

# 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.

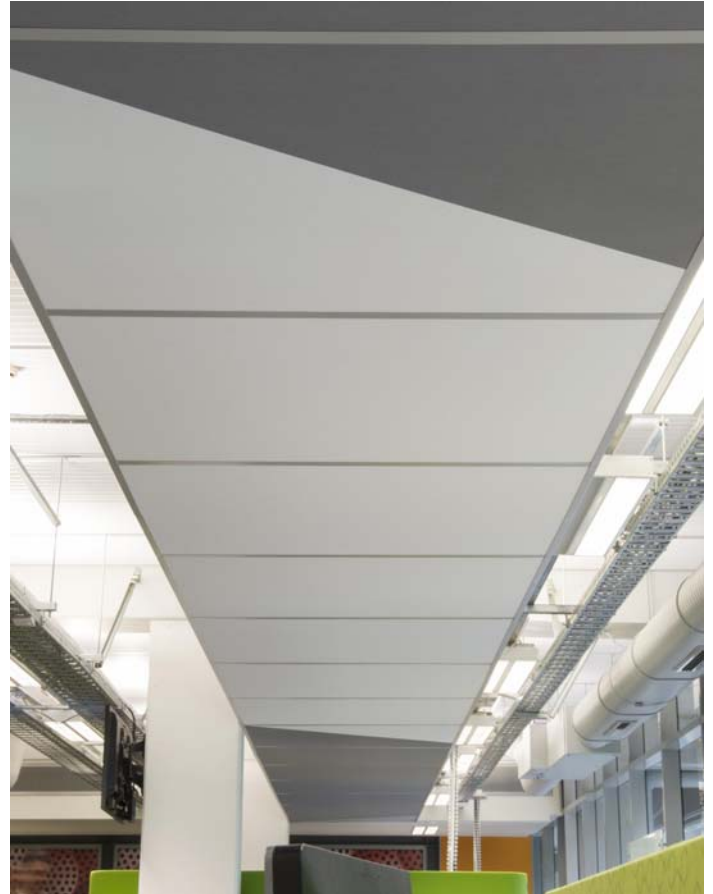
Polyfon 40™ is an ideal sound absorber panel, glue fixed to solid linings or in a suspended frame, for call centres, open plan offices, halls, classrooms, libraries etc.

#### 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 1.00, ISO 11654 class A,  $\alpha_W$  1.0.
- Low VOC material.
- Fire rating group 3
- Can be recycled and renewed to extend product life and reduce construction waste.
- Resilient and flexible composite construction is fast and easy to install.



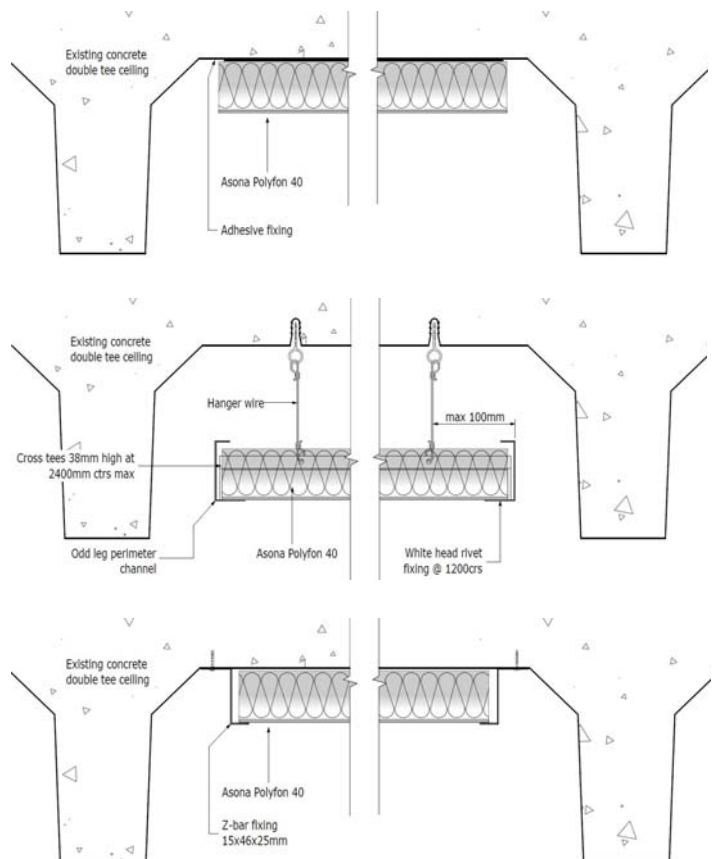
#### Technical Specifications

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
PFG40.1224.3020	40 x 1200 x 2400	RAL3020 Red
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

#### Sound Absorption Rating:

$\alpha_W$  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
$\alpha_p$ 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

#### Back loading:

All loads shall be independently supported.

#### Base Board:

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

#### Finish colours:

Polyfon 40™ is laminated in a range of colours: (White A180) (Grey RAL7030) (Grey RAL7040) (Grey RAL7045) (Black RAL9011) (Graphite Black RAL9011) (Traffic Red RAL3020) (PL Plaster Print) (WX print) Custom colours to order.

#### Environmental impact:

Polyester, no chemical binders or pesticides, Low VOC's per ASTM D51106 (TVOC 0.004 mg/m<sup>2</sup>/hr, Aldehydes <0.01 ppm, Formaldehyde 0.004 mg). Soiled panels can be recycled with new acoustic facing to reduce landfill waste.

#### Fire Reaction:

Material group number: 3 C/VM2 / ISO 5660.1. Suitable for all sprinklered buildings.

#### 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 clause B2—durability

#### Sizes:

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

#### Thermal Resistance:

R 1.15 m<sup>2</sup>C/W

#### Weight:

2 kg/m<sup>2</sup>

#### Installation:

Shall not commence until the building is water tight and dry. 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 Fax: 09 525 6579, module 1200 x 2400 mm, 40 mm thick, sound absorption Class A,  $\alpha_w$  1.00, NRC 1.00, fire group is 3, Base Board: (White) (Grey) (Black), Finish colours: (White A180) (Grey RAL7030) (Grey RAL7040) (Grey RAL7045) (Black RAL9011) (Graphite Black RAL9011) (Traffic Red RAL3020) (PL Plaster Print) (WX print). Panels shall be (glue fixed to substrate) (edge fixed with Z bar/ C Channel) (suspended in T38 exposed grid system).

#### Asona Ltd

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