

triton 50hd™

HIGH SOUND ABSORBING CEILING PANEL



TECHNICAL DATA SHEET BPIR - CLASS 1



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High Sound Absorbing Ceiling Panel - NRC 0.95 CAC 35

Technical Data Sheet - BPIR Class 1

Triton 50HD™ is a made in NZ high sound absorbing ceiling panel that is designed to control unwanted noise reverberation and with a HD core for attenuation of plenum noise and room to room noise. Panels are available in standard and large sizes and in a wide range of decorative acoustic finishes, colours, wood prints and perforated laminate designs. High NRC and CAC 35 for combined acoustic performance.

Application

Triton 50HD™ 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 96 kg/m³ bio-soluble glass wool, tissue backed, 320 gsm Sonatex™ / Sonaris™ acoustic laminate finish.

Features & Benefits

- NRC 0.95, 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 35 as standard.
- Large panels up to 1200 x 1200 or 600 x 2400 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.
- GreenTag certified Level A, low VOC, core contains 80% recycled post consumer waste glass.
- Light weight for seismic areas, easy to work and trim.

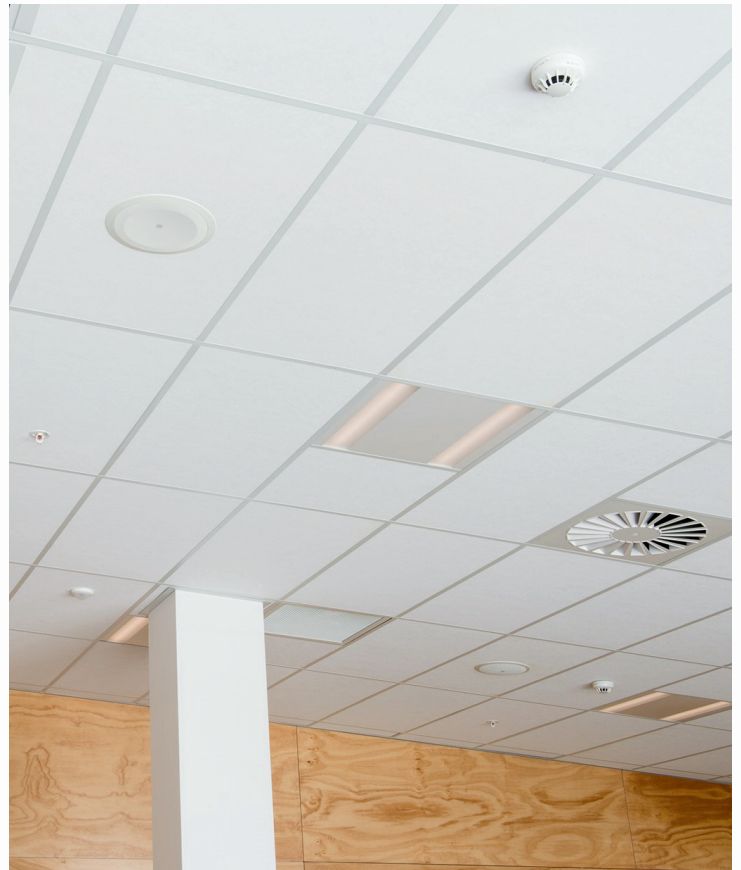
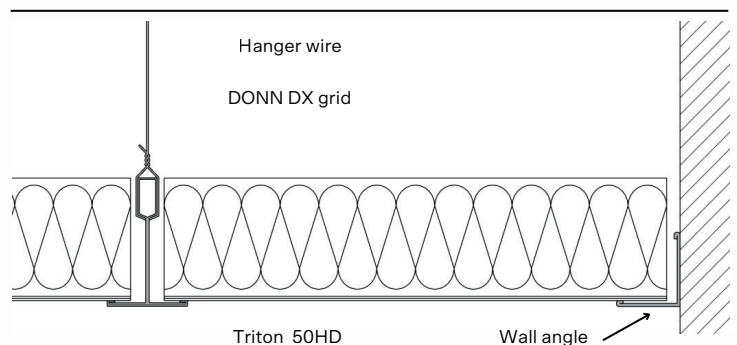


Photo: Triton 50HD, 600 x 1200 panels in Rondo Donn® grid



Technical Drawing



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

Technical Specifications:

Item #	Size (nominal)*	Edge
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

*Custom sizes available, width 300—1200 mm, length 400—2400 mm, consult Asona.

Sound Absorbtion Rating:

ISO 354 E-200 αW 1.0; NRC 0.95 per ASTM C423, T1708-13b

Hz	125	250	500	1000	2000	4000
αp E-200	0.65	0.90	0.90	1.00	1.00	1.00

Ceiling Attenuation Class:

CAC 35, DncW 35. Test report UC430.

Hz	125	250	500	1000	2000	4000
dB	27	25	30	42	52	64

Environmental Impact:

Global GreenTag Certified, Level A, 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.

Light Reflectance Value:

85% per BS8493:2008, White

Limitations:

- For interior use only, and not in direct contact with water.
- Maximum humidity/temperature 99% R/H at 45°C.
- Back loading max. 1.5kg/m², point loads to be independently supported.
- May be used for negative air return plenums however careful design and installation is required. Consult your HVAC or Mechanical Engineer prior to install.

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 3.4(a): Asona Triton 50HD 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:

Flat pack cartons on site and return to Asona for reuse.

Renew & Reuse Stewardship 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. Register on practical completion.



Service Panel Protection:

Panels are available with strippable protective film covering to help keep panels cleaning during the construction phase.

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:

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 (600 x 2400mm, 1200 x 1200mm). For walls, fit panels above wainscot height to prevent damage from knocks and bumps. Care shall be taken when handling tiles to avoid damage.

Specification:

Ceiling system shall be Asona Triton 50HD 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, αW 1.00, NRC 0.95, CAC 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)). (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 specification available).

