

triton pool panel vgTM

HIGH SOUND ABSORBING CEILING PANEL FOR SWIMMING POOLS



TECHNICAL DATA SHEET BPIR - CLASS 1



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High Sound Absorbing Ceiling Panel for Swimming Pools - NRC 1.00

Technical Data Sheet - BPIR Class 1

Triton Pool Panel VG™ are a proprietary edge wrapped 50 mm thick, high sound absorbing acoustical panel with water repellent finish and foil backing designed for high level swimming pool ceilings and walls.

Application

Triton Pool Panel VG™ is designed for pool environments as an open system with no concealed or enclosed cavity behind the panels for buildings with managed ventilation. The intent is to allow conditioned air to circulate around the panels which will help to reduce the risk of condensation.

Composition

Manufactured in NZ, from bio-soluble glass fibre core, the back of the panel is laminated with an impermeable foil, reinforced edges and edge wrapped in water repellent Sonatex glass mat acoustic facing.

Features & Benefits

- Water repellent surface.
- Glass fibre core provides very high sound absorption, NRC 1.00, ISO 11654 class A, α_w 1.0.
- Clean wrapped edges.
- High light reflectance in standard white, colours available.
- Available in standard or custom sizes.
- Large modules available up to 1000 mm x 2800 mm.
- Fire Group 1-S.
- Dimensionally stable in high humidity.
- Made in NZ, low embodied energy, 80% recycled content.
- Designed specifically for swimming pool environments.
- Global GreenTag certified / Level A.
- Aluminium components corrosion tested to ISO 12944.
- Packaging take back and reuse scheme (NZ only).
- ISO 9001 registered quality management program.



Technical Specifications

Sound Absorption Rating:

ISO 354 E-200 α W 1.0; NRC 1.00 per ASTM C423
Test report T0601-2

Hz	125	250	500	1000	2000	4000
α p E200	0.70	1.00	1.00	1.00	1.00	0.95

Sizes:

Thickness: 50mm
Width: 1000mm max.
Length: 600, 900, 1000, 1200, 1800, 2200, 2350, 2800mm. Other sizes to order, please consult Asona Ltd.

Colour:

White standard, digital print and other colours available to order, consult Asona.

Environmental impact:

Global GreenTag Certified, Level A, from 80% recycled local content, low embodied energy, damaged or soiled panels can be reused/resurfaced with new acoustic facing to reduce construction waste and costs. Low VOC.

Light Reflectance Value:

85% per BS8493:2008, White, others subject to colour.

Maintenance:

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

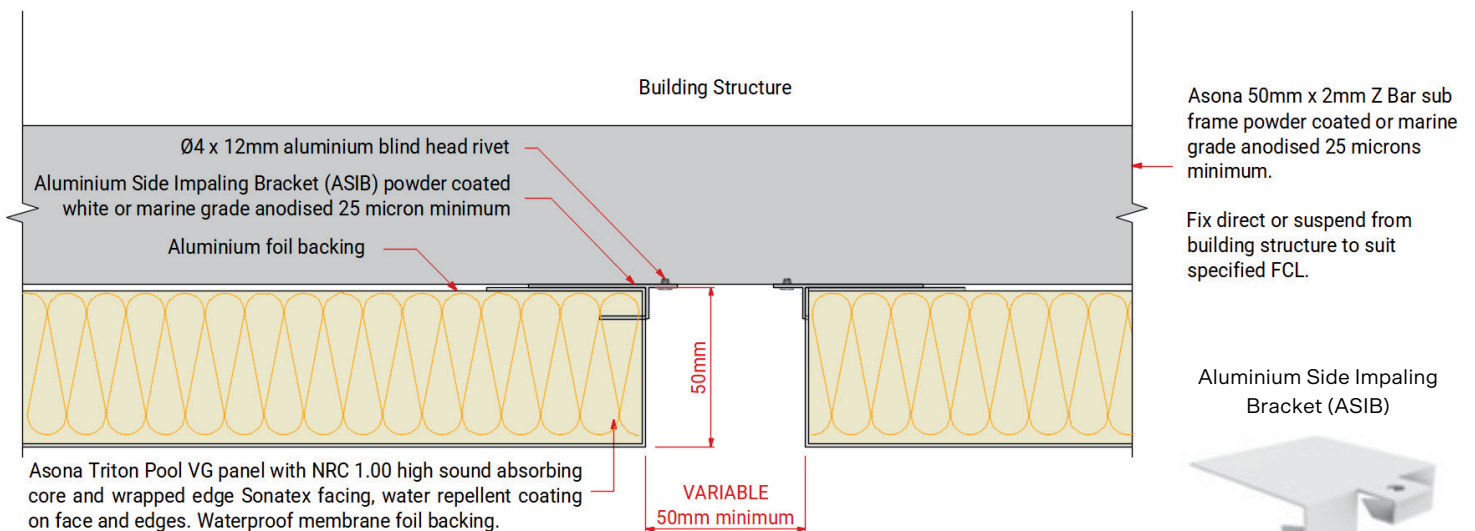
Limitations:

- For interior use only.
- Face not designed for direct contact with water.
- Maximum humidity/temperature 95% R/H at 45°C. It is recommended to control humidity to 70% RH maximum to prevent condensation forming on the structure.
- Back loading — No overlay loads, M&E services and point loads to be independently supported.

NZ Building Act

This product is not subject to a warning or ban under Section 26.

Fixing (Direct Fixed):



Specification:

Acoustical treatment shall be Triton Pool Panel VG™ panel from a glass fibre core, with reinforced edges, wrapped in Sonatex glass mat laminate with water repellent coating to face and edges, metalized polyester foil backing, as manufactured by Asona Ltd tel: 09 525 6575, item # () , module () x ()mm x 50mm thick, sound absorption Class A, α W 1.0, NRC 1.00, Fire Group: 1-S, colour (white) (other). Mount panels to sub-frame structure via proprietary (anodized) (powder coated) aluminium direct-fix side impaling brackets (other). Contractor shall register the ceiling with Asona on practical completion. (Asona ceiling Masterspec 5172AA specification available.)

NZ Building Code Compliance:

- B2 Durability – Clause B2.3.1 (c) (i): Asona Triton Pool Panel VG 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 Triton Pool Panel VG 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).

Thermal Resistance:

R 1.47 m²C/W

Warranty:

15 year limited warranty against manufacturing defects.

Weight:

3 kg/m²

Aluminium Components Corrosion Resistance:

EN ISO 12944 Standard and the Classification of Corrosive Environments 2 < rCorr ≤ 5 (g/ (m² a)). To ISO 9226:2012, ISO 9223, ISO 8565, ISO 8407, MTL Test Report J63431.3

This determined that the corrosion rate of the uncoated components was less than the minimum requirement per the Standard.

Installation:

Shall not commence until the building is water tight and dry.

Light/mechanical fittings shall be independently supported between panels. Mount panels to aluminium Z sub-frame with Aluminium Side Impaling Brackets at centres to suit panel length. To maintain free air movement around panels maintain a minimum 50mm gap between and behind panels.

Sub-trades not to use panels for support. Panels shall be installed in areas free from direct contact with water, condensation, or water vapour, including but not limited to, leaking pipes and/or ducts or steam, which can lead to staining. Refer to the Triton Pool Panel Installation Manual for full details and other options.