

Contrapanel™

Sports Impact Resistant Acoustic Ceiling Panel

Technical Data sheet



ASONA

Description.

Contrapanel™ is a sports impact resistant perforated acoustic ceiling and wall panel designed for gymnasiums, halls, schools. Ball impact tested to DIN 18032 pt 3 with a 450 gm hand ball shot against panel 60 times at 16.5 m/sec without damage. Panels press punch perforated GIF 6mm diameter holes with plain panels available for perimeter cuts. Acoustic tissue backer and face laminated with white foil facing for easy cleaning and high light reflectance. Panels are screw fixed to furring and butt joined with 3mm bevel edge exposed. Now incorporated with an air purification feature, Cleaneo Technology across the full Knauf-Danoline range of perforated acoustic plasterboard ceiling & wall finishes.

Application.

Contrapanel™ is very robust and ideal for applications where physical impact occurs. Schools, gymnasiums, sport halls.

Composition.

Panels manufactured from white foil faced reinforced plasterboard with grey sound absorption felt fixed on the back. Perforations press punched for clean edge finish.

Benefits.

- High impact resistant
- Meets DIN 18032 ball impact test.
- Good sound absorption for control of reverberation.
- Fire resistant gypsum composition is superior to wood panels
- Clean white foil facing, resists marking and easy to clean
- Ideal for gymnasiums, sports halls & schools
- Perforated and non perforated tiles available
- Suitable for ceilings and walls



^ St Peters School Gymnasium



Detail—Contrapanel

Technical Specifications

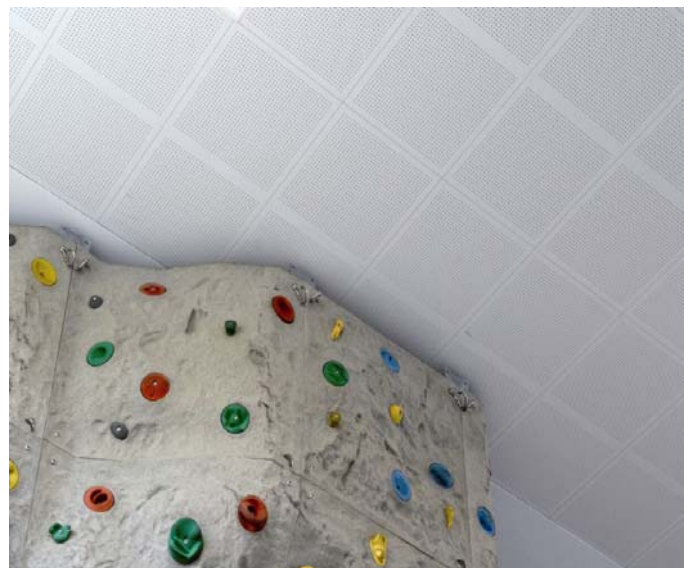
Practical Sound Absorption Coefficients: α _W 0.60; Class C; ISO 354 E-200. NRC 0.65 per ASTM C423							
	Hz	125	250	500	1000	2000	4000
G1F	α _p	0.45	0.65	0.80	0.65	0.55	0.45
Regu- la	α _p	0.40	0.20	0.10	0.05	0.05	0.00

Sizes:

12.5 x 600 x 1200 mm
12.5 x 600 x 1800 mm
12.5 x 600 x 2400 mm

Perforations:

G1 Globe 6 mm ø, Regula non perforated for perimeters



Technical Specifications

Colour:

White foil face.

Environmental:

The gypsum boards are made from following gypsum types: naturally occurring gypsum, gypsum produced from by-products at local power plants during desulphurisation, pre-consumer recycled gypsum waste produced through our own production processes and post-consumer recycled gypsum. Low embodied energy, product and packaging can be recycled in NZ. VOC <0.002 Mg/M²/hr per ASTM D5116

Fire Reaction:

C/VM2 / ISO 5660.1, Group number 1S

Installed Conditions:

Max 90% R/H at 30°C.

Light reflectance:

73% DIN 5036 pt 3

Limitation:

Not for use with negative air return plenums, in direct contact with moisture or in extreme humidity conditions.

Loading:

Maximum weight that can be directly integrated into the ceiling eg: lighting, A/C grill, speakers etc, shall not exceed 3kg. Greater weights shall be independently supported.

Maintenance:

Clean with damp cloth.

NZ Building Code:

Clause B2—durability, 5 years

Weight:

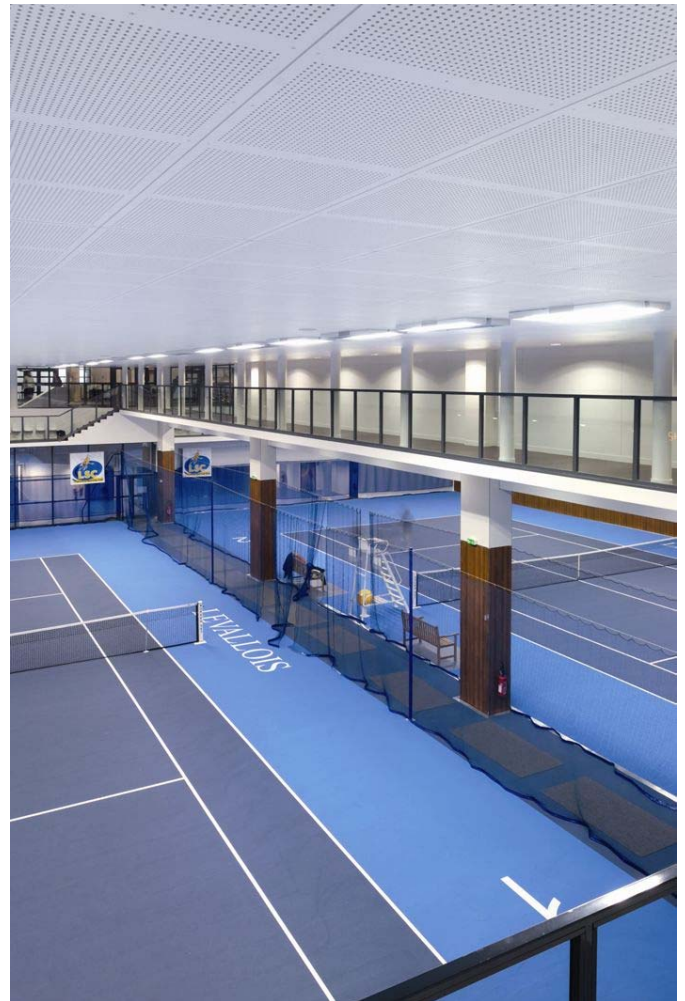
Perforated: 8.5 kg/m², plain regula: 9.4 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Ceilings - install strong backs on rigid hangers at 900 mm centres, furring at 300mm centres. Walls - install on furring or studs at 200 mm centres. Butt join panels. Screw fix panels at 200mm c/c at panel edge and 300mm c/c in field of panel, use #6389 white head screws into wood and #219774 white head screws into steel.

Specification:

Acoustic lining shall be Contrapanel perforated acoustical gypsum panel system, supplied by Asona Ltd, Tel: 09 525 6575, Fax: 09 525 6579. Size 12.5 x 600 x 1200 mm (other) perforation pattern G1F 6 mm diameter press punched with grey/white acoustic tissue backer, sound absorption α_w 0.60, NRC 0.60, perimeter panels shall be plain Regula non perforated panels, screw fix ceiling panels to furring at 300mm c/c, strong back at 900mm c/c with solid hangers at 900 mm c/c.



Papamoa College—Indoor Courts



Contrapanel non-perforated tiles used on walls

Asona Ltd

P.O Box 96-241 Balmoral,
Auckland, New Zealand
Sales: 09 525 6575
Email: info@asona.co.nz
Web: www.asona.co.nz

Factory:
Building 14, 7 Cain Road
Penrose
Auckland, New Zealand
Tel: (09) 525 6575
Fax: (09) 525 6579

Belgravia 600™



Perforated Plasterboard Ceiling Tile

Technical Data sheet



Description.

Belgravia 600™ is a perforated plasterboard ceiling tile with machine routed edge detail to suit T24 or T15 exposed grid systems. Panels are pre finished white with acoustic tissue backer. Provides an attractive perforated texture to ceilings Available in Tangent 14 x 4mm oval, Micro 3 x 3 mm square, Quadril 12 x 12 mm square and Globe 6 mm Ø perforations or non perforated for borders. Q1, T1, G1 and M1 in stock NZ. Now incorporated with an air purification feature, Cleaneo Technology across the full Knauf-Danoline range of perforated acoustic plasterboard ceiling & wall finishes.

Application.

Belgravia 600 is ideal for general suspended accessible ceilings in offices, civic, retail, education, hospitality etc.

Composition.

Panels manufactured from reinforced plasterboard with latex paint finish, machine formed edge with acoustic tissue backer.

Benefits.

- 4 x perforation designs and 1 x plain panel option.
- Excellent sound absorption at important 250– 2000 Hz speech frequencies for comfort and communication.
- Machined reveal edge detail
- Durable fire resistant gypsum composition for long life
- Non mineral fibre based acoustic ceiling solution for a healthy comfortable indoor environment.



^ Parenting Place Café
American Express AKLD

Technical Specifications

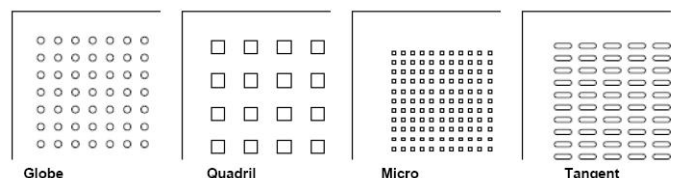
Perforation	% area	Size (nominal)
Tangent, 14 x 4 mm oval holes	21.3%	600 x 600 x 13mm
Micro, 3 x 3 mm square holes	10.2%	600 x 600 x 13mm
Quadril, 12x12mm square holes	13.0 %	600 x 600 x 13mm
Globe, 6 mm Ø round holes	10.2 %	600 x 600 x 13mm
Regula, non perforated.	0%	600 x 600 x 13mm

* Others to order, 300 x 1200, 300 x 1500, 300 x 1800mm.

Sound Absorption Rating:

αW 0.65– 0.80 per ISO 354 E-200

	Hz	125	250	500	1000	2000	4000
Tangent T1	αp	0.40	0.65	0.85	0.75	0.75	0.80
Micro M1	αp	0.35	0.65	0.75	0.65	0.60	0.55
Quadril Q1	αp	0.35	0.65	0.75	0.65	0.60	0.45
Globe G1	αp	0.45	0.65	0.80	0.65	0.55	0.45
Regula R1	αp	0.40	0.20	0.10	0.05	0.05	0.00



Technical Specifications

Accessibility:

All panels are downward demountable for access to plenum.

Back loading:

Light fixture and other loads shall be independently supported.

Colour:

Low gloss white. Others to order

Environmental:

The gypsum boards are made from following gypsum types: naturally occurring gypsum, gypsum produced from by-products at local power plants during desulphurisation, pre-consumer recycled gypsum waste produced through our own production processes and post-consumer recycled gypsum. Low embodied energy, product and packaging can be recycled in NZ. VOC <0.002 Mg/M²/hr per ASTM D5116

Fire Reaction:

C/VM2 / ISO 5660.1, Group number 1s

Installed Conditions:

Max 90% R/H at 30°C.

Light reflectance:

ASTM C1477 LR-1, >75% White

Limitation:

Not for use with negative air return plenums, in direct contact with water or in extreme humidity conditions.

Maintenance:

Clean with vacuum, soft brush or damp cloth.

NZ Building Code:

Clause B2—durability, 5 years

Weight:

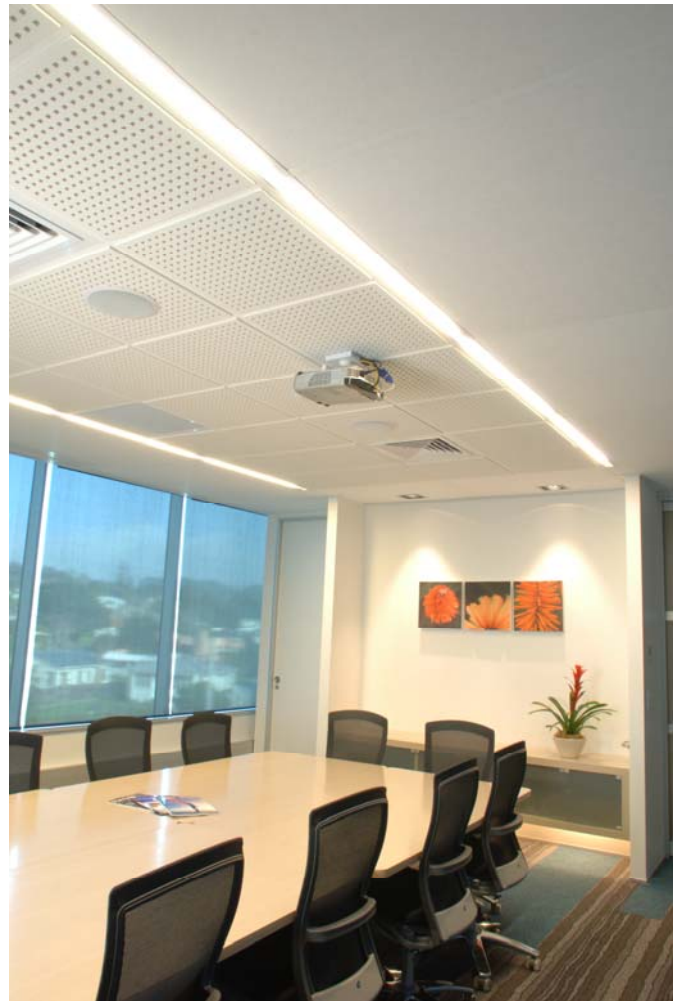
Perforated: 8.4 kg/m², plain regula: 9.4 kg/m²

Installation:

Shall not commence until the building is water tight and dry. Light fittings shall be independently supported, use hold down clips in seismic areas.

Specification:

Ceiling shall be Belgravia perforated gypsum acoustical ceiling system as supplied by Asona Ltd, tel: 09 525 6575, fax: 09 525 6579, perforation pattern shall be (Tangent, T1 14 x 4mm oval, Micro M1 3 x 3 mm) (Quadril Q1 12 x 12 mm) (Globe G1 6 mm diameter) (Regula non perforated) with acoustic tissue backing, (aW 0.65) (Tangent aW 0.80), pre-painted white, fire group 1s, size (600 x 600) (1200 x 300) (other) suspension shall be (T24) (T15) two way exposed grid system with (shadow-line) (L angle) wall trim, 2 x hold down clips per panel in seismic prone areas.



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