

Triton Defender 50™ - NRC 0.85



Abuse Resistant Acoustical Ceiling and Wall Panel

Technical Data sheet

asona

Description.

Triton Defender 50™ is a made in NZ durable abuse resistant, high sound absorbing perforated steel faced composite ceiling and wall panel. Defender 50™ is designed to control reverberation and reduce back ground noise levels in abuse prone areas.

Application.

Defender 50™ is ideal for detention facilities, prisons, sport halls, school halls as a durable direct fix or suspended ceiling, bulk head or wall lining.

Composition.

Manufactured from powder coated perforated steel facer with Sonatex interlayer laminated to high density 50mm, 96 kg/m² glass fibre absorber.

Benefits.

- Durable, impact and abuse resistant acoustic panel with puncture resistant perforated steel facing.
- High sound absorption for effective control of reverberation, ISO 11654 class A, α_w 0.90, NRC 0.85.
- Fire Group 1-S.
- Made in NZ, short lead times including replacement parts.
- Product stewardship Renew and Reuse program.
- Dimensionally stable in high humidity.
- Easy to clean powder coated finish.



Technical Specifications

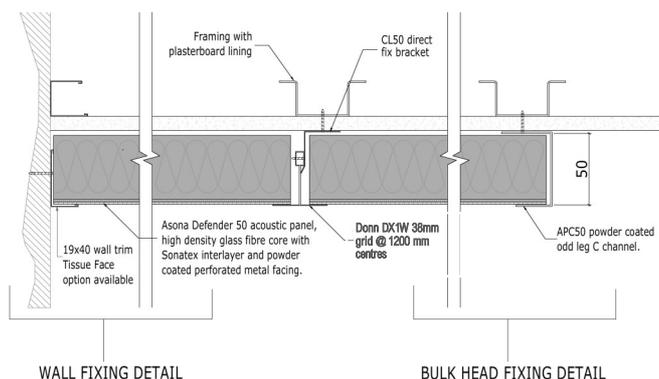
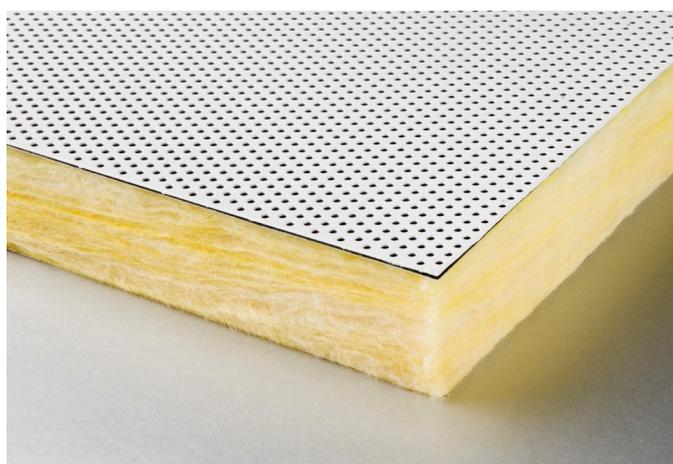
Item #	Size (nominal) *	Edge
DE50.0606	50 x 600 x 600 mm	Square
DE50.0612	50 x 600 x 1200 mm	Square
DE50.0624	50 x 600 x 2400 mm	Square
DE50.1212	50 x 1200 x 1200 mm	Square

*Custom sizes available to order, contact Asona

Practical Sound Absorption Ratings:

Direct 'A' mount α_w 0.90; Class A; NRC 0.85 per ASTM C423 ISO 354 A-50 Test T0601-4, E-200 Test T0601-3

Hz	125	250	500	1000	2000	4000
α_p A50	0.45	0.80	0.85	0.90	0.90	0.80
α_p E200	0.60	0.70	0.75	0.90	0.95	0.80



Defender 50™ - NRC 0.85

Abuse Resistant Acoustical Ceiling and Wall Panel

Technical Data sheet



asona

Accessibility

Wall and direct fix ceiling panels are non-accessible.

Back Loading:

Max. 2 kg/m², point loads shall be independently supported.

Colour:

White powder coated steel over black faced absorber.

Fire Reaction:

NZBC verification method C/VM2 material Group: 1-S
NCC BCA C1.10 clause 4, spec A2.4 clause 4. Group 1.

Humidity:

Max 99% R/H at 45°C.

Light Reflectance Value:

>75% White

Maintenance:

Clean with vacuum, soft brush or damp soapy cloth.

NZ Building Code:

Clause B2—durability, 5 years.

Service Panel Protection:

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

Thermal Resistance:

R 1.4 m²°C/W

Warranty:

15 year limited warranty against manufacturing defects.

Weight:

6.7 kg per 1194 x 594 mm panel, 9.5 kg/m²

Installation:

Shall not commence until the building is water tight and dry.
Direct fix under solid lining: For ceiling or wall mounting screw fix UA1502 aluminium perimeter channel at 300 mm o.c. Install panel and use UA1280 aluminium top hat to hold down and cover panel joints.

Suspended: Install Rondo Donn DX1W 38mm wide face main tee at 1200 mm centres fixed to structure with solid hangers at 600 mm o.c. For secure areas pop rivet the perforated face to the the T bar suspension at 300mm o.c.

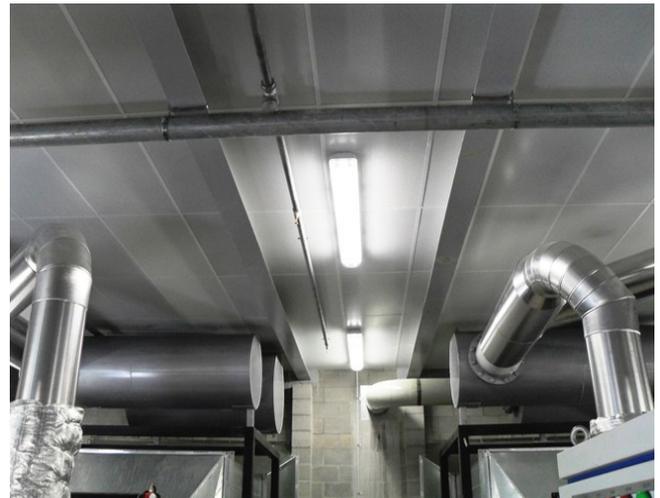
Specification:

Acoustical treatment shall be Triton Defender 50 abuse resistant composite acoustical panel manufactured by Asona Ltd Tel: 09 525 6575, info@asona.co.nz, Selected panel shall be item # (), size 50 x () x ()mm, square edge sound absorption class A, α W 0.90, NRC 0.85, thermal insulation R1.4, powder coated perforated steel facing over black faced 50 mm absorber, Perf P136, colour white, Fire Group 1-S. Direct fix application shall use UA1280 top hat to panel joints and UA1502 to perimeter.

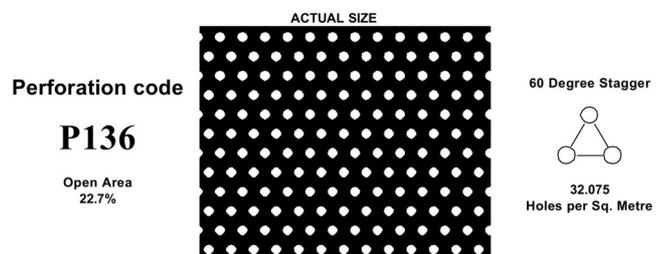
Suspended applications shall use Rondo Donn DX1W 38mm wide faced two way exposed grid system with solid hanger and 19 x 40 mm wall trim, grid colour white. Pop rivet panels to the suspension systems at 300mm o.c. Contractor shall register the ceiling with Asona Renew and Reuse product stewardship program on practical completion.
(Asona ceiling Masterspec 5311AS specification available).



Manukau Police Station—Hard Interview Room



Waikato Hospital Equipment Room



Asona Ltd

Office and Factory:
Units 12-16, 7 Cain Road
Penrose, Auckland 1061,
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

ISO 9001:2015 Registered Firm No. NZ1014
© 2022 Copyright ASONA Ltd Asona, Triton Defender 50, Sonatex, are trade marks of Asona Ltd, Donn DX1W is a trade mark of Rondo Building Services Pty Ltd
*All dimensions are nominal. We reserve the right to change specifications.
Ref. Triton Defender 50-22-09

