

triton 50TM

HIGH SOUND ABSORBING CEILING PANEL



TECHNICAL DATA SHEET



triton 50™

High Sound Absorbing Ceiling Panel - NRC 1.00,
CAC 30

Technical Data Sheet - BPIR Class 1

Triton 50™ is a made in NZ high sound absorbing ceiling panel that is designed to control unwanted noise reverberation. Panels are available in sizes up to 1200 x 2400 mm and in a wide range of decorative acoustic finishes, colours, wood prints and perforated laminate designs. High NRC and CAC 30 for combined acoustic performance.

Application

Triton 50™ is an ideal retrofit acoustic panel for classrooms, offices, community halls when applied directly over plasterboard in large sheets or as a suspended grid and panel ceiling.

Composition

Manufactured from 48 kg/m³ bio-soluble glass wool, tissue backed, 320 gsm Sonatex™ / Sonaris™ acoustic laminate finish.

Features & Benefits

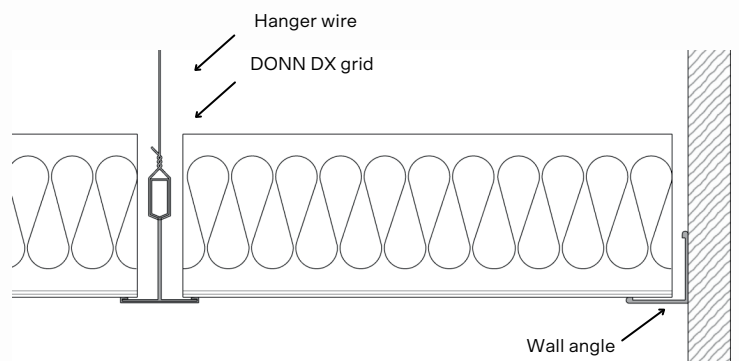
- NRC 1.00, 50 mm thick panel provides superior sound absorption at low to high frequencies in either direct fix over plasterboard or as a suspended ceiling.
- CAC 30 as standard.
- **Ministry of Education DQLS V3.1 2024 compliant solution.**
- Large panels up to 1200 x 2400 (direct fix only) provide for a cleaner look with fewer panel joins compared to standard 600 x 1200 size.
- Fire Group 1-S.
- Broad range of Sonatex™ and Sonaris™ decorative acoustic laminate finishes for design flexibility.
- Panels available with temporary protective foil covering to keep the panels clean during installation. Ideal for service panels.
- Custom size border panels help give perimeters a cleaner look.
- Made in NZ, short lead times including replacement parts.
- Packaging take back and reuse scheme available (NZ only).
- Product stewardship Renew and Reuse program.
- Durable and dimensionally stable in high humidity.
- GreenTag certified Level A, low VOC, core contains 80% recycled post consumer waste glass.
- Light weight for seismic areas, easy to work and trim.



Photo: Triton 50, 2400 x 1200 panels direct fixed over plasterboard lining in retro fit of existing classroom.



Technical Drawing



Detail: Triton 50 ceiling tile suspended on Rondo Donn DX Grid

ISO 9001:2015 Registered Firm No. NZ1014

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Ref. Triton 50-25.05

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Technical Specifications:

| Item # | Size (nominal)* | Edge |
|-----------|---------------------|------------|
| TR50.0606 | 50 x 600 x 600 mm | A / Square |
| TR50.0612 | 50 x 600 x 1200 mm | A / Square |
| TR50.0624 | 50 x 600 x 2400 mm | A / Square |
| TR50.1212 | 50 x 1200 x 1200 mm | A / Square |
| TR50.1224 | 50 x 1200 x 2400 mm | A / Square |

* Custom sizes available, width 300—1200 mm, length 400—2400 mm, consult Asona.

Sound Absorbtion Rating:

Standard density Test reports T0601-2, αW 1.0 per ISO 354; NRC 1.05 per ASTM C423 E-200 mount. T0601-5 αW 1.0 NRC 0.95 A mount

| Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 |
|---------|------|------|------|------|------|------|
| αp E200 | 0.70 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 |
| αp A | 0.25 | 0.85 | 1.00 | 1.00 | 0.95 | 0.85 |

Ceiling Attenuation Class:

CAC 30, DncW 30,Test report UC454.

| Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 |
|----|-----|-----|-----|------|------|------|
| dB | 15 | 19 | 26 | 33 | 38 | 45 |

Environmental Impact:

Global GreenTag Certified, Class A, from 80% recycled local glass waste, low VOC <0.005 Mg/M²/hr per ASTM D5116.
Packaging return, panel recycle and renew programs.

Laminate Finishes:

Panels are available in standard Sonatex™ white, black, grey and a range of wood prints, RAL colours and Sonaris™ perforated laminate finishes. Refer to online Sonatex™ and Sonaris™ finishes charts for colour and size options.

Light Reflectance Value:

85% per BS8493:2008, 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 max. 1.5kg/m², point loads to be independently supported.

Maintenance:

Clean with a 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 ceiling tiles 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.
- B2 Fire – Clause C/AS2 3.4(a): Asona Triton 50 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:

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

Renew & Reuse Program:

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

Service Panel Protection:

Panels are available with strippable protective film covering to help keep panels cleaning during the construction phase.

Stewardship:

Register the ceiling installation on practical completion with Asona Renew and Reuse program.

Thermal Resistance:

R 1.47 m²°C/W

Tolerances:

Width and length +/- 2 mm

Warranty:

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

Weight:

2.7 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Light fittings shall be independently supported, use hold down clips in areas of wind uplift. For suspended ceilings it is recommended that air grilles be installed to balance air pressure differentials. Not for air return plenums. Use Donn DX1W T38 wide faced grid for large module panels (600 x 2400mm, 1200 x 1200mm), 1200 x 2400 mm panels are designed for direct fixing application under solid lining. For walls, fit panels above wainscot height to prevent damage from knocks and bumps. Follow industry standard installation methods for two way exposed ceiling systems, for seismic design please consult a structural engineer.

Specification:

Ceiling system shall be Asona Triton 50 high sound absorbing ceiling as manufactured by Asona Ltd Auckland NZ Tel: +64(0)9 525 6575 info@asona.co.nz.
Selected panel shall be item # (), size 50 x () x ()mm, square edge with Sonatex™ decorative laminate finish (white) (black) (RAL colour #__) (wood-look print) (Sonaris™ perforated pattern#__), sound absorption Class A, αW 1.00, NRC 1.00, CAC 30), Fire Group 1-S. Suspension system shall be Rondo Donn (DX) (DX1W wide faced) two way exposed grid system with 19 x 22 mm wall angle, grid colour (white) (black). 1200 x 2400mm panel shall be direct fixed. (Supply service panels with protective removable foil). 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] or 5172AA [acoustic linings] specifications available).

