

Diffusion™

Flat Sound Reflecting Ceiling Panel

Technical Data sheet



asona

Description.

Diffusion™ is a robust sound reflecting ceiling panel designed to compliment the Triton™ range of sound absorbing ceiling panels. With the same crisp Sonatex™ finish, Diffusion™ can be mixed and matched with Triton™ absorber panels to enhance speech clarity, intelligibility and the tonal qualities of played music.

Application.

Diffusion™ is ideal for use in music rooms as well as traditional didactic style teaching spaces, lecture theatres and some classroom settings where it is desirable for the teachers voice to be projected to the back of the room.

Composition.

Manufactured from fire resistant Sonatex™ 250 kg/m³ composite facer panel laminated to an 750 kg/m³ 10 mm thick plasterboard backer panel. Made in NZ.

Benefits.

- Good sound reflection for music tone and speech clarity.
- Crisp clean white finish
- High light reflectance
- Helps attenuate and muffle rain noise under metal roofing
- Durable high density composite construction resists damage from knocks and scraps.
- Can support light fixtures up to 2 kg.
- Made in NZ, short lead times versus imports
- Metpet foil backed option helps prevent condensation damage under cold roof linings.
- Low environmental impact, product and packaging can be recycled/ reused.

Technical Specifications

Item #	Size (nominal)	Edge
DI12.0606	12 x 600 x 600 mm	A / Square
DI12.0612	12 x 600 x 1200 mm	A / Square

Sound Absorption Rating: Diffusion αw 0.15; NRC 0.10 per ASTM C423, ISO 354 E-200 Test report T0516-2

Panel	Hz	125	250	500	1000	2000	4000
Diffusion	αp	0.20	0.10	0.05	0.05	0.15	0.20

Accessibility:

All panels are demountable and accessible.

Back loading:

Max. 3.5 kg/m², point loads over 2 kg shall be independently supported.

Colour:

White

Environmental impact:

Product and packaging can be reused/recycled.

Fire Reaction:

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

Humidity:

Max 95% R/H at 30°C.



Light reflectance:

ASTM C1477 LR-1, >75% White

Maintenance:

Clean with vacuum, soft brush or damp cloth. Re-surfacing of soiled panels available, consult Asona.

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 0.1 m²°C/W

Weight:

8 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Light fittings shall be independently supported if over 2 kg, use hold down clips in seismic areas. Store panels flat on pallets in a clean dry place.

Specification:

Ceiling shall be Diffusion™ flat sound reflecting plasterboard ceiling panels with proprietary Sonatex glass mat composite facing as manufactured by Asona Ltd, tel: 09 525 6575, fax: 09 525 6579 item # GC31234A, 1200 x 600 x 12mm mm, colour (white), Fire group 1S, installed on T24 two way exposed suspension system with 2 x hold down clips per panel. Service panels shall be supplied with protective strippable plastic film facing #PF.

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