

triton 75TM

THERMAL AND ACOUSTIC CEILING PANEL



TECHNICAL DATA SHEET - BPIR CLASS 1



triton 75TM

Thermal and Acoustic Ceiling Panel - NRC 1.05, R2.2

Technical Data Sheet - BPIR Class 1

Triton 75TM is a made in NZ 75 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 75TM is designed to provide R2.2 thermal insulation and exceptional low, mid and high frequency sound absorption.

Application

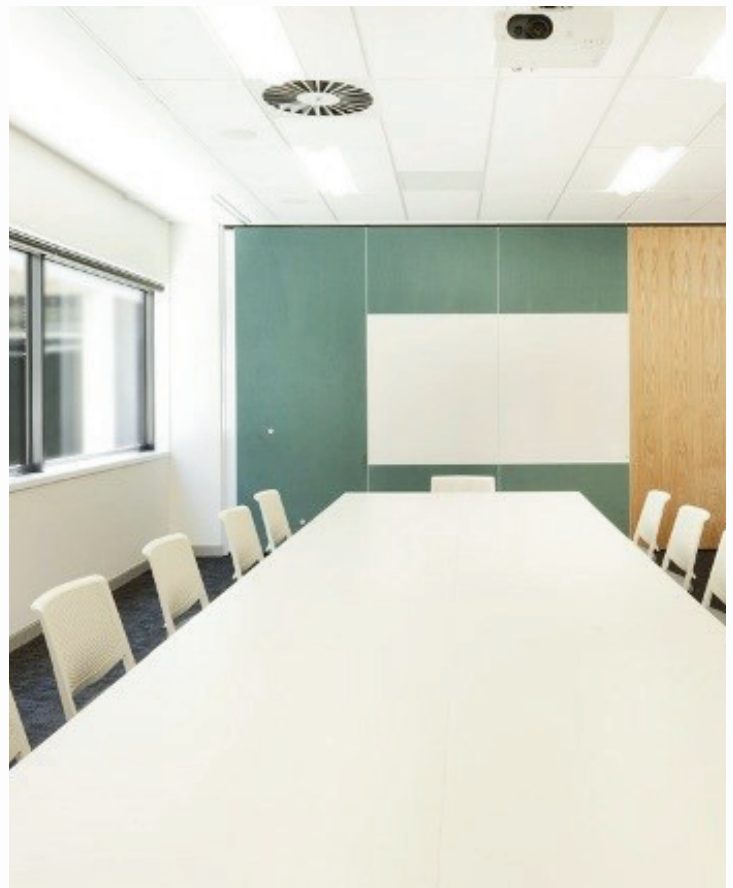
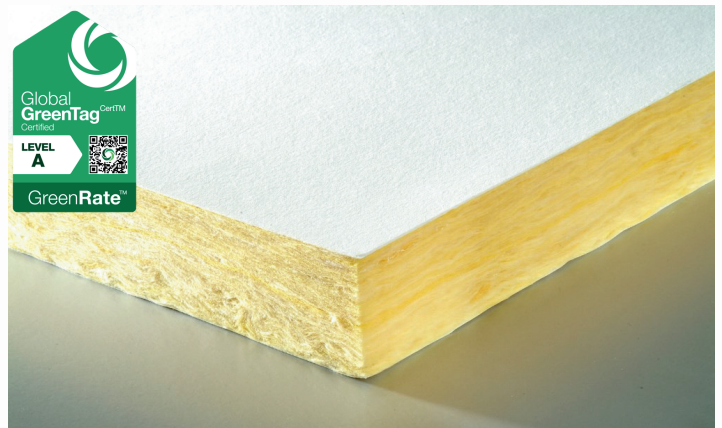
Triton 75TM is ideal for thermal and acoustic upgrade of class rooms, halls and applications that require control of low frequency reverberation such as music rooms, recording studios, audiology testing rooms.

Composition

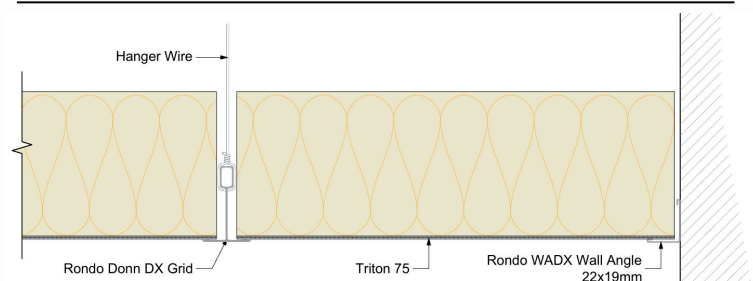
Manufactured from 48 kg/m³ bio-soluble glass wool absorber, 320 gsm SonatexTM / SonarisTM laminate finish. Made in NZ.

Features & Benefits

- 75 mm thick for ultra high sound absorption especially at low frequency, NRC 1.05, ISO class A, αW 1.0.
- R2.2 thermal insulation rating, ideal for retrofits.
- Fire Group 1-S.
- Broad range of plain SonatexTM and perforated SonarisTM 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.
- Global GreenTag certified, Level 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.
- Optional Sonatex Hygiene laminate facing.



Technical Drawing



Detail: Triton 75 ceiling tile suspended on Rondo Donn DX[®] Grid

Technical Specifications:

Item #	Size (nominal)*	Edge
TR75.0612	75x 600 x 1200 mm	A / Square
TR75.1212	75 x 1200 x 1200 mm	A / Square
TR75.1224	75 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; Test report T0405-06
ISO 354 E-200 method; NRC 1.05 per ASTM C423

Hz	125	250	500	1000	2000	4000
αp E200	0.80	1.00	1.00	1.00	1.00	1.00
αp A	0.60	1.00	1.00	1.00	1.00	1.00

Environmental Impact:

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

Laminate Finishes:

Triton 75™ is available in standard Sonatex™ white, black, colours and wood prints and Sonaris™ perforated laminate Refer online Sonatex™ and Sonaris™ charts for colour and size options.
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 75 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 removable protective foil covering to help keep panels cleaning during the construction phase.

Thermal Resistance:

R2.2 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:

3.9 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 75™ acoustic ceiling as manufactured by Asona Ltd Auckland NZ Tel: +64(0)9 525 6575 info@asona.co.nz. Selected panel shall be item # (), size 75 x () x ()mm, square edge with Sonatex™ finish(white) (black) (RAL colour #) (wood-look print) (Sonaris™ perforated pattern #), (Sonatex Hygiene laminate), αW 1.00, NRC 1.05, Fire Group 1-S. Suspension system shall be Rondo Donn DX® two way exposed grid system for 600 x 1200mm panels and Rondo Donn® DX1W 38mm wide faced grid for 1200 x 1200mm panels grid colour (white) (black). 1200 x 2400mm panels direct fix with cover battens over joins. (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 [grid & tile] or 5172AA [acoustic linings] specifications available).



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



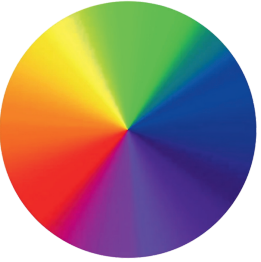
RAL 7030 Mid Warm Grey



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 Copenhagen



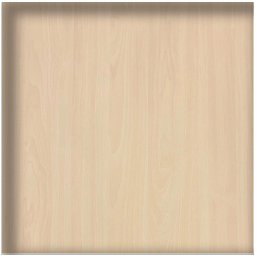
LPL Bleached Maple



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.