

polyfonTM

POLYESTER ACOUSTIC PANELS AND TILES



TECHNICAL DATA SHEET BPIR - CLASS 1



polyfon™

Polyester Acoustic Panel - NRC 0.95

Technical Data Sheet - BPIR Class 1

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

Composition

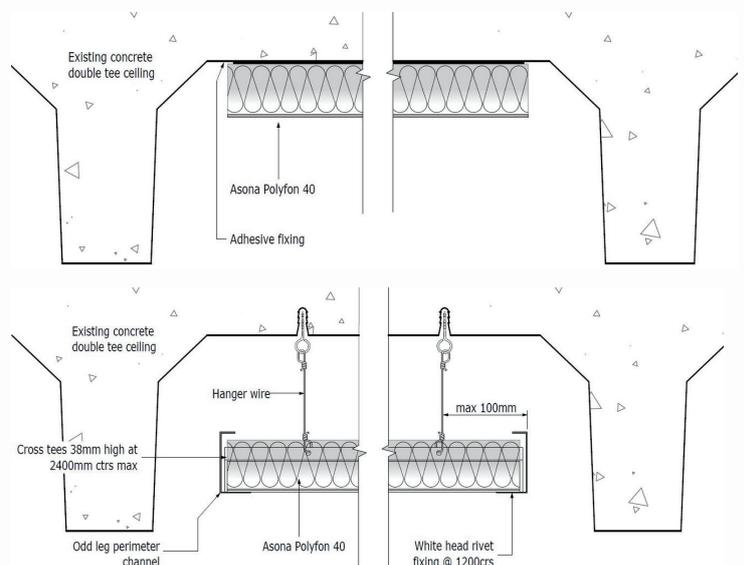
Manufactured from polyester fibre board nude, or laminated with fire resistant glass mat acoustic facing.

Features & Benefits

- Polyester nude core is available in white, grey & black.
- Wide range of decorative laminate finishes ensures a uniform aesthetic.
- Sonaris perforated laminates available on 600 x 600 and 600 x 1200mm size tiles.
- Very high sound absorption rating to control reverberation, NRC 0.95, 0.90, ISO 11654 class A, α_w 1.0, 0.85.
- Global GreenTag Level B, Low VOC material.
- Fire Group 1-S.
- 40, 25 or 15mm thicknesses
- Available in sizes up to 1200 x 2400mm (40 & 25mm).
- 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 Drawing



ISO 9001:2015 Registered Firm No. NZ1014

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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Polyfon-26.03

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Technical Specifications:

Item #	Size (nominal) *mm	Colour
PFW40.1224.N	40 x 1200 x 2400	Nude White
PFG40.1224.N	40 x 1200 x 2400	Nude Grey
PFB40.1224.N	40 x 1200 x 2400	Nude Black
* 1200 x 600, 1200 x 1200mm sizes available to order		
PFW25.1224.N	25 x 1200 x 2400	Nude White
PFG25.1224.N	25 x 1200 x 2400	Nude Grey
PFB25.1224.N	25 x 1200 x 2400	Nude Black
* 1200 x 600, 1200 x 1200mm sizes available to order		
PFW15.0612.N	15 x 600 x 1200	Nude White
PFG15.0612.N	15 x 600 x 1200	Nude Grey
PFB15.0612.N	15 x 600 x 1200	Nude Black
* 600 x 600mm sizes available to order		

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 and LPL: refer Finishes data sheet, 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

Limitations:

- 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 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 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)

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.

Sound Absorption Rating: 40mm						
αW 1.00; Class A; ISO 354 E-200; NRC 0.95 per ASTM C423						
αW 0.85; Class C; ISO 354 A; NRC 0.90 per ASTM C423, direct fix mount						
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

Sound Absorption Rating: 25mm						
αW 1.00; Class A; ISO 354 E-200; NRC 0.95 per ASTM C423						
αW 0.65; Class C; ISO 354 A; NRC 0.75 per ASTM C423, direct fix mount						
Hz	125	250	500	1000	2000	4000
αp E200	0.60	0.85	1.00	0.95	1.00	1.00
αp A	0.15	0.35	0.70	0.95	1.00	0.95

Sound Absorption Rating: 15mm						
αW 0.95; Class A; ISO 354 E-200, NRC 0.95 per ASTM C423						
Hz	125	250	500	1000	2000	4000
αp E200	0.50	0.85	0.95	0.90	1.00	1.00

Sizes:

40, 25mm: 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.

15mm: 600 x 1200mm & 600 x 600mm for exposed grid application.

Thermal Resistance:

R 1.15 m²C/W (40mm)

Warranty:

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

Weight:

2.6-2.8 kg/m² (40mm)

1.8-2.1 kg/m² (25mm)

1.5-1.8 kg/m² (15mm)

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™ high sound absorbing polyester ceiling with glass tissue facing as manufactured by Asona Ltd Tel: 09 525 6575 info@asona.co.nz, item # (), module (~mm) x (~mm) x (40)(25)(15)mm thick, αW (1.00)(0.95)(0.85)(0.65), NRC (0.95)(0.90)(0.75), Fire Group 1-S, nude finish Base Board: (White) (Grey) (Black), Global GreenTag Level B, Sonatex acoustic laminate in standard (white) (black) (colour) (wood-look print), LPL (). 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).



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Sonatex™ - Acoustic Laminate Shades and Prints and LPL Finishes

Sonatex White to Black *

High NRC finish



A180 Standard White



Hygiene Facing (not for Sonaris)



RAL 9002 White Grey



RAL 7040 Light Cool Grey



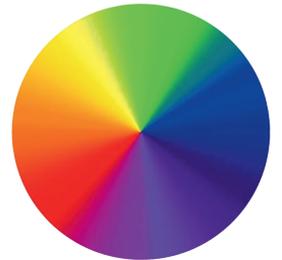
RAL 7030 Mid Warm Grey



RAL 7045 Mid Cool Grey



RAL 9011 Black



Colour options available *

Sonatex Wood Prints *

High NRC finish

(Roto gravure print on Sonatex,
not to scale)



Wood print RAL 1013



Wood print RAL 1001 (TON 1127)



Wood print RAL 8019

Low Pressure Laminates

Woodlook *

Reduced NRC performance
unless perforated



LPL Copenhagen



LPL Bleached Maple



LPL Tasmanian Oak



LPL Walnut



LPL Blond Maple

Contact Asona for samples:

Email: info@asona.co.nz

Phone: +64 (0) 9 525 6575

* Asona Sonatex is colour matched to the RAL Classic K7 range colours standard. The colour accuracy of this swatch card is dependent on your viewing screen and/or printer used. Digital print designs and custom colours are available to order, minimum quantity and lead times apply.

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Ref. Finishes-25.11

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