triton 100™

THERMAL AND ACOUSTIC CEILING PANEL

TECHNICAL DATA SHEET - BPIR CLASS 1

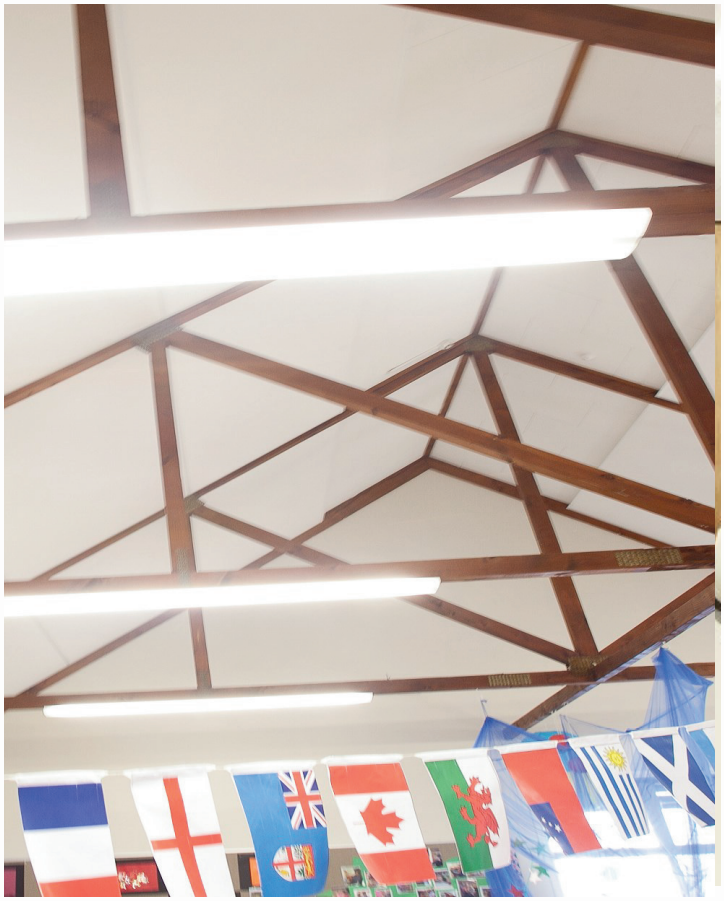
Acoustic Ceiling and Wall Solutions

triton 100™

Thermal and Acoustic Ceiling Panel - NRC 1.05, R3.0

Technical Data Sheet - BPIR Class 1

Triton 100™ is a made in NZ 100 mm thick high sound absorbing and thermal insulating ceiling panel. Triton panels are available in a wide range of sizes and decorative colours, wood prints, perforated acoustic patterns and Hygiene laminates for design freedom. Triton 100™ is designed to provide R3.0 thermal insulation and exceptional low, mid and high frequency sound absorption.



Application

Triton 100™ is ideal for thermal and acoustic upgrade of class rooms, halls & applications that require control of low frequency reverberation such as music rooms, recording studios, audiology testing rooms.

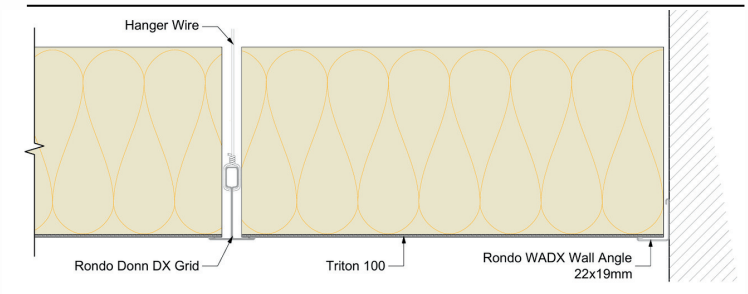
Composition

Manufactured in NZ from 48 kg/m³ bio-soluble glass wool absorber, 320 gsm Sonatex™ acoustic laminate finish.

Features & Benefits

- 100 mm thick for effective broad band sound absorption especially at low frequency, NRC 1.05, ISO class A, αW 1.0.
- R3.0 thermal insulation, ideal for building upgrades.
- Fire Group 1-S.
- Broad range of plain Sonatex™ acoustic laminate finishes for design flexibility.
- Made in NZ for short lead times including replacement parts.
- Product stewardship Renew and Reuse program available.
- Packaging take back and reuse scheme available (NZ only).
- GreenTag Certified Level A, low VOC, core contains 80% recycled post consumer waste glass.
- Durable and dimensionally stable in high humidity.
- Light weight for seismic, easy to work and trim.
- Large panels 2400 x 1200 mm, direct fix with frame.
- Optional Sonatex Hygiene laminate facing.

Technical Drawing



Detail: Triton 100 ceiling tile suspended on Rondo Donn DX® Grid

ISO 9001:2015 Registered Firm No. NZ1014
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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Triton 100-26.08

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Technical Specifications:

Item #	Size (nominal)*	Edge
TR100.0612	100x 600 x 1200 mm	A / Square
TR100.1212	100 x 1200 x 1200 mm	A / Square
TR100.1224	100 x 1200 x 2400 mm	A / Square

* Other sizes to order, width 300—1200 mm, length 400—2400 mm

Sound Absorbtion Rating:
Class A, αW 1.0 per ISO 11654;
ISO 354 E-200 method; NRC 1.05 per ASTM C423

Hz	125	250	500	1000	2000	4000
αp E200	1.00	1.00	1.00	1.00	1.00	1.00
αp A	0.90	1.00	1.00	1.00	1.00	1.00

Accessibility:
All panels are removable and accessible when suspended.

Environmental Impact:
GreenTag certified level A, contains 80% recycled content, product and packaging can be recycled in NZ. Low VOC.

Laminate Finishes:
Triton 100™ is available in standard Sonatex™ white, black, colours and wood prints laminate. Refer online Sonatex™ colour chart for selections. 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 soiled 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 100 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: (NZ only)
Flat pack cartons on site and return to Asona for reuse.

Renew & Reuse Stewardship Program:
Soiled or damaged panels can be resurfaced 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 clean during the construction phase.

Thermal Resistance:
R3.0 m²°C/W

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:
5.1 kg/m²

Installation:
Shall not commence until the building is watertight and dry. This product is designed to be mounted into a Rondo Donn DX® 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 (1200 x 1200mm). 1200 x 2400 mm panels designed for direct fixing application with cover battens to joins under solid lining. Care shall be taken when handling tiles to avoid damage.

Specification:
Ceiling system shall be Asona Triton 100™ 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 100 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 1.05, Fire Group 1-S. Suspension system for 600 x 1200mm and 1200 x 1200mm panels shall be Rondo Donn DX® two way exposed grid system, grid colour (white) (black). 1200 x 2400mm panels direct fix with cover battens over joins. 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

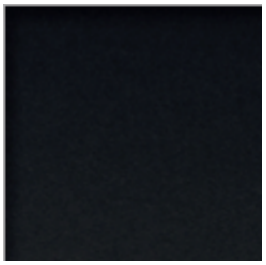
Hygiene Facing (not for Sonaris)

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 *

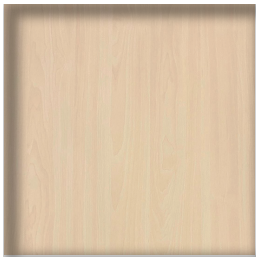
Reduced NRC performance unless perforated

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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