

Triton 50™ & 50HD™ - NRC 1.00

High Sound Absorbing Ceiling Panel

Technical Data Sheet



asona



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. Choice of two core densities for CAC 30 or CAC 35 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.

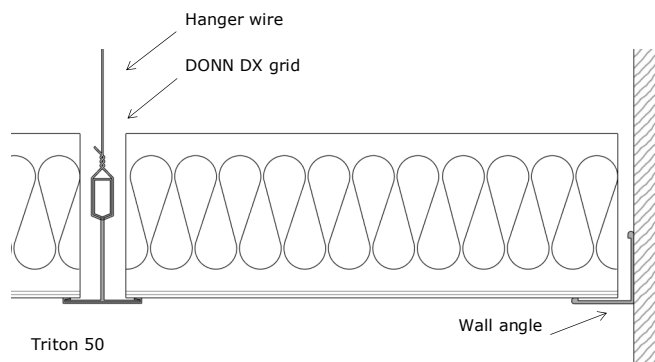
Composition.

Manufactured from 48 kg/m³ and 96 kg/m³ bio-soluble glass wool, tissue backed, 320 gsm Sonatex™ / Sonaris™ acoustic laminate finish.

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, CAC 35 with 50HD high density core option.
- 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.

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



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

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

Triton 50™ & 50HD™ - NRC 1.00

High Sound Absorbing Ceiling Panel

Technical Data Sheet



asona

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
TR50.HD.0606	50 x 600 x 600 mm	A / Square
TR50.HD.0612	50 x 600 x 1200 mm	A / Square
TR50.HD.0624	50 x 600 x 2400 mm	A / Square
TR50.HD.1212	50 x 1200 x 1200 mm	A / Square

Note: 'HD' in item code denotes high density core, 5.1 kg/m², CAC 35 performance. Please include the item code of the selected item in the project specification doc. 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 1.00 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

Sound Absorption Rating: 'HD' high density
ISO 354 E-200 α_w 1.0; NRC 0.95 per ASTM C423, T1708-13b

α_p E200	0.65	0.90	0.90	1.00	1.00	1.00
-----------------	------	------	------	------	------	------

Ceiling Attenuation Class: Standard CAC 30, DncW 30, 'HD' CAC 35, DncW 35. Test reports UC454, 430.

Hz	125	250	500	1000	2000	4000
Std dB	15	19	26	33	38	45
'HD' dB	27	25	30	42	52	64

Back Loading:

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

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

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:

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

Maintenance:

Clean with a vacuum, soft brush or damp cloth. Re-surfacing of damaged 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 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.

Weight:

Standard: 2.7 kg/m², 'HD' high density core: 5.1 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. 1200 x 2400 mm panels designed for direct fixing application under solid lining. Use Donn DX1W T38 wide faced grid for large module panels (600 x 2400mm, 1200 x 1200mm). For walls, fit panels above wainscot height to prevent damage from knocks and bumps.

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 0.95-1.00, CAC (30) (35), 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 specification available).

Asona Ltd

Office and Factory:
Units 12-16, 7 Cain Road
Penrose, Auckland 1061,
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

ISO 9001:2015 Registered Firm No. NZ1014

© 2022 Copyright ASONA Ltd. Asona, Triton 50, Sonatex, Sonaris are trade marks of Asona Ltd. Rondo Donn DX and DX1W are trade marks of Rondo Building Services Pty Ltd. *All dimensions are nominal. We reserve the right to change specifications. Ref. Triton 50-22-01