

# triton cloud hygiene™

## ANTI-MICROBIAL ACOUSTIC CEILING PANEL



TECHNICAL DATA SHEET BPIR - CLASS 1



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## Edge Wrapped, Anti-Microbial Acoustic Ceiling Panel - $\alpha_w$ , NRC 0.90

### Technical Data Sheet - BPIR Class 1

Triton Cloud Hygiene™ is a made in NZ, 'soft' fibre ceiling panel with anti-microbial finish, designed to provide high sound absorption in hygiene sensitive areas.

Panels are rigid and designed as free floating or direct fix elements to control reverberation. Available in a range of standard sizes.

#### Application

Triton Cloud Hygiene™ is ideal for cafes, restaurants, school food tech rooms, medical/dental centres and pharmaceutical areas for the control of background noise levels and reverberation times.

#### Composition

Made in NZ from non-combustible glass wool acoustic core with Sonatex smooth anti-microbial acoustic laminate to 5 sides, tissue backed (optional foil backing).

#### Features & Benefits

- Smooth anti-microbial facing is easy to wipe clean.
- Panel face is treated with an anti-microbial coating for high kill rate against common bacteria. Tested to Japanese Standard JIS Z 2801:2000, achieves 99.95% minimum over 24 hours for:
  - Staphylococcus aureus
  - Eschericia coli (Ecoli)
  - Pseudomonas aeruginosa
  - Acinetobacter baumannii
  - Serrratia marcescens
- High sound absorption, up to  $\alpha_w$  /NRC 0.90, for noise control.
- Fire Group 2-S.
- Range of standard sizes, large modules up to 1100 mm x 2300 mm.
- Wide range of mechanical fixing solutions to direct fix or suspend panels.
- Available with optional foil backing to resist water damage from condensation in plenum.



- Dimensionally stable, rigid finish, no sag in hot conditions.
- Light weight for seismic design advantage.
- Easy to work on site using standard tools.
- GreenTag Certified / Level A.
- ISO 9001 registered quality management program.
- Packaging take back and reuse scheme (NZ only).
- Made in NZ, short lead times including replacement parts.

ISO 9001:2015 Registered Firm No. NZ1014

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Ref. Triton Cloud Hygiene -25.01

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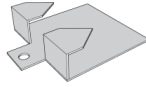
**Triton Cloud Hygiene™ Panel Mounting Solutions:**

Triton Cloud Hygiene™ panels may be direct fixed or suspended on a subframe or hangers. Asona offers a range of factory mounted or site applied mounting solutions to deliver the look and performance desired. Please select the system that works best for your project, consult Asona technical support for assistance. Cloud Hygiene™ panels may also be mounted on high level walls (above 2.4m) where a similar look is required to the ceiling.

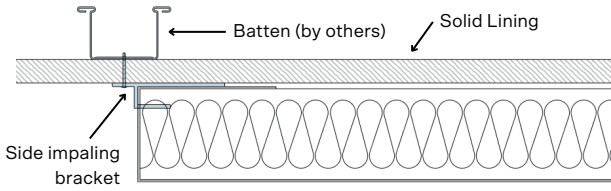
**Refer to Asona Triton Cloud Installation Manual for full details.**

Panel Mounting System	SIB	SFP	FFX
Direct fix to solid lining			
Fix to suspended framing			
Suspend on hanger wire			
<b>Cost</b>	\$	\$\$	\$

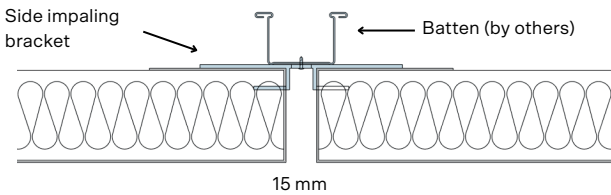
**#SIB Side Impaling Brackets** are supplied separately and site installed. The prongs impale into the side of the panel to allow for direct fixing to solid linings or to a suspended frame. Typically 4-14 pcs per panel subject to panel size. Bracket may be visible, maintain 15mm minimum spacing between panels to allow for screws. Installer must use a panel lifter to support the weight of the panel during installation.



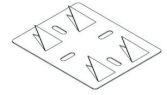
**Detail: Side impaling bracket direct fix**



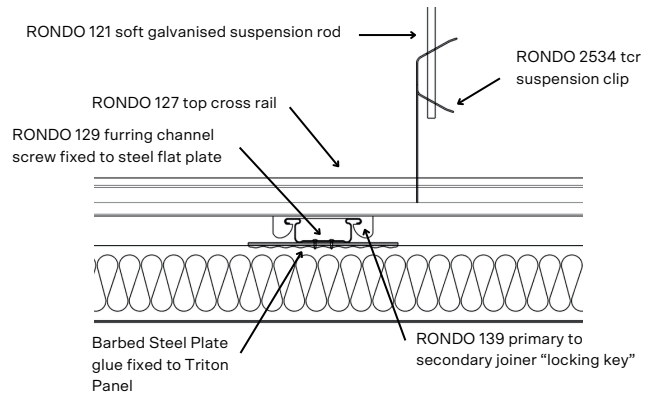
**Detail: Side impaling bracket direct fix to batten**



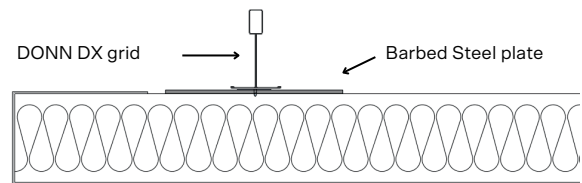
**#SFP Barbed Steel Flat Plates** are available to order. Plates are factory bonded to the rear of the panel and provide a hard fix point for suspension and seismic bracing. Allow 4 to 8 plates per panel (subject to size). Ideal for 'rafter' panel layouts. (Rondo KEY-LOCK® furring channel system as shown, supplied by Asona).



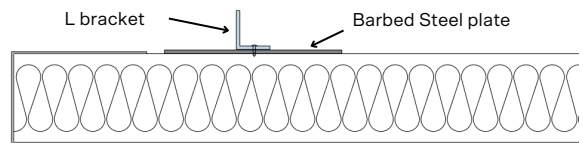
**Detail: Barbed Steel Flat Plate for Rondo Keylock® system**



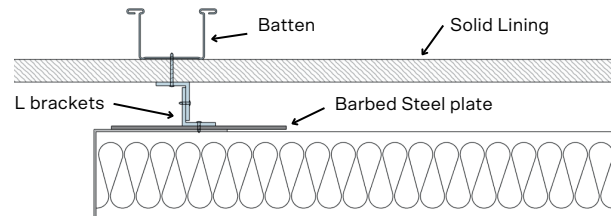
**Detail: Barbed Steel Plate for Rondo DONN DX®**



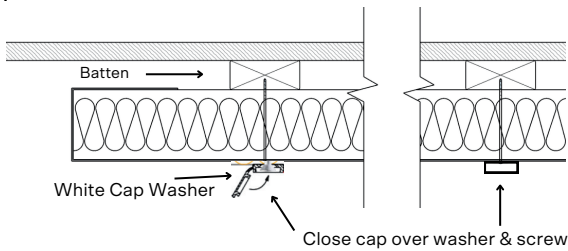
**Detail: Barbed Steel Plate for L hanger bracket.**



**Detail: Barbed Steel Plate for "L to L" direct fix.**



**#FFX face fix** panels direct to battens with a white cap washer and screw.



**Note:** Please select the required panel size and code then add mounting #SIB, SFP, FFX, or code to denote which fixing method is required. Eg: TCH50VG.1123.SIB.

\*We do not recommend glue only fixing unless used in conjunction with mechanical support.

## Technical Specifications

### Standard panels in white anti-microbial Sonatex finish

Sizes	490 X 490 mm	490 x 1100 mm	1100 x 1100 mm	490 x 2300 mm	1100 x 2300 mm
50 mm	TCH50VG.0505.48	TCH50VG.0511.48	TCH50VG.1111.48	TCH50VG.0523.48	TCH50VG.1123.48

#### Sound absorption rating. 'A' mount direct to concrete

ISO 354 ap practical absorption data, NRC 0.90 ASTM C423 (est)

$\alpha_w$	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
<b>TCH50 ap</b>	0.90	0.30	0.90	0.95	0.90	0.85

#### Sound absorption rating. E200 mount with cavity

ISO 354 ap practical absorption data, NRC 0.95, ASTM C423 (est)

$\alpha_w$	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
<b>TCH50 ap</b>	0.95	0.75	1.00	0.95	0.90	0.90

#### Environmental Impact:

Global GreenTag Certified, Level A, Contains 80% minimum recycled content, low VOC, soiled panels can be resurfaced with new acoustic facing to extend product life and reduce waste.

#### 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 — No overlay loads, M&E services and 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 Triton Cloud Hygiene™ 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 Cloud Hygiene™ has a Fire Material Group Number 2-S for Sonatex™ anti-microbial finish and installation method, 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 2).

#### Recycling and Disposal:

Re-laminate with new Sonatex™ anti-microbial finish to extend product life, may be used as thermal insulation on disposal.

#### Thermal Resistance:

R 1.47 m<sup>2</sup>°C/W

#### Tolerances:

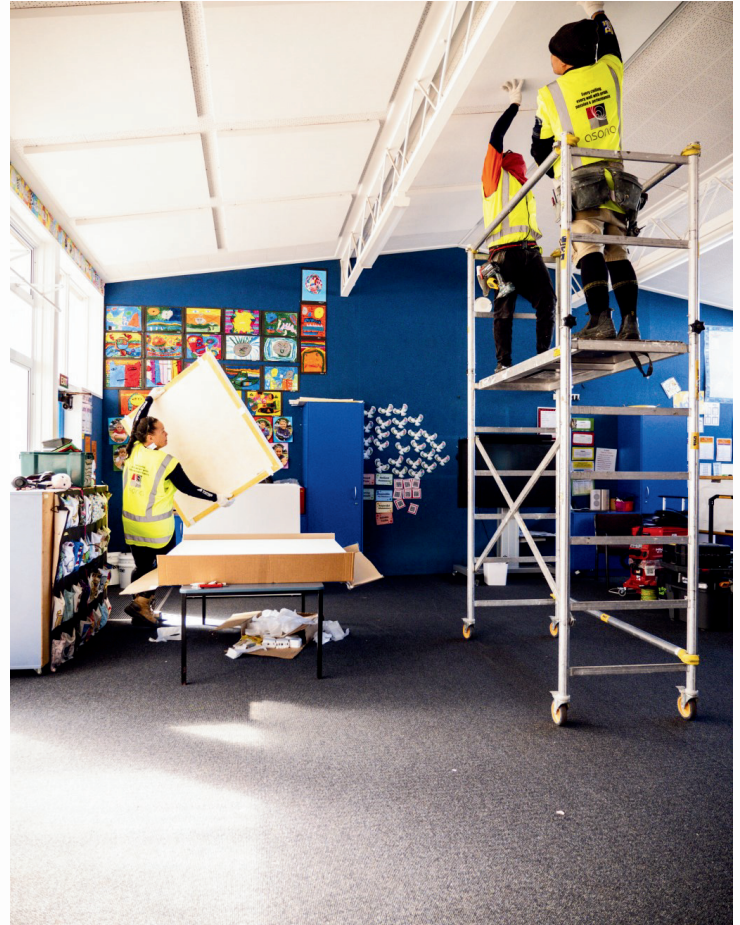
Width & Length +/- 2 mm

#### Warranty:

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

#### Weight:

2.7 kg/m<sup>2</sup>



Triton Cloud SIB installation

#### Installation:

Installation shall not commence until the building is water tight and dry. Light/mechanical fittings shall be independently supported. Installation shall be in accordance with the selected fixing system and industry standards. Refer to full Triton Cloud™ Installation Manual.

#### Specification:

Acoustical ceiling system shall be Asona Triton Cloud Hygiene™ anti-microbial panel as manufactured and supplied by Asona Ltd, Tel: 09 525 6575 info@asona.co.nz, Panels shall be (direct fixed to structure) (fixed to suspended sub frame) (free hanging on wire). Selected panel shall be item # ( ), size 50 x ( ) x ( ) mm, finish shall be Sonatex anti-microbial, colour white, mounting system shall be (SIB) (SFP) (FFX) Fire Group 2-S)  $\alpha_w$ /NRC (0.90)(0.95). Contractor shall register the ceiling with Asona Renew and Reuse product stewardship program on practical completion. (Asona ceiling Masterspec 5172AA specification available).



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