triton 100™

THERMAL AND ACOUSTIC CEILING PANEL

TECHNICAL DATA SHEET - BPIR CLASS 1

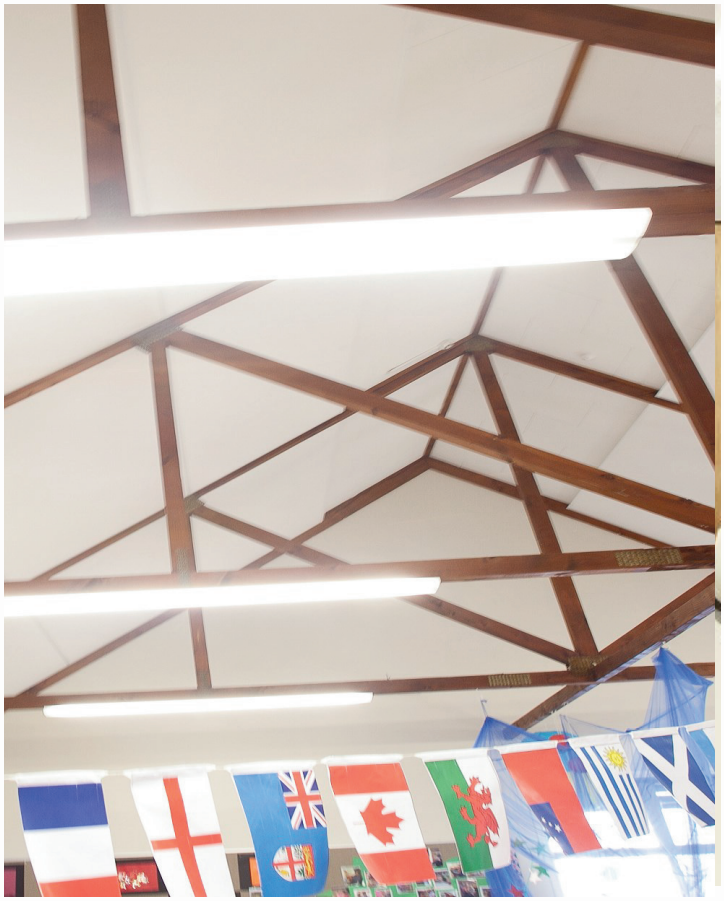
Acoustic Ceiling and Wall Solutions

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. Panels are available in a wide range of decorative finishes and are 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).
- Contains 80% recycled glass waste, low VOC.
- GreenTag certified, class A.
- 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.

ISO 9001:2015 Registered Firm No. NZ1014

Ref. Triton 100-25.05

Asona Ltd. Office & Factory
6 Mahunga Drive, Mängere
Bridge, Auckland 2022
New Zealand
NZBN: 9429036035175

New Zealand
T: +64(0)9 525 6575
E: info@asona.co.nz
W: www.asona.co.nz

Australia
T: 1 800 240361
E: info@asona.com.au
W: www.asona.com.au

asona

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.

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 3.4(a): Asona Triton 100 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 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 defect, extendable to 30 years when registered for Asona's Renew and Reuse program.

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 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#__), 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).

Asona Ltd. Office & Factory
6 Mahunga Drive, Mängere
Bridge, Auckland 2022
New Zealand
NZBN: 9429036035175

New Zealand
T: +64(0)9 525 6575
E: info@asona.co.nz
W: www.asona.co.nz

Australia
T: 1 800 240361
E: info@asona.com.au
W: www.asona.com.au