

Triton 100 - NRC 1.05, R3.0

Thermal and Acoustic Ceiling Panel

Technical Data Sheet



asona

Description.

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.

Benefits.

- 100 mm thick for effective broad band sound absorption especially at low frequency, NRC 1.05, ISO class A, α_W 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.

Technical Specifications

Item #	Size (nominal)*	Edge
TR100.0612	100 x 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 Absorption Rating:						
Class A, α_W 1.0 per ISO 11654; ISO 354 E-200 method; NRC 1.05 per ASTM C423						
Hz	125	250	500	1000	2000	4000
α_p E200	1.00	1.00	1.00	1.00	1.00	1.00
α_p A	0.90	1.00	1.00	1.00	1.00	1.00

Accessibility:

All panels are removable and accessible when suspended

Back Loading:

Max. 1.5 kg/m², point loads shall be independently supported

Environmental Impact:

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

Fire Reaction:

NZBC verification method C/VM2 material Group 1-S
NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1

Humidity:

Max 99% R/H at 45°C.

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



Maintenance:

Clean with a vacuum, soft brush or damp cloth. Re-surfacing of soiled panels available, consult Asona.

NZ Building Code:

Clause B2—durability, 5 years

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 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 clean during the construction phase.

Stewardship Program:

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

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 water tight and dry. M/E services shall be independently supported. Not for air return plenums. 1200 x 2400 mm panels designed for direct fixing with cover battens to joints.

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, α_W 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 joints. 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 specification available).

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*All dimensions are nominal. We reserve the right to change specifications.
Ref. Triton 100-22-01