polyfon 40

POLYESTER ACOUSTIC PANEL



TECHNICAL DATA SHEET BPIR - CLASS 1



polyfon 40

Polyester Acoustic Panel - NRC 0.95/0.90

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



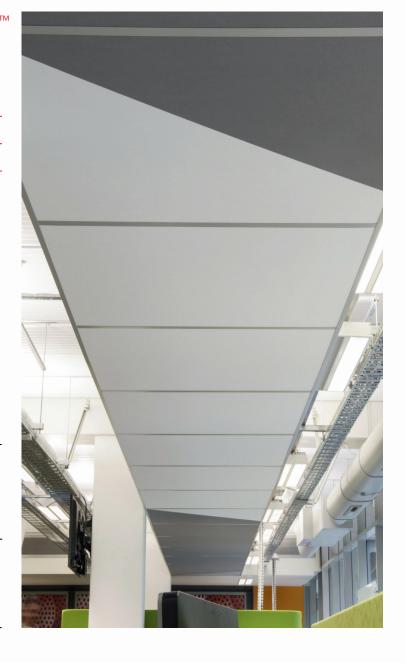
Polyfon 40™ is an ideal sound absorber panel, glue fixed to solid linings or in a suspended frame, for call centres, open plan offices, halls, classrooms, libraries etc.

Composition

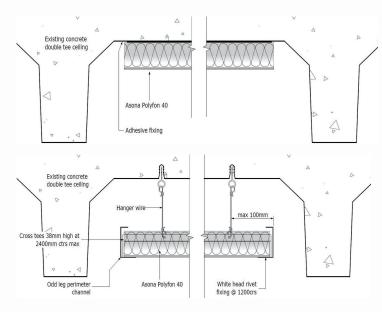
Manufactured from polyester fibre board laminated with fire resistant glass mat acoustic facing. Suspension grid from coated steel or aluminium.

Features & 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 0.95, 0.90, ISO 11654 class A, αW 1.0, 0.85.
- · 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



Technical Drawing





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 Absorbtion Rating:

αW 1.0; Class A; NRC 0.95 per ASTM C423 ISO 354 E-200, Test report T1708-14

Hz	125	250	500	1000	2000	4000
αp E200	0.60	0.90	1.00	0.95	1.00	1.00
αp A*	0.25	0.55	0.90	1.00	1.00	0.90

^{*}Direct fix mount

Accessibility:

All panels are demountable and accessible if installed in grid.

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.

Light Reflectance:

ASTM C1477 LR-1, >75% White

- For interior use only, and not in direct contact with water.
- Not for use with negative air return plenums.
- Maximum humidity/temperature 99% R/H at 45°C.
- Back loading No overlay loads, M&E services and point loads to be independently supported.

Maintenance:

Clean with vacuum, soft brush or damp cloth.

Re-surfacing of damaged panels available, consult 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 Polyfon 40 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 3.4(a): Asona Polyfon 40 has a Fire Material Group Number 1-S by NZBC verification method C/VM2 Appendix A, tested in accordance with ISO 5660 or ISO 9705. (NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1)

Packaging Take Back Scheme: (NZ only)

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



Renew & Reuse Stewardship Program:

Soiled or damaged panels can be resurfaced with new Sonatex or Sonaris laminates for reuse in the ceiling. Helps extend life cycle and reduce construction waste. Register on practical completion.

Sizes:

40 x 1200 x 2400 mm max, Tolerances: +/- 5 mm. Cut to size panels available to order. 600 x 1200mm & 600 x 600mm for exposed grid application.

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 watertight and dry. This product is designed to be mounted directly, suspended or laid into a 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. Hold down clips may be required in areas of wind uplift, and/or air grilles used to balance air pressure. Glue fix method; apply construction adhesive liberally to the back of panel and press firmly to clean, dust free substrate. Support edge of panels with Channel, T bar, Top Hat or timber battens. Suspended type systems requiring seismic design may require a suitably qualified engineer. Care shall be taken when handling panels to avoid damage.

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, α W (1.00)(0.85), NRC (0.95)(0.90), 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 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 5311AS [grid & tile] & 5172AA [acoustic linings] specifications available).



Asona Ltd. Office & Factory

