triton 50™

HIGH SOUND ABSORBING CEILING PANEL

TECHNICAL DATA SHEET

Acoustic Ceiling and Wall Solutions

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. Triton panels are available in a wide range of sizes and decorative colours, wood prints, perforated acoustic patterns and Hygiene laminates for design freedom. High NRC and CAC 30 for combined acoustic performance.

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

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.

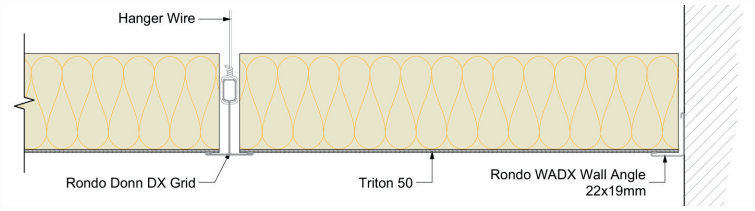
Composition

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.
- Global GreenTag certified Level A, low VOC, core contains 80% recycled post consumer waste glass.
- Light weight for seismic areas, easy to work and trim.
- Optional Sonatex Hygiene laminate facing.

Technical Drawing



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

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*All dimensions are nominal. We reserve the right to change specifications.

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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.
Also available with Sonatex Hygiene laminate facing.

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 4.12.1: Asona Triton 50 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)

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 and installed in Rondo Donn DX® exposed grid systems supplied by Asona.

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 Rondo Donn DX®, or 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#__), (Sonatex Hygiene laminate), 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).

NEW ZEALAND MADE

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Sonatex™ - Acoustic Laminate Shades and Prints and LPL Finishes

Sonatex White to Black *

High NRC finish

A180 Standard White

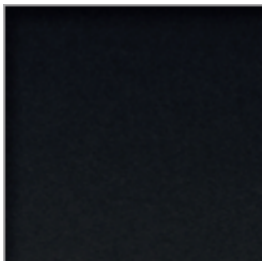
Hygiene Facing (not for Sonaris)

RAL 9002 White Grey

RAL 7040 Light Cool Grey

RAL 7030 Mid Warm Grey

RAL 7045 Mid Cool Grey



RAL 9011 Black

Colour options available *

Sonatex Wood Prints *

High NRC finish

(Roto gravure print on Sonatex, not to scale)

Wood print RAL 1013

Wood print RAL 1001 (TON 1127)

Wood print RAL 8019

Low Pressure Laminates

Woodlook *

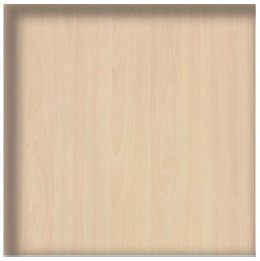
Reduced NRC performance unless perforated

LPL Kopenhagen

LPL Bleached Maple

LPL Tasmanian Oak

LPL Walnut



LPL Blond Maple

Contact Asona for samples:
Email: info@asona.co.nz
Phone: +64 (0) 9 525 6575

* Asona Sonatex is colour matched to the RAL Classic K7 range colours standard. The colour accuracy of this swatch card is dependent on your viewing screen and/or printer used. Digital print designs and custom colours are available to order, minimum quantity and lead times apply.

ISO 9001:2015 Registered Firm No. NZ1014
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Ref. Finishes-25.11

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