

Triton Baffle Beam™

High Sound Absorbing Ceiling Beam

Technical Data sheet—BPIR Class 1



asona



Description.

Triton Baffle Beam™ is a made in NZ high sound absorbing ceiling system designed to provide an attractive linear aesthetic and to control unwanted noise. Triton Baffle Beams are available in a range of sizes, decorative finishes and three mounting systems for direct fix or suspended use.

Application.

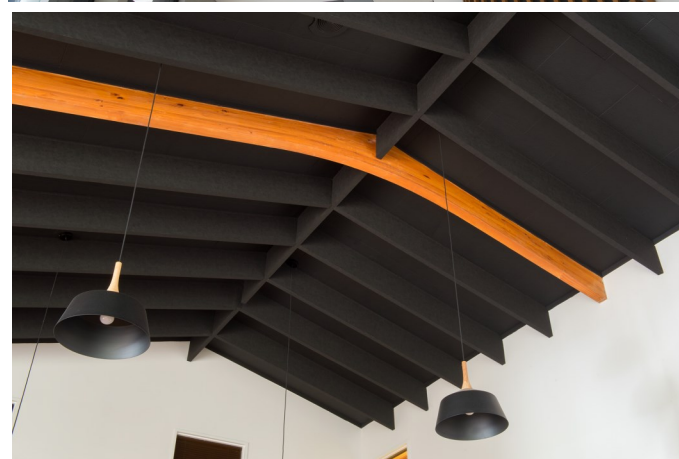
Baffle Beams™ are ideal for corporate offices, corridors, show rooms, hospitality, retail and public spaces.

Composition.

Non combustible glass wool acoustic core with Sonatex™ laminate to 5 sides, fixing channel from galvanised steel.

Features & Benefits.

- Attractive linear aesthetic.
- High sound absorption rating for control of reverberation.
- Narrow or wide Beam options, 25, 40, 50, 75 & 100 mm.
- Shallow or deep Beam options, 100, 200, 300, 400.
- Range of [Sonatex™](#) acoustic laminate finishes including three wood prints to add warmth to interiors.
- Three mounting systems allow for direct fix to a solid lining, fixed to a suspended sub-frame or free suspended.
- Fire Group 1-S.
- Non-combustible core, no molten droplets in a fire.
- Light weight for seismic design.
- Dimensionally stable, will not warp or twist with humidity.
- Allows for airflow and flexible lighting arrangements.
- 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.



Black Baffle Beams ECD direct fix over black ceiling mimics the look of joists

Technical Specifications

Standard Baffle Beam and top fix systems				
Profile #	Mounting top fix #		Size (nominal) *	
BB25.01.24	ECD			25 x 100 x 2400 mm
BB25.02.24	ECD			25 x 200 x 2400 mm
BB25.03.24	ECD			25 x 300 x 2400 mm
BB40.015.24	ECD	ICS	SPA	40 x 150 x 2400 mm
BB40.02.24	ECD	ICS	SPA	40 x 200 x 2400 mm
BB40.03.24	ECD	ICS	SPA	40 x 300 x 2400 mm
BB40.04.24	ECD	ICS	SPA	40 x 400 x 2400 mm
BB40.05.24	ECD	ICS	SPA	40 x 500 x 2400 mm
BB50.015.24	ECD	ICS	SPA	50 x 150 x 2400 mm
BB50.02.24	ECD	ICS	SPA	50 x 200 x 2400 mm
BB50.03.24	ECD	ICS	SPA	50 x 300 x 2400 mm
BB50.04.24	ECD	ICS	SPA	50 x 400 x 2400 mm
BB50.05.24	ECD	ICS	SPA	50 x 500 x 2400 mm
BB50.02.30	ECD	ICS	SPA	50 x 200 x 3000 mm
BB50.03.30	ECD	ICS	SPA	50 x 300 x 3000 mm
BB75.02.24	ECD			75 x 200 x 2400 mm
BB75.03.24	ECD			75 x 300 x 2400 mm
BB75.04.24	ECD			75 x 400 X 2400 mm
BB75.05.24	ECD			75 x 500 X 2400 mm
BB100.02.24	ECD			100 x 200 X 2400 mm
BB100.03.24	ECD			100 x 300 x 2400 mm
BB100.04.24	ECD			100 x 400 x 2400 mm
BB100.05.24	ECD			100 x 500 x 2400 mm

Note:

To specify please select the required baffle size then add #ECD, ICS or SPA to end of the baffle code to denote which fixing method is required. Eg: BB50.03.24.IC3.
To add colour selection refer to Sonatex colour charts.

Mounting system	#ECD	#ICS	#SPA
Direct fix to solid lining	✓		
Screw fix to suspended grid	✓	✓	
Screw fix to suspended furring	✓	✓	
Free suspend on hanger wire			✓

Mounting Systems:

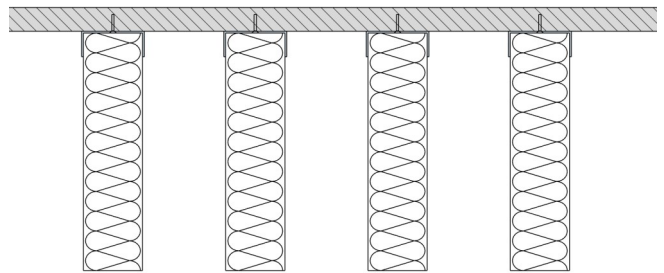
Direct Fix Baffles: For baffles direct fixed over plasterboard linings or direct to building soffit please select #ECD system
ECD is an External Channel Direct fix system which consists of a colour matched tissue wrapped top C channel that is supplied separately from the baffle and is set out and screw fixed to the structure. The Triton baffles are then friction and glue fixed into the ECD channel. This is the only fixing method where baffles can be butted end on end for a continuous look.

Suspended Baffles: There are 3 methods to suspend baffles and each has it's pro's and con's

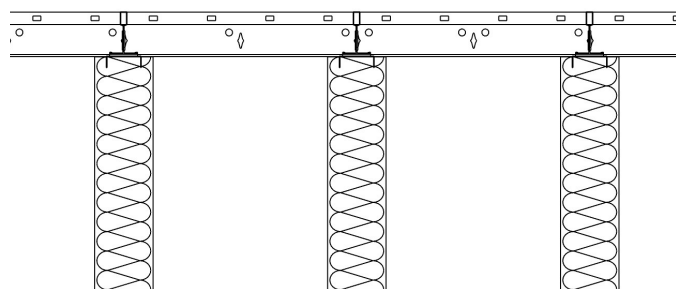
ECD denotes an external channel as described above but screw fixed to a suspended frame. Baffles may be butt joined end on end to form a continuous linear ceiling finish. The channel is supplied as a separate part from the baffle.

ICS is a lower cost alternative to ECD, Baffles are screw fixed to a suspended frame but shall have a gap of 50 mm between baffle ends (required to help 'hide' any vertical alignment variance that may occur). The ICS channel is factory fitted to the baffle and supplied as one part for labour saving on site.

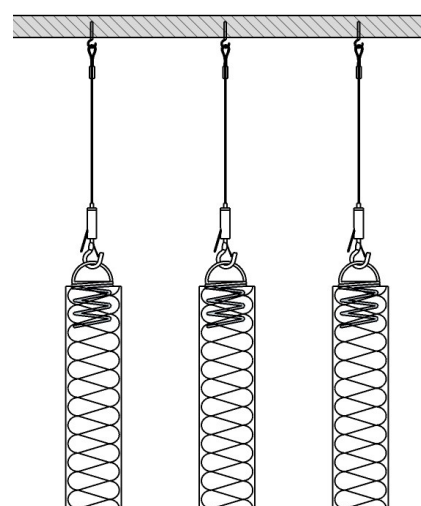
SPA is a spiral anchor screwed into the back of the baffle and attached to a hanger wire. Each baffle is suspended independently. Take care to position the hanger accurately to maintain spacing and alignment. Baffles cannot be butted end on end with this system. Spiral anchors supplied separately.



#ECD external top C channel direct fix to solid lining or grid

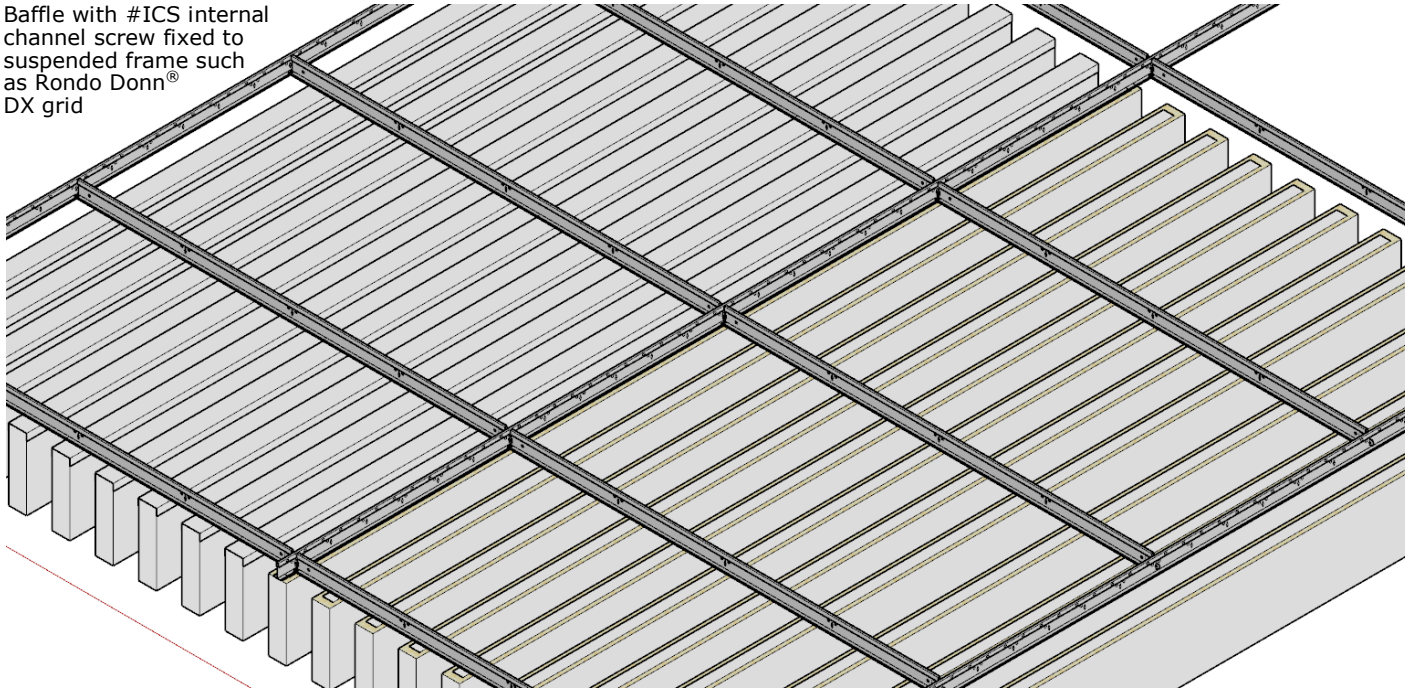


Above: Baffle with #ICS internal channel screw fixed to suspended frame such as Rondo Donn® grid or furring channel. ECD external channel may also be used fixed to suspended grid.



Left: Baffle with #SPA spiral anchor free suspended from adjustable hanger.

Baffle with #ICS internal channel screw fixed to suspended frame such as Rondo Donn® DX grid



Acoustic Performance:

Triton Baffle Beams™ are made from a high sound absorbing glasswool board. The selected baffle size, baffle spacing and mounting method will have a significant influence on the level of sound absorption achieved in a room. Eg:
40x300mm @ 300mm ctrs, NRC 0.75 (Test report: T1326-2)
40x300mm @ 600mm ctrs, NRC 0.55 (Test report T1326-2a)

For baffles fixed to Rondo Donn® grid then additional absorption or attenuation can be achieved by using Triton 25™ NRC 0.95 or Triton Duo 60™ NRC 0.95/ CAC 44 acoustic ceiling panels installed into the grid system. Consult Asona for advice.

Environmental Impact:

GreenTag certified level A, core contains 80% recycled waste glass, product and packaging can be reused/recycled in NZ. Low VOC <0.002 Mg/M²/hr per ASTM D5116.

Laminate Finishes:

Baffles are available with standard Sonatex™ white, black, grey, wood prints, RAL colours. Refer to online [Sonatex™](#) finishes charts for colour and print selections.

Light Reflectance Value:

85% per BS8493:2008, White, others subject to colour.

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 on ECD and SPA installations.

Maintenance:

Clean with vacuum, soft brush or damp cloth.

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 Baffle Beams 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 Baffle Beams have a Fire Material Group Number 1-S* by NZBC verification method C/VM2 Appendix A, tested in accordance with ISO 5660 or ISO 9705. * Under test (NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1).

Warranty:

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

Weight: (approx.)

25 mm, 3 kg/m²
40 mm, 4.5 kg/m²
50 mm, 5.4 kg/m²

75 mm, 7.8 kg/m²
100 mm, 10.2 kg/m²
excludes suspension

Installation:

Triton Baffle Beams™ are a finishing trade, installation shall not commence until the building is water tight, dry and free of dust and debris. Space baffles evenly as per drawings, To join panels saw cut ends and use contact adhesive to butt join. Cap open cut ends with Sonatex™.

Direct fix method:

1. ECD system—screw fix ECD top C channel to soffit using flat head screws suitable for the substrate. Apply bead of construction adhesive to inside corners of channel, fit baffle and ensure adhesive contacts the top of the baffle, align and support as required. For continuous runs of baffle glue butt ends and use temporary C channel support at the join until set.

Suspended fix methods:

There are three options available to suit a project.

1. ECD system—screw fix ECD channel to suspended grid or batten system using flat head screw. Apply bead of adhesive, fit baffle and support as required.
2. ICS system—screw fix baffle to suspended grid or batten (by others) from above. Use fine thread metal screw with flat head. Position baffles with 50 mm gap between ends. Adjust cross tee centres to pick up load from baffle ends. 100 —350mm from ends
3. SPA system—screw in spiral anchor to back of the baffle along the central line, attach to adjustable hangers as supplied by Asona. Do not over tighten.

Specification:

Linear acoustic ceiling shall be Asona Triton Baffle Beam™ as manufactured and supplied by Asona Ltd Tel: +64(0)9 525 6575 info@asona.co.nz, item # () , size shall be () x () x 2400 (~ other) mm, colour shall be Sonatex (white) (black) (RAL7040 grey)(RAL7030 grey)(wood print RAL1001)(other). Mounting system shall be (ECD)((ICS)SPA)(direct to solid lining) (suspended). Baffle spacing shall be (100)(200)(300) mm (other), position baffles (end on end with butt join) (end on end with 50 mm gap). 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 5172AA specification available).

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