

# triton trio 85™

COMPOSITE ABSORBER/ATTENUATOR CEILING PANEL



TECHNICAL DATA SHEET    BPIR - CLASS 1



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## Composite Absorber/Attenuator Ceiling Panel - NRC 0.95, CAC 48, STC 25

### 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 range of decorative laminate finishes, colours, wood prints and perforated patterns.

#### Application

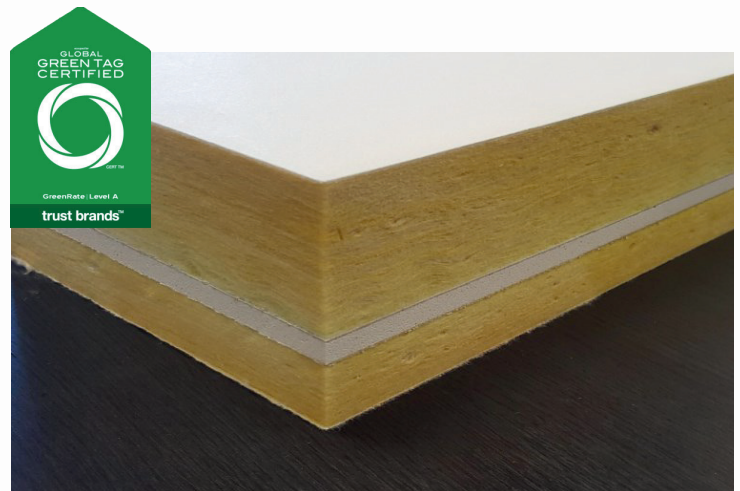
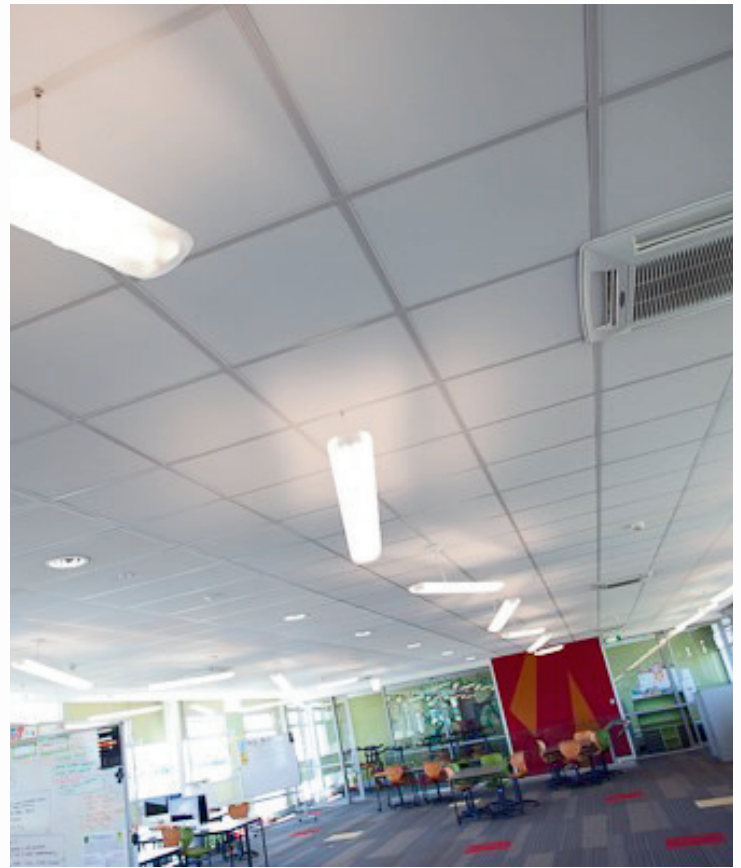
Triton Trio 85™ is ideally suited to attenuate noise below plenum mounted mechanical services as well as closed plan offices with high room to room privacy requirements and partitions terminating at the ceiling level.

#### Composition

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



**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  $\alpha$ 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	$\alpha$ p	0.70	0.70	1.00	1.00	1.00	1.00

**Airborne Sound Reduction:**

ISO143 Rw 25 dB, STC 25 dB per ASTM E413-87 Test report T0520-4

size	Hz	125	250	500	1000	2000	4000
85mm	$\alpha$ p	15	17.7	24.1	30.8	36.8	40

**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/M<sup>2</sup>/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.

**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/m<sup>2</sup>, 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 3.4(a): Asona Triton Trio 85 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.

**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 m<sup>2</sup>C/W

**Warranty:**

15 year limited warranty against manufacturing defects, extendable to 30 years when registered for Asona's Renew and Reuse program.

**Weight: (11.9 kg/m<sup>2</sup>)**

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 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# ) , sound absorption class A,  $\alpha$ W 1.0, NRC 95, CAC 48, STC 25, 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).



ISO 9001:2015 Registered Firm No. NZ1014

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\*All dimensions are nominal. We reserve the right to change specifications.  
Ref. Triton Trio 85-25.05

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