

Polyfon 40™ - NRC 1.00

Polyester Acoustic Panel

Technical Data sheet



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Description.

Polyfon 40™ is a made in NZ, high sound absorbing polyester ceiling panel designed to control unwanted noise in interior spaces. Polyfon is available in a range of decorative acoustic laminate finishes from plain white, greys, black, colours and prints.

Application.

Polyfon 40™ is an ideal sound absorber panel, glue fixed to solid linings or in a suspended frame, for call centres, open plan offices, halls, classrooms, libraries etc.

Composition.

Manufactured from polyester fibre board laminated with fire resistant glass mat acoustic facing. Suspension grid from coated steel or aluminium.

Benefits.

- Wide range of decorative laminate finishes ensures a uniform aesthetic.
- Polyester core is available in white, grey & black.
- Very high sound absorption rating to control reverberation, NRC 0.90, 0.95, ISO 11654 class A, α_w 0.85, 1.0.
- Low VOC material.
- Fire Group 1-S.
- Available in sizes up to 1200 x 2400mm.
- Light weight and easy to handle.
- Can be recycled and renewed to extend product life and reduce construction waste.
- Resilient and flexible composite construction is fast and easy to install.

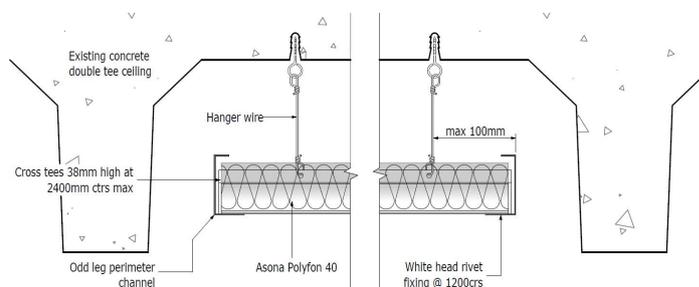
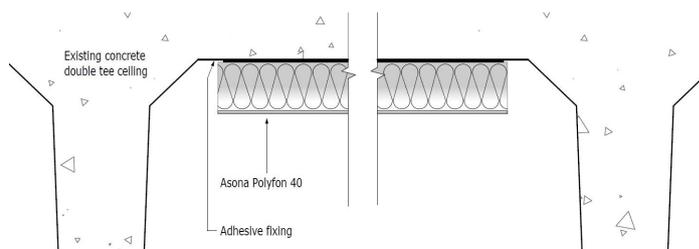


Technical Specifications

Item #	Size (nominal) *mm	Colour
PFW40.1224.A180	40 x 1200 x 2400	A180 White
PFG40.1224.7030	40 x 1200 x 2400	RAL7030 Grey
PFG40.1224.7040	40 x 1200 x 2400	RAL7040 Grey
PFG40.1224.7045	40 x 1200 x 2400	RAL7045 Grey
PFG40.1224.7040PL	40 x 1200 x 2400	RAL7040PL
PFG40.1224.7040WX	40 x 1200 x 2400	RAL7040WX
PFG40.1224.9011	40 x 1200 x 2400	RAL9011 Black

* 1200 x 600, 1200 x 1200mm sizes available to order

Sound Absorption Rating:						
α_w 1.0; Class A; NRC 1.00 per ASTM C423 ISO 354 E-200, Test report T1708-14						
Hz	125	250	500	1000	2000	4000
α_p E200	0.60	0.90	1.00	0.95	1.00	1.00
A	0.25	0.55	0.90	1.00	1.00	0.90



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Accessibility:

All panels are demountable and accessible if installed in grid.

Back Loading:

All loads shall be independently supported.

Base Board:

Polyester base board is available in: White, Grey, Black.

Finish Colours:

Sonatex: (White AS180) (Grey RAL7040) (Grey RAL7045) (Grey RAL7030) (Grey RAL9002) (Wood Wool Print) (Plaster Print) (Wood Print RAL1001) (Wood Print RAL1013 Blond) (Wood Print RAL8019 Walnut) (Zinc Yellow RAL1018) (Ivory RAL1014) (Black RAL9011) (Traffic Red RAL3020) (Traffic Orange RAL2009) (Traffic Green RAL6032) (Aqua RAL6027) (Cobalt Blue) (Puka Green RAL1000) (Egmont Grey RAL4009) (Taupo Clay RAL1001) (Oyster Bay RAL1015) (Porirua Mist RAL9018) (Flax Seed RAL3012), other finishes to order.

Environmental Impact:

Polyester, no chemical binders or pesticides, Low VOC's per ASTM D51106(TVOC 0.004 mg/m²/hr, Aldehydes <0.01 ppm, Formaldehyde 0.004 mg). Soiled panels can be recycled with new acoustic facing to reduce landfill waste.

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 99% R/H at 45°C.

Light Reflectance:

ASTM C1477 LR-1, >75% White

Maintenance:

Clean with vacuum, soft brush or damp cloth.
Re-surfacing of damaged panels available, consult Asona.

NZ Building Code:

Exceeds NZBC clause B2—durability

Sizes:

40 x 1200 x 2400 mm max, Tolerances: +/- 5 mm.
Cut to size panels available to order.

Thermal Resistance:

R 1.15 m²°C/W

Warranty:

15 year limited warranty against manufacturing defect, extendable to 30 years when registered for Asona's Renew and Reuse program.

Weight:

2 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Light fittings shall be independently supported, use hold down clips in areas of wind uplift. It is recommended that air grilles be installed in the ceiling to balance air pressure differentials. Glue fix method; apply construction adhesive liberally to the back of panel and press firmly to clean, dust free substrate. Z bar framing method; support edge of panels with Z bar, Channel, T bar, Top Hat or timber battens.

Specification:

Asona Polyfon 40™ high sound absorbing polyester ceiling with glass tissue facing as manufactured by Asona Ltd Tel: 09 525 6575 info@asona.co.nz, module (~mm) x (~mm) x 40mm thick, sound absorption Class A, α W 1.00, NRC (0.90)(0.95), Fire Group 1-S, Base Board: (White) (Grey) (Black), finish shall be Sonatex acoustic laminate in standard (white) (black) (colour) (wood-look print). Panels shall be (glue fixed to substrate) (edge fixed with Z bar/ C Channel) (suspended in Rondo Donn DX exposed grid system). 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 5172AA specification available).

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ISO 9001:2015 Registered Firm No. NZ1014

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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Polyfon 40-22-09

