

ultratone™



Perforated GIB® Plasterboard Acoustic Lining Installation Manual



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Perforated Plasterboard Acoustic Lining

Technical Installation Manual

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.

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Asona Ltd. Office & Factory New Zealand Australia
6 Mahunga Drive, Māngere T: +64(0)9 525 6575 T: 1 800 240361
Bridge, Auckland 2022 E: info@asona.co.nz E: info@asona.com.au
New Zealand W: www.asona.co.nz W: www.asona.com.au
NZBN: 9429036035175

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1.0 General Information

Description

Asona Ultratone™ is a perforated GIB® plasterboard panel lining for acoustic ceilings and walls. 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.

Asona Ultratone™ is a durable 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.

Application

Asona Ultratone™ panels are designed for ceiling lining or high wall application (ie above 2.0m).

Installation options include:

- suspended steel systems (Rondo KEY-LOCK® or Rondo Xpress® Drywall Grid)
- direct fixed Rondo steel battens on steel brackets
- direct fixed Rondo steel battens
- kiln dried timber battens

NOTE: Steel systems are the preferred method to provide a more stable structure to minimise any joint cracking.

Composition

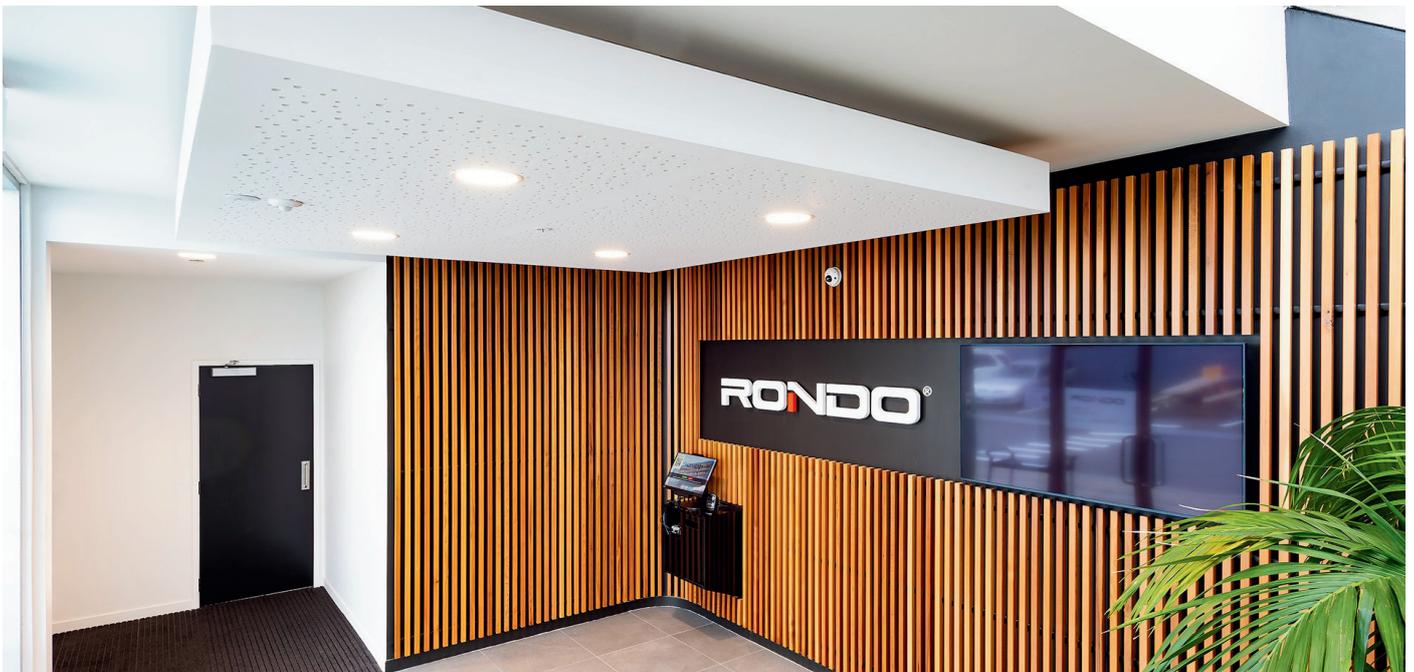
Ultratone™ panels are manufactured in NZ from GIB® plasterboard with acoustic tissue backing and non-perforated borders.

General

The installation details and information contained within this Asona Ultratone™ Technical Installation Manual provides an extensive range of construction methods that can be adapted to suit individual projects.

Disclaimer

“Asona Ultratone™ Panels and components as described must be used and installed in accordance with the installation instructions detailed within this guide. Use of any other installation methods, materials or components may result in component failure and void the warranty of the product and system”



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W: www.asona.co.nz

Australia
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2.0 Technical Installation Specification

Back Loading:

Uniform distributed load of fixtures, fittings and insulation is not to exceed 2kg/m². Lighting, A/C grills, speakers etc, shall not exceed 1.5kg. Greater weights and any point loads shall be independently supported.

Installed Conditions:

Max 90% R/H at 30°C.

NZ Building Code:

Clause B2—durability, 15 years.

Maintenance:

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

Weight: (nominal)

Non perforated board - 8.5 kg/m²,

10% open area - 7.8-8 kg/m²,

20% open area - 6.9-7.2 kg/m²

Handling & Storage

- Asona Ultratone™ panels should be handled as a “finishing” material.
- Do not drag panels when lifting from pallet.
- Handle with care, on edge, not flat, avoid bending and edge damage.
- Store Ultratone™ panels on a flat dry surface clear of the floor with adequate support to prevent bending, and protect edges.
- Keep dry, clean, and free from dust and debris, and protected from weather.
- When storing onsite protect the panels from possible damage by other trades.

Limitations of Use

- The Ultratone™ panel is not designed for use in external applications.
- Not for use with negative air return plenums, in direct contact with moisture, in extreme humidity conditions, or temperatures in excess of 52° C for prolonged periods.
- Where Ultratone™ panels are to be attached to ceiling or wall battens, they are not to be used as a structural bracing element. (ceiling diaphragm)
- Panels are not to be used by sub-trades to support other services or equipment .
- To maintain acoustic performance do not spray paint.
- Damaged or cracked product is not to be installed.
- Ultratone™ is not to be used or substituted in Fire Rated ceiling or wall systems.

Installation

- The installation of Asona Ultratone™ panels can be carried out by tradespersons or suspended ceiling installers who are competent in installing plasterboard panels.
- Shall not commence until the building is water tight and dry.
- Fully support panels when positioning and fixing to framing. The use of mechanical lifting machines is recommended for ceilings.
-

Seismic Bracing

- If the panels are attached to a suspended ceiling, then the weight of the panels shall be included in the ceiling seismic design calculations. Install bracing as required by the seismic design. For preliminary advice, please contact Asona Ltd.

Do's

- Use the specified components as detailed in this manual.
- Ensure panels are aligned correctly to match perforation pattern clusters.
- Install control joints at maximum spacing of 12m and at junctions.

Don'ts

- Do not install Asona Ultratone™ panels until the building is water-tight.
- Adhesives are not to be used to attach Ultratone™ perforated panels.
- Do not spray paint.

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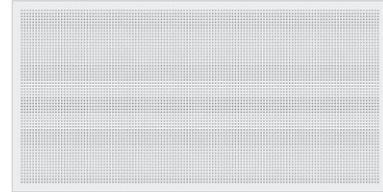
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3.0 Components & Ancillary Products

Ultratone™ Panel

1200 x 2400 x 12mm (W1L1 perforation cluster shown)



Rondo KEY-LOCK® Furring Channel #155 – 48mm



Rondo KEY-LOCK® Top Cross Rail (TCR) #127



Rondo KEY-LOCK® Joiner Clip #159

#155 Furring Channel to TCR



Rondo KEY-LOCK® Wall Track #140

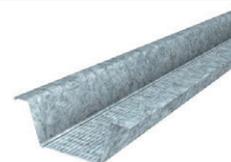


Rondo KEY-LOCK® Direct Fix Clip #156

For #155 Furring Channel



Rondo ScrewFix® Furring Channel #F37

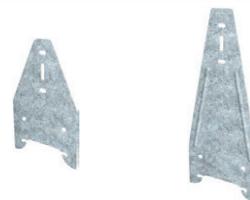


Rondo ScrewFix® Direct Fix Clips

#FDFS—(short)

#FDFL—(long)

For #F37 Furring Channel



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Australia

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3.0 Components & Ancillary Products, cont.

Rondo Wall Trim

#553—35mm x 35mm
#XD5—40mm x 40mm



Rondo Xpress® Drywall Grid

#XD1/XD1H—Main Tee, 3600mm



Rondo Xpress® Drywall Grid

#XD2—Cross Tee, 1200mm & 600mm



Rondo Xpress® Drywall Grid

#XD6—Wall Trim Channel, 3600mm x 40 x 38 x 19mm



Rondo Xpress® Drywall Grid

#DXCL—Suspension Clip



Suspension

HW-Ø2.5 Hanger Wire, 3600mm

#DXDF-Direct Fix Strap



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4.0 Installation

4.1 Standard Method— Suspended Ceilings

The preferred installation method is to mount Ultratone™ panels onto steel framing. Recommended systems are Rondo KEY-LOCK®, Rondo Xpress® Drywall Grid, Rondo ScrewFix®. These are typically suspended but there are direct-fix options. See 4.2 Installation shall not commence until the building is watertight and dry.

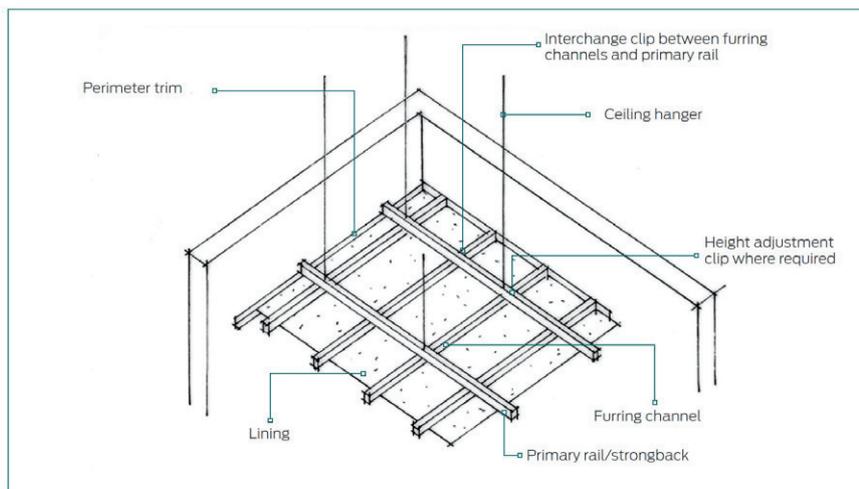
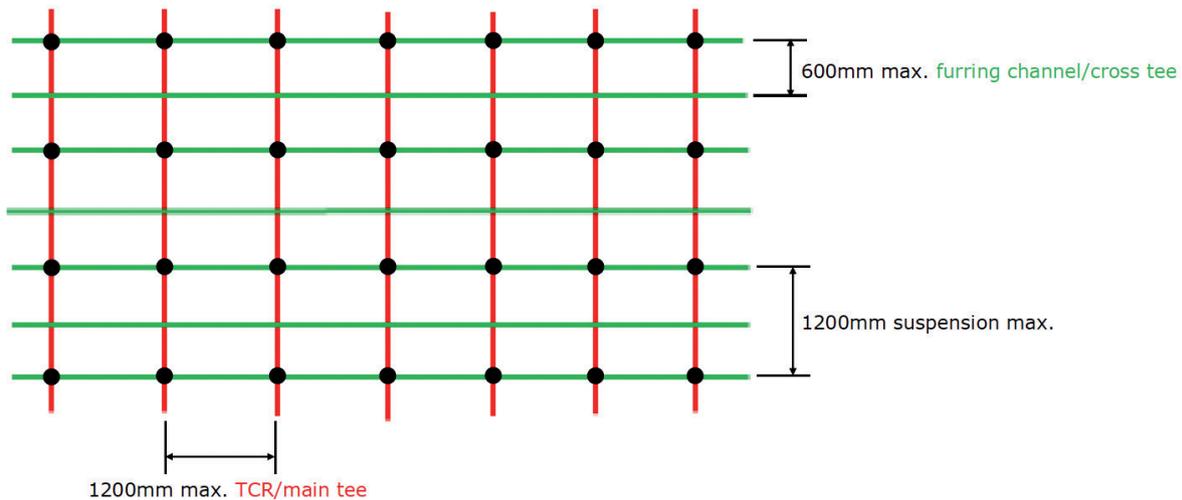
Installation Overview:

Set out panel panels carefully, as layout and panel fastening centres will dictate framing positioning.

- TCR/Main Tee framing shall be 1200mm centres maximum
- Suspension 1200mm maximum
- Furring channel/battens/cross tees at 600mm maximum.

Additional products attached to the ceiling may require reducing the framing centres to take the additional weight. Refer to Rondo's Design manuals for appropriate spacings.

Framing and Suspension maximum centres:



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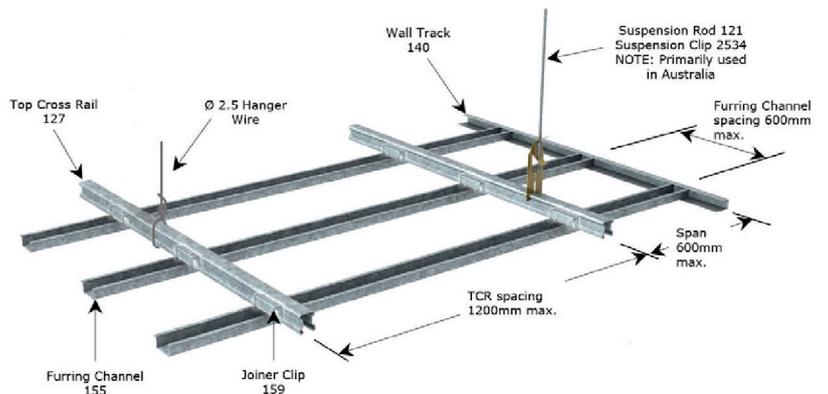
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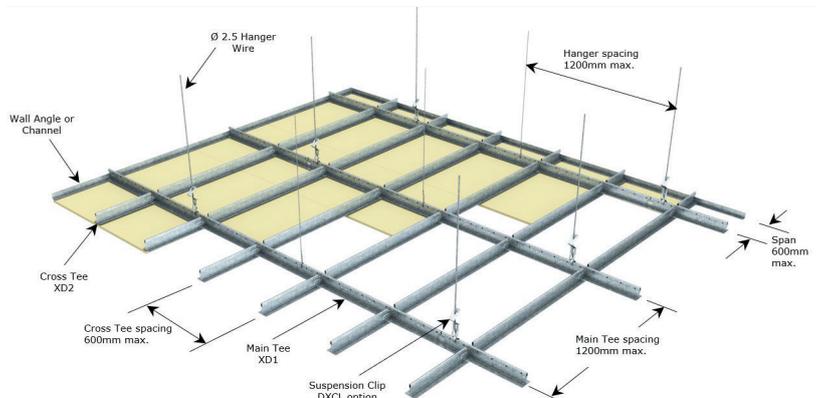
Installation Overview:

Suspended ceiling framing options

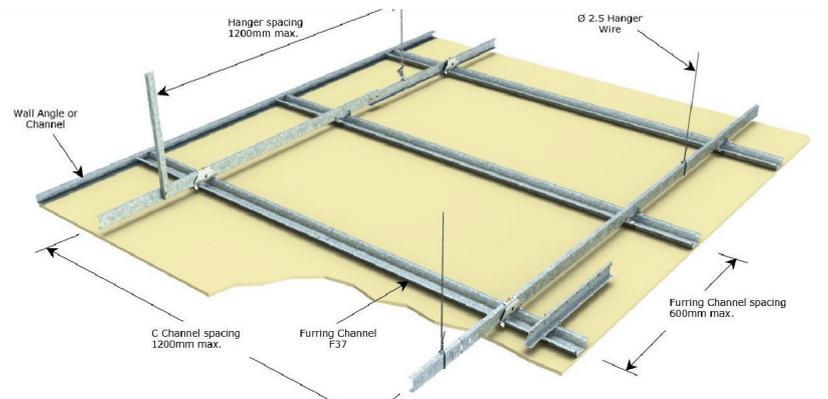
Rondo KEY-LOCK®



Rondo Xpress®



Rondo ScrewFix®



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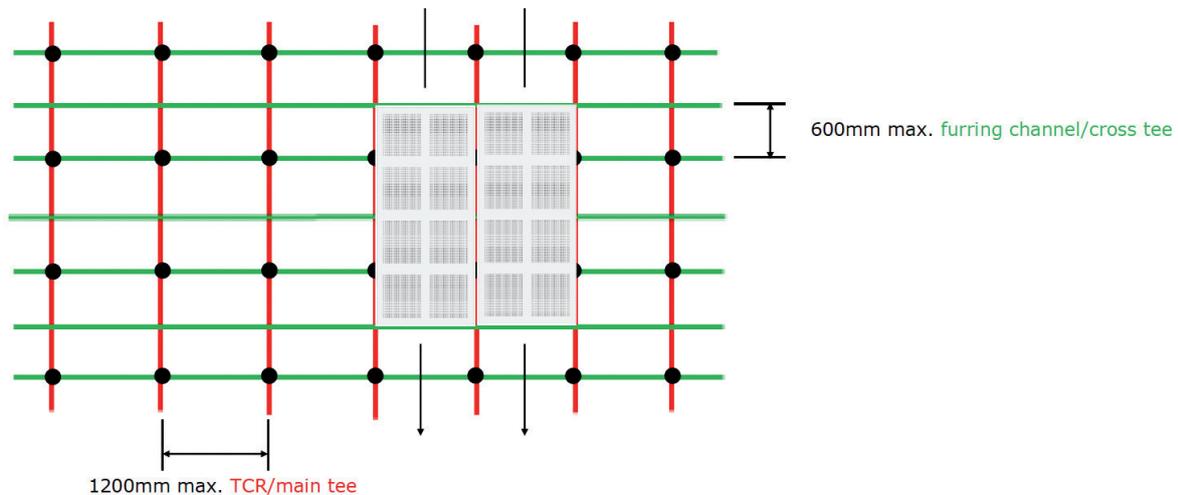
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4.1 Standard Method— Suspended Ceilings

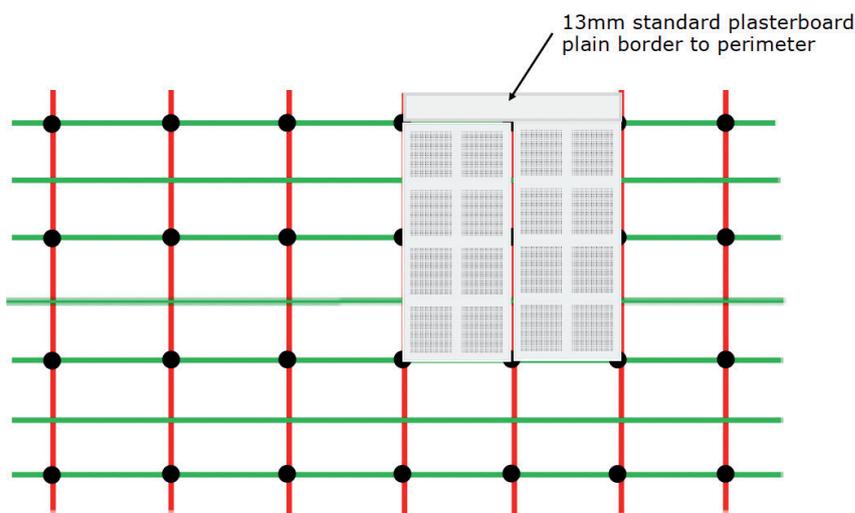
Ceiling Layout

- Divide the ceiling panel layout from the centre of the room to ensure a uniform border and pattern, or as detailed on the architectural RCP.
- Panels are installed perpendicular to furring channel or cross tees.
- Position short ends to finish on furring channel or cross tees.
- Ensure perforations of adjacent panels align.



Alternative Ceiling Layout with Plain Border

- Position the ceiling panel layout from the centre of the room to the last full panel. (The balance to the wall can use standard 13mm non-perforated panels to provide a seamless border)
- Panels are installed perpendicular to furring channel or cross tees.
- Position short ends to finish on furring channel or cross tees.



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4.2 Standard Method— Direct Fixed Ceilings

Installation shall not commence until the building is watertight and dry.

Installation Overview:

Where the installation of Ultratone™ panels is to be direct fixed to the building structure (floors/joist/purlins) is required, set out the steel furring channel/battens to suit the panel layout, 600mm centres maximum.

If attaching to timber joists of a trafficable floor, it is recommended to use direct fix brackets to assist isolation from potential floor deflection, which can result in cracking joints.

Direct fix brackets shall be used at 1200mm centres maximum.

Rondo Furring Channel/Batten

Rondo KEY-LOCK®

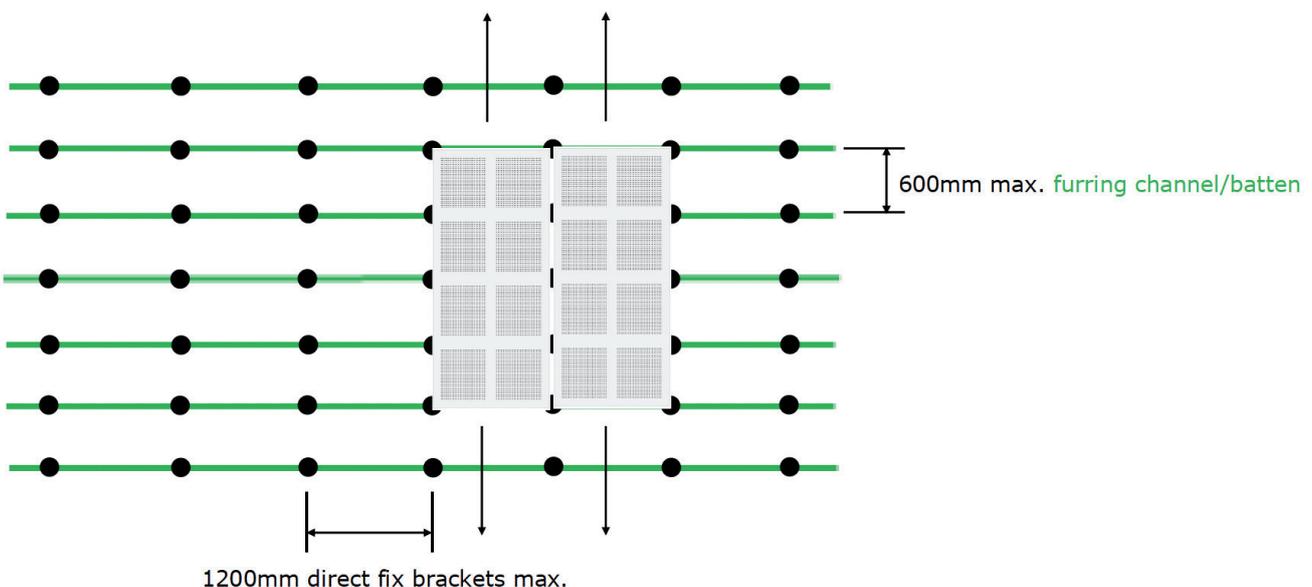
- #155 Furring Channel/Batten
- #156 Direct Fix Bracket

Rondo ScrewFix®

- #F37 Furring Channel/Batten
- #FDFS Direct Fix Bracket (short)
- #FDFL Direct Fix Bracket (long)

Ceiling Layout

- Divide the ceiling panel layout from the centre of the room to ensure a uniform border and pattern, or as detailed on the architectural RCP.
- Panels are installed perpendicular to furring channel/battens.
- Position short ends to finish on furring channel/batten.
- Ensure perforations of adjacent panels align.



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W: www.asona.co.nz

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4.3 Panel Attachment and Fixing Centres

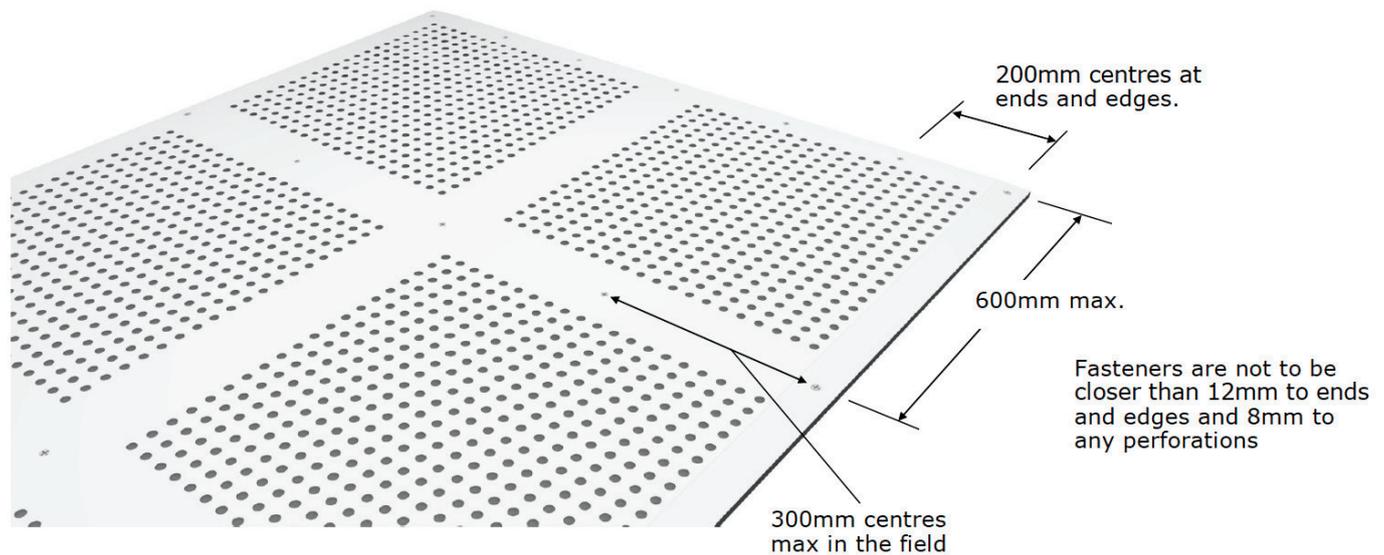
Installation shall not commence until the building is watertight and dry.

Panel Attachment

- Fully support Ultratone™ panels when positioning and fixing to framing. The use of mechanical lifting machines is recommended for ceilings.
- Fix off to the installed steel framing using 6g x 25mm minimum bugle head drywall screws.
- Install control joints at 12m maximum spacing and at junctions of hallways and large rooms.

Fixing Centres:

- Use screws at a maximum of 200mm centres at panel ends and edge joints and 300mm in the field. Do not use adhesives.
- Screws are not to be closer than 12mm from sheet ends or edges.
- Where possible, ensure that the furring channels or tees line up with the clear spaces between perforations. If they cannot be aligned with clear spaces, ensure fasteners are placed centrally between and no closer than 8mm to the edge of perforations.



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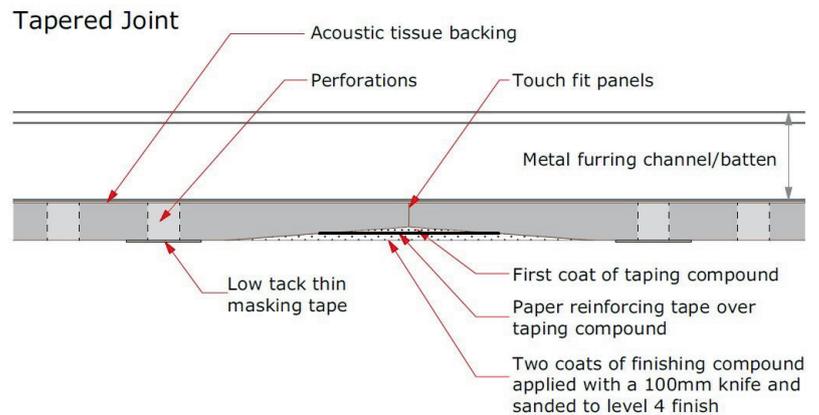
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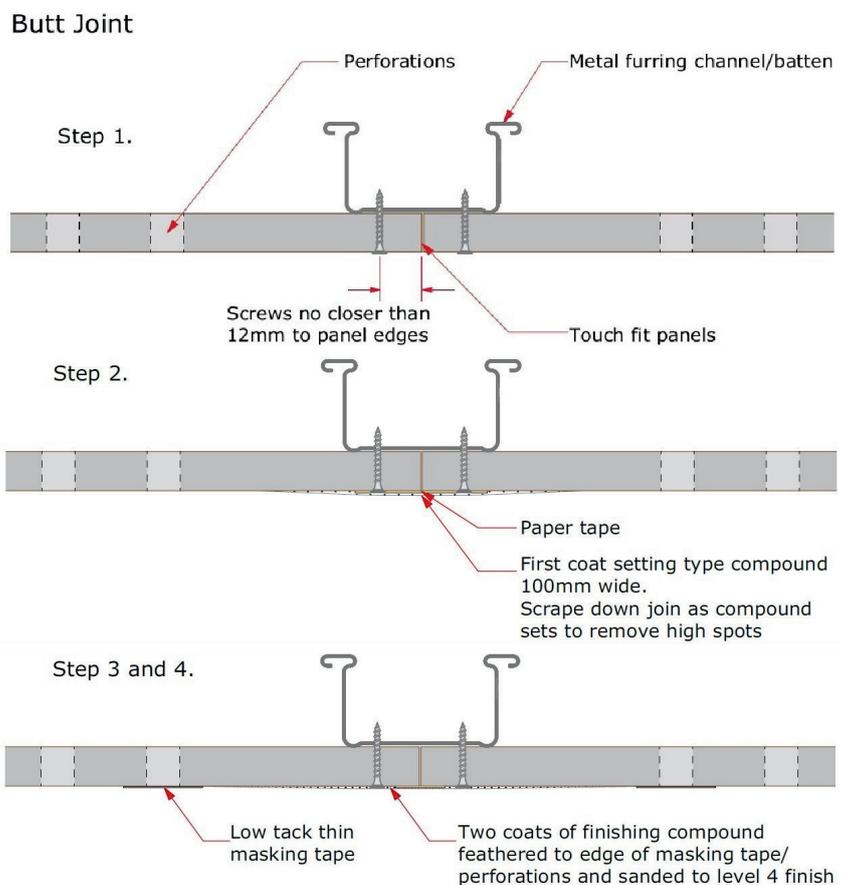
5.0 Joint Finishing

A low tack, thin masking tape can be used to mask perforations during stopping to minimise accidental filling of the perforations. This is easiest achieved while the panel is on the floor prior to installation. Fill joints with a 3 coat system and paper reinforcing tape, taking care not to fill perforations, and remove immediately any compound from holes. Leave a gap between the base compound and edge of perforations to ensure the final coat of air dry compound can be sanded to a feathered edge. Sand any ridges after the joints have dried. Remove masking tape once joints have been finished taking care not to tear the plasterboard paper around holes.

Tapered Joints



Butt Joints



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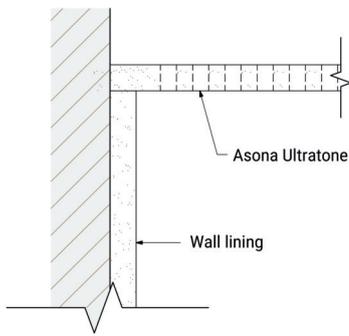
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6.0 Perimeter Finishing

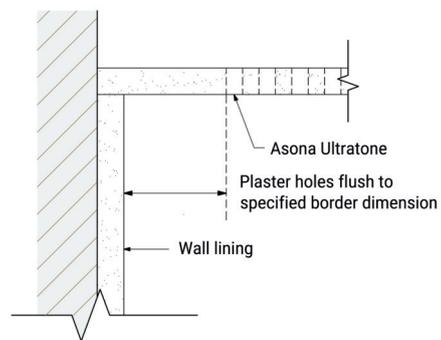
Ultratone panels require finishing where meeting walls. Below are some design options which are commonly used with standard plasterboard ceilings.

Perimeter Options

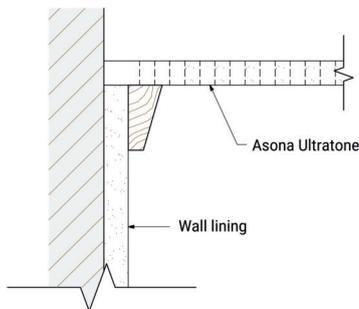
Square Stopped



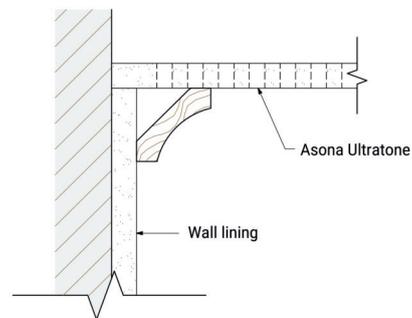
Non-Perforated Border



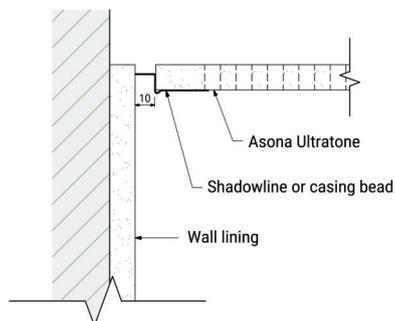
Scotia Type 1



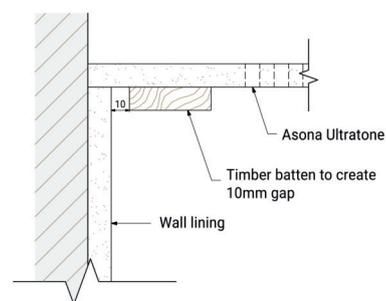
Scotia Type 2



Negative Detail 1



Negative Detail 2



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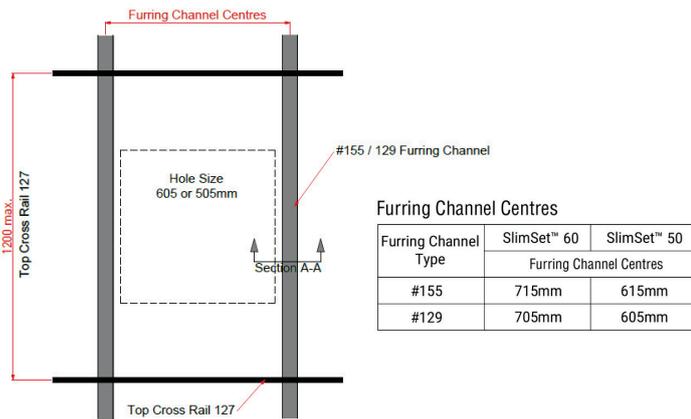
7.0 Installation - SlimSet Access Hatches

SlimSet™ Access Hatches are designed to be fitted into 13mm Asona Ultratone™ perforated GIB® plasterboard ceiling panel lining products. Easily removable hatch allows clear access to plenum services above the ceiling. Two standard sizes are available, SlimSet 50™ and SlimSet 60™, to suit either perforated or plain ceiling types.

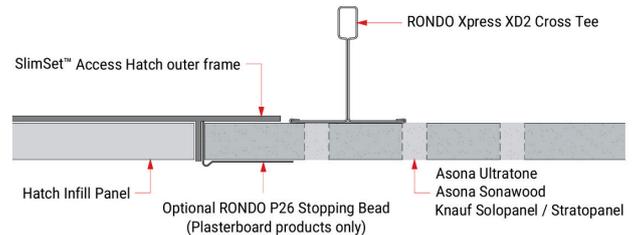
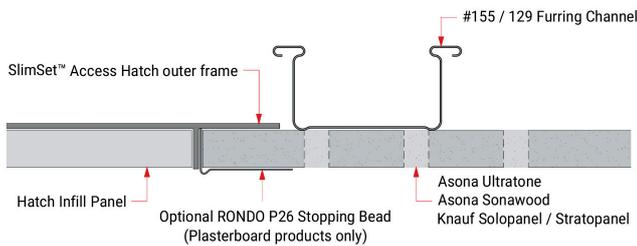
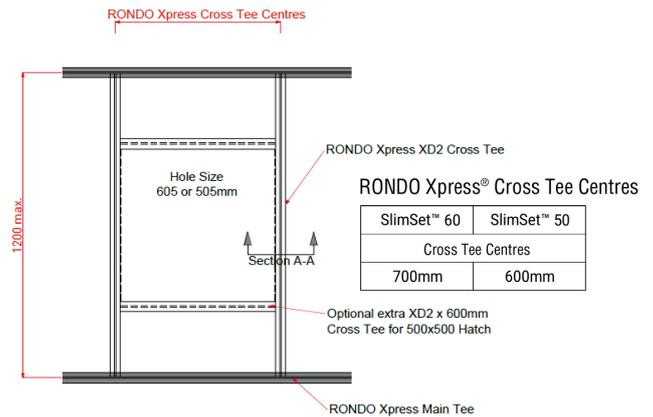
Installation Overview:

Shall not commence until the building is watertight and dry. This product is designed to be mounted into Rondo steel suspended framing systems, Key-Lock® or Xpress® and installed to manufacturer's requirements by a suitably qualified tradesperson. The hatches are supplied with a non-perforated plasterboard infill panel as standard. Perforated plasterboard is not supplied as a finished item by Asona. These can be carefully site cut from the main large panel so the piece can be trimmed and re-installed into the SlimSet™ hatch framing.

Rondo Key-Lock® suspension layout



Rondo Xpress® suspension layout



ISO 9001:2015 Registered Firm No. NZ1014

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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Ultratone IM-26.02

Asona Ltd. Office & Factory
6 Mahunga Drive, Māngere
Bridge, Auckland 2022
New Zealand
NZBN: 9429036035175

New Zealand

T: +64(0)9 525 6575

E: info@asona.co.nz

W: www.asona.co.nz

Australia

T: 1 800 240361

E: info@asona.com.au

W: www.asona.com.au

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Perforated Plasterboard Acoustic Lining

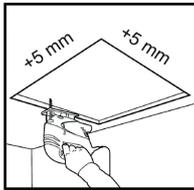
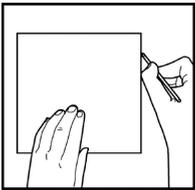
7.0 Installation - SlimSet Access Hatches

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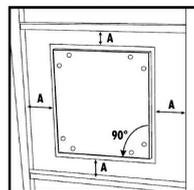
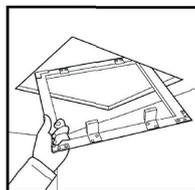
Installation :

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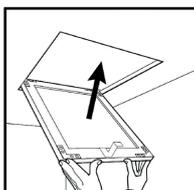
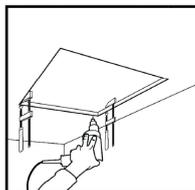
Hatch cut-out and installation



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).



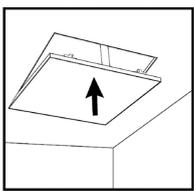
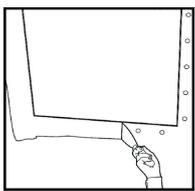
Ensure the back of the Stratopanel is debris free. Remove the lid from the hatch and feed the outer frame diagonally through the opening, ensuring the hatch is orientated in the right direction for the lid to open.



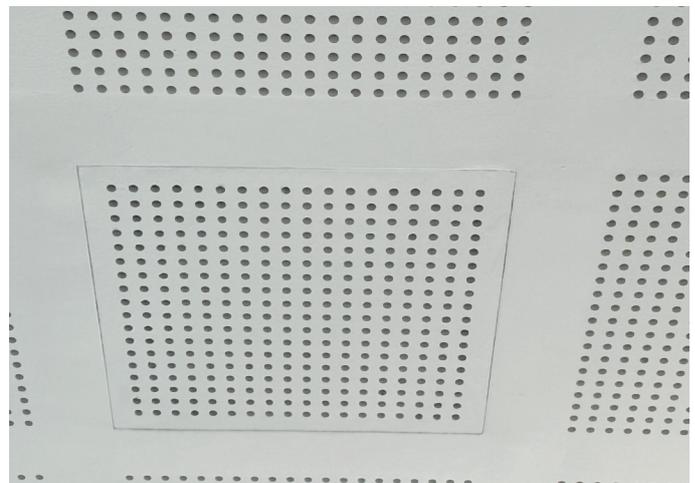
Temporarily clamp the frame and screw fix through the lining material to the external flange on all four sides, Screws max at 150mm centres. Remove the clamps.

— max. 150 mm —

Check clearances



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



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New Zealand

T: +64(0)9 525 6575

E: info@asona.co.nz

W: www.asona.co.nz

Australia

T: 1 800 240361

E: info@asona.com.au

W: www.asona.com.au

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Perforated Plasterboard Acoustic Lining

8.0 Painting | 9.0 Tools

8.0 Painting Ultratone™ Panels

- Make sure the compound is completely dry and the surface smooth and free from dust.
- Apply paint system with a fine nap roller and ensure that perforation holes are not filled and the backing fabric is not clogged.
- Make sure the paint is not too thick and avoid applying too much paint at a time.
- Apply paint system to manufacturers instructions to ensure the best quality finish.

Note: Paint must not be spray applied as this will reduce acoustics.



9.0 Tools

Box Cutter, Knife, Utility Knife.



Tape Measure



Tee Square



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E: info@asona.co.nz
W: www.asona.co.nz

Australia
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E: info@asona.com.au
W: www.asona.com.au

asona