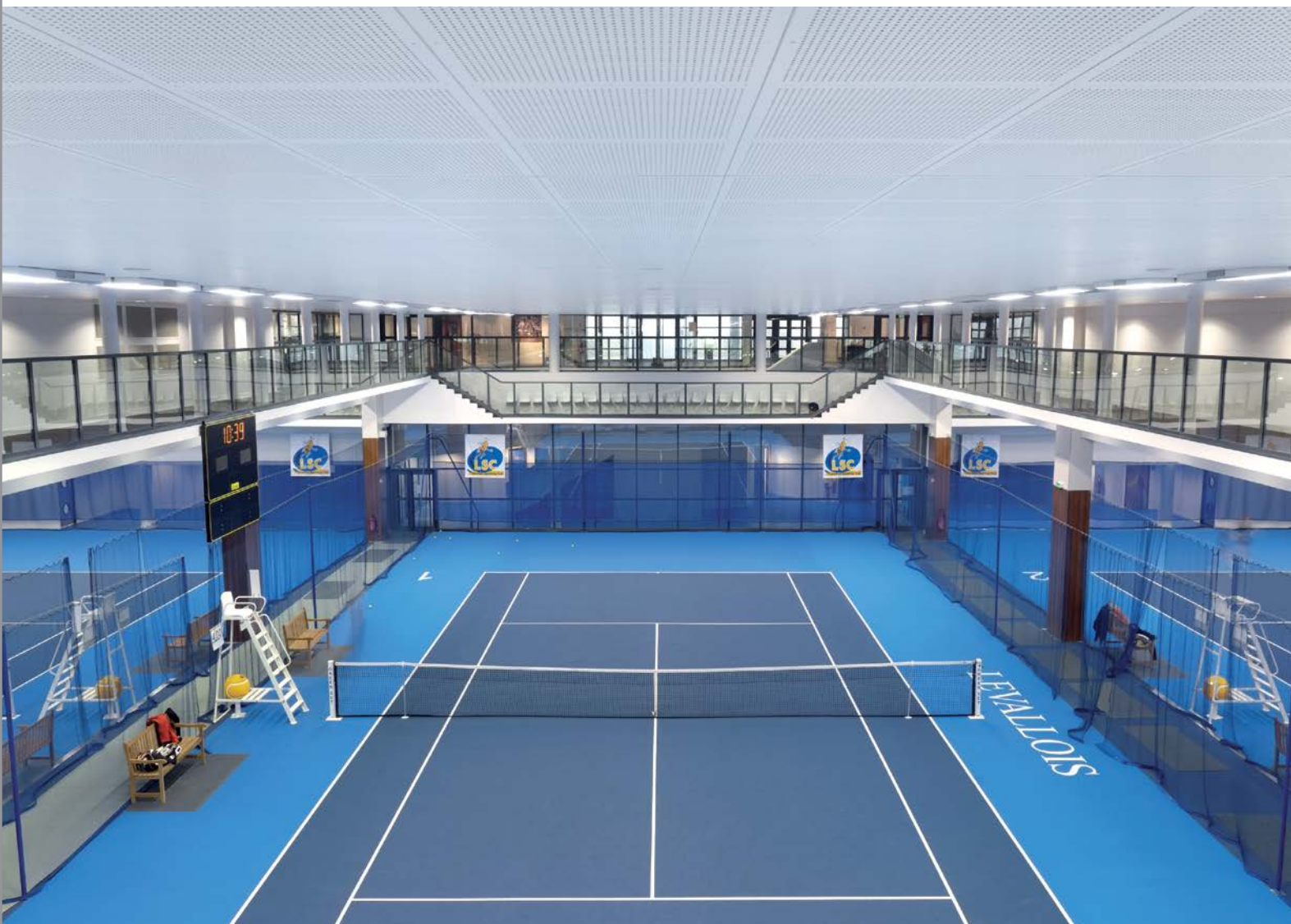




KNAUF

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Contrapanel

**ACOUSTIC PRE-FINISHED PANELS
FOR WALL AND CEILING LININGS**

Acoustic pre-finished panels for walls and ceilings

KNAUF CONTRAPANEL - EXCELLENT ACOUSTICS, MODERN DESIGN, ROBUST AND DURABLE PERFORMANCE

The increasing demands with regard to acoustics, design and impact resistance in public areas represent a growing challenge. In schools and sports facilities for example, walls and ceilings must be able to withstand certain physical stresses and yet provide a high degree of adaptability to the existing circumstances.

With its excellent room acoustics and robust, yet persuasively attractive and modern design, Contrapanel is particularly suited for the renovation and new construction of intensively used public facilities.

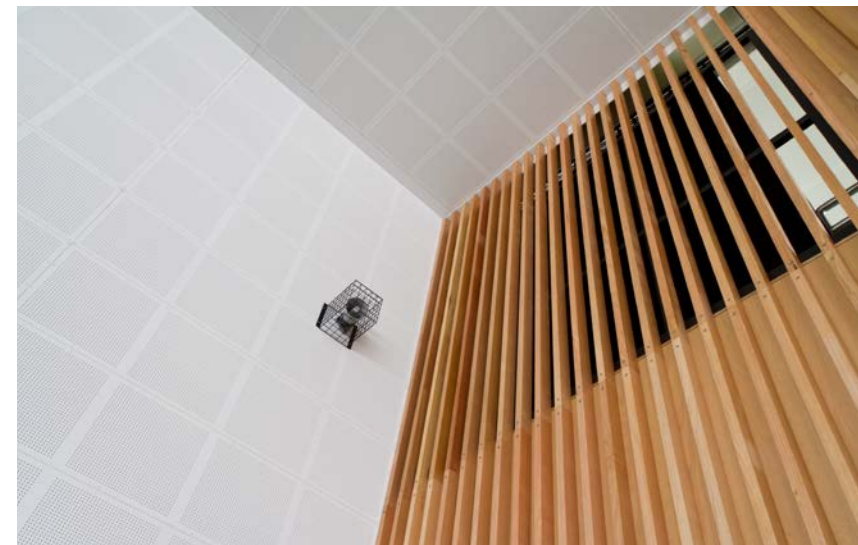
THE ADVANTAGES AT A GLANCE:

- Excellent acoustic and sound absorption values
- Attractive modern design
- Pre-finished outstanding surface quality
- Simple installation - no jointing or finishing
- High mechanical resistance
- Easy to clean and maintain
- Capable of subsequent repair

APPLICATION

Acoustics and light are critically important factors in our indoor environments, they influence our well-being, mood and temperament and impact our performance, learning and creativity.

Due to its attractive, white design and robust finish, Contrapanel is the ideal acoustic solution for providing a durable modern look for high traffic, commercial applications where it can also help to reduce the need for excessive lighting. This makes it the perfect acoustic choice for education, sports, infrastructure, entertainment, hospitality, recreational and multi-functional facilities.



Construction notes

SUBSTRUCTURE

Contrapanel boards can be fixed to a timber or metal substructure. Use framing with a minimum 50mm fixing face.

For ceilings: install framing at maximum 200mm spacing

For walls: install framing at maximum 300mm spacing

INSTALLATION OF PANELS

The Contrapanel boards are laid perpendicular to the framing. Short edge joints must be backed by a framing member.

Fix the boards using white Contrapanel screws at maximum 170mm spacing. Screws must be applied within the non-perforated perimeter edges and between the perforation fields. To aid fixing use the cardboard template supplied to mark the screw hole positions. The Contrapanel screws (3.8 x 33mm) remain visible with a white head.



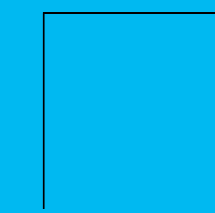
Installations such as lighting fixtures, loud speakers, etc. must be attached to framing members only. Ensure framing is designed to carry any additional load.

Wall and ceiling cavities can be filled with Earthwool to improve sound absorption and insulation.

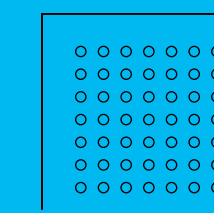


Details

SURFACES

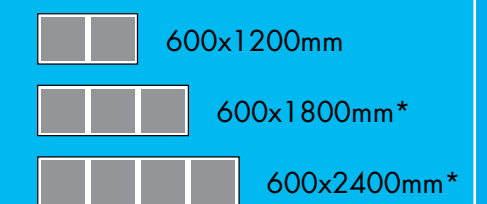


Contrapanel R
Unperforated Regular
White (as RAL 9016)
Bevelled edge on 4 sides
Open Area: 0%



Contrapanel G1F
Perforated Globe 6mm round hole
White (as RAL 9016)
Bevelled edge on 4 sides
Open Area: 10.18%

STANDARD PANEL SIZE

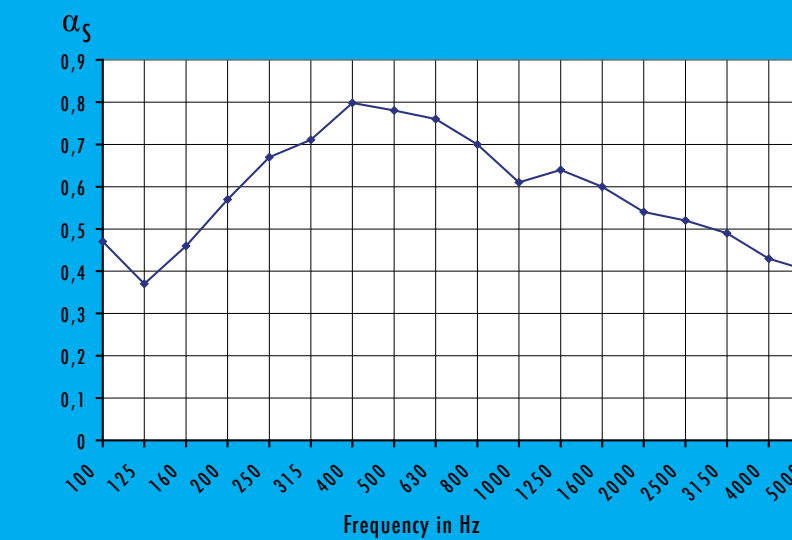


(*Non-stock item available to order)

PANEL WEIGHT
(without substructure)
unperforated: 9.4 kg/m²
perforated: 8.5 kg/m²

ACOUSTIC VALUES FOR CEILING LINING

Tested suspension height: 200 mm without mineral wool
Sound absorption for G1F in accordance with EN 11654: $\alpha_w = 0.65$



Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
α_w	0.47	0.37	0.46	0.57	0.67	0.71	0.80	0.78	0.76	0.70	0.61	0.64	0.60	0.54	0.52	0.49	0.43	0.40

SAFETY

Contrapanel is not classified as hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC). It is non-toxic and non-flammable.

A Material Safety Data Sheet (MSDS) for Contrapanel is available at: knaufplasterboard.com.au or knaufplasterboard.co.nz or by calling 1300 724 505 (AU) 0800 884326 (NZ).

REVERBERATION TIME

Use the Knauf RT60 calculator to estimate the amount of Contrapanel required to achieve the desired reverberation time.

