

triton pool panel™

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™ panels are a proprietary edge wrapped 50 mm thick, high sound absorbing acoustical panel designed for high level swimming pool ceilings.



Application

Triton Pool™ panels are 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, edges reinforced with a concealed aluminium frame then laminated and edge wrapped in water repellent Sonatex glass mat acoustic facing.

Features & Benefits

- Glass fibre core provides very high sound absorption, NRC 1.00, ISO 11654 class A, α_w 1.0.
- Clean wrapped edges with concealed framing eliminates the unsightly edge framing common with other panels.
- High light reflectance in standard white, colours available.
- Available in standard or custom sizes.
- Large modules available up to 1200 mm x 3000 mm.
- Fire Group 1-S. (under test)
- Concealed aluminium frames for strength.
- Dimensionally stable in high humidity.
- Made in NZ, low embodied energy, 80% recycled content.
- Designed specifically for swimming pool environments.
- Water repellent surface.
- 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 αW 1.0; NRC 1.00 per ASTM C423
Test report T0601-2

Hz	125	250	500	1000	2000	4000
αp E200	0.70	1.00	1.00	1.00	1.00	0.95

Sizes:

Thickness: 50mm
Width: 600, 900, 1000, 1200 mm
Length: 600, 900, 1000, 1200, 2000, 2400, 2700, 3000 mm Other sizes to order, please consult Asona Ltd.

Colour:

White, other colours available, consult Asona.

Environmental impact:

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.

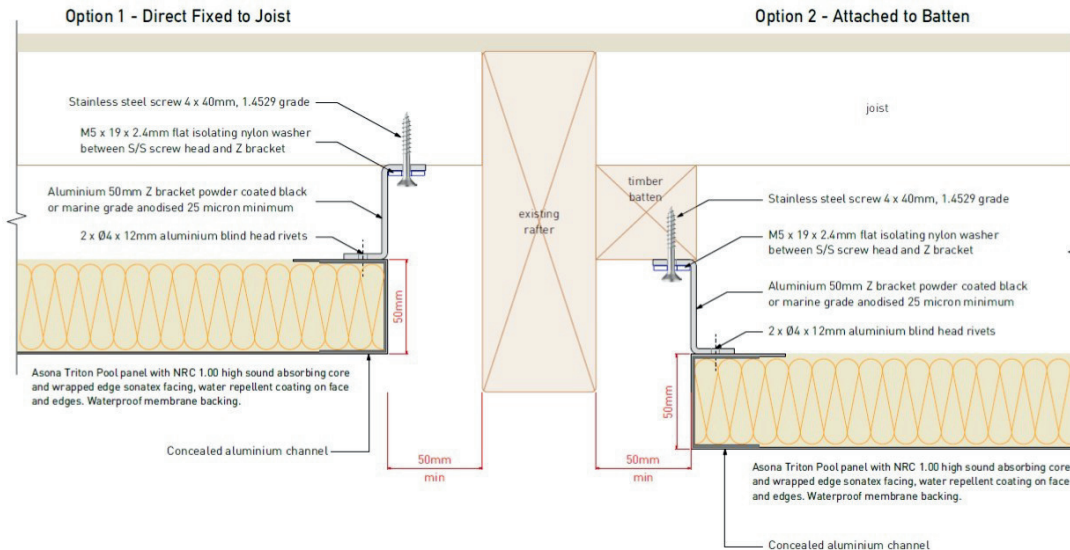
Limitations:

- 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.
- 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 Options (Direct Fixed):



Specification:

Acoustical treatment shall be Triton Pool™ panel from a glass fibre core, concealed aluminium frame 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, αW 1.0, NRC 1.00, Fire Group: 1-S, colour (white) (other). Mount panels to structure via proprietary (anodized) (powder coated) aluminium 50mm direct-fix Z 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 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 Triton Pool 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. * Under test (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 on 50mm direct fix brackets at centres to suit span (max 2400mm). 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.