triton trio 85™

COMPOSITE ABSORBER/ATTENUATOR CEILING PANEL

TECHNICAL DATA SHEET BPIR - CLASS 1

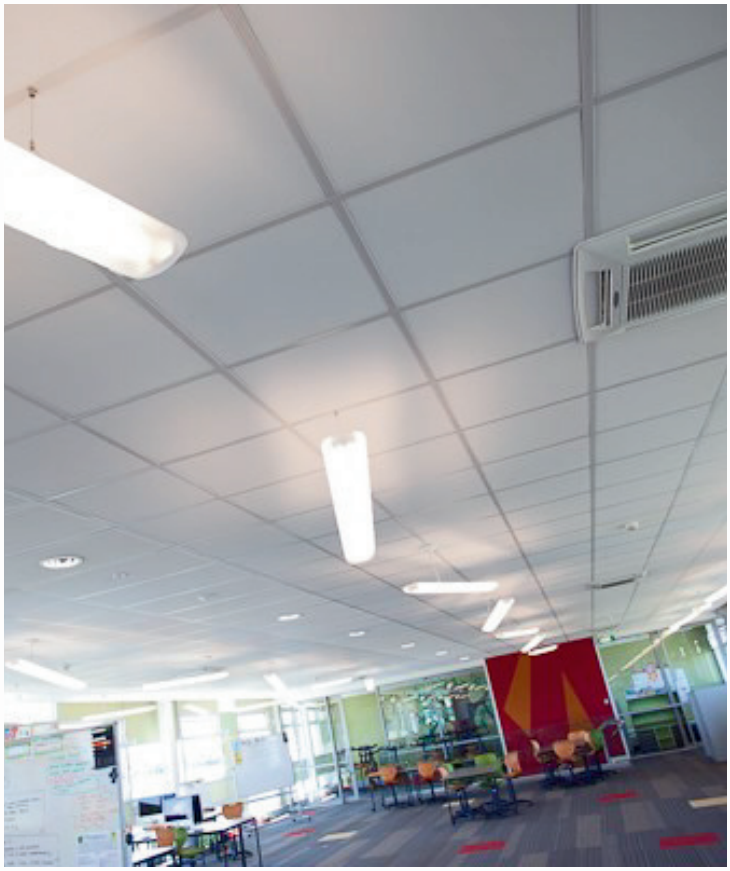
Acoustic Ceiling and Wall Solutions

triton trio 85™

Composite Absorber/Attenuator Ceiling Panel - NRC 0.95, CAC 48, STC 23

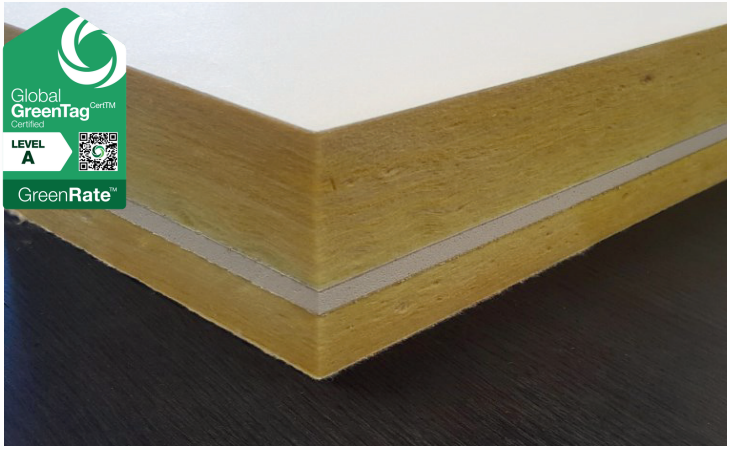
Technical Data Sheet - BPIR Class 1

Triton Trio 85™ is a proprietary 85 mm thick 3 layer high performance composite acoustic ceiling panel designed to attenuate airborne noise transmission through the ceiling and control plenum and room reverberation. Triton Trio 85 is fully accessible, lays into standard exposed grid system and comes in a wide range of sizes and decorative colours, wood prints, perforated acoustic patterns and Hygiene laminates for design freedom.



Application

Triton Trio 85™ is ideally suited to attenuate noise below plenum mounted mechanical services as well as closed plan offices with high room to room privacy requirements and partitions terminating at the ceiling level.



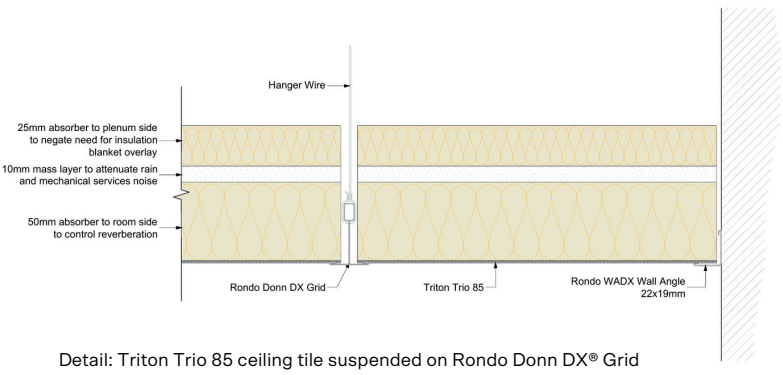
Composition

Manufactured in NZ from 50 mm glass fibre board with a Sonatex™ facing and a high mass plasterboard attenuator core with 25mm glass fibre board back.

Features & Benefits

- Unique 3 layer construction with 50 mm room side absorber, high mass gypsum core and 25 mm plenum side absorber provides NRC 0.95, CAC 48 and STC 23.
- Fire Group 1-S.
- Global GreenTag Certified, Level A.
- Built in plenum absorption eliminates the need for separate acoustic insulation overlay blanket saving on costs and construction time.
- Wide range of decorative acoustic laminate finishes for design flexibility.
- Product stewardship renew and reuse program.
- Made in NZ, short lead times including replacement parts.
- Optional Sonatex Hygiene laminate facing.

Technical Drawing



Detail: Triton Trio 85 ceiling tile suspended on Rondo Donn DX® Grid

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*All dimensions are nominal. We reserve the right to change specifications.

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
TT85.0606	85 x 600 x 600 mm	A / Square
TT85.0612	85 x 600 x 1200 mm	A / Square

Practical Sound Absorption Rating:
Class A ∂W 1.0 ISO 354; NRC 0.95 ASTM C423, E-200 Test report: T17711-1

size	Hz	125	250	500	1000	2000	4000
85mm	αp	0.70	0.70	1.00	1.00	1.00	1.00

Airborne Sound Reduction:
ISO143 Rw 23 dB, STC 23 dB per ASTM E413-87 Test report T1711-13

size	Hz	125	250	500	1000	2000	4000
85mm	αp	11.7	12.3	18.7	25.8	31.9	38.9

Ceiling Attenuation:
Class A, ISO 717-1.2000, ASTM E413-10, CAC 48, Test report: 432

Hz	125	250	500	1000	2000	4000
Attenuation	31	36	45	55	60	66

Accessibility:
All panels are demountable and accessible.

Environmental Impact:
Made in NZ, contains 80% recycled content, low embodied energy.
Packaging return, panel renew and reuse programs.
VOC <0.002 Mg/M²/hr per ASTM D5116

Laminate Finishes:
Triton Trio 85™ is available in standard white, black, grey and a range of Sonatex™ RAL colours and prints plus our patented Sonaris perforated laminate finishes. Refer to online Sonatex / Sonaris finishes charts.
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 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 4.12.1: Asona Triton Trio 85 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.

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 temporary removable protective foil covering to keep panels clean during construction.

Thermal Resistance:
R 2.0 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: (11.9 kg/m²)
4.2 kg per 593 x 593mm & 293 x 1193mm panels.
8.42 kg per 593 x 1193 mm panel, requires PS1 seismic design to ULS.

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. Care shall be taken when handling tiles to avoid damage.

Specification:
Ceiling shall be Triton Trio 85™ composite absorber and attenuator acoustical ceiling tile manufactured by Asona Ltd Tel: 09 525 6575, info@asona.co.nz, item # (_), size 85 x (_) x (_)mm, square edge with Sonatex™ finish (white) (black) (RAL colour #__) (wood-look print) (Sonaris™ perforated pattern#_), (Sonatex Hygiene laminate), sound absorption class A, ∂W 1.0, NRC 95, CAC 48, STC 23, thermal insulation R2.0, Fire Group 1-S, colour white, Rondo Donn DX® two way exposed suspension system. 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).

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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
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E: info@asona.com.au
W: www.asona.com.au

Sonatex™ - Acoustic Laminate Shades and Prints and LPL Finishes

Sonatex White to Black *

High NRC finish

A180 Standard White

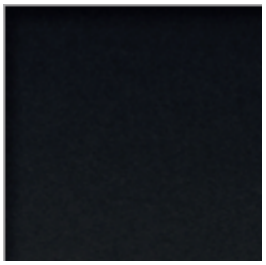
Hygiene Facing (not for Sonaris)

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 *

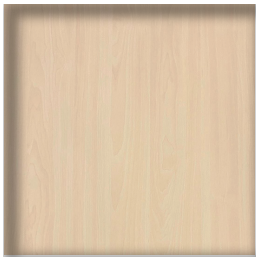
Reduced NRC performance unless perforated

LPL Kopenhagen

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.

ISO 9001:2015 Registered Firm No. NZ1014
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Ref. Finishes-25.11

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