

## PRODUCT DATA SHEET

### Key Benefits

- Excellent sound absorption properties provide superior acoustic comfort
- Continuous perforations create a seamless appearance
- Easy application with new UFF edge as standard
- Truly complete system with Knauf Wide Face Furring Channels and matching clips
- Unique built-in air purifying CLEANEO Technology that removes odours and pollutants to improve the overall quality of indoor air



Stratopanel comes with a standard charcoal fibre fleece backing material which prevents dust ingress into the room and assists with acoustic performance.

**Stratopanel** is a unique acoustic wall and ceiling lining with built-in air purifying CLEANEO Technology which reduces both smells and airborne pollutants, such as VOCs, improving the overall air quality. Stratopanel meets the high level of acoustic performance required for commercial areas such as offices, hospitals, gymnasiums and restaurants.

### Product Information

SHEET SIZE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT* (kg/m <sup>2</sup> )
	12.5*		1188 - 1200	
STANDARD PATTERNS (Continuous)	Standard Circular (8/18 R) Alternating Circular (12/20/66 R) Standard Square (12/25Q) Random Plus (8/15/20 R) Standard Circular (12/25 R) Random Rectangular (Random RE)			
FIRE HAZARD PROPERTIES	Group 1 material according to the requirements of BCA Section C1.10 Fire Hazard Properties Average Specific Extinction Area < 250 m <sup>2</sup> /kg as required by BCA Specification C1.10a, Clause 3(c)			
HAZARDS IDENTIFICATION	Not classified as hazardous according to the criteria of Safe Work Australia			

\*Weights indicated are nominal. Minimum order quantities and lead times may apply.

### Application

Stratopanel is used for internal wall and ceiling lining applications where control of sound absorption and reverberation time is required.

It is ideal for ceilings in high traffic commercial areas and can also be used in residential applications such as open plan living areas and home theatres.



For complete installation and technical performance details please refer to the Stratopanel Manual - Dec 2018.

Stratopanel depicted above with optional express jointed finish.

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### Standard UFF Edge Type



Pre-primed on all four edges



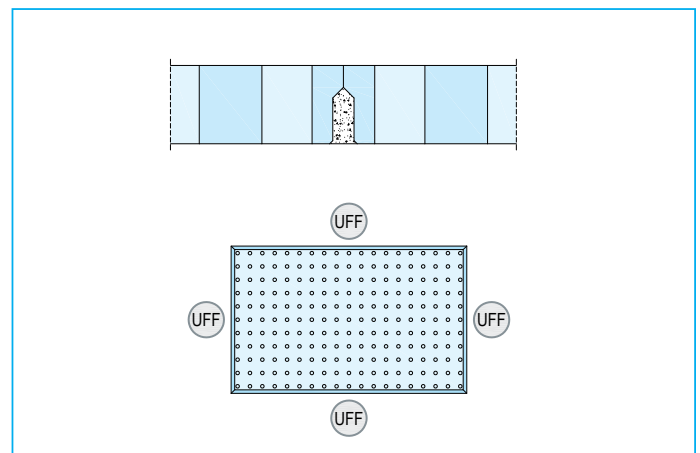
Improved tough edge protection



180° rotation of cut sheets possible



Simpler installation with less site waste



Design	Perforation pattern	Perforation ratio (%)	Absorption ( $\alpha_w$ /NRC)	Board dimensions		Edge type
				Width (mm)	Length (mm)	UFF
<b>Standard perforation patterns</b>						
Circular R	8/18 R	15.5	up to 0.7	1188	1998	•
	12/25 R	18.1	up to 0.75	1200	2000	•
Square Q	12/25 Q	23.0	up to 0.8	1200	2000	•
Alternating Circular R	12/20/66 R	19.6	up to 0.7	1188	1980	•
Random PLUS R	8/15/20 R	9.9	up to 0.5	1200	2000	•
Random Rectangular RE	-	13.6	up to 0.55	1199	1999	•
<b>Specialty perforation patterns</b>						
Circular R	6/18 R	8.7	up to 0.5	1188	1998	○
	10/23 R	14.8	up to 0.7	1196	2001	○
	15/30 R	19.6	up to 0.75	1200	1980	○
Square Q	8/18 Q	19.8	up to 0.75	1188	1998	○
Alternating Circular R	8/12/50 R	13.1	up to 0.65	1200	2000	○
Random PLUS R	10/16/22 R	12.6	up to 0.6	1200	2000	○
	12/20/35 R	9.8	up to 0.5	1200	1875	○

• Standard stock    ○ Non-stock item.  
Minimum order quantities and lead times may apply



Knauf provides **room for expression** with an additional selection of specialty Stratopanel perforations as well as edge types and a choice of black or white fleece. Available to order with typical lead time of 12-16 weeks.



#### Specialty Edge Type

Linear edge is a compound free edge type. Linear edge boards come with bright white paper and does not need a sealer undercoat.

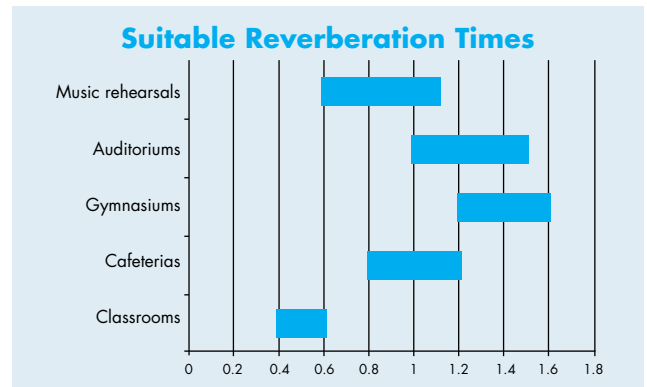
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### Acoustic Performance

Whilst Stratopanel has unique air purifying capabilities, its main function is as an acoustic lining

Stratopanel lining has excellent sound absorption values across the frequency range and achieves an  $\alpha_w$  or NRC rating of up to 0.8\*, depending on the choice of pattern, use of Knauf insulation and the void depth.

The ideal reverberation time depends on the use of the space and the graph to the right highlights some suggested reverberation times (in seconds) to optimise the acoustic environment.



\*Square pattern 12/25 Q, 65 or 112.5mm cavity with 50mm EarthWool (min 14kg/m<sup>3</sup>)

### Knauf Stratopanel is a truly complete solution

Knauf has all components, experience and design tools to support your project from conception through to completion.

<p><b>Uniflott Jointing Compound</b></p> <p>Uniflott is a jointing compound used to deliver a strong, seamless finish. Uniflott must be used for the installation of Stratopanel. As an approximate guide a 5 kg bag will cover 50 m<sup>2</sup> of installed Stratopanel (FF edge).</p>	
<p><b>Knauf Wide Face Furring Channel</b></p> <p>Knauf Furring channel with a wide fixing face (&gt;60mm) must be used at all short edge joints.</p>	
<p><b>PVA Based Primer</b></p> <p>Prime cut edges of Stratopanel and plasterboard strips with PVA based primer, prior to jointing with Uniflott.</p>	
<p><b>Cap Screws</b></p> <p>Screw and cap for easy fixing of boards with round perforations. Cap Screws remove the need for setting screw heads, as screw fixings are hidden in the perforations holes improving the appearance of the final finish. They are ideal for use with Linear edge which does not require jointing. Available in 8, 10 and 12mm diameter and now also in 12mm square. Allow approximately 32 caps per sheet.</p>	
<p><b>Jet Spatula with Raised Edge</b></p> <p>Very useful tool for 'chipping' off excess filler from joints once Uniflott hardens. This helps to reduce damage to perforations.</p>	
<p><b>Jet Trowel with Punch</b></p> <p>Trowel which can be used to easily patch screw heads in Stratopanel with finishing compound, providing a neat finish.</p>	

### ACOUSTIC CALCULATOR

**Knauf Reverberation Time Calculator** is an innovative acoustic online tool that calculates the Reverberation Time (RT60 or T) of a room.

The acoustic calculator has been developed in-house and is unique and exclusive to Knauf. Visit [knaufcalculators.com.au](http://knaufcalculators.com.au)



To find out more about acoustics in schools, hospitals, workplaces or restaurants - download our acoustic design ebooks at [knaufplasterboard.com.au](http://knaufplasterboard.com.au)

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### Performance



#### Air Purifying

An inner layer of dehydrated zeolite with a nanoporous structure that absorbs and reduces both smells and airborne pollutants, including VOCs such as formaldehyde.



#### Sound

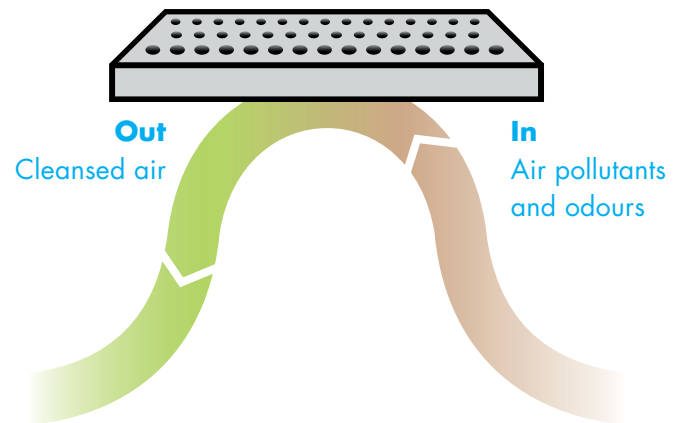
Excellent sound absorption improving the overall acoustics,  $\alpha_w$  up to 0.8\*.



#### Decorative

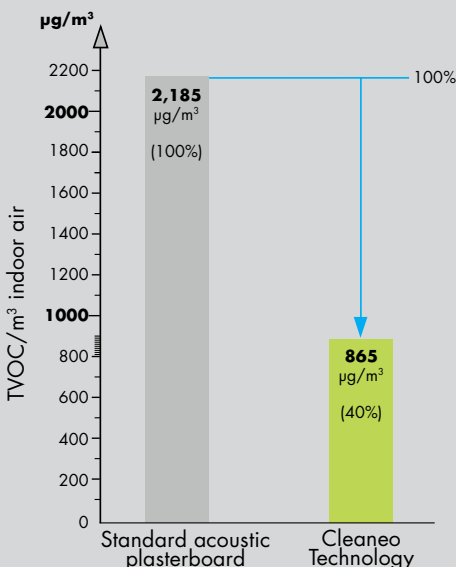
A range of aesthetic styles which can be installed to provide a premium and seamless appearance.

#### How CLEANEO Technology Works



#### Example<sup>^</sup>: Reduction TVOC in room for smokers

Comparing measurements with samples from passive accumulations at room volume 75m<sup>3</sup>, configuration rate 0.3m<sup>2</sup>/m<sup>3</sup>.



Tests have shown that CLEANEO Technology reduces the airborne levels of a number of pollutants including tobacco

smoke, triethylamine, ammonia, formaldehyde, benzene, aromatic hydrocarbons and chlorinated hydrocarbons.

#### Installation

Stratopanel must be installed using fasteners only.

For UFF edges, Uniflott Jointing Compound must be used. Care should be taken during joint-setting to avoid blocking perforations.

#### Painting

Only use roller application for painting Stratopanel. Roller application applies a uniform texture over the entire surface and ensures the paint does not contact the protective mat fixed to the back of the plasterboard. Spray application of paint is not permitted.

\*Standard Square pattern 12/25Q, 65 or 112.5mm cavity with 50mm EarthWool (min 14kg/m<sup>3</sup>)

<sup>^</sup>Stuttgart College of Technology with supporting measurements and tests undertaken by Stuttgart Central Laboratory, University of Kaiserslautern and others.

#### Warranty

Knauf's products are guaranteed by a 10 Year Warranty.

For details visit [knaufplasterboard.com.au](http://knaufplasterboard.com.au)

#### Technical Advice

AU 1300 724 505

For specification support please contact the Knauf Knowhow team at [knowhow@knauf.com.au](mailto:knowhow@knauf.com.au).