ultratone™

PERFORATED GIB® PLASTERBOARD ACOUSTIC PANELS

TECHNICAL DATA SHEET   BPIR - CLASS 1

Acoustic Ceiling and Wall Solutions

ultratone™

Perforated GIB® Plasterboard Acoustic Panels

Technical Data Sheet - BPIR Class 1

Asona Ultratone™ is a perforated GIB® plasterboard panel designed for acoustic ceilings and wall linings. Made in NZ, Ultratone™ is manufactured in a range of perforation patterns and open areas to meet acoustic and aesthetic requirements. Panels are screw fixed and flush stopped to level 4 and painted on site for a monolithic appearance. SlimSet 50™ and SlimSet 60™ Access Hatches available where maintenance for plenum services is required.

Application

Asona Ultratone™ is a durable perforated acoustic lining for control of unwanted noise reverberation in residential and commercial construction; open plan living and office spaces, meeting rooms, receptions, hallways, hotels, healthcare, retirement facilities, auditoria, libraries, halls, malls etc.

Composition

Panels are manufactured in NZ from GIB® plasterboard with acoustic tissue backing.

Features & Benefits

- Excellent acoustic performance to absorb and diffuse unwanted noise for greater comfort. NRC 0.55-0.80, CAC 30-44 with Asona Triton acoustic tile backer.
- Durable long lasting plasterboard finish that is easy to repaint without reduction in acoustic performance.
- Fire safe, Group 1-S rating.
- Made in NZ for short lead times and low carbon km's.
- Economical.
- Available in a wide range of perforations patterns
- 8, 12 or 15mm Ø perforations for a classic look.
- 12 x 12 mm square perforation.
- Alternating 12 and 20mm Ø perforations.
- Random 8, 15, and 20 mm Ø perforations.
- All panels come with clear borders for ease of installation and finishing with stronger crack resistant joins.
- Standard 1200 x 2400 mm sheets. Others up to 3.0m to order.
- Integrates with regular non-perforated 13mm GIB®.
- Global GreenTag Level A
- Standard 600 x 600 mm and 500 x 500mm SlimSet™ integrated access hatches.

Technical Specifications:

Practical Sound Absorption Coefficients:

ISO 354 E-200, Test reports T2227-1 to 24, W1L1 Cluster

ITEM	Open Area*	NRC	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz
8/18	15.4	0.65	0.45	0.80	0.80	0.55	0.45	0.40
12/25	18.4	0.65	0.45	0.75	0.80	0.55	0.45	0.40
15/30	20.0	0.60	0.40	0.75	0.75	0.50	0.40	0.40
12-20/66	19.2	0.60	0.45	0.75	0.80	0.50	0.40	0.35
8-15-20R	7.3	0.45	0.55	0.65	0.60	0.35	0.25	0.20
SQ12/30	16.4	0.60	0.45	0.75	0.75	0.50	0.40	0.40

Practical Sound Absorption Coefficients:

ISO 354 E-200, Test reports T2227-10 to 15, W1L1 Cluster with Triton 50 acoustic tile backer (or Triton Sonaboard 50)
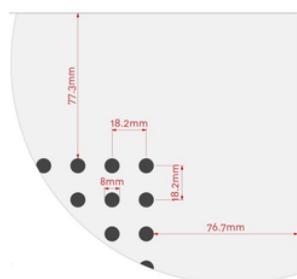
ITEM	Open Area*	NRC	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz
8/18	15.4	0.80	0.75	0.95	0.85	0.75	0.55	0.45
12/25	18.4	0.80	0.75	0.90	0.85	0.80	0.60	0.55
15/30	20.0	0.80	0.75	0.95	0.85	0.75	0.60	0.55
12-20/66	19.2	0.80	0.75	0.95	0.85	0.75	0.60	0.55
8-15-20R	7.3	0.50	0.70	0.70	0.55	0.40	0.30	0.25
SQ12/30	16.4	0.75	0.70	0.90	0.80	0.70	0.55	0.50

* Approximate value, excludes borders and non-perforated areas.

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## Technical Specifications
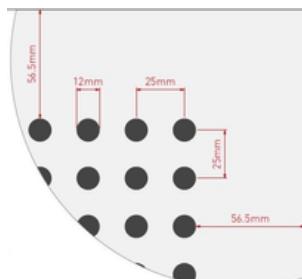
### Perforation Patterns

Item 8/18
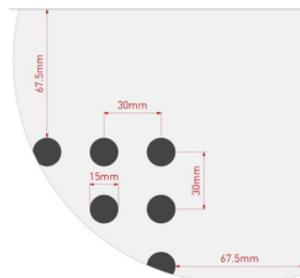


8mm Ø @ 18mm ctrs

Item 12/25
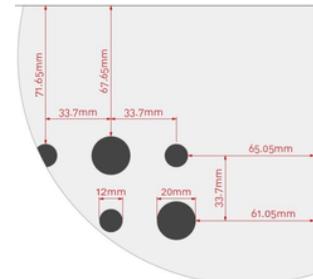
12mm Ø @ 25mm ctrs

Item 15/30
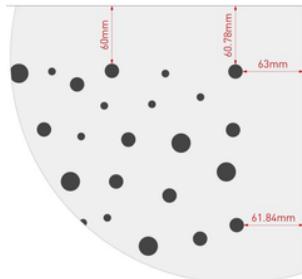

15mm Ø @ 30mm ctrs

Item 12-20/66
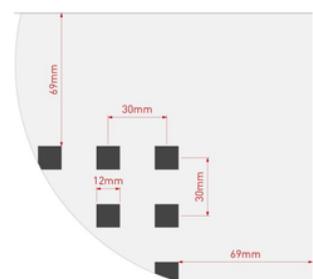
12+20mm Ø @ 66mm ctrs

Item 8-15-20R

8+15+20mm Ø Random

Item SQ12/30
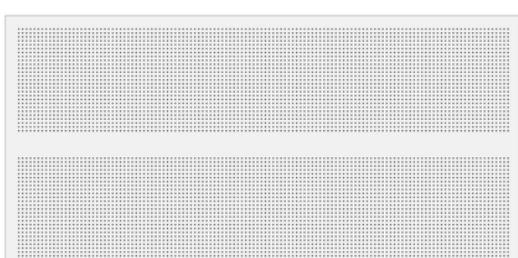
12mm SQ @ 30mm ctrs

Perforation Type and Cluster: (MOQ applies)

ITEM	W1L1	W2L1	W3L1	W1L2	W2L2	W2L4
8/18	✓	✓	✓	✓	✓	✓
12/25	✓	✓	✓	✓	✓	✓
15/30	✓	✓	✓	✓	✓	✓
12-20/66	✓					
8-15-20R	✓					
SQ12/30	✓	✓	✓	✓	✓	✓

### Perforation Clusters—1200 x 2400mm sheet
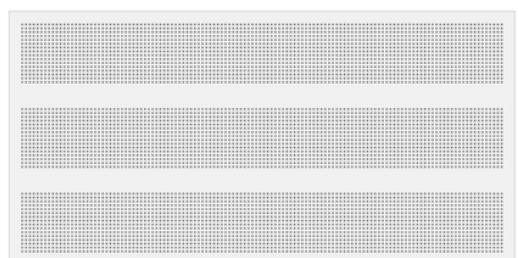
W1L1—width 1, length 1


W2L1—width 2, length 1
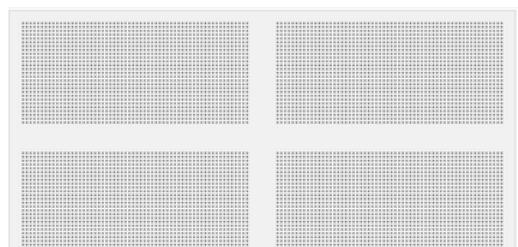
**W3L1**—width 3, length 1
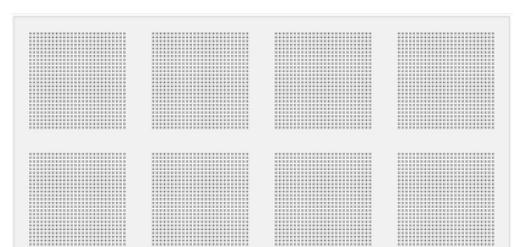
W1L2—width 1, length 2

W2L2—width 2, length 2

**W2L4 -**width 2, length 4

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Installation Options
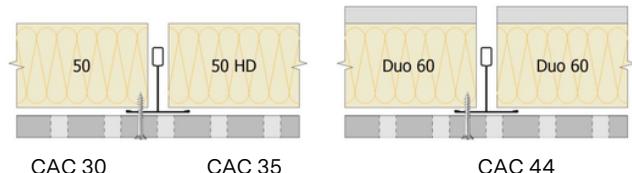
Ultratone™ panel to Rondo #155 furring channel/batten
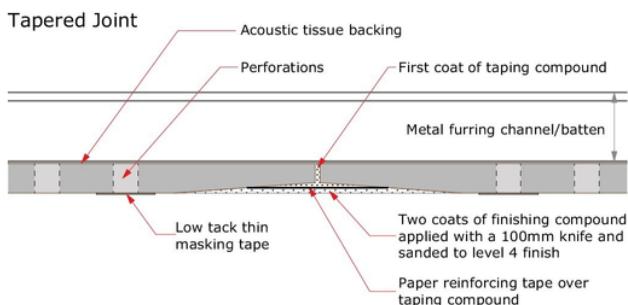
Ultratone panel

Ultratone™ panel to Rondo Xpress® Drywall Grid
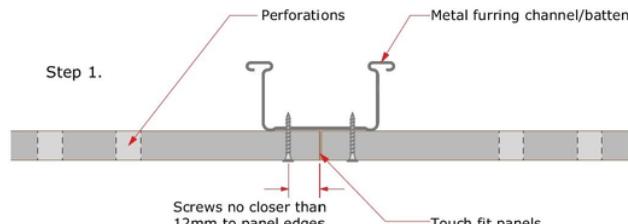
Ultratone™ panel to Rondo Xpress® with Triton acoustic tile backer for high CAC and NRC

| 50 | 50 HD | | Duo 60 | Duo 60 |
| CAC 30 | CAC 35 | | CAC 44 | |

Joint Finishing

Tapered Joint

- Acoustic tissue backing
- Perforations
- First coat of taping compound
- Metal furring channel/batten
- Low tack thin masking tape
- Two coats of finishing compound applied with a 100mm knife and sanded to level 4 finish
- Paper reinforcing tape over taping compound

Butt Joint

Step 1.
- Perforations
- Metal furring channel/batten
- Screws no closer than 12mm to panel edges
- Touch fit panels

Step 2.
- Paper tape
- First coat setting type compound 100mm wide. Scrape down join as compound sets to remove high spots

Step 3 and 4.
- Low tack thin masking tape
- Two coats of finishing compound feathered to edge of masking tape/ perforations and sanded to level 4 finish

Perimeter Options

Square Stopped
- Asona Ultratone
- Wall lining
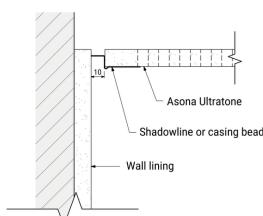
Non-Perforated Border
- Asona Ultratone
- Plaster holes flush to specified border dimension
- Wall lining

Scotia Type 1
- Asona Ultratone
- Wall lining

Scotia Type 2
- Asona Ultratone
- Wall lining

Negative Detail 1
- Asona Ultratone
- Shadowline or casing bead
- Wall lining
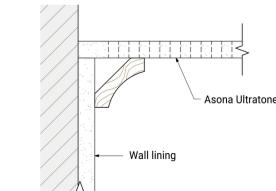
Negative Detail 2
- Asona Ultratone
- Timber batten to create 10mm gap
- Wall lining
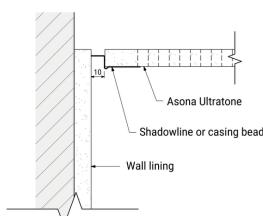
Technical Specifications

Acoustics:
Use Rondo Xpress® Drywall Grid Suspension system with Asona Triton lay-in acoustic tiles to provide high NRC and CAC performance. Contact Asona for details.

Standard Size:
13 x 1200 x 2400 mm panels. Other lengths to order
2700mm available as W1L1, W2L1, W3L1 perforation clusters
3000mm available as W1L1, W2L1, W3L1, W2L5 perforation clusters

Colour:
Plain paper face, requires painting on site.

Limitation:
- Not for use in external applications, wet areas, in contact with moisture or in extreme humidity or temperature conditions.
- Not for use with negative air return plenums.
- Maximum humidity/temperature 90% R/H at 30°C.
- Back loading max. Uniform weight of un-supported insulation shall not exceed 2kg/m², point loads e.g. lighting, grills, speakers etc, 1.5kg per piece. Greater loads shall be independently supported.
- Do not spray paint as this will reduce acoustic performance.

Maintenance:
Clean with vacuum, soft brush or damp cloth once painted.

NZ Building Act
This product is not subject to a warning or ban under Section 26.

NZ Building Code Compliance:
- B2 Durability – Clause B2.3.1 (b) (i): Asona Ultratone with only normal maintenance will have a minimum durability of at least 15 years when installed in accordance with; manufacturer's installation requirements and AS/NZS 2785:2020.
- C3 Fire – Clause C/AS2 4.12.1: Asona Ultratone has a Fire Material Group Number 1-S by NZBC Building Product Specification Parts 8.5.4 or 8.5.5, tested in accordance with ISO 9705 or ISO 5660.
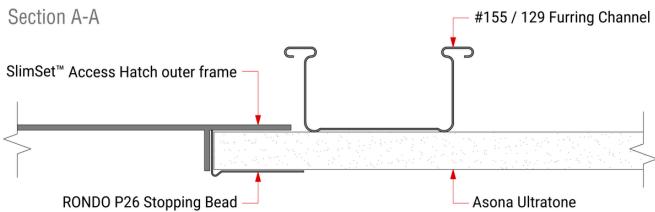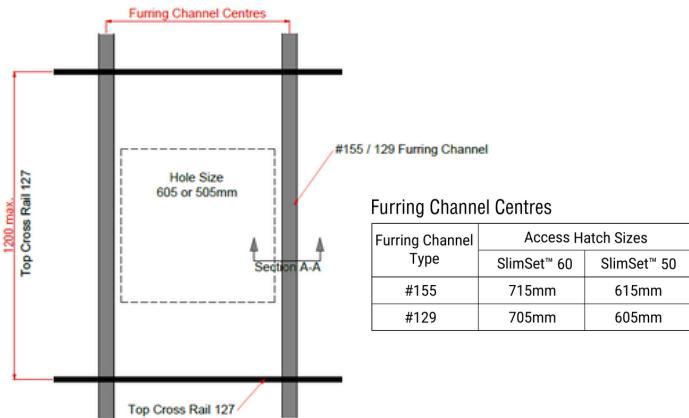
Warranty:
10 year limited warranty against manufacturing defects.
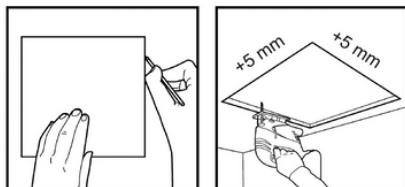
Weight: (nominal)
Perforated board - 7.6-8.2 kg/m²   Non-perforated board - 9.0 kg/m²

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SlimSet™ Access Hatch Installation
Rondo Key-Lock® suspension layout
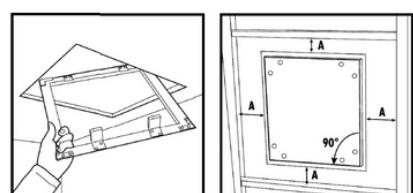
Furring Channel Centres

Furring Channel Type	Access Hatch Sizes	
	SlimSet™ 60	SlimSet™ 50
#155	715mm	615mm
#129	705mm	605mm

Section A-A

SlimSet™ Access Hatch outer frame
#155 / 129 Furring Channel
RONDO P26 Stopping Bead
Asona Ultratone

Rondo Xpress® suspension layout

RONDO Xpress® Cross Tee Centres

Access Hatch Sizes	
SlimSet™ 60	SlimSet™ 50
700mm	600mm

RONDO Xpress XD2 Cross Tee
Optional extra XD2 x 600mm Cross Tee for 500x500 Hatch
RONDO Xpress Main Tee

Section A-A

SlimSet™ Access Hatch outer frame
RONDO Xpress XD2 Cross Tee
RONDO P26 Stopping Bead
Asona Ultratone

Hatch cut-out and installation

Locate position of hatch between suspension framing. Cut hole 5mm larger than hatch size, ie 605mm or 505mm. For a tidy edge use a Rondo P26 stopping bead (or similar).
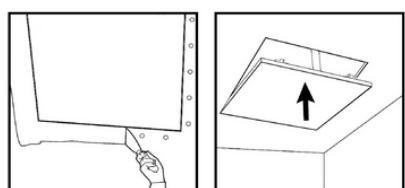
Ensure the back of the Ultratone is debris free. Remove the lid from the hatch and feed the outer frame diagonally through the opening, ensuring the hatch is orientated in the right direction for the lid to open.
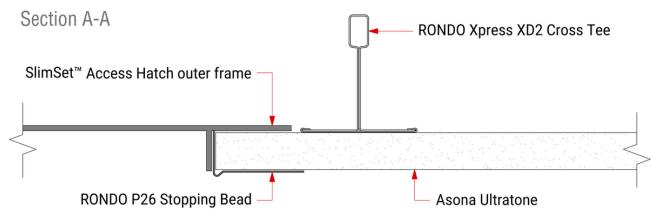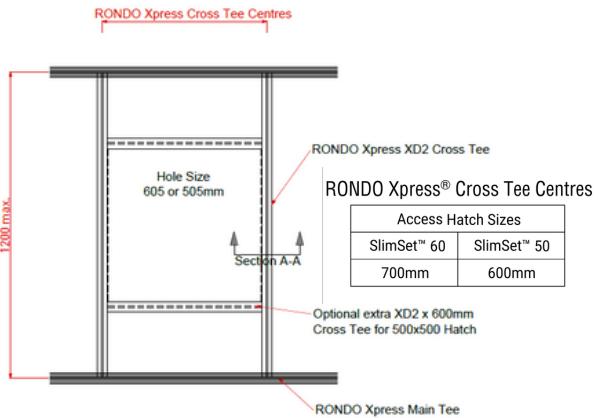
Temporarily clamp the frame and screw fix through the Ultratone to the external flange on all four sides, Screws max at 150mm centres. Remove the clamps.

Plaster around the exterior of the frame. If suitable, use the hole cut-out piece for the lid. Attach and plaster if required. Reinstall the lid into the outer frame.

Installation:
Shall not commence until the building is water tight and dry. Install Rondo #127 TCR (top cross rail) at 1200mm centres, rigid hangers at 1200mm centres, Rondo #155 48mm furring channel at 600mm centres with Rondo #159 Joiner Clip. Alternative suspension is Rondo Xpress Drywall Grid, main tees at 1200mm centres, hangers at 1200mm centres, cross tees at 600mm centres with optional Triton acoustic tile backer. Screw fix panels with 25mm bugle head gypsum screws at 200mm c/c along edges and 300mm c/c elsewhere, support short end with furring/cross tee to secure the join. A low tack, thin washi masking tape can be used to mask perforations during stopping to minimise filling of the perforations. Fill joins with a 3 coat system and paper reinforcing tape. Take care not to fill perforations, and remove immediately any compound from holes. Expansion joints at 12m maximum. Paint with fine nap roller. Refer full Installation Manual.
Do not spray paint.

Specification:
Ceiling/wall lining shall be Asona Ultratone™ perforated GIB® plasterboard acoustical panel as manufactured by Asona Ltd, Tel: 09 525 6575, info@asona.co.nz. Size 13 x 1200 x 2400mm, Item (8/18) (12/25)(15/30)(12-20/66) (8-15-20 random), (SQ12/30),Perforation Cluster (W_L_), perforated and laminated with acoustic tissue backing, panels shall be screw fixed with 25mm bugle head gypsum screws at 200mm c/c along edges and 300mm c/c elsewhere to (Rondo Key-Lock #155 furring) (Rondo Xpress) at max. 600 mm c/c. Install Triton (50) (50HD)(Duo 60)(Sonaboard 50) acoustic tile backer into Rondo Xpress suspension. Short ends supported, expansion joins at max 12m centres. Install SlimSet™ (60)(50) Access Hatch. Plaster joins to 'Level 4' and paint with fine nap roller.
(Asona ceiling Masterspec 5113AP specification available).

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