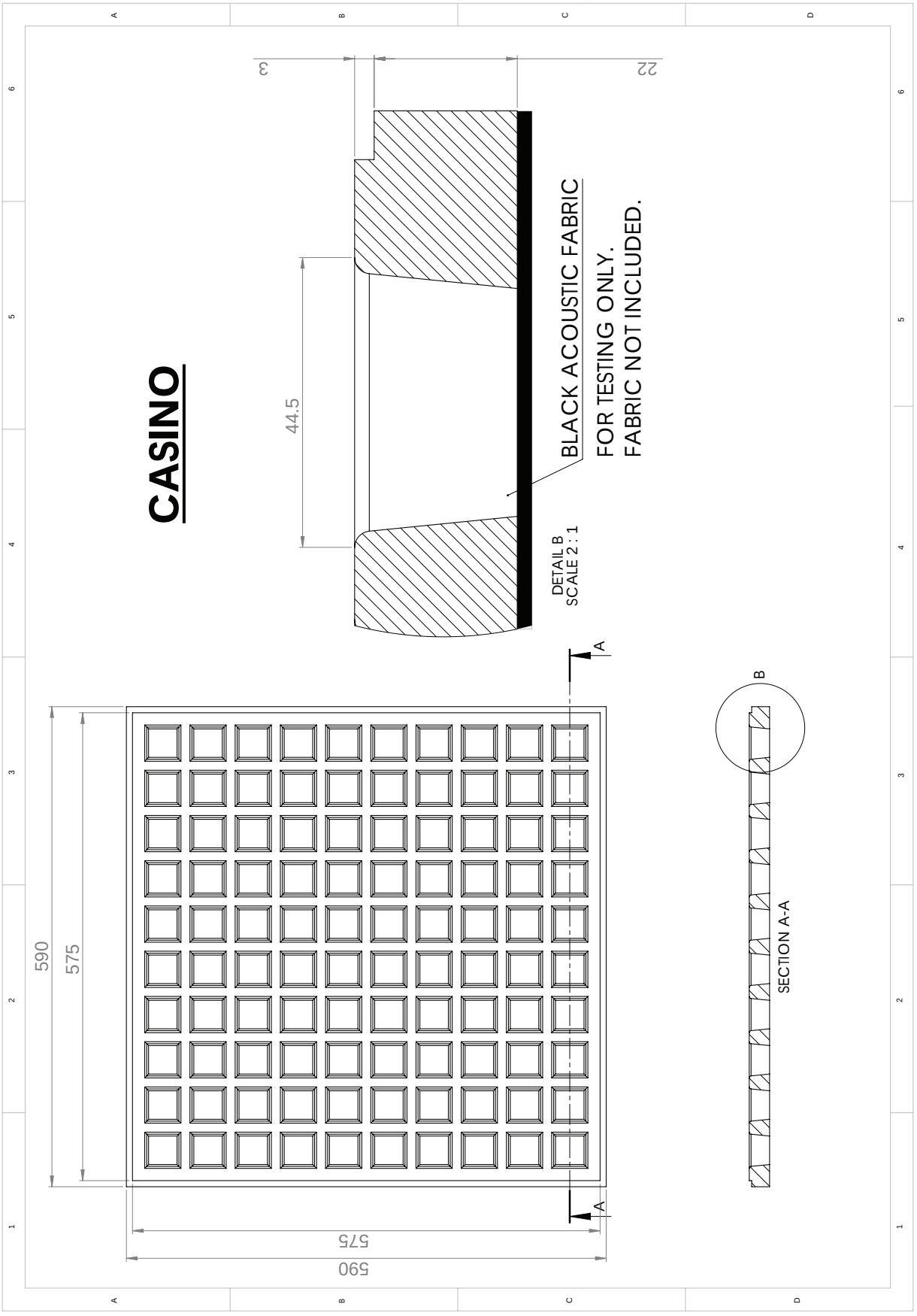
A faceted face with perforations making up square sections in the tile.

OPEN SLOT

A banded tile separated with perforations along each edge giving a slotted look.

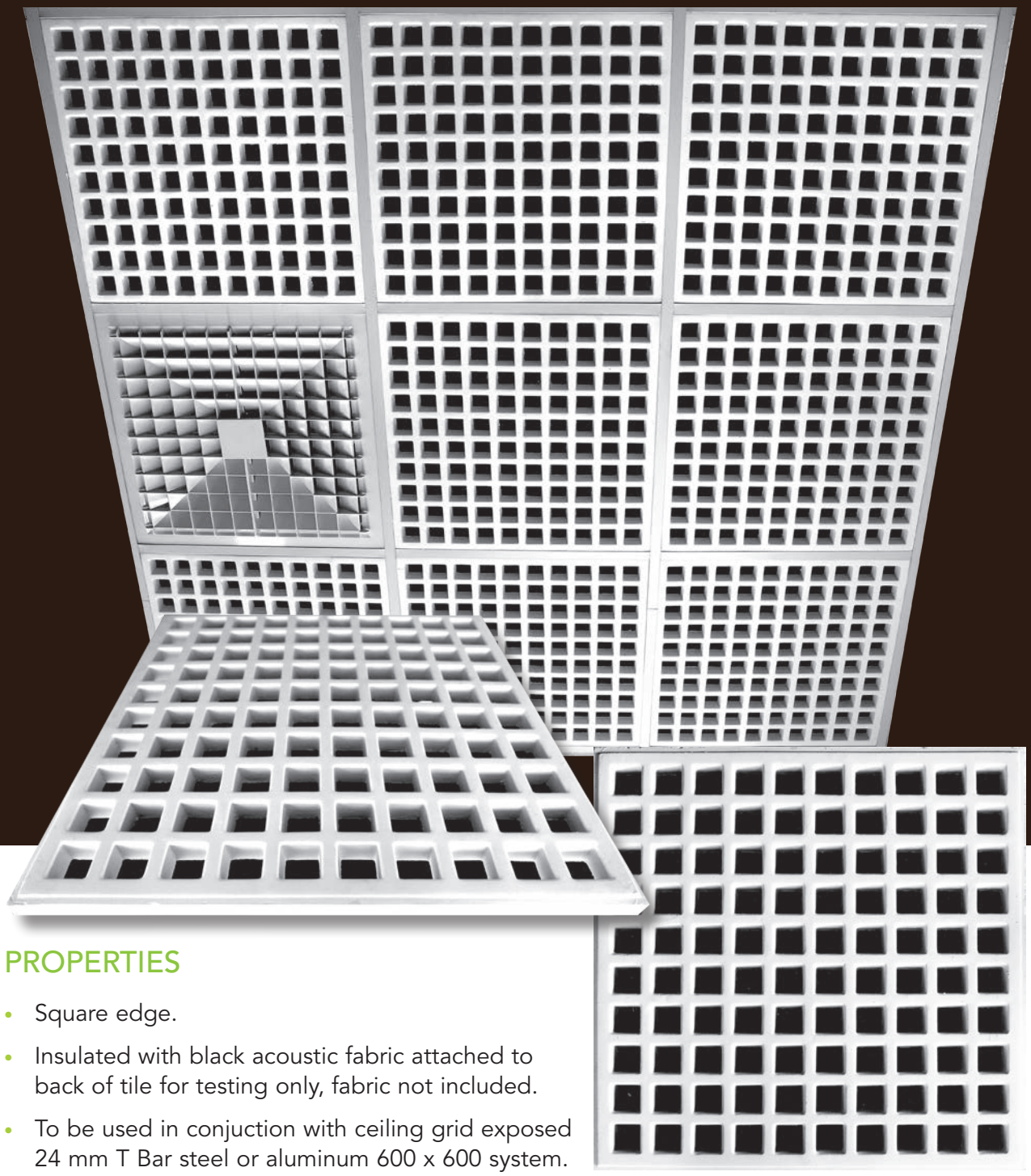
MOON TILE

55mm circular perforations, arranged in a 7 x 7 grid giving a moon look.



All dimensions are in mm and are approximate

Casino



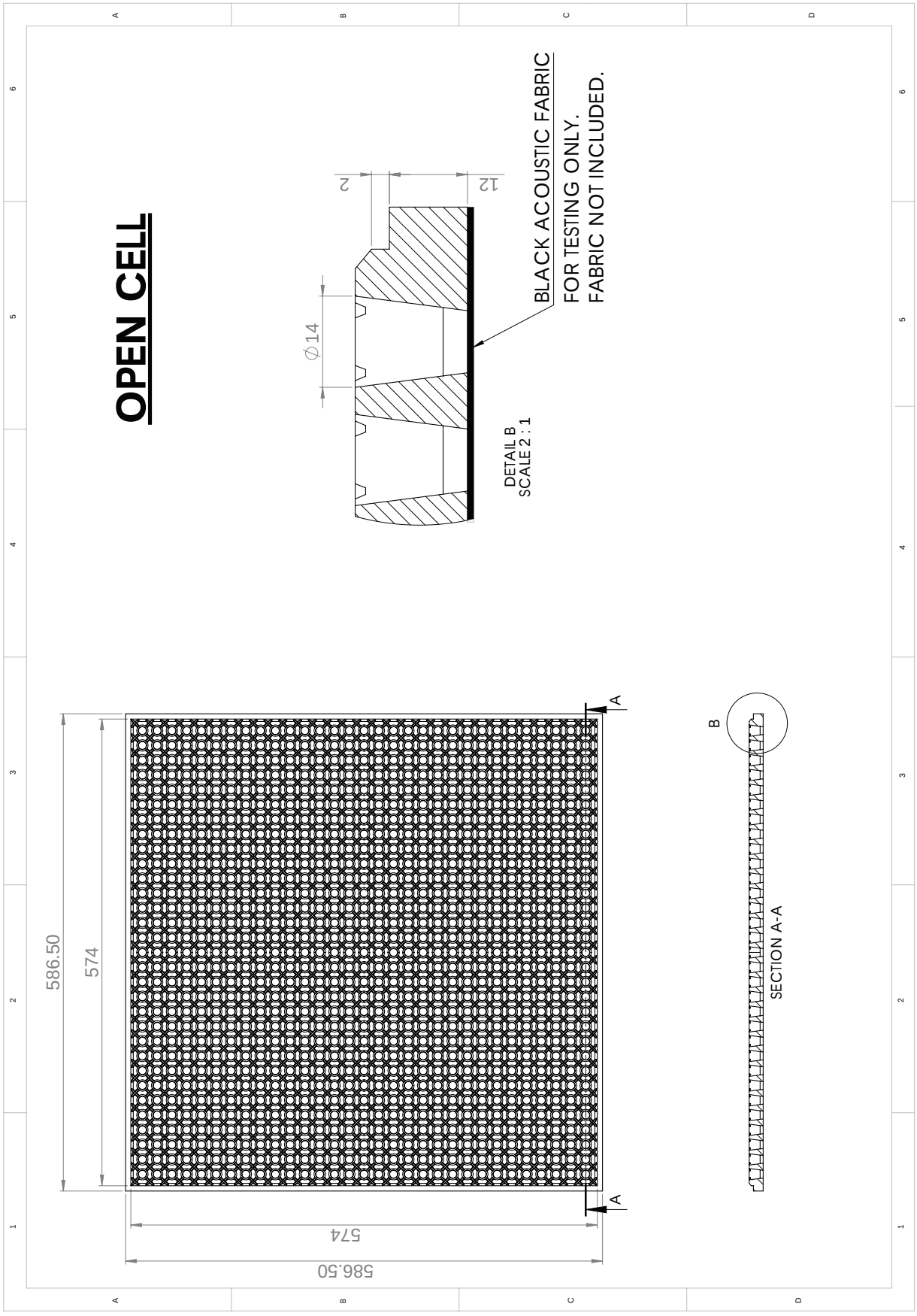
PROPERTIES

- Square edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Casino ACOUSTIC PERFORMANCE AND SPECIFICATION

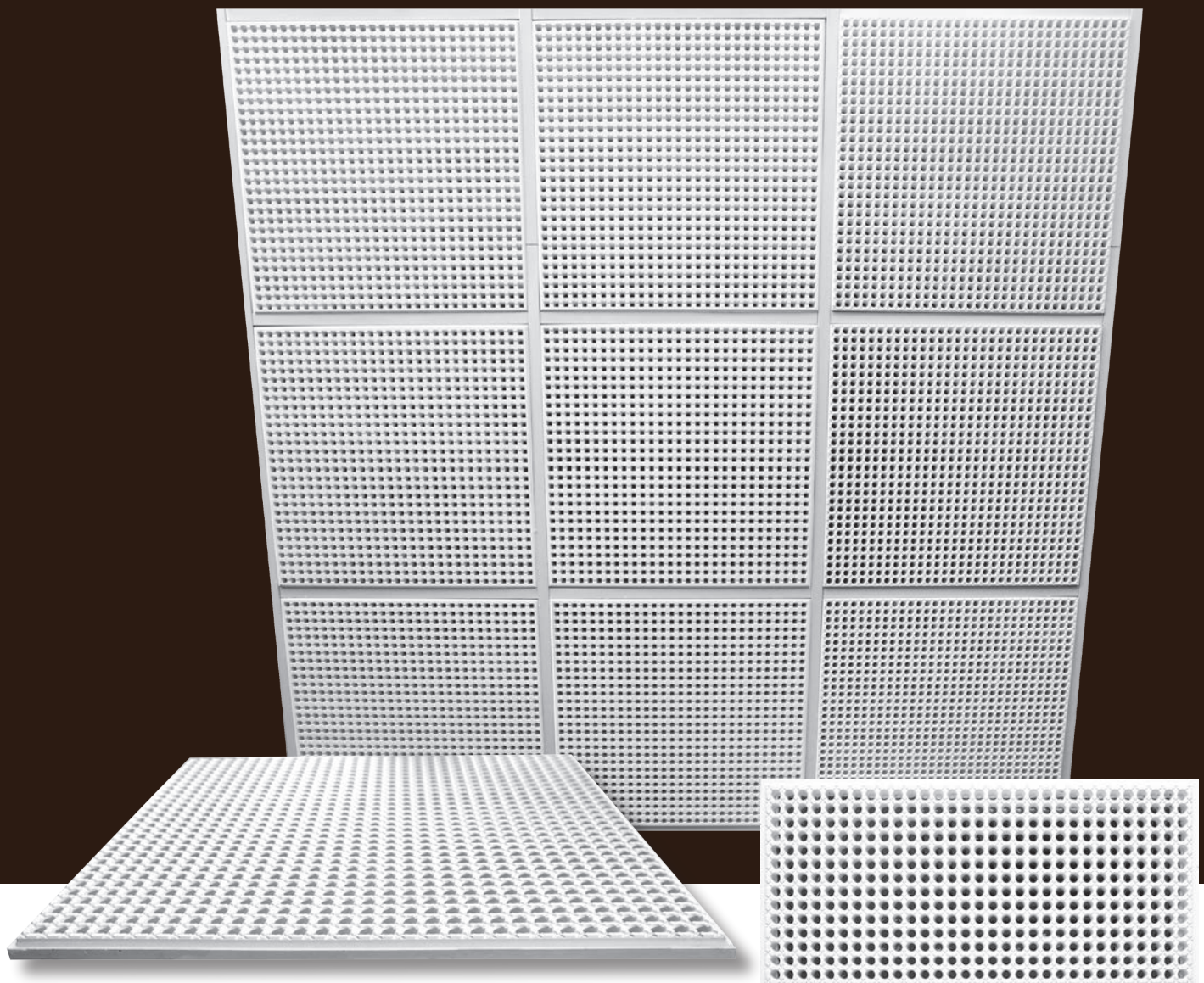
Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
35.2%	25	600 x 600	0.70	0.70	14.10	5.08

All dimensions are in mm and are approximate



All dimensions are in mm and are approximate

Open Cell



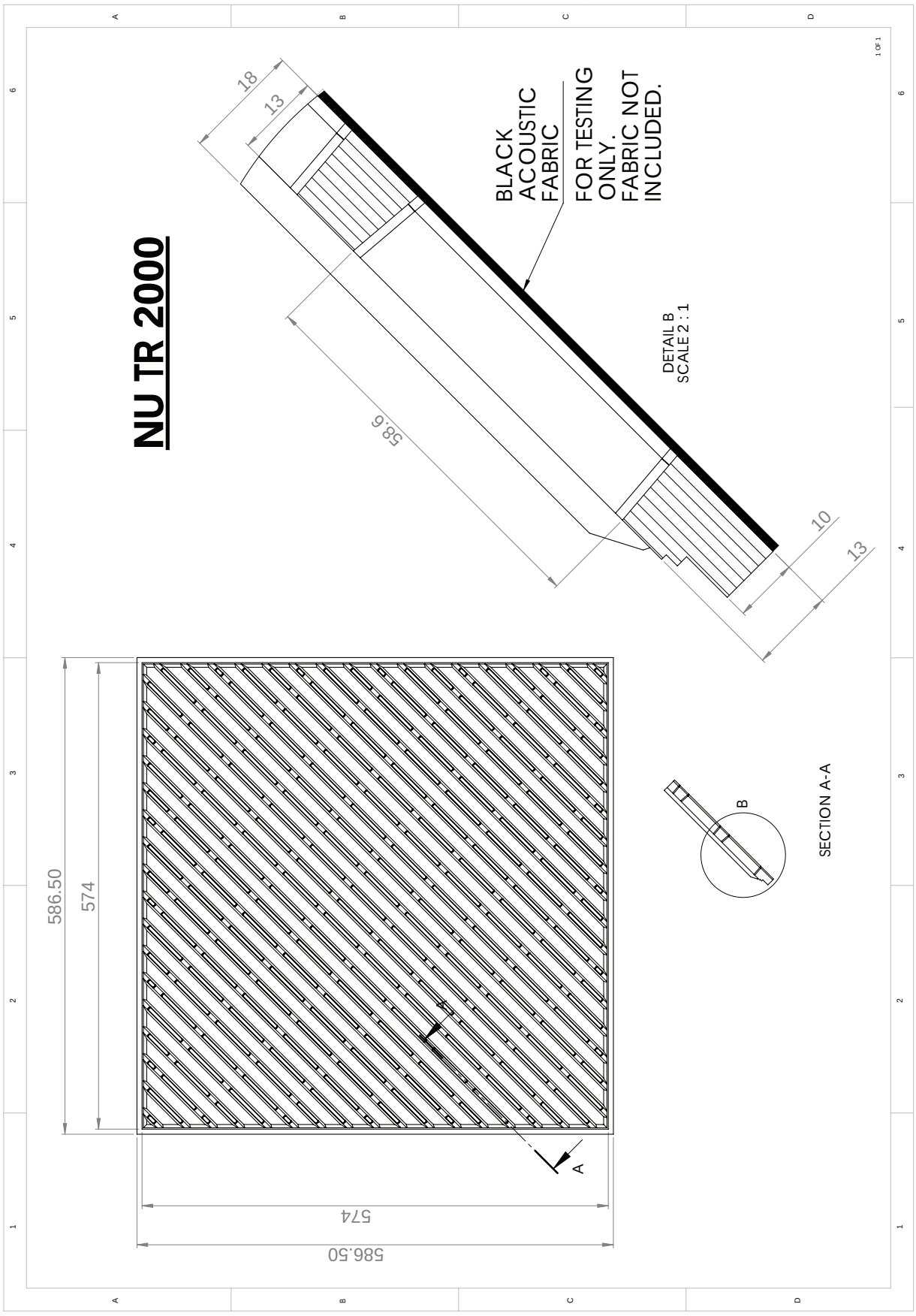
PROPERTIES

- Bevelled edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Open Cell ACOUSTIC PERFORMANCE AND SPECIFICATION

Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
26.2%	16	600 x 600	0.70	0.76	12.47	4.5

All dimensions are in mm and are approximate



Nu TR2000

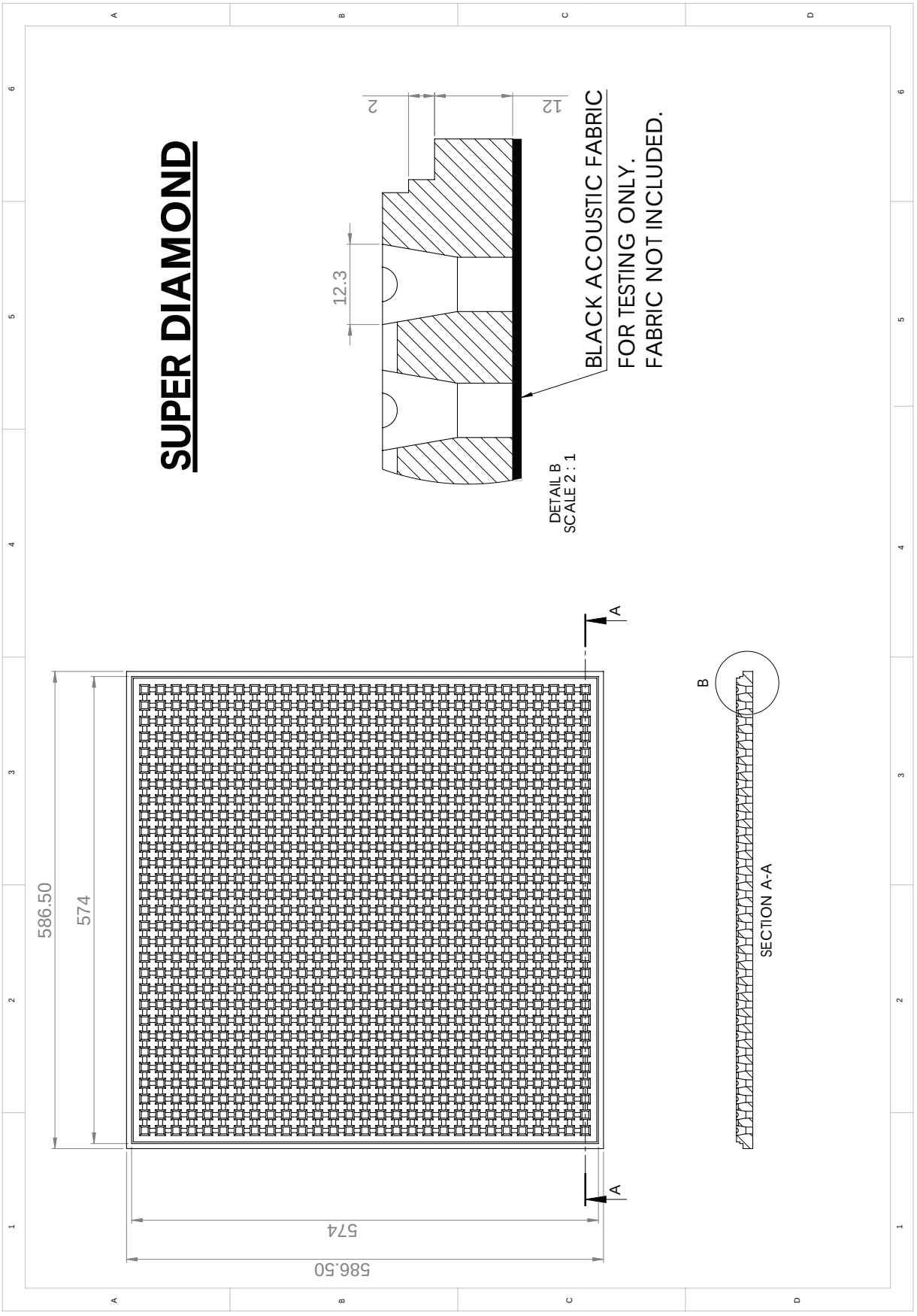
PROPERTIES

- Bevelled edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Nu TR2000 ACOUSTIC PERFORMANCE AND SPECIFICATION

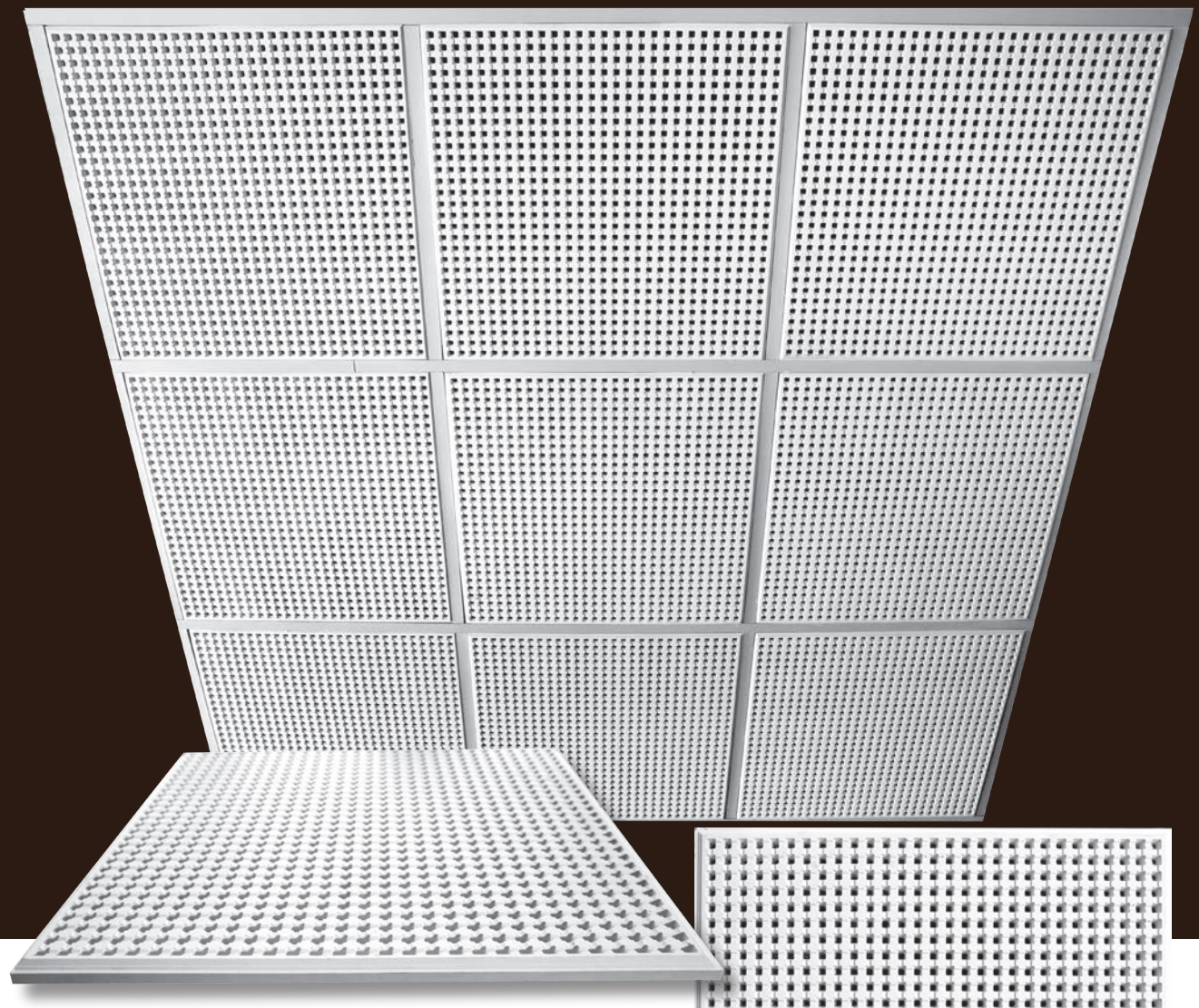
Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
14.3%	18	600 x 600	0.65	0.77	14.04	4.5

All dimensions are in mm and are approximate



All dimensions are in mm and are approximate

Super Diamond



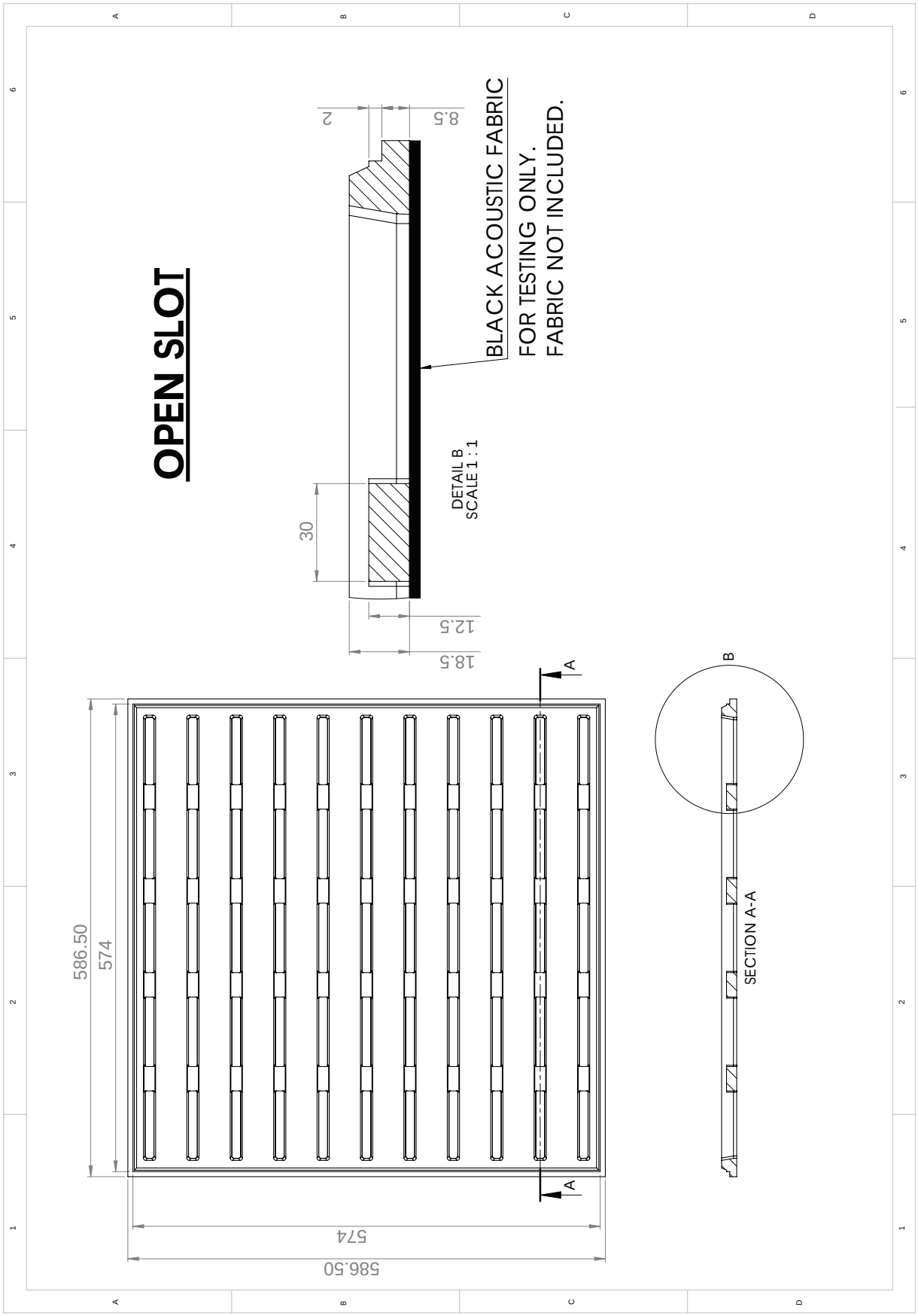
PROPERTIES

- Bevelled edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Super Diamond ACOUSTIC PERFORMANCE AND SPECIFICATION

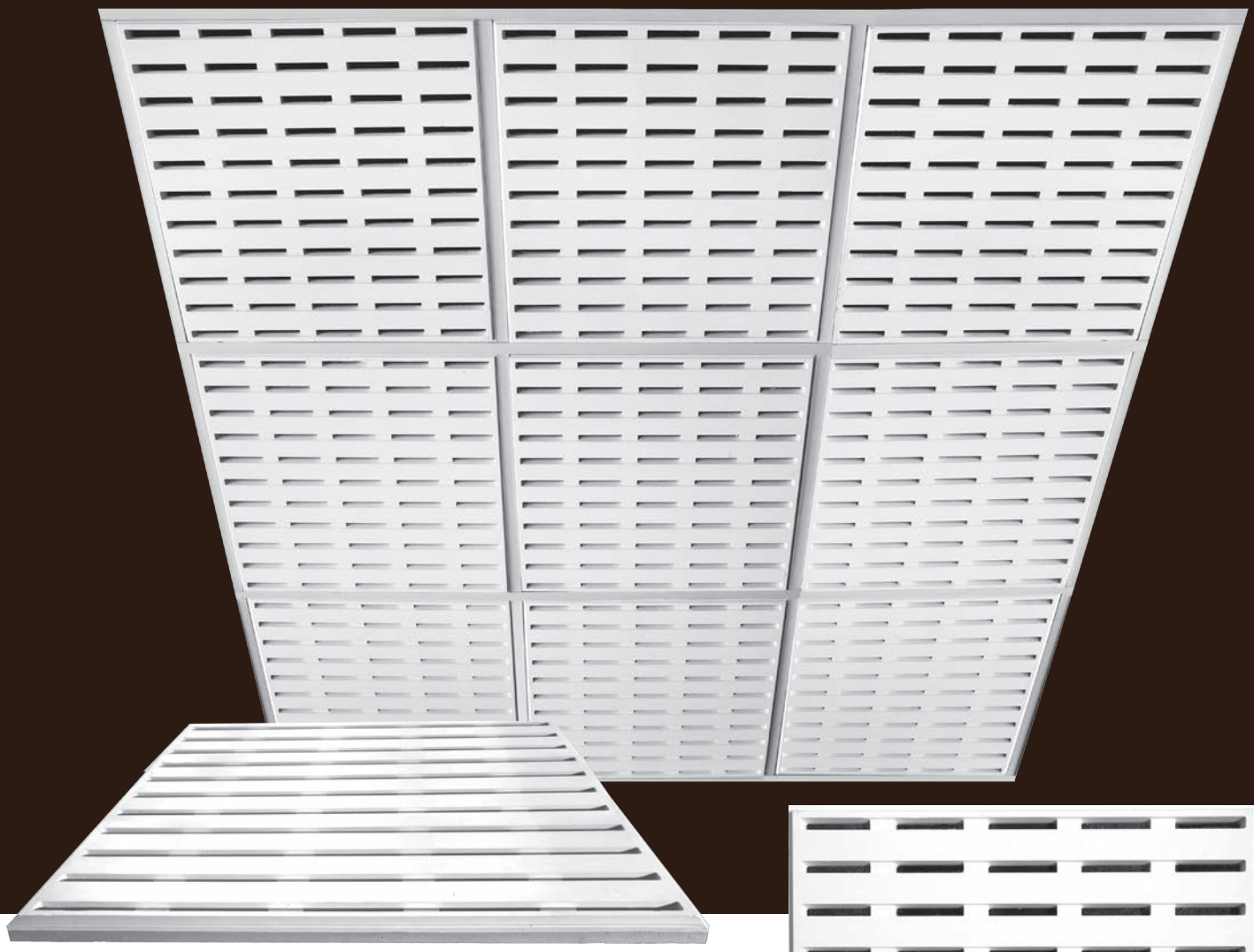
Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
12.1%	16	600 x 600	0.65	0.78	12.80	4.5

All dimensions are in mm and are approximate



All dimensions are in mm and are approximate

Open Slot



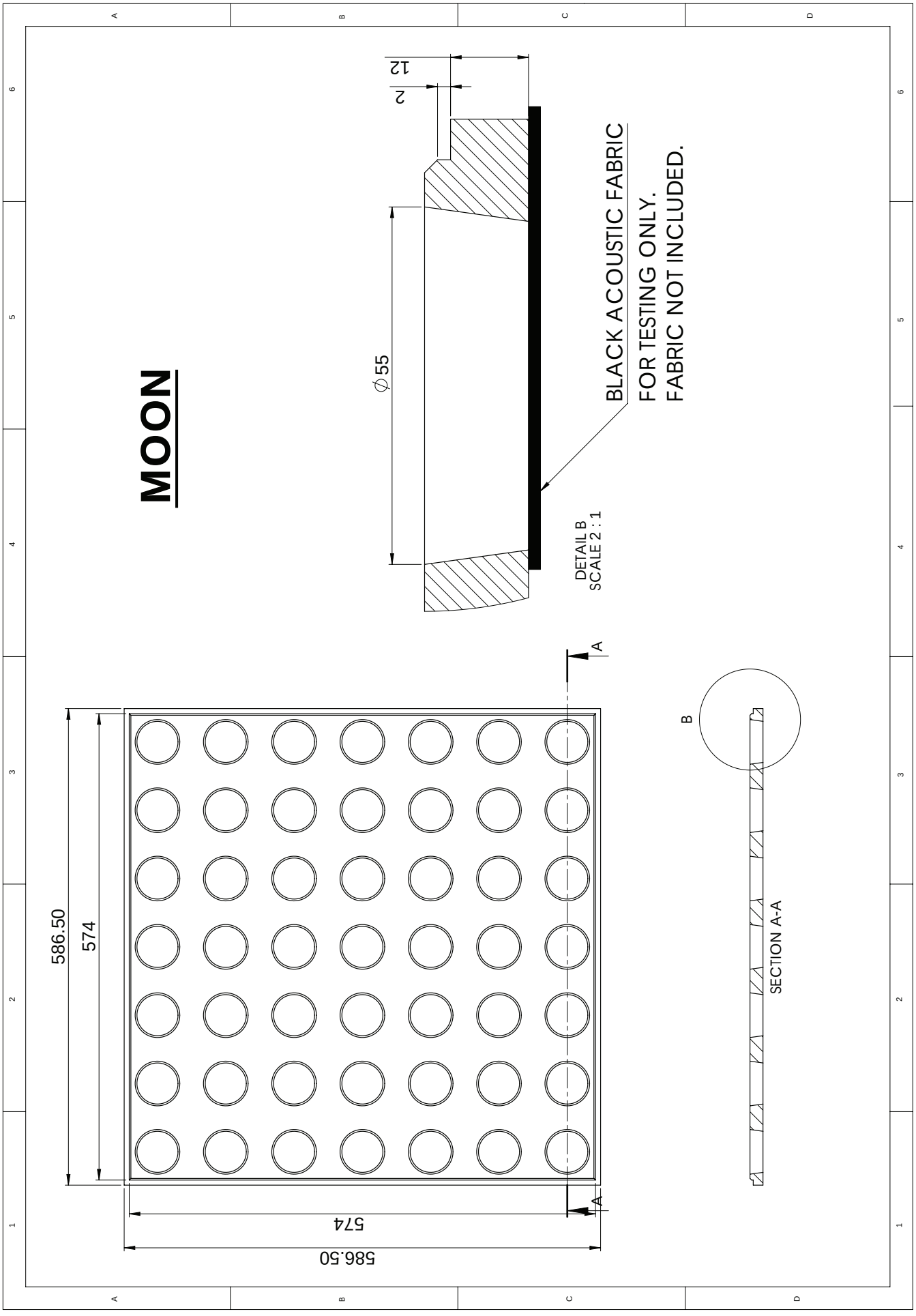
PROPERTIES

- Bevelled edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Open Slot ACOUSTIC PERFORMANCE AND SPECIFICATION

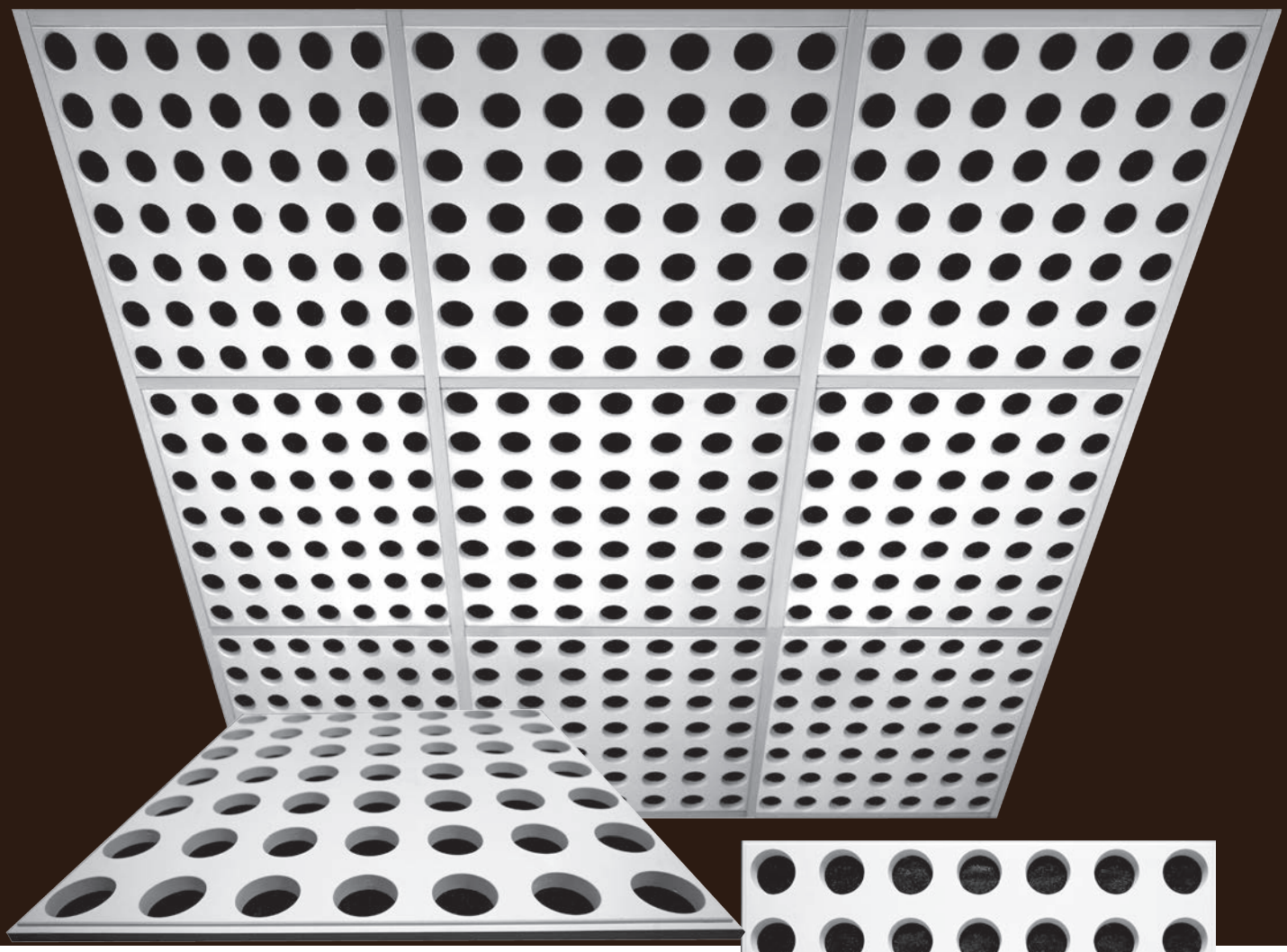
Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
12.6%	18	600 x 600	0.60	0.74	14.40	5.2

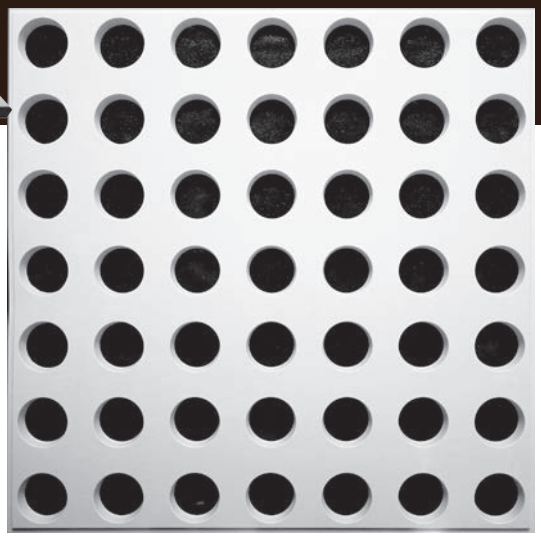
All dimensions are in mm and are approximate



All dimensions are in mm and are approximate

Moon





PROPERTIES

- Bevelled edge.
- Insulated with black acoustic fabric attached to back of tile for testing only, fabric not included.
- To be used in conjuction with ceiling grid exposed 24 mm T Bar steel or aluminum 600 x 600 system.

Moon ACOUSTIC PERFORMANCE AND SPECIFICATION

Open Area	Thickness mm	Size mm	NRC	% Light Reflective	Mass Kg/m²	Weight per Tile Kg
28.1%	16	600 x 600	0.65	0.74	11.5	3.94

All dimensions are in mm and are approximate

NEW YORK COLLECTION

■ Plasteglass panels

New York Collection

Sound Absorptive, Decorative Cast Plaster, Wall and Ceiling Panels.

1. This collection is perfect for interior designers and architects who are looking for aesthetic designs coupled with high acoustical properties.
2. This collection is the subtle, innovative solution for creating a unique decorative finish while providing a high level of sound absorption for ceilings and walls.
3. Ceiling and wall panels are available in three unique designs with either round perforations, square perforations or a very stylish slotted design.

FEATURES

1. Full acoustic perforations
2. Simple installation screw fix to steel or timber battens
3. Flush jointing
4. Precise lines
5. Three unique and innovative designs

BENEFITS

- High sound absorption with NRC up to 0.85
- Reduces noise reverberation
- Unique and innovative designs which can only be achieved with cast plaster
- Prevents dust entering into room space
- Reduces echo
- Able to help to distinguish between music and speech

APPLICATION

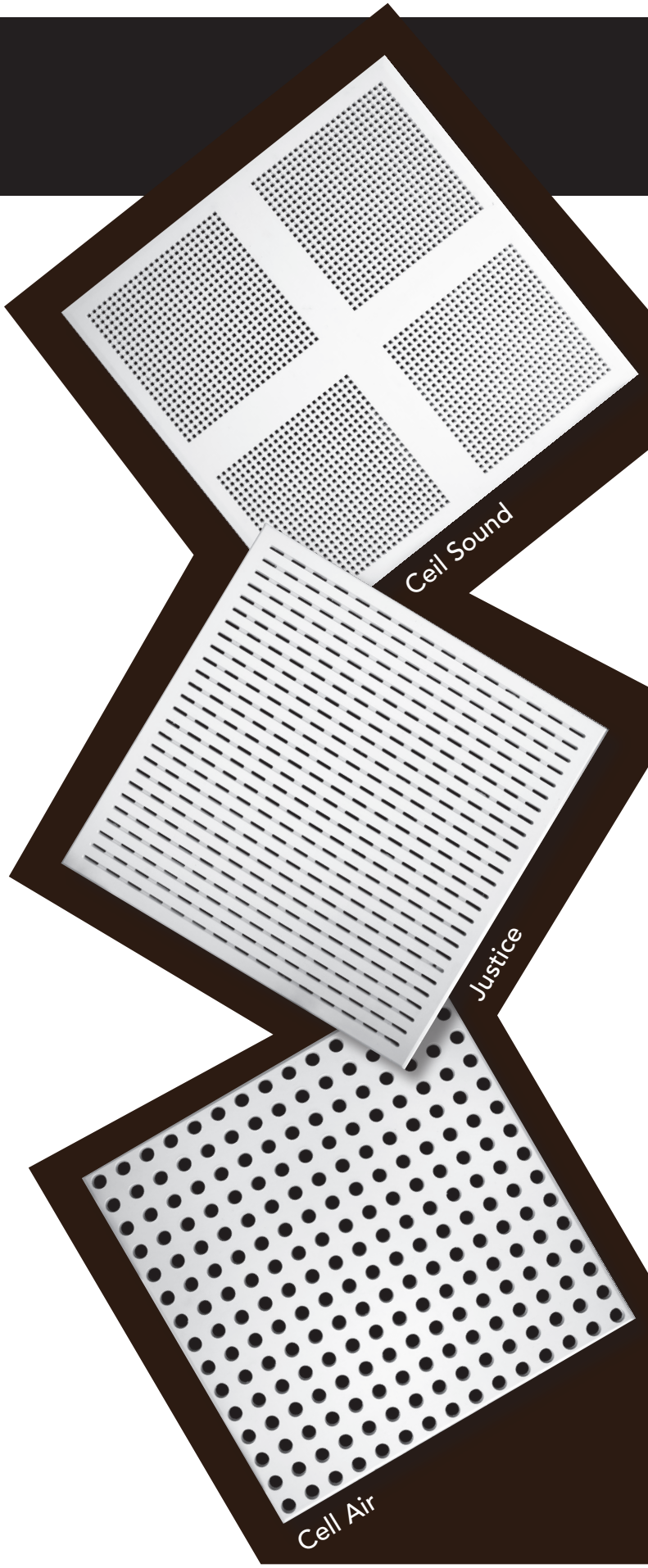
- Commercial office buildings
- Show rooms
- Schools and universities
- Restaurants, cafes, food halls
- Retail complexes
- Shopping centres
- Auditoriums and concert halls
- Libraries and galleries
- Cinemas
- Home theatres
- Foyers for public buildings
- Music rooms

INSTALLATION

- Plan layout before commencing
- Take measurements from the center of the room to ensure even borders
- Fit battens at 600 centres
- Line up perforated panels to create uniform pattern
- Use insulation behind board for better NRC performance

All dimensions are in mm and are approximate

FUNCTIONALITY MEETS STYLE



The perfect solution for walls & ceilings

- Acoustical solutions and plaster innovations available in 3 stylish designs with either square or round perforations to suit restaurants,home theatres and music rooms, schools, public buildings and more.
- Perforated cast plaster ceiling sheet is suitable for installation of feature panels on walls and ceilings.
- Sound absorptive decorative plaster. It is the quiet solution, functional and decorative. It provides a high level of sound absorption to the space. These are exceptional designs.

THE COLLECTION CONSISTS OF:

CEIL SOUND PANEL

10mm square hole perforated cast plaster with a half round intesecting indent into each square. Pattern is arranged in a grid of 4 per panel. Perimeter band 65mm

JUSTICE PANEL

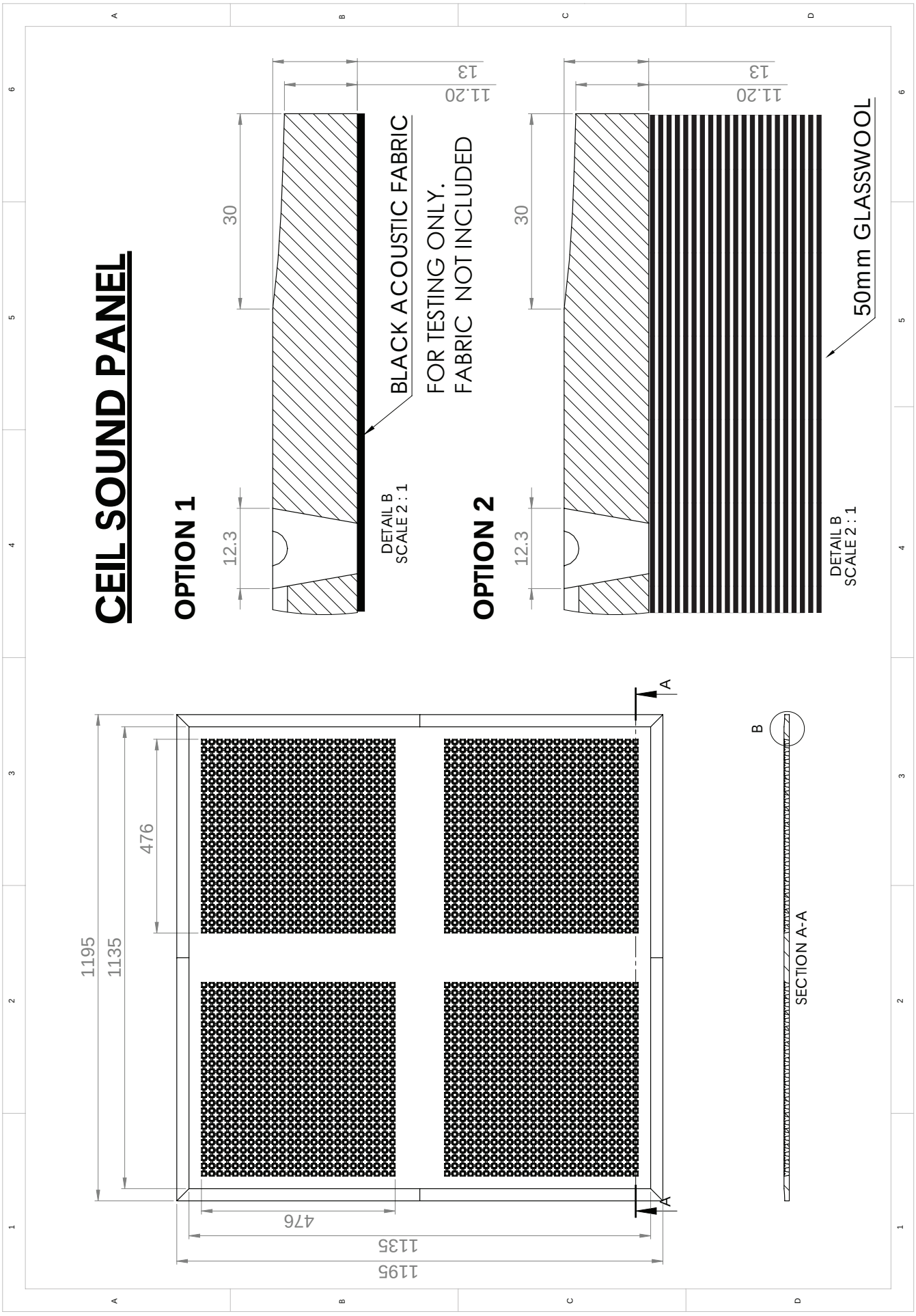
800mm linear slots intersected at 50mm intervals with plain 25mm x 10mm band. Perimeter band 50mm

CELL AIR PANEL

45mm circular perforations at 85mm centres arranged in a 15x15 grid

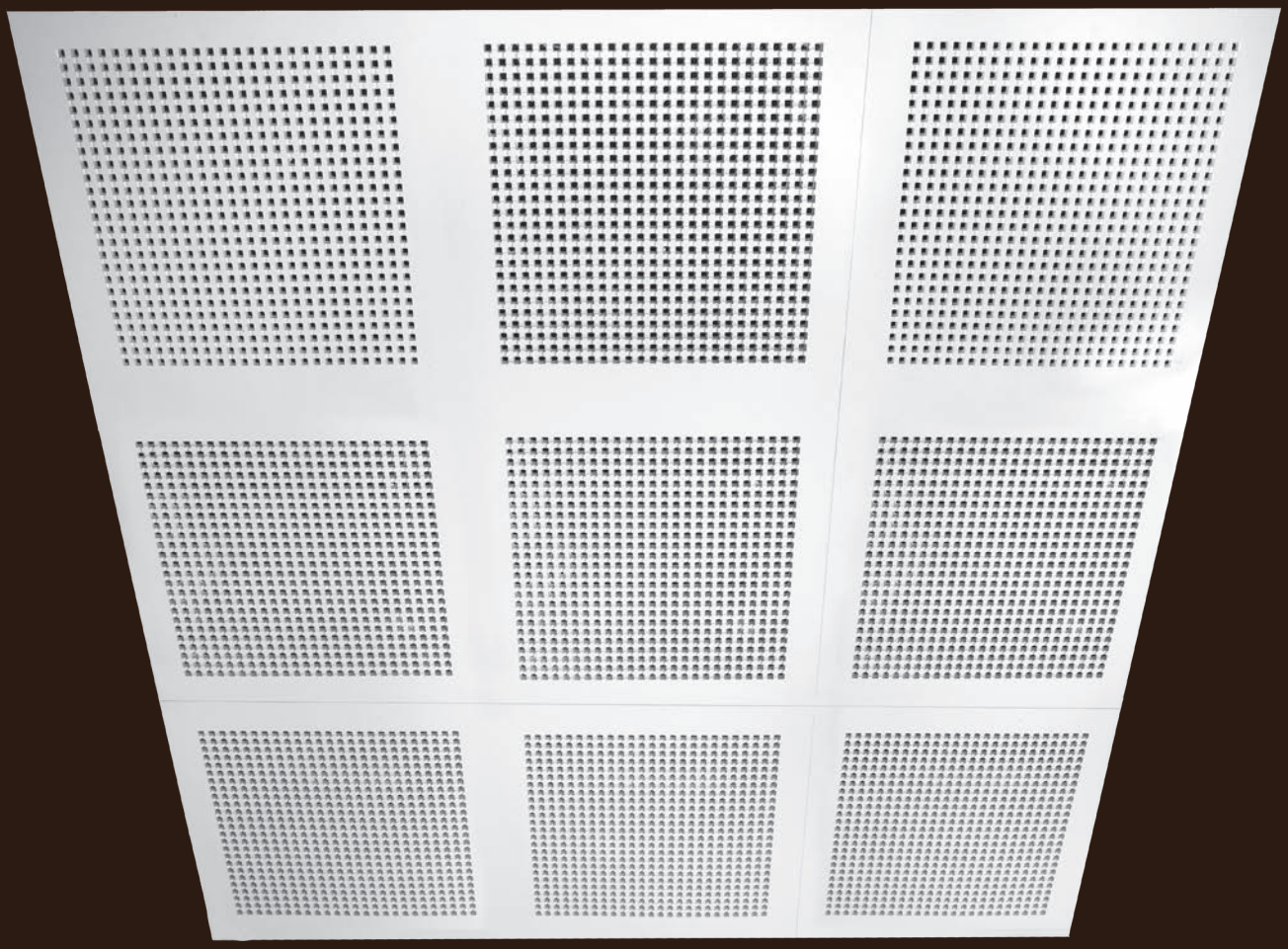
FEATURES

- Three unique and innovative designs
- Full acoustic perforations
- Simple installation screw fix to steel or timber battens
- Flush jointing
- Precise lines



All dimensions are in mm and are approximate

Ceil Sound



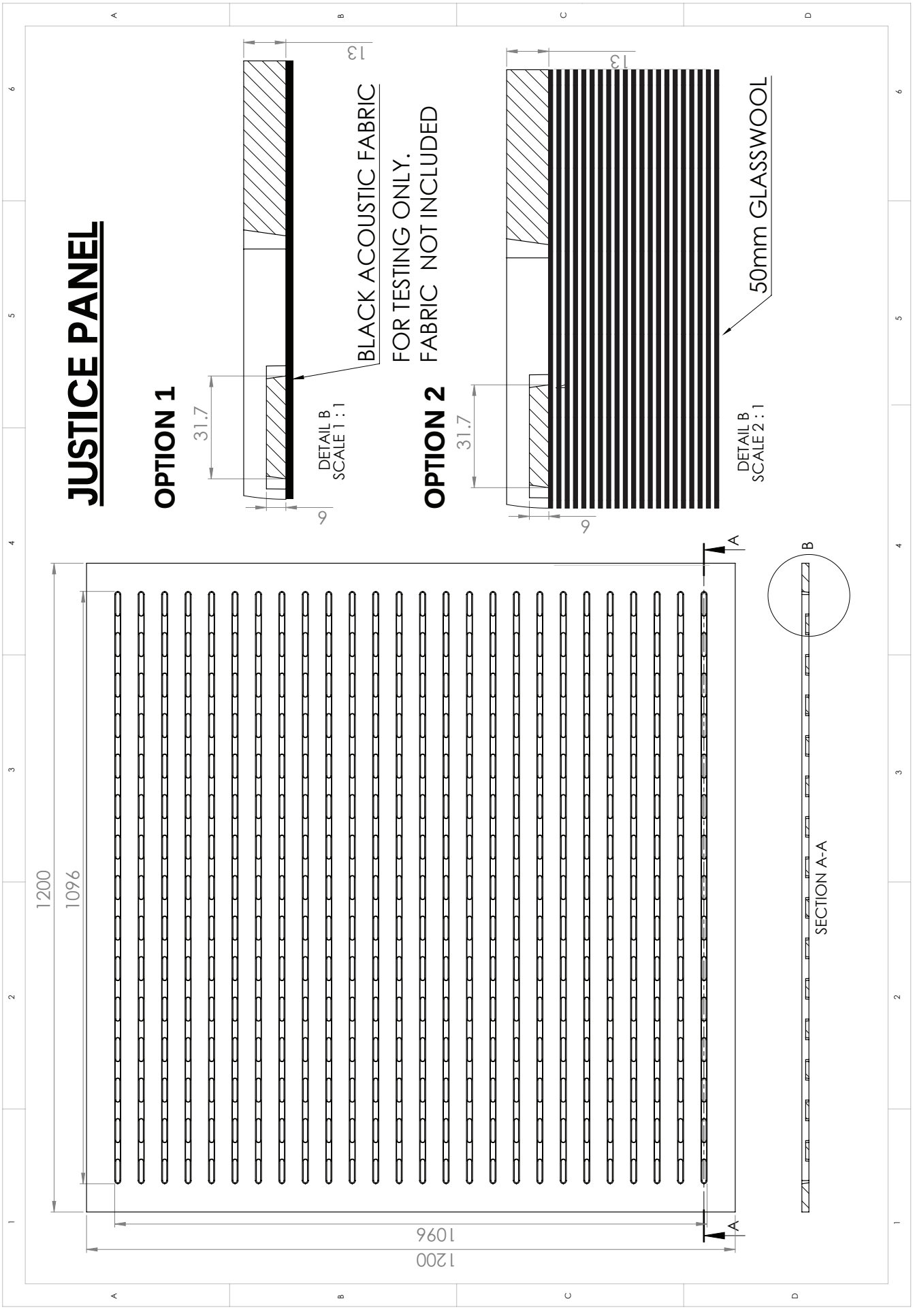
PROPERTIES

- 10mm square hole perforated plasterglass with a half round intesecting indent into each square. Pattern is arranged in a grid of 4 per panel, forming a continous pattern when joined. Perimeter band 65mm
- 13mm thick
- Insulated with black acoustic fabric attached to back for testing only, fabric not included (1) or 50mm 32Kg/m^2 Glasswool / Polyester (2)
- Mechanically fixed (screwed to Rondo Furring Channel Part No 155)

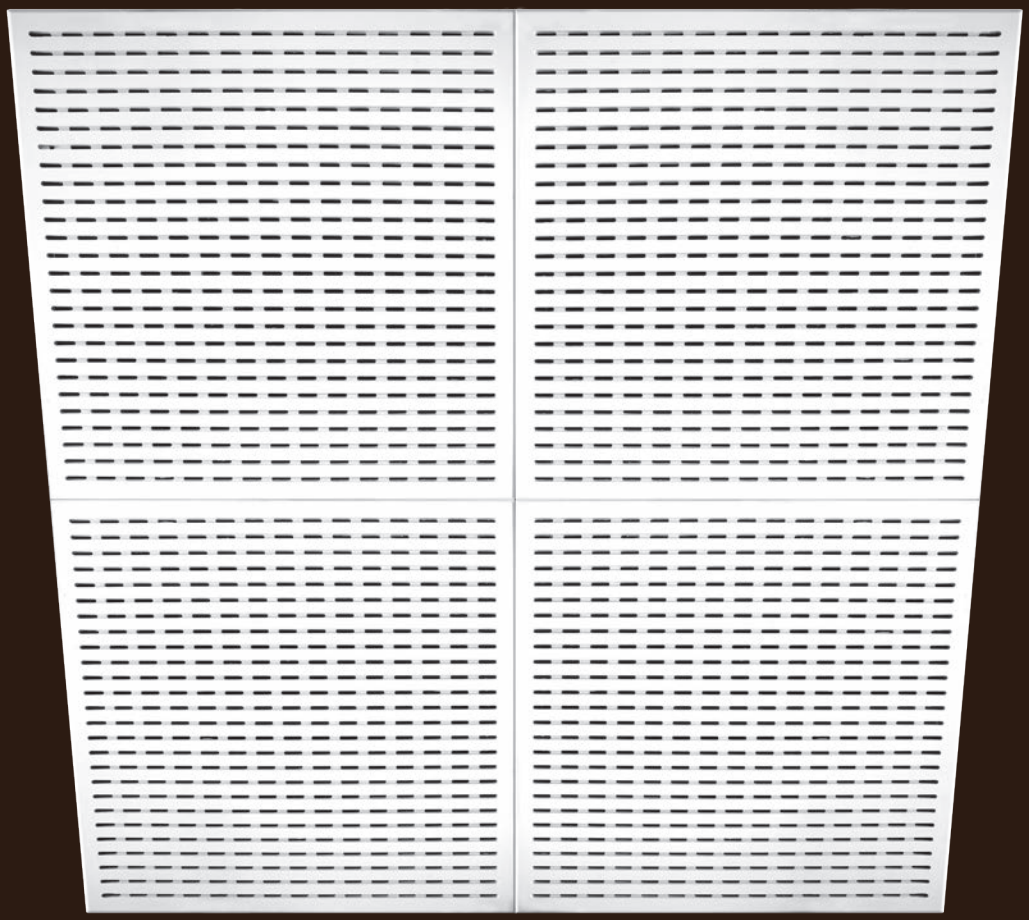
ACOUSTIC PERFORMANCE AND SPECIFICATION

	Open Area	Tile Thickness mm	Thickness of Insulation mm	Size mm	NRC	Mass Kg/m^2
Ceil Sound (1)	14.0%	13	2	1200 x 1200	0.60	9.20
Ceil Sound (2)	14.0%	13	50	1200 x 1200	0.85	9.20

All dimensions are in mm and are approximate



Justice



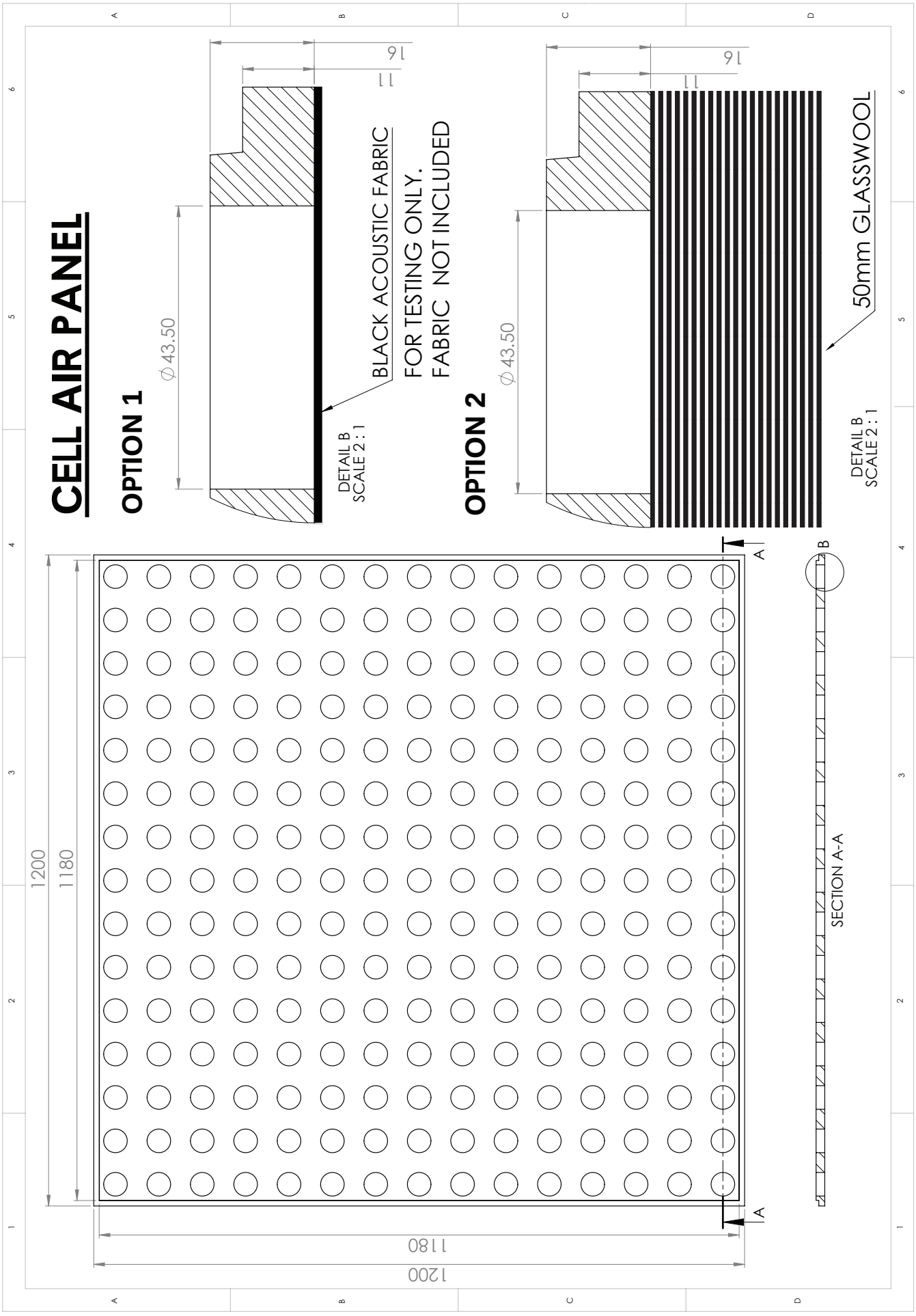
PROPERTIES

- One way 11mm slotted channels intersected at 50mm intervals with plain 25mm x 12mm perforations. Perimeter band 50mm wide.
- 13mm thick slotted plasterglass panel
- Insulated with black acoustic fabric attached to back for testing only, fabric not included (1) or 50mm 32Kg/m^2 Glasswool / Polyester (2)
- Mechanically fixed (screwed to Rondo Furring Channel Part No 155)

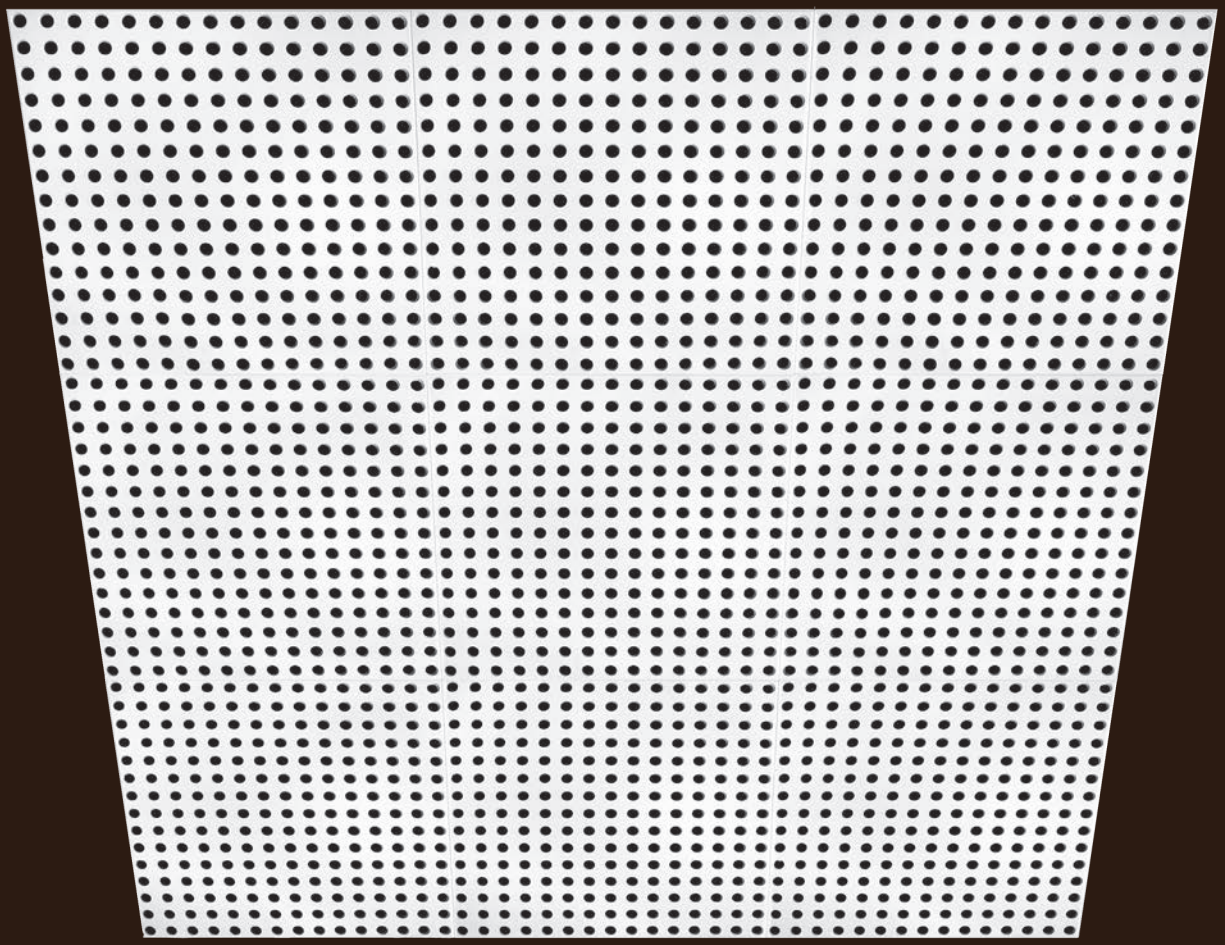
ACOUSTIC PERFORMANCE AND SPECIFICATION

	Open Area	Tile Thickness mm	Thickness of Insulation mm	Size mm	NRC	Mass Kg/m^2
Justice (1)	10.4%	13	2	1200 x 1200	0.55	10.76
Justice (2)	10.4%	13	50	1200 x 1200	0.75	10.76

All dimensions are in mm and are approximate



Cell Air



PROPERTIES

- Circular perforations 45mm at 85mm centres, forming a continous pattern when joined.
- 16mm thick perforated plasterglass flush set ceiling panel
- Insulated with black acoustic fabric attached to back for testing only, fabric not included (1) or 50mm 32Kg/m^2 Glasswool / Polyester (2)
- Mechanically fixed (screwed to Rondo Furring Channel Part No 155)

ACOUSTIC PERFORMANCE AND SPECIFICATION

	Open Area	Tile Thickness mm	Thickness of Insulation mm	Size mm	NRC	Mass Kg/m^2
Cell Air (1)	22.7%	16	2	1200 x 1200	0.60	12.20
Cell Air (2)	22.7%	16	50	1200 x 1200	0.85	12.20

All dimensions are in mm and are approximate

CELL AIR INSTALLATION

Stamford Hotel, Sydney

JUSTICE INSTALLATION

High Court of Australia, Canberra

All dimensions are in mm and are approximate

CASINO INSTALLATION

Star City Casino, Sydney

LIGHTWEIGHT PLASTER ACOUSTIC TILES – EXPOSED GRID CEILING SYSTEM

Tile Dimensions: 600mm x 600mm x 30mm Thick, Mass 12.20 Kg/m^2

	Open Area	Glasswool		Polyester		R Value	% Light Reflective	Suspension
		NRC	CAC dB	NRC	CAC dB			
EcoCheck	22.7%	0.80	35[1]/39[2]	0.70	35[1]/39[2]	0.80	0.80	Duo1/Duo x1200 Duo2/600
Nu Shadex	28.2%	0.80	32[1]/36[2]	0.70	35[1]/39[2]	0.80	0.78	
Shadex	15.3%	0.70	32[1]/36[2]	0.65	32[1]/36[2]	0.80	0.80	
Hush	21.4%	0.70	34[1]/38[2]	0.65	34[1]/38[2]	0.80	0.78	
Random Hole	16.6%	0.70	34[1]/38[2]	0.65	35[1]/39[2]	0.80	0.76	

PLASTER ACOUSTIC TILES – CONCEALED DIRECT FIXING

Tile Dimensions: 600mm x 600mm x 30mm Thick, Mass 12.50 Kg/m^2

	Open Area	Glasswool		Polyester		R Value	% Light Reflective	Suspension
		NRC	CAC dB	NRC	CAC dB			
EcoCheck	22.7%	0.70	42[1]/46[2]	0.70	43/47[2]	0.80	0.80	Furring Rondo 155
Random Hole	16.3%	0.70	38[1]/42[2]	0.65	39[1]/43[2]	0.80	0.80	

1 – CAC Tile only

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

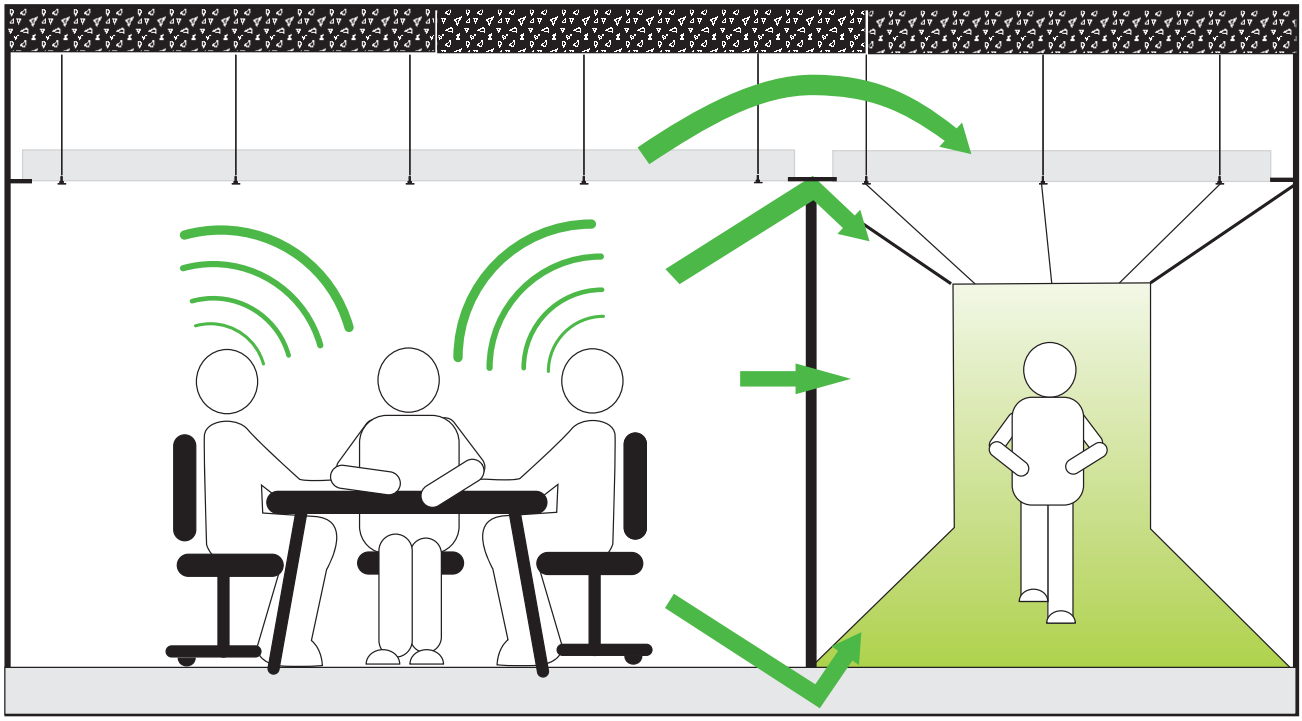
ABOUT CAC - Ceiling Attenuation Class

CAC is an important meaure of sound transfer between adjacent rooms and between rooms and 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.

CAC - Ceiling Attenuation Class



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 m^2k/w
- **Insulation:** FBS-1 Glasswool/Polyester Insulation, 32Kg/m^2, compressed to 20mm thick, with lightweight black acoustic fabric backing
- This product has a "non-dangerous goods" classification

- 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

PLASTER ACOUSTIC PLASTERGLASS PANELS – CRAFTSTONE COLLECTION

	Open Area	Size mm	Mass Kg/m²	Thickness	NRC	% Light Reflective	Suspension
Casino	35.2%	600 x 600	14.10	25mm	0.70	0.70	Duo1/DuoH x 1200 Duo2/600
Open Cell	26.2%	600 x 600	12.47	16mm	0.70	0.76	
Nu TR2000	14.3%	600 x 600	14.04	18mm	0.65	0.77	
Super Diamond	12.1%	600 x 600	12.80	16mm	0.65	0.78	
Open Slot	12.6%	600 x 600	14.40	18mm	0.60	0.74	
Moon	28.1%	600 x 600	11.50	16mm	0.65	0.74	

PLASTER ACOUSTIC CEILING TILES – NEW YORK COLLECTION

	Open Area	Size mm	Mass Kg/m²	Thickness	NRC¹	NRC²	Suspension
Ceil Sound Panel	14.0%	1200 x 1200	9.20	13mm	0.60	0.85	Rondo Furring Channel Part No 155 28mm thick Steel Stud (Walls) 64, 76, 92 wide
Justice Panel	10.4%	1200 x 1200	10.76	13mm	0.55	0.75	
Cell Air Panel	22.7%	1200 x 1200	12.20	16mm	0.60	0.85	

NRC¹ Insulated with light weight black acoustic fabric backing

NRC² Insulated with 32Kg/m^3, 50mm thick pre-painted black one side Glasswool
Results shown is a guide to acoustic performance. Products can be supplied with acoustic fabric or choice of insulation.

Thicker Insulation may be used to further increase absorption.

All tiles and panels are supplied without insulation or acoustic backing as standard.

Acoustic Test shown here are examples of what can be achieved for NRC using different insulation methods.

All thickenesses and weights are nominal

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.

Product Name: Polyester 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. **Polyester Insulation** has no special requirements for storage or transport.

All dimensions are in mm and are approximate

TESTING

Plaster Acoustic Products have been tested for **NRC** in accordance with ASTM-C423-90A at RMIT University Melbourne Australia with NATA accreditation and also CSIRO Melbourne, Australia.

Plaster Products tested for **Room to Room CAC** have been tested in accordance with ASTM E1414 / E 1414M - 11A at Acoustic Laboratories Australia Pty Ltd, Perth, Western Australia.

Plaster Products tested for **Steady - State Thermal Transmission** properties by means of the Heat Flow Apparatus have been product tested in Melbourne, Australia at AWTA Product Testing. (ASTM-C518) 2010

Plaster Products tested for **Heat + Smoke** release have been tested in accordance with AS/NZS 3837 - 1998 and ISO 5660.1- 2002 (Cone Colorimeter Method) at AWTA Product Testing Melbourne, Australia.

INSTALLATION:

LIGHT WEIGHT PLASTER ACOUSTIC CEILING TILES, 600 X 600, 30MM THICK RANGE, CRAFTSTONE PLASTER TILES AND NEW YORK RANGE PLASTER GLASS CEILING PANELS

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.

PLASTER ACOUSTIC CEILING TILE 600 X 600, 30 MM THICK RANGE GRID SYSTEM LAYOUT

(1) The Duo 1 main tee shall be hung on soft galvanize rod or 2.5mm wire, accurately levelled.

Suspension clips shall be spaced at 1200mm centres along the Duo 1 main tee.

(5) Duo 1 main tees to be spaced at 1200mm centres.

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

(3) Duo 2 x 600 cross tees are to be spaced at 600mm and shall intersect Duo 1200 cross tees at 600mm centres and be positively locked together.

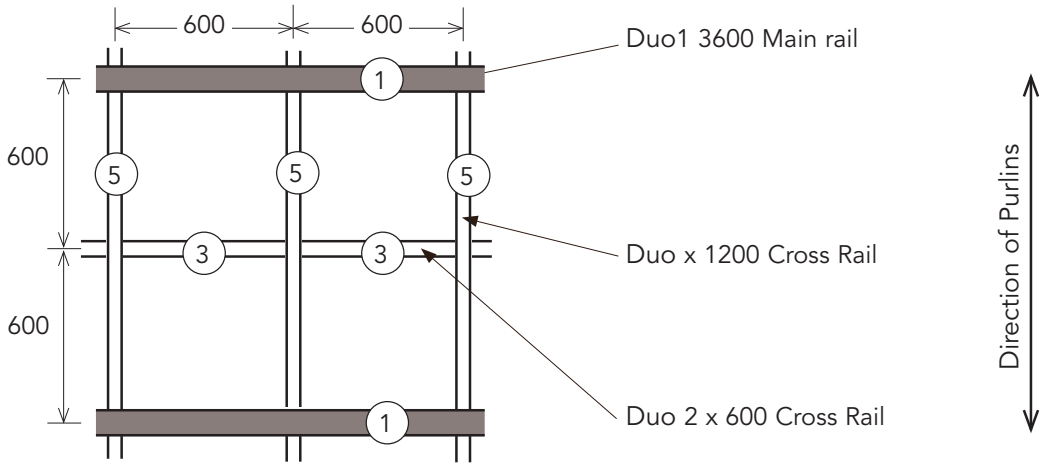
Wall angle shall be securely fixed to the wall at 600mm centres providing a true level edge.

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.

ACOUSTIC TILE RANGE 600 X 600 - GRID DESIGN LAYOUT



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.

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.

Trademark pending for Australian Plaster Acoustics and Quiet Sound.

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 tranported 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.

AUSTRALIAN PLASTER ACOUSTICS

BAILEY Interiors

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ABN 69 610 255 242

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