

# Polyfon Mesh™

Open Cell Acoustic Ceiling Panel

Technical Data Sheet



ASONA



## Description.

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 and hexagonal.

## 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.

## Benefits.

- Provides a bold industrial look. Ideal for retro fit or new.
- Available in 40 x 71 mm Diamond, 50 x 50 Square and 40 x 40 Hexagonal 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.
- 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 for 600 x 1200mm panels and other optional sizes.
- 10mm or 20mm thickness for 600 x 600mm panels.
- 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).



Item #	Size (nominal) *mm
PM.0606.D4071	10 or 20 x 600 x 600
PM.0612.D4071	10 x 600 x 1200
PM.0606.SQ5075	10 or 20 x 600 x 600
PM.0612.SQ5075	10 x 600 x 1200
PM.0606.H4040	10 or 20 x 600 x 600
PM.0612.H4040	10 x 600 x 1200

# Polyfon Mesh™

## Open Cell Acoustic Ceiling Panel

### Technical Data Sheet



asona

#### 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/m<sup>2</sup>/hr, Aldehydes <0.01 ppm, Formaldehyde 0.004 mg), low embodied energy, low transport km's vs imports.

#### Fire Reaction:

NZBC verification method C/VM2 material Group: 1-S  
NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1.

#### Humidity:

Max 95% R/H at 35°C.

#### 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.

#### Maintenance:

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

#### NZ Building Code:

Clause B2—durability, 5 years.

#### Open Area:

48-51%, subject to selected perforation and panel size.

#### Sound Absorption Rating:

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

Optional acoustic backer available to order where high NRC or CAC performance is required.

Eg: laminated to Triton Duo 60 CAC 44, NRC 0.95.

#### Thermal Resistance:

R 0.45m<sup>2</sup>°C/W.

#### Warranty:

15 year limited warranty against manufacturing defects.

#### Weight:

0.8–1.5 kg/m<sup>2</sup>.

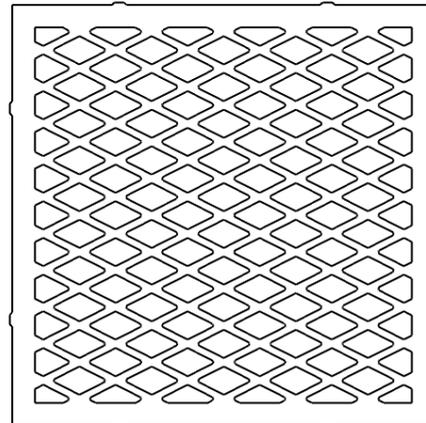
#### Installation:

Shall not commence until the building is water tight and dry. Light fittings shall be independently supported. Follow industry standard installation methods for two way exposed ceiling systems, for seismic design please consult a structural engineer.

#### Specification:

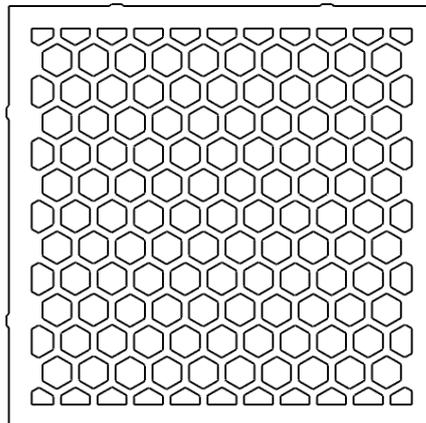
Open Cell Ceiling system shall be Asona Polyfon Mesh™ sound absorbing ceiling panel as manufactured by Asona Ltd Tel: 09 525 6575, info@asona.co.nz, Perforation (D4071 Diamond) (H404 hexagonal) (SQ5075 square), size ( ) x ( ) mm, (10) (20) mm thick, fire Group 1-S, NRC 0.30, core colour shall be: (white) (black), finish shall be Sonatex acoustic laminate in standard (white) (black) (grey RAL7030)(other).  
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 with Asona Renew and Reuse product stewardship program on practical completion.  
(Asona ceiling Masterspec 5311AS specification available).



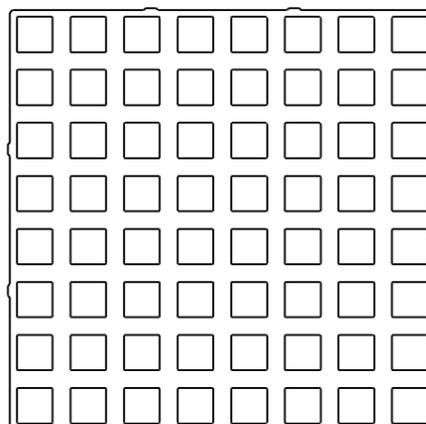
#D4071,  
40 x 71 mm,  
Diamond Mesh  
Perforation

Panel sizes:  
600 x 600 mm  
600 x 1200 mm  
Optional:  
300 x 1200 mm  
500 x 1500 mm



#H4040  
40 x 40 mm,  
Hexagonal Mesh  
Perforation

Panel sizes:  
600 x 600 mm  
600 x 1200 mm  
Optional:  
300 x 1200 mm



#SQ5075  
50 x 50 mm,  
Square Mesh  
Perforation

Panel sizes:  
600 x 600 mm  
600 x 1200 mm  
Optional:  
300 x 1200 mm

#### Asona Ltd

Office and Factory:  
Units 12-16, 7 Cain Road  
Penrose, Auckland 1061,  
New Zealand  
T: +64(0)9 525 6575  
E: [info@asona.co.nz](mailto:info@asona.co.nz)  
W: [www.asona.co.nz](http://www.asona.co.nz)

Australia:  
T: 1 800 240361  
E: [info@asona.com.au](mailto:info@asona.com.au)  
W: [www.asona.com.au](http://www.asona.com.au)

#### ISO 9001:2015 Registered Firm No. NZ1014

© 2022 Copyright ASONA Ltd Asona, Polyfon Mesh, Sonatex, Sonaris are trademarks of Asona Ltd, Donn DX is a trademark of Rondo Building Services Pty Ltd  
\*All dimensions are nominal. We reserve the right to change specifications.  
Patent No. NZ2009208100 Patent No. AU570507  
Ref. Polyfon Mesh-22-11

