

knauf danoline solopanelTM

CONTINUOUS PERFORATED ACOUSTIC CEILING & WALL LINING



TECHNICAL DATA SHEET BPIR - CLASS 1



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Continuous Perforated Acoustic Ceiling & Wall Lining

Technical Data Sheet - BPIR Class 1

Solopanel™ is a continuous to-the-edge perforated acoustic ceiling system designed for a seamless monolithic aesthetic. Panels are manufactured from press punched perforated plasterboard with discrete machined UFF rebated edges 4 sides. Solopanel™ 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

Solopanel™ is an ideal perforated lining to control noise reverberation in office, meeting rooms, libraries, hotels, malls, halls, receptions, retail, civic buildings and galleries.

Composition

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

Features & Benefits

- Continuous perforations with UFF edge for a seamless monolithic look.
- Good sound absorption for control of reverberation.
- Fire Group 1-S.
- Wide range of perforation patterns.
- Ideal for large volume areas.
- Durable long lasting acoustic finish.
- Surface may be repainted without loss of acoustics for long term maintenance.
- Suitable for ceiling and wall lining.
- Cleaneo™ air purification technology for control of VOC's.
- Standard 600 x 600 mm and 500 x 500mm SlimSet™ integrated access hatches.



Technical Specifications:

Practical Sound Absorption Coefficients:

αW ; Class C; ISO 354 E-200. NRC per ASTM C423

	Hz	125	250	500	1000	2000	4000	NRC
G8/18	ap	0.45	0.60	0.70	0.60	0.55	0.60	0.60
G12/25	ap	0.45	0.65	0.75	0.65	0.60	0.60	0.65
G15/30	ap	0.45	0.65	0.75	0.65	0.60	0.60	0.65
G12/20/66	ap	0.45	0.65	0.80	0.65	0.50	0.60	0.65

	Sizes	Edge	Availability
G8/18	1188 x 1998 x 12.5mm	UFF	Stock item *
G12/25	1200 x 2000 x 12.5mm	UFF	Indent only
G15/30	1200 x 1980 x 12.5mm	UFF	Indent only
G12/20/66	1188 x 1980 x 12.5mm	UFF	Indent only

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

Manufactured by:
Knauf Danoline
Klovermarksvej 6
DK-9500 Hobro, Denmark
E: info@asona.co.nz
W: knaufdanoline.com

ISO 9001:2015 Registered Firm No. NZ1014

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Ref. Solopanel-25-11

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

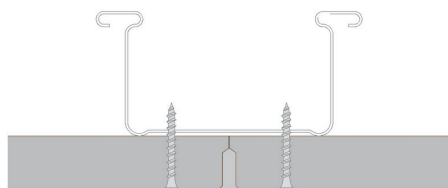
asona



	Perforations	Open Area	Availability
G8/18	(ø8mm @ 18mm oc)	15.5%	Stock item *
G12/25	(ø12mm @ 25mm oc)	18.1%	Indent only
G15/30	(ø15mm @ 30mm oc)	19.6%	Indent only
G12/20/66	(ø12 & 20mm @ 66mm oc, alternating perforation)	19.6%	Indent only

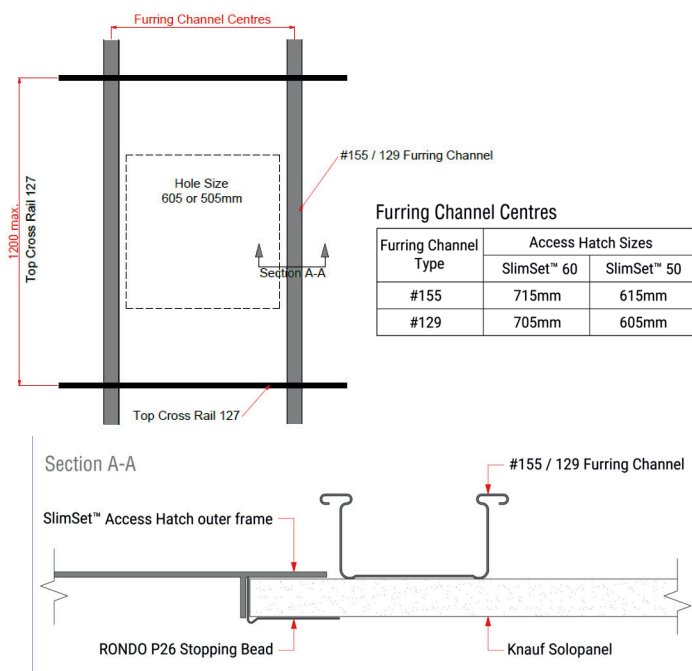
* Current stock subject to prior sale, lead times may apply, consult Asona for availability.

UFF edge
no visible joints
fill with Uniflot compound for seamless joins

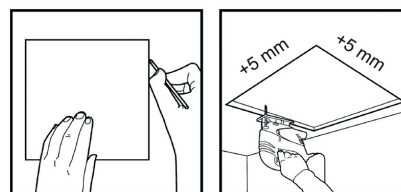


SlimSet™ Access Hatch Installation

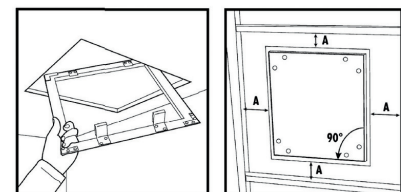
Rondo Key-Lock® suspension layout



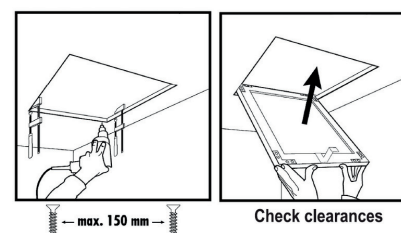
Hatch cut-out and installation



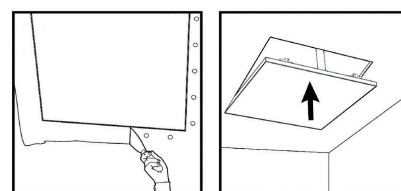
Locate position of hatch between suspension framing. Cut hole 5mm larger than hatch size, ie 605mm or 505mm. For a tidy edge use a Rondo P26 stopping bead (or similar).



Ensure the back of the Solopanel 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.

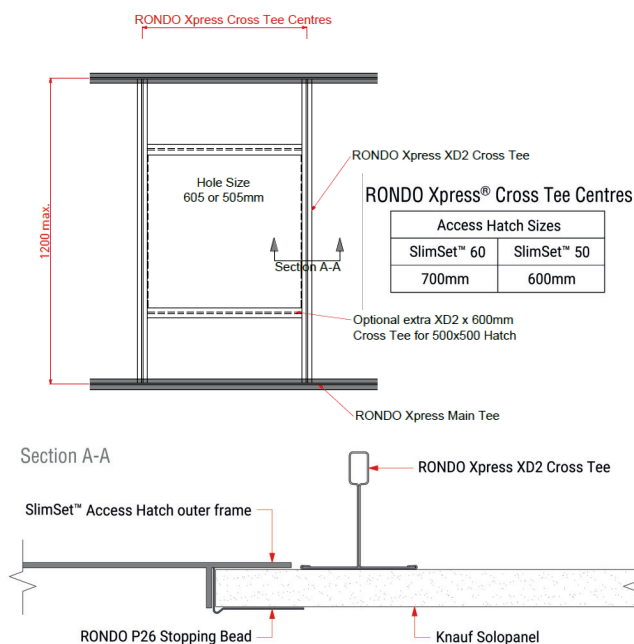


Temporarily clamp the frame and screw fix through the Solopanel to the external flange on all four sides, Screws max at 150mm centres. Remove the clamps.



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.

Rondo Xpress® suspension layout



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Knauf Danoline
Klovermarksvej 6
DK-9500 Hobro, Denmark
E: info.knaufdanoline@knauf.com
W: knaufdanoline.com

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T: +64(0)9 525 6575
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W: www.asona.co.nz

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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 Solopanel 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 Solopanel 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

Warranty:

15 year limited warranty against manufacturing defects.

Weight:

Perforated: 7.8—8.8 kg/m²



Installation:

Shall not commence until the building is water tight and dry. Suspension using Rondo #127 TCR top cross rail at 900 mm 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 joints with Uniflott and finish compound. Expansion joints at 12m maximum. Paint with fine nap roller. Do not spray paint.

Specification:

Acoustic lining shall be Knauf-Danoline Solopanel™ perforated plasterboard with Cleano™ technology, supplied by Asona Ltd, Tel: 09 525 6575, info@asona.co.nz. Perforation type (G8/18 - 1188x1998mm), (G12/25 - 1200x2000mm), (G15/30 - 1200x1980mm), (G12/20/66-1188x1980mm) with UFF edge 4 sides, black acoustic fleece backer, sound absorption, NRC (0.60)(0.65). 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, #127 TCR at max 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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