

Knauf Danoline Contrapanel™

Sports Impact Resistant Acoustic Ceiling Panel

Technical Data sheet — BPIR Class 1



asona

Description.

Contrapanel™ is an impact resistant acoustic panel system designed for ceiling and wall lining in gymnasiums. Panels are screw fixed to furring battens and butt joined for a solid robust finish. Contrapanel™ incorporates Cleaneo™ air purification technology for control of VOC's.

Application.

Contrapanel™ is ideal for ceiling and upper level walls in gymnasiums, schools and halls where physical impact may occur. Panels may also be used to surface an entire wall, depending on the degree of physical impact.

Composition.

Panels are manufactured from reinforced gypsum core with white impregnated face, press perforated and back laminated with acoustic fleece. Perforations press punched for clean edge finish. Powder coated white bugle head fixing screws.

Features & Benefits.

- Ball impact tested to DIN 18032 pt 3 where a 450 gm hand ball repeatedly impacts the panel at 16.5 m/sec for 60 times without damage.
- High impact resistant—Class 1 In accordance with EN 13964.
- Available in G1F perforation pattern with 6mm diameter holes as well as Regula™ non-perforated panels designed for services and perimeter cuts.
- Acoustic tissue backer.
- NRC 0.65 for control of reverberation.
- Fire Group 1-S.
- Fire resistant gypsum core is superior to perforated MDF and plywood panel fire group ratings.
- Durable and easy to clean white foil facing that resists ball scuff marking.
- High light reflectance.
- Solid fixing, panels screw fixed to metal/ timber battens with white head screws.

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
Regula	α_p	0.40	0.20	0.10	0.05	0.05	0.05

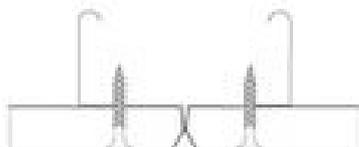
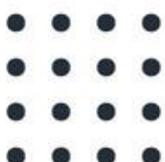
Sizes:

12.5 x 600 x 1200 mm (G1F perforated) - indent only
 12.5 x 600 x 1200 mm (Regula plain)

Perforations:

G1 Globe — 6 mm ϕ , 15mm ctrs, 10.2 %

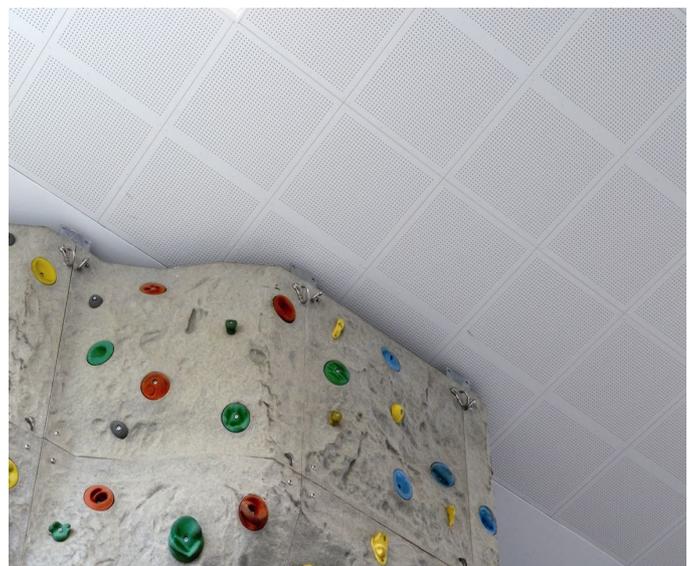
Bevel Edge:



^ St Peters School Gymnasium



Details—Contrapanel



Other sizes available to order, consult Asona.

Technical Specifications

Colour:

Pre-finished, White.

Environmental:

The plasterboards are made from FGD gypsum and recycled gypsum. Product and packaging can be recycled. EPD to ISO15804.

Fire Reaction:

C/VM2 / ISO 5660.1, Group number 1-S

Light Reflectance:

Globe 74.1% DIN 5036 pt 3
Regula 86.3%

Limitation:

- Not for use in external applications, wet areas, in contact with moisture or in extreme humidity or temperature conditions.
- Not for use with negative air return plenums.
- Maximum humidity/temperature 90% R/H at 30°C.
- Back loading - maximum uniform weight of un-supported insulation shall not exceed 2kg/m², point loads e.g. lighting, grills, speakers etc, 1.5kg per piece. Greater loads shall be independently supported.
- 12-14 weeks lead time, indent only.

Maintenance:

Dust is removed using a dry duster or vacuum cleaner. Marks can be removed with a damp cloth using normal cleaning practices and neutral cleaning solutions.

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): Knauf Contrapanel 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): Knauf Contrapanel has a Fire Material Group Number 1-S (A2-s1) by MBIE Building Performance Surface Finishes Standards Comparison 2938, 01 March 2015, in accordance with EN 13501-1:2002.

Warranty:

15 year limited warranty against manufacturing defects.

Weight:

Perforated Globe G1F: 8.5 kg/m², plain Regula: 9.4 kg/m²

Installation:

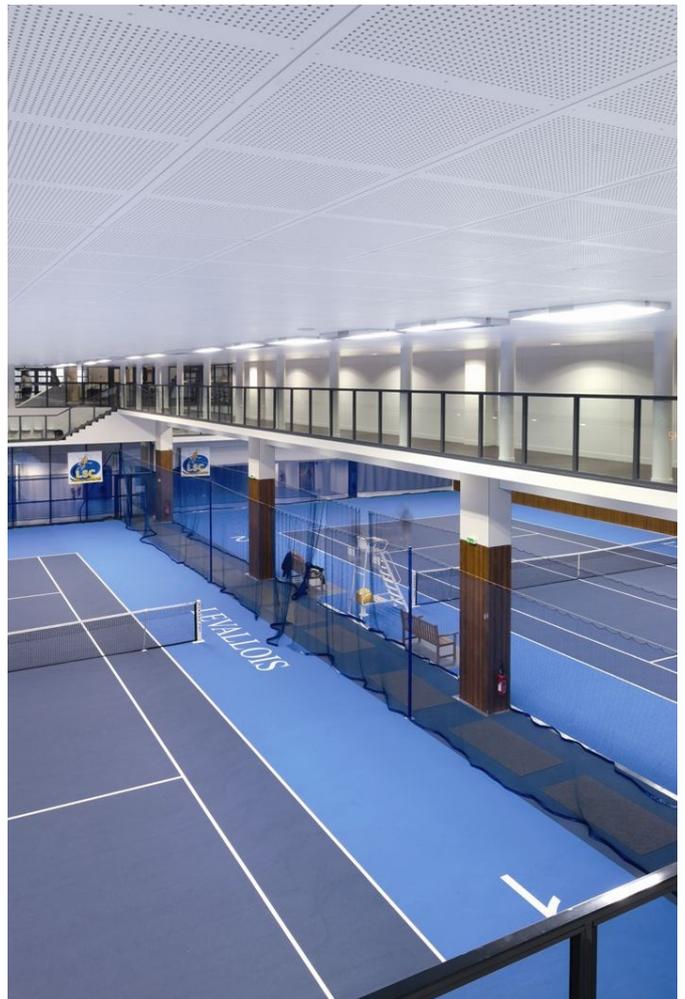
Shall not commence until the building is water tight and dry. Ceilings - install Rondo #127 TCR (top cross rail) at 900mm centres, rigid hangers at 900mm centres, Rondo #155 48mm furring at 200mm centres with Rondo #159 Interchange Clip, perimeter C channel. Walls - install on furring or studs at 200 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 (ceiling)/(wall) lining shall be Knauf-Danoline Contrapanel perforated acoustic gypsum panel system with Cleaneo™ technology, supplied by Asona Ltd, Tel: 09 525 6575, info@asona.co.nz.

Size 12.5 x 600 x 1200 mm, Globe G1F perforation pattern, 6 mm diameter perforations, grey acoustic tissue backer, sound absorption α W 0.65, NRC 0.65, perimeter panels shall be plain Regula non-perforated panels, screw fix panels with white head screws to Rondo KEY-LOCK #155 furring at 200mm c/c, TCR #127 at 900mm c/c with rigid hangers at 900 mm c/c. Contractor shall register the ceiling with Asona on practical completion.

(Asona ceiling Masterspec 5113AP specification available).



Indoor Courts



Contrapanel non-perforated tiles used on walls

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ISO 9001:2015 Registered Firm No. NZ1014

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