

Defender 50™ - NRC 0.85



Abuse Resistant Acoustical Ceiling and Wall Panel

Technical Data sheet

asona

Description.

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 80 kg/m² absorber

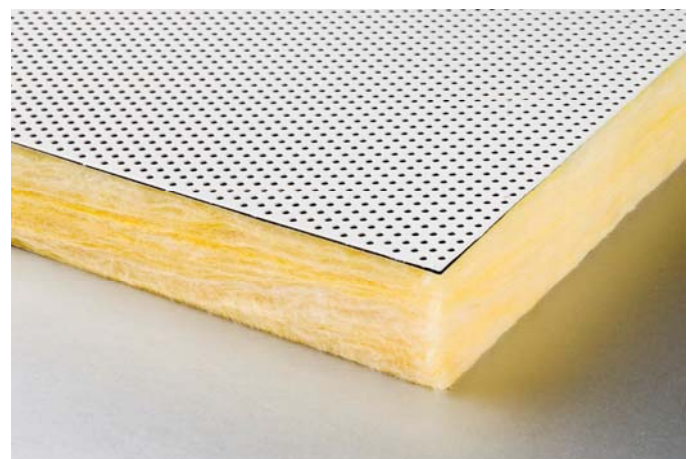
Benefits.

- High sound absorption for effective control of reverberation, ISO 11654 class A, α_W 0.90, NRC 0.85
- Durable impact and abuse resistant construction
- Puncture resistant steel facer
- Non combustible
- Dimensionally stable in high humidity
- Easy to clean powder coated finish

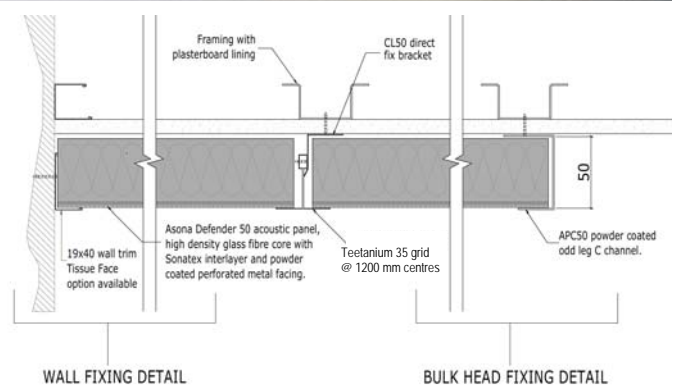
Technical Specifications

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, 1200 x 2400 not suitable for ceilings



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	



Technical Specifications

Accessibility:

Wall and direct fix ceiling panels non accessible, suspended ceiling panels with CLW 095 hold down clips @ 300mm Centres offer limited access.

Back loading:

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

Colour:

White, other powder coated finishes to order

Fire Reaction:

Material group number: 1S (highest rating) C/VM2 / ISO 5660.1. Suitable for fire exit way and all other sprinklered & non sprinklered buildings.

Humidity:

Max 95% R/H at 45°C.

Light reflectance:

ASTM C1477 LR-1, >75% White

Maintenance:

Clean with vacuum, soft brush or damp soapy cloth.

NZ Building Code:

Clause B2—durability, 5 years

Service Panels:

Available with protective plastic film covering to help keep panels cleaning during the construction phase.

Thermal Resistance:

R 1.4 m²°C/W

Weight:

9.5 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Screw fix #1502 perimeter channel at 300 mm o.c. Teetanium T35 white face main tee at 1200 mm centres fixed to structure with solid hangers at 600 mm o.c. For secure areas pop rivet panels to T bar suspension at 300mm o.c. For suspended ceilings use 4 x CLW095 hold down clips per 600 x 1200 panel. For walls mount panels over solid backer, use top hat cover batten at 1200 mm centres and 50 mm C channel to ends.

Specification:

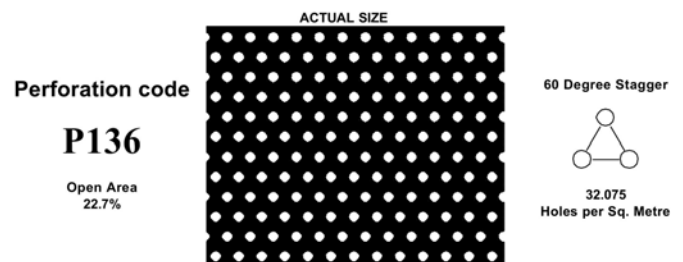
Acoustical treatment shall be Defender 50 abuse resistant composite acoustical panel manufactured by Asona Ltd Tel: 09 525 6575 Fax: 09 525 6579, # (), module () x ()mm, 50 mm thick, sound absorption class A, α_w 0.90, NRC 0.85, thermal insulation R1.4, powder coated perforated (steel) (aluminium) facing, Perf P136, colour white, with (Teetanium T35 two way exposed suspension system) (direct fix) Perimeter trim #1502 U channel. Fire group 1S.



Manukau Police Station—Hard Interview Room



Waikato Hospital Equipment Room



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