

Polyfon Mesh™

Open Cell Acoustic Ceiling Panel

Data sheet



asona

Description.

Polyfon Mesh™ is a bold, decorative, open cell ceiling tile made from compressed composite board, perforated in a range of designs and colours to provide a contemporary mesh ceiling effect.

Application.

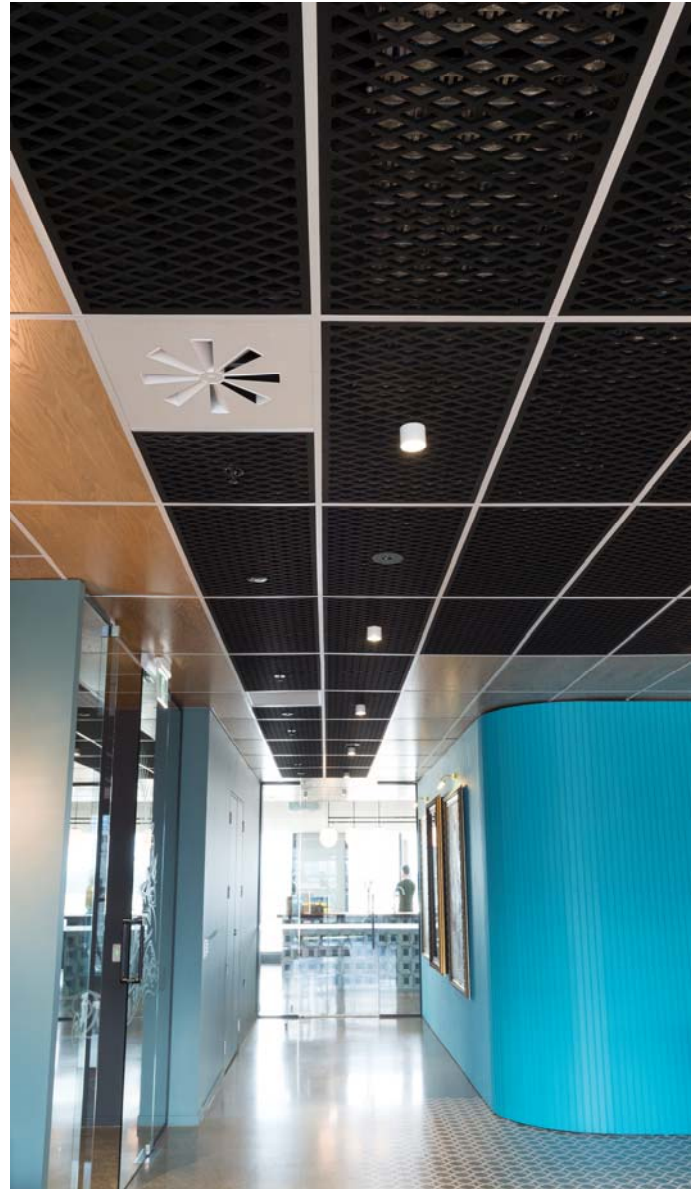
Polyfon Mesh™ is ideal for deconstructed corporate interiors, retail complexes, airports, showrooms and other large volume public spaces.

Composition.

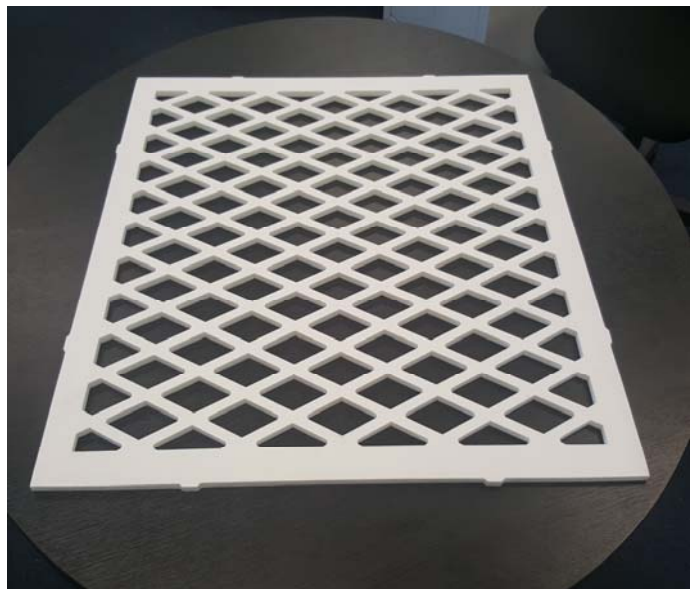
Made in NZ, Polyfon Mesh™ is made from a composite of compressed polyester and a fire resistant glass mat facing.

Benefits.

- Replicates the look of metal mesh.
- Provides an attractive open cell aesthetic.
- Open area allows visibility to the plenum spaces which is ideal for security at airports.
- Ideal for passive heat/cooling systems using thermal mass.
- Group 1S Fire Rating, suitable for all areas including corridors and fire exits.
- Stock colours & custom RAL colours available to order.
- White, Grey and Black cores available.
- Dimensionally stable and allows good ventilation.
- Economical alternative to perforated metal, plaster & wood.
- Very light weight, fits into standard grid systems.
- 600 x 600 mm and 600 x 1200 mm sizes.
- Manufactured in NZ, short lead times.



| Item # | Size (nominal) *mm |
|---------------|--------------------|
| PM.0606.D4071 | 10 x 600 x 600 |
| PM.0612.D4071 | 10 x 600 x 1200 |
| PM.0606.H4040 | 10 x 600 x 600 |
| PM.0612.H4040 | 10 x 600 x 1200 |



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Accessibility:

All panels are demountable and accessible

Back loading:

All loads shall be independently supported.

Sonatex™ Finishes:

Sonatex™ colours: (White AS180) (Mid Grey RAL7040) (Light Grey RAL7030) (Grey White RAL9002) (Wood Wool Print) (Plaster Print) (Wood Print over RAL1014 Oak) (Wood Print over RAL1013 Blond) (Wood Print over RAL8019 Walnut) (Zinc Yellow RAL1018) (Ivory RAL1014) (Graphite Black RAL9011) (Traffic Red RAL3020) (Orient Red RAL3031) (Traffic Orange RAL2009) (Traffic Green RAL6032) (Aqua RAL6027).

Core Colours:

White, Grey, 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.

Fire Reaction:

Material group number: 1S (highest rating) C/VM2 / ISO 5660.1. Suitable for fire exit way and all other sprinklered & non sprinklered buildings.

Sound Absorption Rating:

α_W 1.0; Class A; NRC 0.30 per ASTM C423 ISO 354 E-200.

Humidity:

Max 95% R/H at 35°C.

Light reflectance:

ASTM C1477 LR-1, >75% White

Maintenance:

Clean with vacuum, soft brush or damp cloth.

NZ Building Code:

Exceeds clause B2—durability

Thermal Resistance:

R 0.45m²°C/W

Weight:

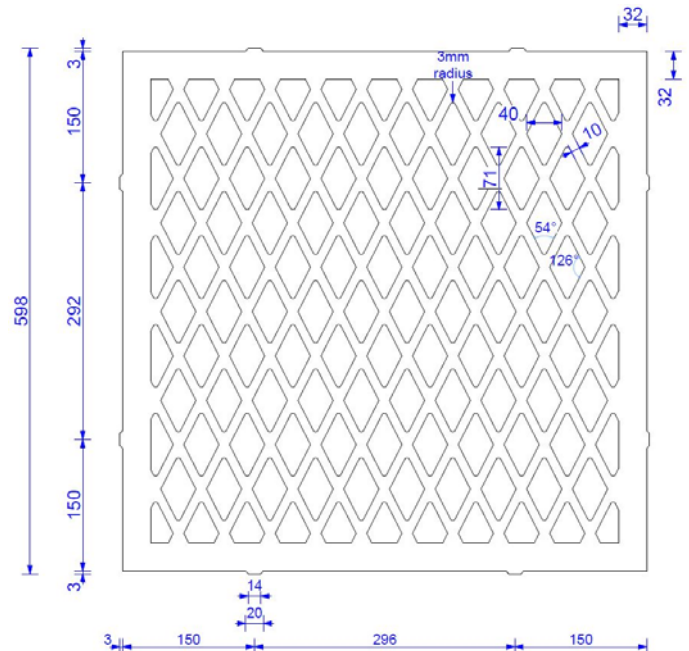
2.2 kg/m²

Installation:

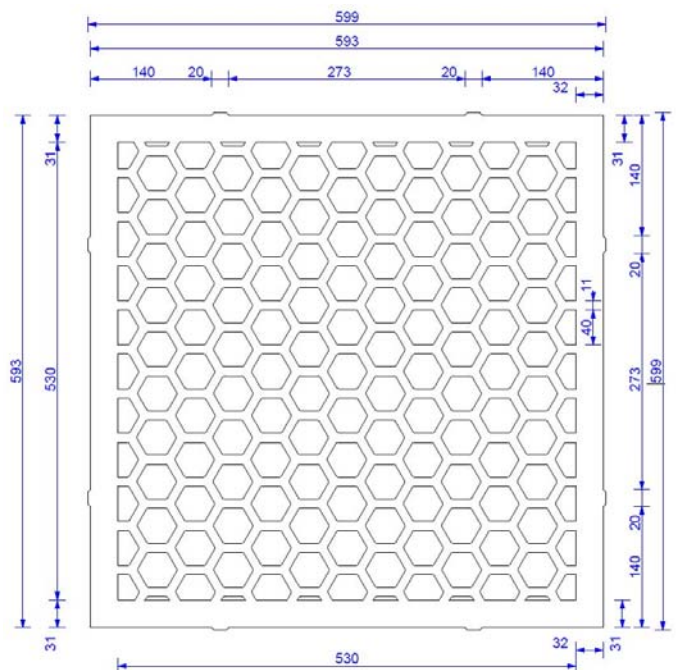
Shall not commence until the building is water tight and dry. Light fittings shall be independently supported.

Specification:

Ceiling system shall be Asona Polyfon Mesh™ high sound absorbing open-cell polyester ceiling panel as manufactured by Asona Ltd Tel: 09 525 6575 Fax: 09 525 6579, # () , module () x ()mm, 10 mm thick, fire group is 1S, NRC 0.30, Sonatex™ colour: (White AS180) (Mid Grey RAL7040) (Light Grey RAL7030) (Grey White RAL9002) (Wood Wool Print) (Plaster Print) (Wood Print over RAL1014 Oak) (Wood Print over RAL1013 Blond) (Wood Print over RAL8019 Walnut) (Zinc Yellow RAL1018) (Ivory RAL1014) (Graphite Black RAL9011) (Traffic Red RAL3020) (Orient Red RAL3031) (Traffic Orange RAL2009) (Traffic Green RAL6032) (Aqua RAL6027). Install in standard T24 exposed grid system.



#D4071, 40 x 71 mm, Diamond Mesh Perforation



#H4040, 40 x 40 mm, Hexagonal Mesh Perforation

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ISO 9001:2008 Registered Firm No. NZ1014

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All dimensions are nominal. We reserve the right to change specifications.
Ref. Polyfon Mesh-1712 Patent No. NZ2009208100 Patent No. AU570507