

knauf danoline solopanel™

CONTINUOUS PERFORATED ACOUSTIC CEILING & WALL LINING



TECHNICAL DATA SHEET BPIR - CLASS 1



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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.

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.

Technical Specifications:

Practical Sound Absorption Coefficients:
 α_w ; 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	0.75	0.65	0.60	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

	Perforations	Availability
G8/18	(\emptyset 8mm @ 18mm oc)	15.5% Stock item *
G12/25	(\emptyset 12mm @ 25mm oc)	18.1% Indent only
G15/30	(\emptyset 15mm @ 30mm oc)	19.6% Indent only
G12/20/66	(\emptyset 12 & 20mm @ 66mm oc, alternating perforation)	19.6% Indent only

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



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.

ISO 9001:2015 Registered Firm No. NZ1014

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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.

Fire Reaction:

C/VM2 / ISO 5660.1, Group number 1-S.

Installed Conditions:

Max 90% R/H at 30°C.

Light Reflectance:

73% DIN 5036 pt 3, White.

Limitation:

Not for use with negative air return plenums, in direct contact with moisture or in extreme humidity conditions. Stock subject to prior sale, lead times may apply, consult Asona. To maintain acoustic performance do not spray paint.

Loading:

Maximum weight that can be directly integrated into the ceiling eg: lighting, A/C grill, speakers etc, shall not exceed 1.5kg. Greater weights shall be independently supported.

Maintenance:

Clean with damp cloth.

NZ Building Code:

Clause B2—durability, 15 years.

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 32mm 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 α_w 0.50-0.60, NRC 0.45-0.60. Screw fix panels with 32mm 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, fill joints 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).



G8/18
Circles Ø8mm, c/c 18mm

G12/25
Circles Ø12mm, c/c 25mm

G15/30
Circles Ø15mm, c/c 30mm

G12/20/66
Circles Ø8 & Ø12mm, c/c 50mm

UFF edge
no visible joints

fill with Uniflott compound for seamless joins

