

knauf danoline stratopanel™

PERFORATED PLASTERBOARD ACOUSTIC CEILING & WALL LINING



TECHNICAL DATA SHEET BPIR - CLASS 1



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Perforated Plasterboard Acoustic Ceiling & Wall Lining

Technical Data Sheet - BPIR Class 1

Stratopanel™ 8/15/20 is a random perforated plasterboard lining designed to create a monolithic, seamless, acoustic ceiling without unsightly borders or obvious pattern repeat. Stratopanel™ incorporates Cleaneo™ air purification technology for control of VOC's. SlimSet 50™ and SlimSet 60™ Access Hatches available where maintenance for plenum services is required.

Application

Stratopanel™ is an ideal perforated lining to control noise reverberation in office, meeting rooms, libraries, hotels, malls, hospitals, hospitality, retail and civic buildings.

Composition

Panels manufactured from paper faced high grade reinforced gypsum with machined UFF edge and sound absorption felt fixed on the back.

Features & Benefits

- 8/15/20 mm random perforations with UFF edges for a monolithic seamless look.
- Good sound absorption for control of reverberation.
- Fire Group 1-S.
- Cleaneo™ air purification technology for control of VOC's.
- Durable long lasting acoustic finish.
- Surface may be repainted without loss of acoustics for long term maintenance.
- Standard 600 x 600 mm and 500 x 500mm SlimSet™ integrated access hatches.

Technical Specifications:

Practical Sound Absorption Coefficients:
ISO 354 E-200, ratings to ISO 11654, NRC to ASTM C423

	Hz	125	250	500	1000	2000	4000	NRC
G8/15/20	ap	0.40	0.50	0.55	0.50	0.40	0.45	0.50

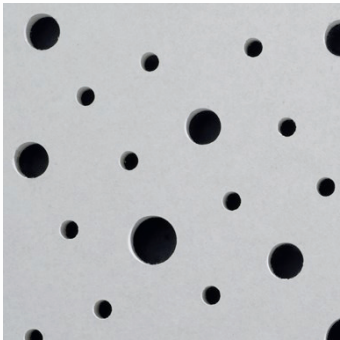
Current stock subject to prior sale, lead times may apply, consult Asona for availability.



Sir Paul Reeves Building, AUT



Stratopanel Random G8/15/20 — UFF



G8/15/20 - Current stock subject to prior sale, lead times may apply, consult Asona for availability.

ISO 9001:2015 Registered Firm No. NZ1014

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Ref. Stratopanel-25-11

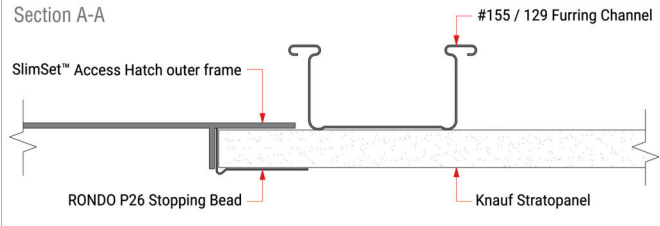
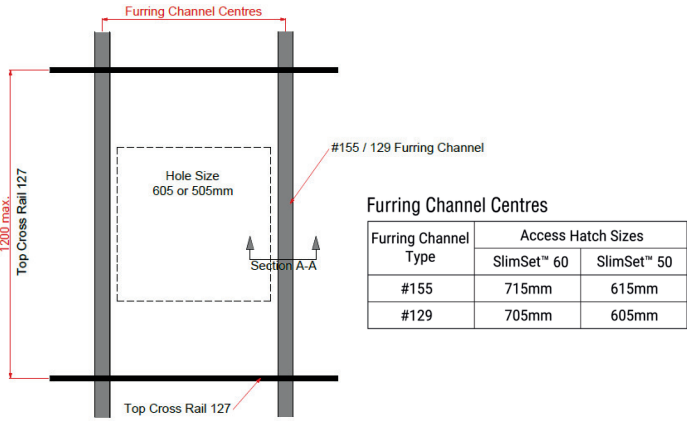
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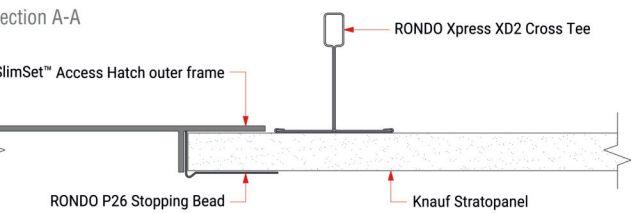
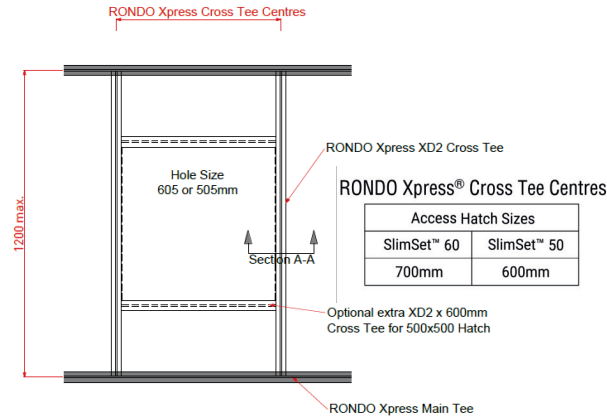
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SlimSet™ Access Hatch Installation

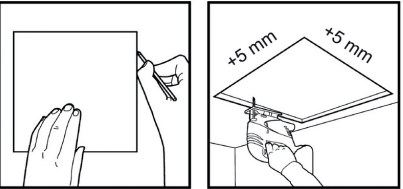
Rondo Key-Lock® suspension layout



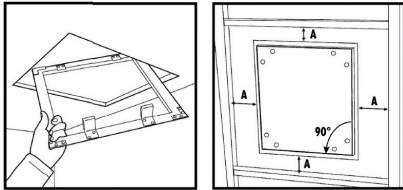
Rondo Xpress® suspension layout



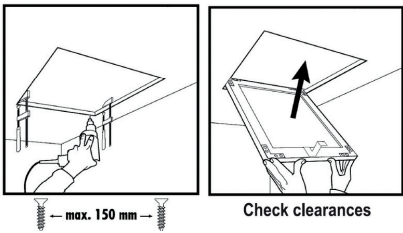
Hatch cut-out and installation



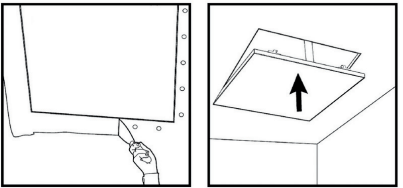
Locate position of hatch between suspension framing. Cut hole 5mm larger than hatch size, ie 605mm or 505mm. For a tidy edge use a Rondo P26 stopping bead (or similar).



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 Stratopanel 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.



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Technical Specifications

Colour:

Plain paper face, requires painting on site.

Environmental:

The gypsum boards are made from following gypsum types: naturally occurring gypsum, gypsum produced from by-products at local power plants during desulphurisation, pre-consumer recycled gypsum waste produced through production processes and post-consumer recycled gypsum. Low embodied energy, product and packaging can be recycled in NZ. Low VOC.

Light Reflectance:

73% DIN 5036 pt 3, White.

Limitations:

- 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 - maximum 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): Knauf Stratopanel 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: Knauf Stratopanel has a Fire Material Group Number 1-S (A2-s1) by NZBC Building Product Specification Parts 8.5.3.1 a), based on classification from BS EN 13501-1:2018.

Perforation:

- 8/15/20 - 9.9% - stocked item.
- 12/20/35 is available to indent only, MOQ and lead times apply, consult Asona.

Sizes:

Stratopanel™ 8/15/20 - 12.5 x 1200 x 2000 mm.

Warranty:

15 year limited warranty against manufacturing defects.

Weight:

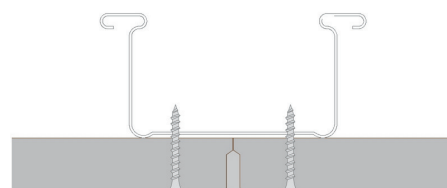
8.7 kg/m²



UFF edge

no visible joints

fill with Uniflott compound for seamless joins



Installation:

Shall not commence until the building is water tight and dry. Suspension using Rondo KEY-LOCK #127 TCR top cross rail at 900mm centres, rigid hangers at 900mm centres, Rondo #155 48mm furring at 300mm centres with Rondo #159 Interchange Clip. (Note - direct fix clips to purlins are not permitted). For walls install on metal battens or studs at 300mm centres. Install sheets so they all face in the same direction, red marks on the back on one sheet to blue mark on the adjacent sheet. Screw fix panels with 25mm bugle head screws at 300mm c/c in field of panel and 200mm c/c at panel edges. Butt join panels and fill joins with Uniflott and finish compound. Expansion joints at 12m maximum. Paint with fine nap roller. Do not spray paint as this will reduce acoustic performance.

Specification:

Acoustic lining shall be Knauf-Danoline Stratopanel™ 8/15/20 random perforated plasterboard with Cleano™ technology, supplied by Asona Ltd, Tel: 09 525 6575, info@asona.co.nz. Size 12.5 x 1200 x 2000mm, UFF edge 4 sides, with black acoustic fleece backer, sound absorption α_W 0.50, NRC 0.50. Screw fix panels with 25mm bugle head screws at 300mm c/c in field of panel and 200mm c/c at panel edges to Rondo KEY-LOCK #155 48mm wide furring at 300mm c/c, TCR #127 at 900mm c/c with rigid hangers at 900mm c/c. Expansion joints at 12m maximum. Install SlimSet™ (60)(50) Access Hatch. Fill joins with Uniflott and finish compounds. Paint with fine nap roller. Contractor shall register the ceiling with Asona on practical completion. (Asona ceiling Masterspec 5113AP specification available).

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