

Triton 50™ - NRC 1.00, CAC 30

High Sound Absorbing Ceiling Panel

Technical Data Sheet—BPIR Class 1



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

Description.

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.

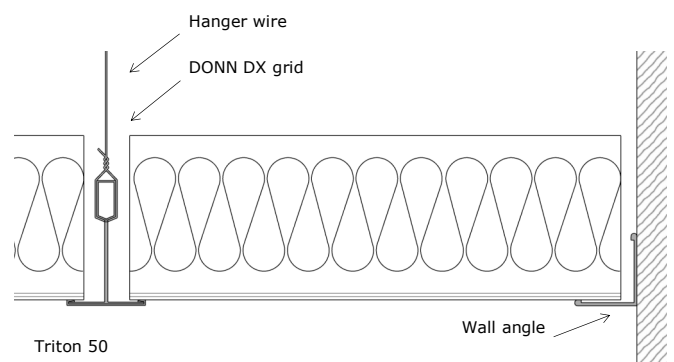
Triton 50™ is an ideal retrofit acoustic panel for classrooms, offices, community halls when applied directly over plasterboard in large sheets or as a suspended grid and panel ceiling.

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 noise block rating
- **Ministry of Education DQLS V3.1 2024 approved solution.**
- Large panels up to 1200 x 2400 provide for a cleaner look with fewer panel joints 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.



Detail: Triton 50 ceiling tiles suspended on Rondo Donn® DX Grid

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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 Absorption Rating: Standard density Test reports T0601-2, α_W 1.0 per ISO 354; NRC 1.05 per ASTM C423 E-200 mount. T0601-5 α_W 1.0 NRC 0.95 A mount | | | | | | |
|--|------|------|------|------|------|------|
| Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 |
| α_p E200 | 0.70 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 |
| α_p 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.
- C3 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: (NZ only)

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

Renew & Reuse Stewardship 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. Register on practical completion.

Service Panel Protection:

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

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 watertight and dry. This product is designed to be mounted into a two-way exposed grid system and installed to manufacturer's and AS/NZS 2785:2020 Standard's requirements. Seismic design may require a suitably qualified engineer. Hold down clips may be required in areas of wind uplift, and/or air grilles used to balance air pressure. Use Donn DX1W T38 wide faced grid for large module panels (600 x 2400mm, 1200 x 1200mm). 1200 x 2400 mm panels designed for direct fixing application under solid lining. For walls, fit panels above wainscot height to prevent damage from knocks and bumps. Care shall be taken when handling tiles to avoid damage.

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, α_W 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).

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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Triton 50-24.6

