

polyfon mesh™

OPEN CELL ACOUSTIC CEILING PANEL



TECHNICAL DATA SHEET BPIR - CLASS 1



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Technical Data Sheet - BPIR Class 1

Polyfon Mesh™ is a perforated open cell ceiling panel designed to provide a contemporary industrial aesthetic when using standard two way exposed ceiling grid. Panels may be mixed and matched with other ceiling panel types for design effect or acoustic control. Available in diamond, square, hexagonal and round holes.

Application

Polyfon Mesh™ is ideal for office fitouts, retail, hospitality, showrooms.

Composition

Made in NZ, Polyfon Mesh™ is made from a composite of compressed polyester and a fire resistant glass mat facing.

Features & Benefits

- Provides a bold industrial look. Ideal for retro fit or new.
- Available in 40 x 71 mm Diamond, 50 x 50 Square, 75 x 75 Square, 40 x 40 Hexagonal, a range of circular holes, and Random Slot and Pebbled perforations.
- Option of White or Black core with matching surface finish or contrasting surface finish, eg RAL7030 grey.
- Fire Group 1-S.
- NRC 0.30 - up to NRC 0.9 0 with Triton ceiling tile backer.
- Global GreenTag Level B, Low VOC material.
- Very light weight for seismic.
- Designed to lay into standard Rondo Donn DX grid systems and mix with other ceiling panel types for design effect.
- 10mm thickness.
- Permits visibility into plenum spaces for security.
- Ideal for passive heat/cooling systems using thermal mass.
- Dimensionally stable and allows good ventilation.
- Manufactured in NZ, short lead times.
- Packaging take back and reuse scheme available (NZ only).



Technical Specifications:

Accessibility:

All panels are demountable and accessible.

Back loading:

All loads shall be independently supported.

Core Colours:

White, Black.

Environmental Impact:

Polyester, no chemical binders or pesticides, tested low VOC's per ASTM D51106(TVOC 0.004 mg/m²/hr, Aldehydes <0.01 ppm, Formaldehyde 0.004 mg), low embodied energy, low transport km's vs imports.

Laminate Finishes:

Polyfon Mesh™ is available in standard white, black and a range of Sonatex™ RAL colours and prints. Refer to online Sonatex finishes charts.

Limitations:

- For interior use only, and not in direct contact with water.
- Maximum humidity/temperature 99% R/H at 45°C.
- No back loading — No point loads, all insulation and M&E services to be independently supported.

Maintenance:

Clean with vacuum, soft brush or melamine foam 'magic' cleaner.

ISO 9001:2015 Registered Firm No. NZ1014

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*All dimensions are nominal. We reserve the right to change specifications.

Patent No. AU2009208100 Patent No. NZ570507

Ref. Polyfon Mesh-26.08

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

asona

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 (c) (i): Asona ceiling tiles with only normal maintenance will have a minimum durability of at least 5 years when installed in accordance with; manufacturer's installation requirements and AS/NZS 2785:2020.
- C3 Fire – Clause C/AS2 4.12.1: Asona Polyfon Mesh 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.
(NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1)

Open Area:

48-51%, subject to selected perforation and panel size. (Diamond, Hexagon, Square)

Packaging Take Back Scheme: (NZ only)

Flat pack cartons on site and return to Asona for reuse.

Sound Absorption Rating:

α_w 0.3; Class D; NRC 0.30 per ASTM C423
ISO 354 E-200.

For high NRC or CAC performance specify Polyfon Mesh laminated to a selected Triton ceiling tile.

- + Sonatex backer - NRC 0.50
- + Triton 25 backer - NRC 0.85
- + Triton Duo 60 backer - NRC 0.90, CAC 44

Thermal Resistance:

- R 0.45m²/C/W.
- + Triton 25 backer - R 0.7m²/C/W.
- + Triton Duo 60 backer - R 1.47m²/C/W.

Warranty:

15 year limited warranty against manufacturing defects when installed in Rondo Donn® exposed grid systems supplied by Asona.

Weight:

- 0.8—1.5 kg/m².
- + Triton 25 backer - 2.3—3.0 kg/m².
- + Triton Duo 60 backer - 10.3—11.0 kg/m².

Installation:

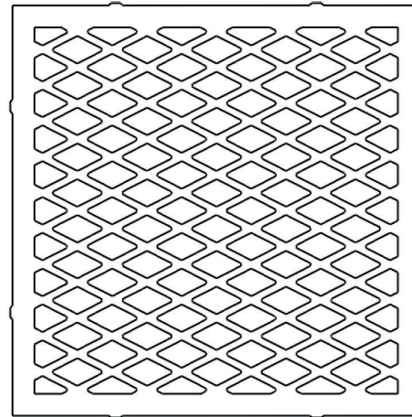
Shall not commence until the building is watertight and dry. This product is designed to be mounted into a Rondo Donn DX® two-way exposed grid system and installed to manufacturer's and AS/NZS 2785:2020 Standard's requirements. Panels are not to support any weight and equipment shall be independently supported. Seismic design may require a suitably qualified engineer. Care shall be taken when handling tiles to avoid damage.

Specification:

Open Cell Ceiling system shall be Asona Polyfon Mesh™ sound absorbing ceiling panel as manufactured by Asona Ltd Tel: 09 525 6575, info@asona.co.nz, Perforation Item #PM10._, fire Group 1-S, NRC 0.30, core colour shall be: (white) (black), Global GreenTag Level B, finish shall be Sonatex acoustic laminate in standard (white) (black) (grey RAL7030) (other). Laminated optional acoustic backer panel shall be (Triton_) (Triton Duo_). Panels shall be installed on Rondo Donn DX® two way exposed grid.

Contractor shall flat pack packaging and return to Asona for reuse and register the ceiling on practical completion.

(Asona ceiling Masterspec 5311AS specification available).



40 x 71 mm, Diamond Mesh Perforation

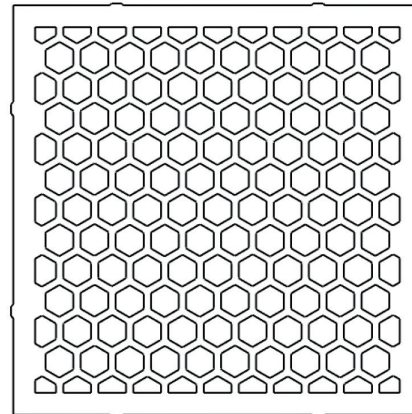
Panel sizes:

10 x 600 x 600 mm
#PM10.0606.D4071

10 x 600 x 1200 mm
#PM10.0612.D4071

Optional:

300 x 1200 mm
500 x 1500 mm



40 x 40 mm, Hexagonal Mesh Perforation

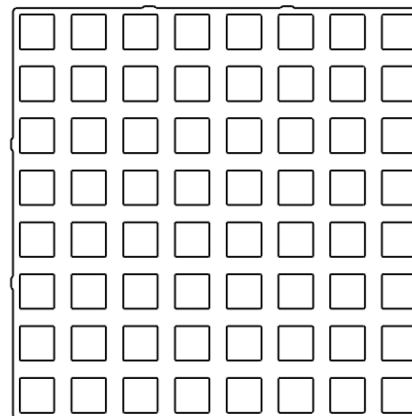
Panel sizes:

10 x 600 x 600 mm
#PM10.0606.H4040

10 x 600 x 1200 mm
#PM10.0612.H4040

Optional:

300 x 1200 mm

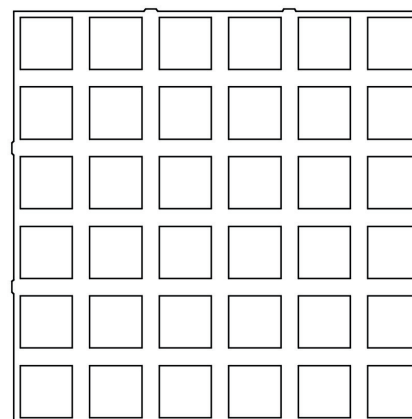


50 x 50 mm, Square Mesh Perforation

Panel sizes:

10 x 600 x 600 mm
#PM10.0606.SQ5075

10 x 600 x 1200 mm
#PM10.0612.SQ5075



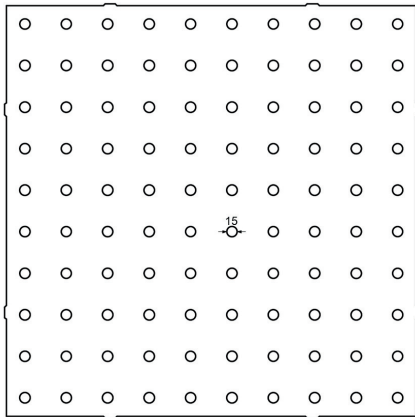
75 x 75 mm, Square Mesh Perforation

Panel sizes:

10 x 600 x 600 mm
#PM10.0606.SQ75100



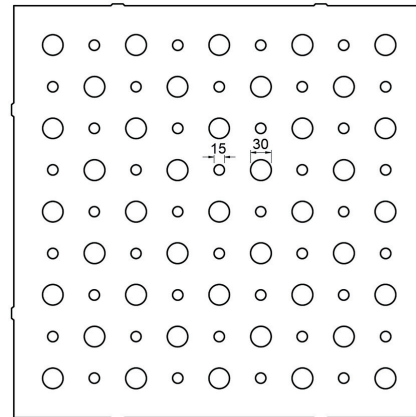
Additional Polyfon Mesh Perforations



15mm Ø perf @ 60mm centres Hole Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.P15-60

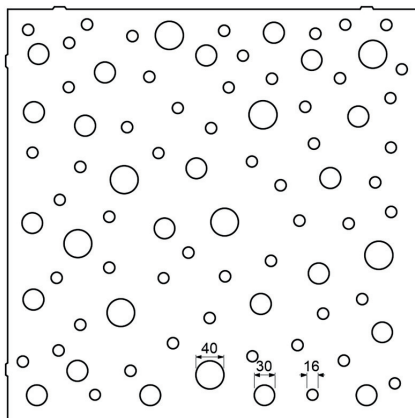
10 x 600 x 1200 mm
#PM10.0612.P15-60



15mm & 30mm Ø perf @ 60mm centres Hole Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.P15/30

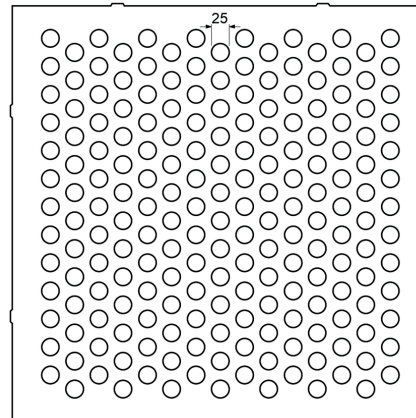
10 x 600 x 1200 mm
#PM10.0612.P15/30



16, 30 & 40mm Ø perfs @ random centres Hole Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.P16/30/40

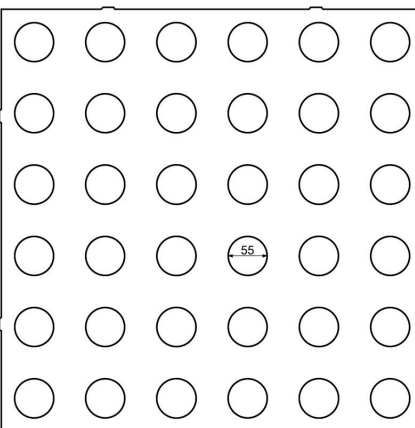
10 x 600 x 1200 mm
#PM10.0612.P16/30/40



25mm Ø perfs @ 40mm centres, diagonal pattern Hole Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.P25-40D

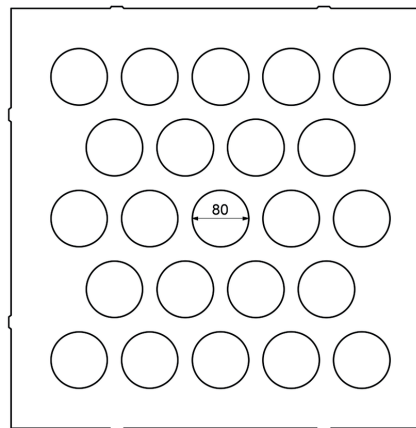
10 x 600 x 1200 mm
#PM10.0612.P25-40D



55mm Ø perf @ 100mm centres Hole Mesh Perforation

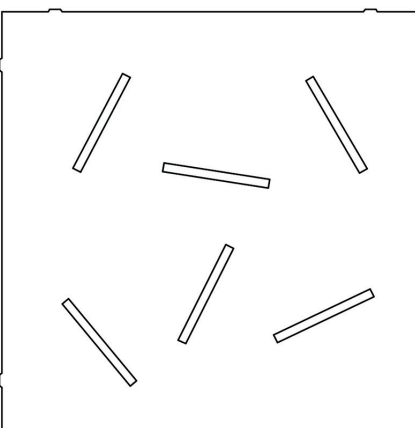
Panel sizes:
10 x 600 x 600 mm
#PM10.0606.P55-100

10 x 600 x 1200 mm
#PM10.0612.P55-100



80mm Ø perfs @ 128mm centres, diagonal pattern Hole Mesh Perforation

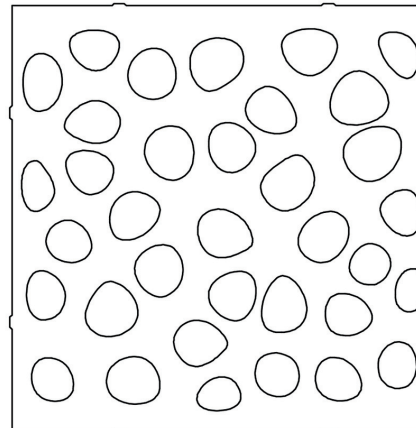
Panel sizes:
10 x 600 x 1200 mm
#PM10.0612.P80D



12mm x 150mm Random Slot Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.Rslot

10 x 600 x 1200 mm
#PM10.0612.Rslot



Random Pebble Mesh Perforation

Panel sizes:
10 x 600 x 600 mm
#PM10.0606.Pebble



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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

asona