

triton duo 35TM

COMPOSITE ABSORBER/ATTENUATOR CEILING PANEL



TECHNICAL DATA SHEET BPIR - CLASS 1



triton duo 35™

Composite Absorber/Attenuator Ceiling Panel - NRC 0.75 CAC 44

Technical Data Sheet - BPIR Class 1

Triton Duo 35™ is a made in NZ mass loaded 35 mm thick composite ceiling panel designed to provide high attenuation of transmitted noise plus absorption to control reverberation times. Triton panels are available in a wide range of sizes and decorative colours, wood prints, perforated acoustic patterns and Hygiene laminates for design freedom.

Application

Triton Duo 35™ is ideal for ceilings under metal roofs to control rain noise, mechanical service noise, buildings near aircraft flight paths, train lines or for private meeting room ceilings.

Composition

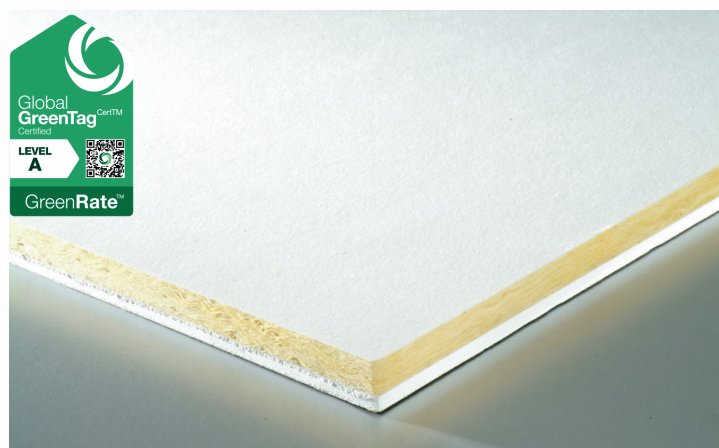
Manufactured in NZ from 25 mm 48 kg/m³ bio-soluble glass fibre core with a high mass 10mm plasterboard attenuator backer, 320 gsm Sonatex™ / Sonaris™ acoustic laminate finishes.

Features & Benefits

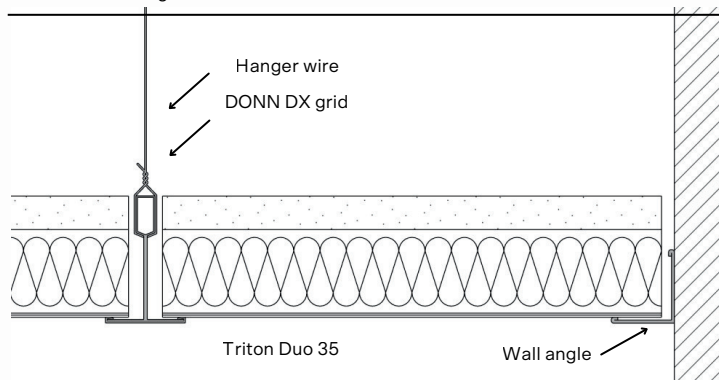
- High mass attenuator backer, STC 20 dB, CAC 44 for attenuation of transmitted noise. Ideal under metal roofs.
- Class C sound absorption, NRC 0.75, α_W 0.60 for control of background noise & reverberation times.
- Fire Group 1-S.
- Broad range of Sonatex™ and Sonaris™ perforated acoustic laminate finishes for design freedom.
- Service panels available to order with temporary foil overlay to protect service panel decorative finish during installation, remove prior to hand over.
- Made in NZ, short lead times including replacement parts.
- Packaging take back and reuse scheme available (NZ only).
- Product stewardship Renew and Reuse program.
- Global GreenTag Certified / Level A, low VOC, core contains 80% recycled post consumer waste glass.
- Durable and dimensionally stable in high humidity.
- Optional Sonatex Hygiene laminate facing.



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



Technical Drawing



Detail: Triton Duo 35 ceiling tile suspended on Rondo Donn DX Grid

Technical Specifications:

Item #	Size (nominal)*	Edge
TD35.0606	35 x 600 x 600 mm	A / Square
TD35.0612	35 x 600 x 1200 mm	A / Square

* Special sizes to order, consult Asona.

Sound Absorbtion Rating:

35mm—ðW 0.6 (MH); NRC 0.75 per ASTM C423, ISO 354 E-200, Test T0516-8

H _z	125	250	500	1000	2000	4000
α _p	0.35	0.30	0.65	1.00	1.00	1.00

Environmental Impact:

Global GreenTag Certified, Level A, contains 80% recycled glass waste, low VOC <0.005 Mg/M²/hr per ASTM D5116. Packaging return, panel Renew and Reuse programs.

Laminate Finishes:

Panels are available in standard Sonatex™ white, black, grey, wood prints, RAL colours and Sonaris™ perforated laminate finishes. Refer to online Sonatex™ and Sonaris™ finishes 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 vacuum, soft brush or damp cloth. Re-surfacing of 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 Duo 35 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.

Service Panel Protection:

Panels are available with removable protective foil covering to help keep panels clean during installation.

Thermal Resistance:

R 0.74 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®exposed grid systems supplied by Asona.

Weight:

5.9 kg per 1194 x 594 mm panel, 8.3 kg/m²

Installation:

Shall not commence until the building is watertight and dry. This product is designed to be mounted into a Rondo Donn® 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. Care shall be taken when handling tiles to avoid damage.

Specification:

Ceiling system shall be Asona Triton Duo 35 as manufactured by Asona Ltd Auckland NZ Tel: +64(0)9 525 6575 info@asona.co.nz. Selected panel shall be item # (), size 35 x 600 x ()mm, square edge with Sonatex™ finish (white) (black) (RAL colour #) (wood-look print) (Sonaris™ perforated pattern#), (Sonatex Hygiene laminate), NRC 0.75, CAC 44, Fire Group 1-S. Suspension shall be Rondo Donn® DX exposed grid. 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).



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



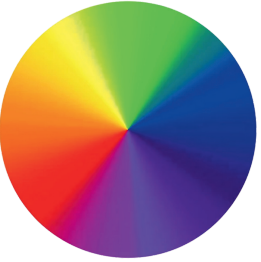
RAL 7030 Mid Warm Grey



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



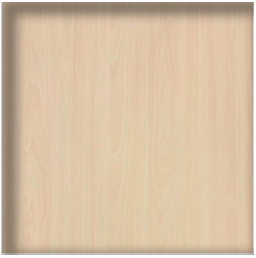
LPL Bleached Maple



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.