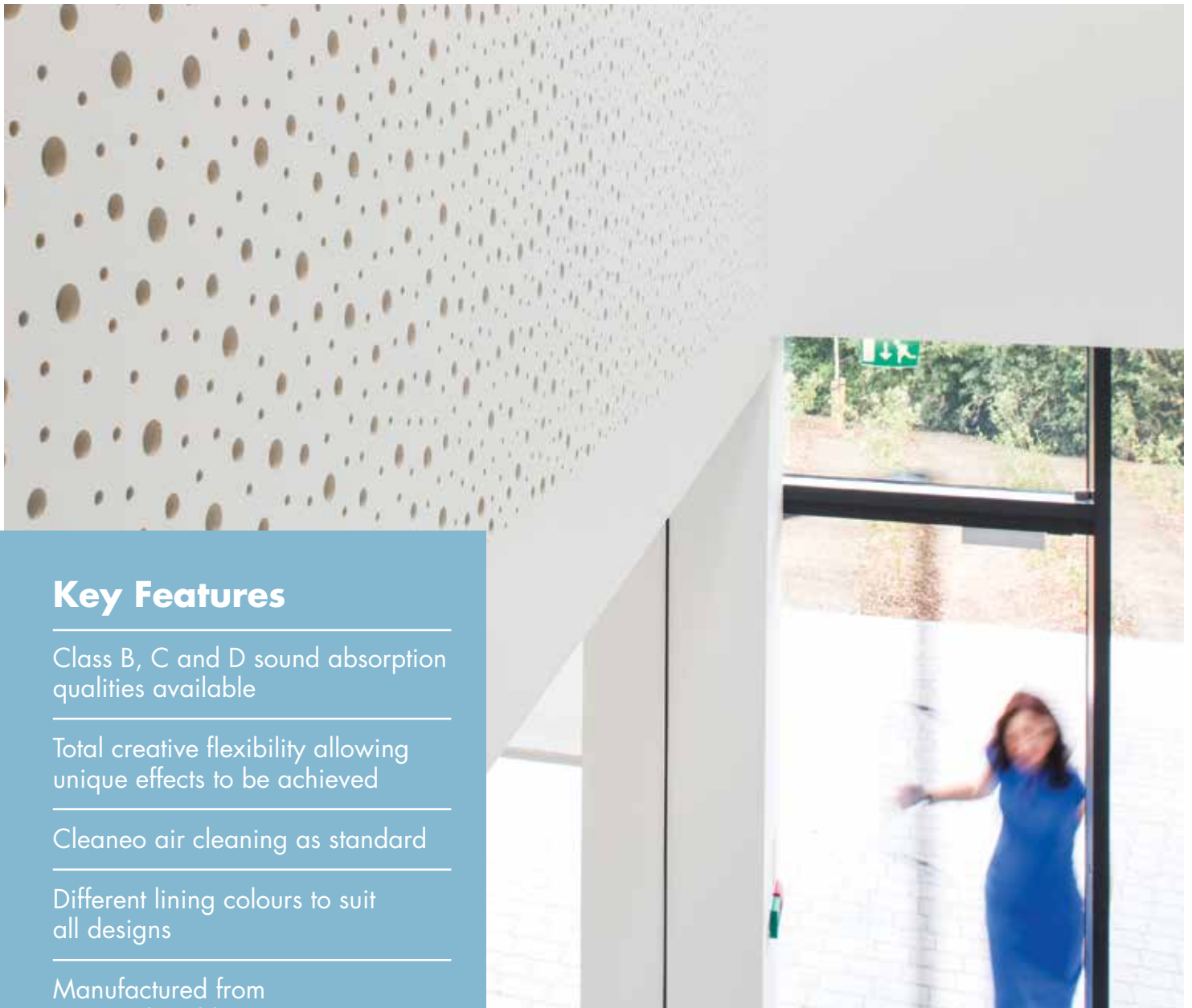# Knauf Perforated Plasterboard

For acoustic ceilings and walls

Key Features

Class B, C and D sound absorption qualities available

Total creative flexibility allowing unique effects to be achieved

Cleaneo air cleaning as standard

Different lining colours to suit all designs

Manufactured from non-combustible gypsum

100% KNAUF SYSTEM

PERFORMANCE TESTED AND APPROVED

Build for the world we live in

Knauf perforated plasterboard, the smart choice for stylish acoustic solutions

Knauf perforated plasterboard is the ideal solution for large public spaces in retail centres, office complexes, hospitals, schools, showrooms, conference halls and galleries. Combining unrivalled sound absorption performance and attractive design in one easy-to-install board.
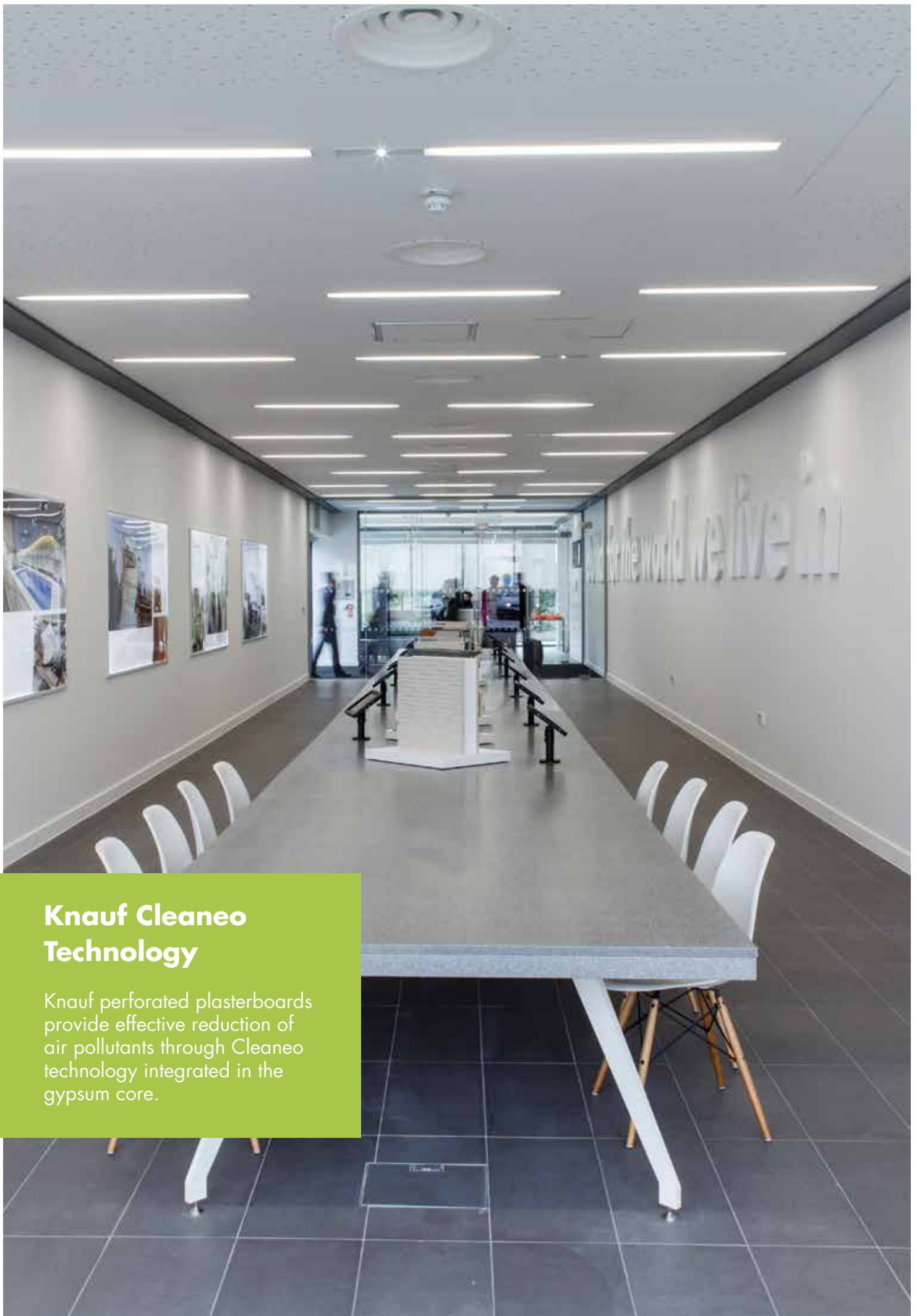
Knauf perforated plasterboard reduces noise reverberation whilst enhancing the design of any space. Twenty different perforation styles give the specifier complete creative freedom, whilst the tested and proven sound absorption performance gives complete confidence.

All Knauf perforated plasterboards are supplied with the Cleaneo air cleaning effect to reduce in-air VOCs and pollutants, and with a high-quality paper face, providing an excellent surface for direct decoration.

Contents

Knauf Cleaneo Technology

Knauf perforated plasterboards provide effective reduction of air pollutants through Cleaneo technology integrated in the gypsum core.

Knauf perforated plasterboards come with Cleaneo technology as standard. Knauf Cleaneo reduces the amount of pollutants and odours in the air creating a healthier, safer environment.

The air quality in offices, schools, hotels and restaurants can often be poor due partly to the increasing levels of air tightness, designed to save energy.

Indoor air can become contaminated in many ways. Everyday substances including paints and lacquers, cleaning and fabric-care products, perfumes, hair sprays, glues and solvents all create potentially harmful emissions, including a family of chemicals called Volatile Organic Compounds (VOCs), which have been linked to headaches, allergies and asthma.

With the objective to ensure indoor comfort to the occupants of a building, Knauf has integrated an active air purification feature called Cleaneo technology to the entire range of its acoustic materials.

Cleaneo technology is derived from a natural volcanic rock called Zeolite. When gypsum board containing dehydrated Zeolite is perforated, it purifies air as it streams through the perforations, removing unpleasant pollutants and leaving the air cleaner.

Independent laboratory tests at the Fraunhof Institute for Building Physics in Germany highlight the effectiveness of Cleaneo products. Throughout all the tests, the Cleaneo technology improved the indoor air quality by reducing the concentration of polar volatile compounds like alcohol, aldehydes, ketones and esters – all typical emissions from cleaning agents and care products.

The Cleaneo effect continues to improve air quality long after installation. There is no special maintenance required and Knauf perforated plasterboards can be coated with a suitable paint without any detrimental effect on its performance.

▲ Air Pollutants and odours

▽ Cleansed air
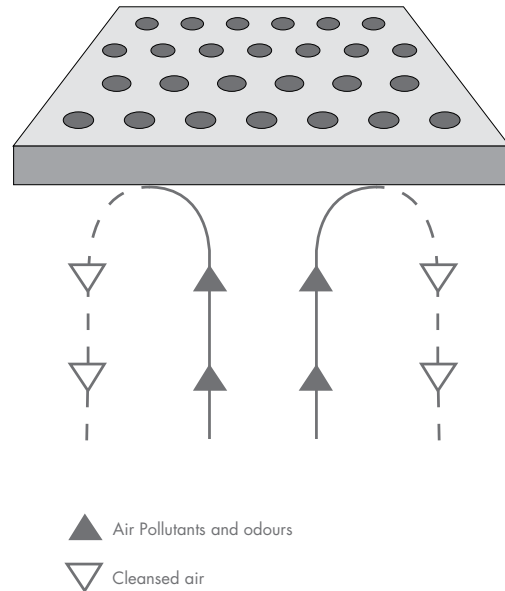
How Knauf Cleaneo Acoustic Works
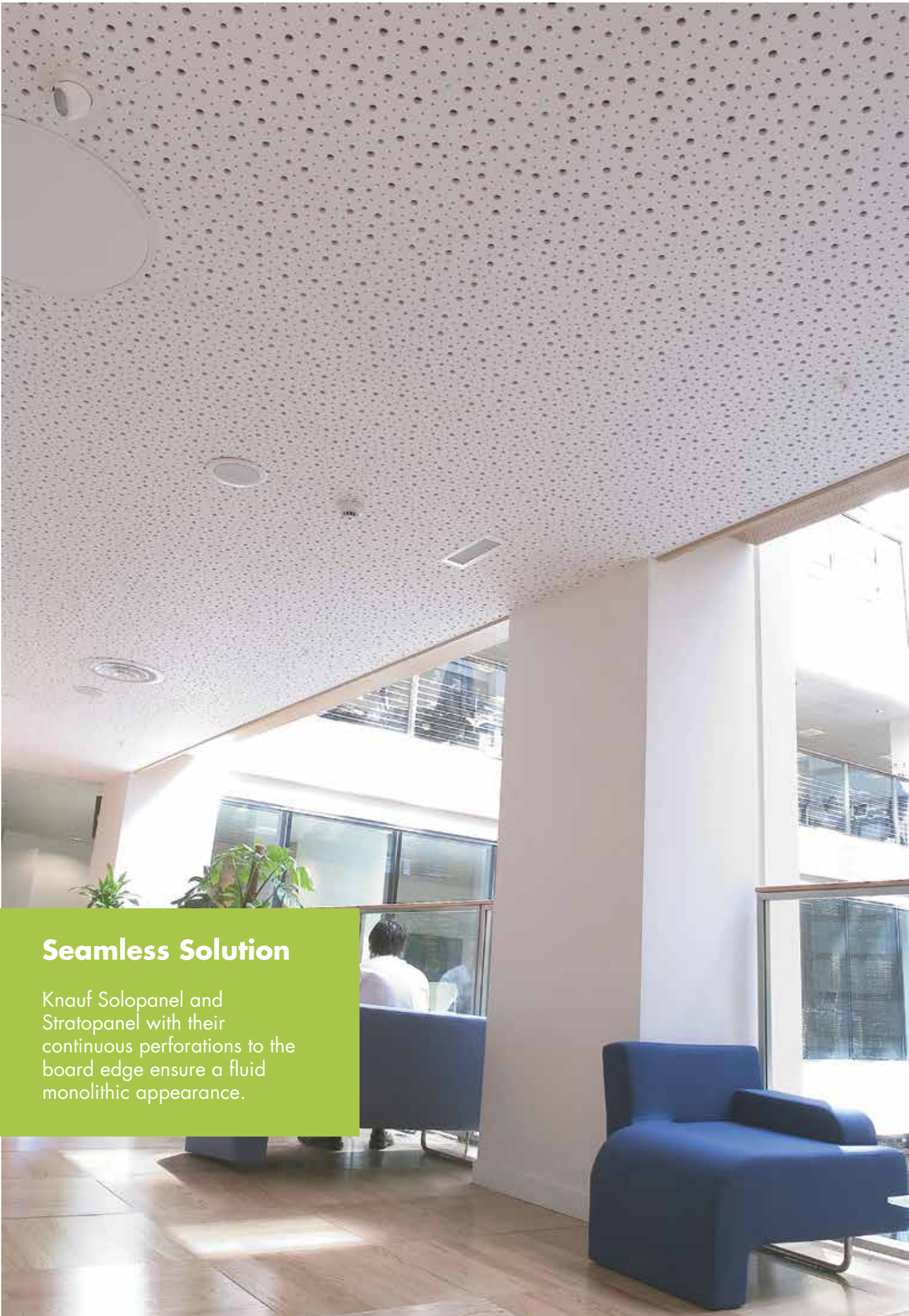
Seamless Solution

Knauf Solopanel and Stratopanel with their continuous perforations to the board edge ensure a fluid monolithic appearance.

Knauf Solopanel and Stratopanel boards, when used with Knauf Uniflott, create a strong, tapeless jointing system which offers a seamless quality of finish that simply cannot be achieved with tiles.

Knauf Solopanel and Stratopanel are identified by continuous perforations to the edge of the board offering a fluid monolithic look. Solopanel is distinguished by regular arrangements of either circular Globe or square Quadril perforations whilst Stratopanel offers an organic effect through the random distribution of three sizes of circular perforations within each panel.

Knauf Solopanel and Stratopanel are supplied with the unique UFF edge profile, which has a lapped edge on all four sides of the panel, to help ensure the boards are correctly spaced during installation.

The UFF edge detail reduces the depth of the joint between boards and closes it on three sides. This leads to a stronger joint and a reduced risk of cracking whilst optimising consumption of Knauf Uniflott filler to reduce material and water use on site.

The precise board dimensions, innovative edge profile and special fixing tools ensure that the proper perforation distance is always achieved along the length of the board edges. Perforation patterns can therefore be perfectly aligned, creating a mesmerising effect over long runs.

Introducing UFF Edge

We are proud to introduce our new UFF edge detail. The UFF edge features a lapped edge on all four sides of the panel.

Improved stability
Compared to the original FF edge, the reduction of the notch width by half and the simultaneous formation of the new joint with a 45° bevel increases the stability of the edge.

Improved protection
The surrounding notch edge is situated at the rear of the board, providing protection to the board face on all four sides, reducing waste from on-site edge damage.
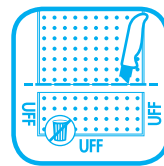
Improved efficiency
When boards are cut on-site, three usable edges remain. The cut board can be easily used at another location within the ceiling area, or be rotated by 180° for use in the next row in the perimeter area of a room.

Knauf UFF board edge profile

Regular Pattern

Knauf Akustikpanel provides
a unified expression through
regular blocks of perforation
pattern.

Where a grid like design is desired but there is no time for installing a traditional lay in grid ceiling system, Knauf Akustikpanel is the perfect solution.

Knauf Akustikpanel perforated plasterboards are available in nine designs. Each pattern is made up from a series of blocks of perforations creating a framed design.

Knauf Akustikpanel boards are available with either an FF edge profile or a four–sided tapered edge. They can therefore be installed with traditional tape-and-joint techniques, or with Knauf Uniflott to achieve a high-quality finish every time.
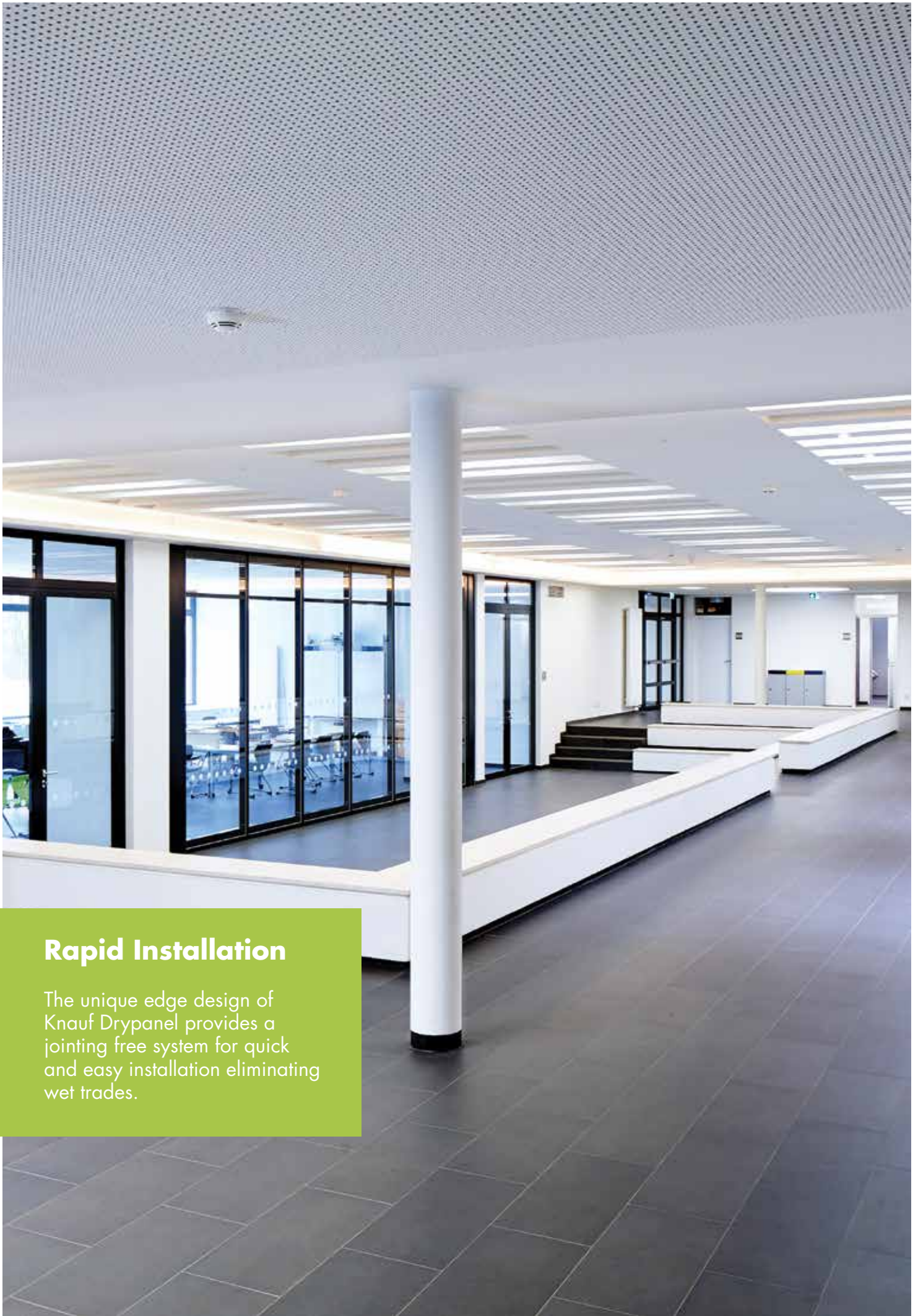
To offer even more design choices, Knauf Akustikpanel boards are also available with white, grey or black acoustic linings.
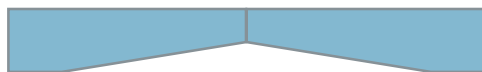
4TE Tapered board edge profile

FF board edge profile

Rapid Installation

The unique edge design of Knauf Drypanel provides a jointing free system for quick and easy installation eliminating wet trades.

Knauf Drypanel offers the fastest installation of any acoustic plasterboard system available, the ideal choice for school and commercial building renovation and other time-critical applications.

The industry-leading installation speed is made possible by the unique edge design, with precision-engineered butt joints on all four edges of the board. Knauf Drypanel boards butt together quickly and easily, allowing perfect alignment of perforation patterns in a fraction of the time.

Knauf Drypanel also requires no jointing so the potential cost, time and mess implications of filling joints above head height are eliminated. Even screw heads need no finishing as the system uses the innovative Knauf Drypanel Cap, which fixes boards securely and discreetly through the circular perforations.

The result is a striking grid design which can be finished immediately after installation. No filling of joints or screw heads means no water is used on site and impacts on other trades are reduced to a minimum.

Drypanel, LE board edge profile
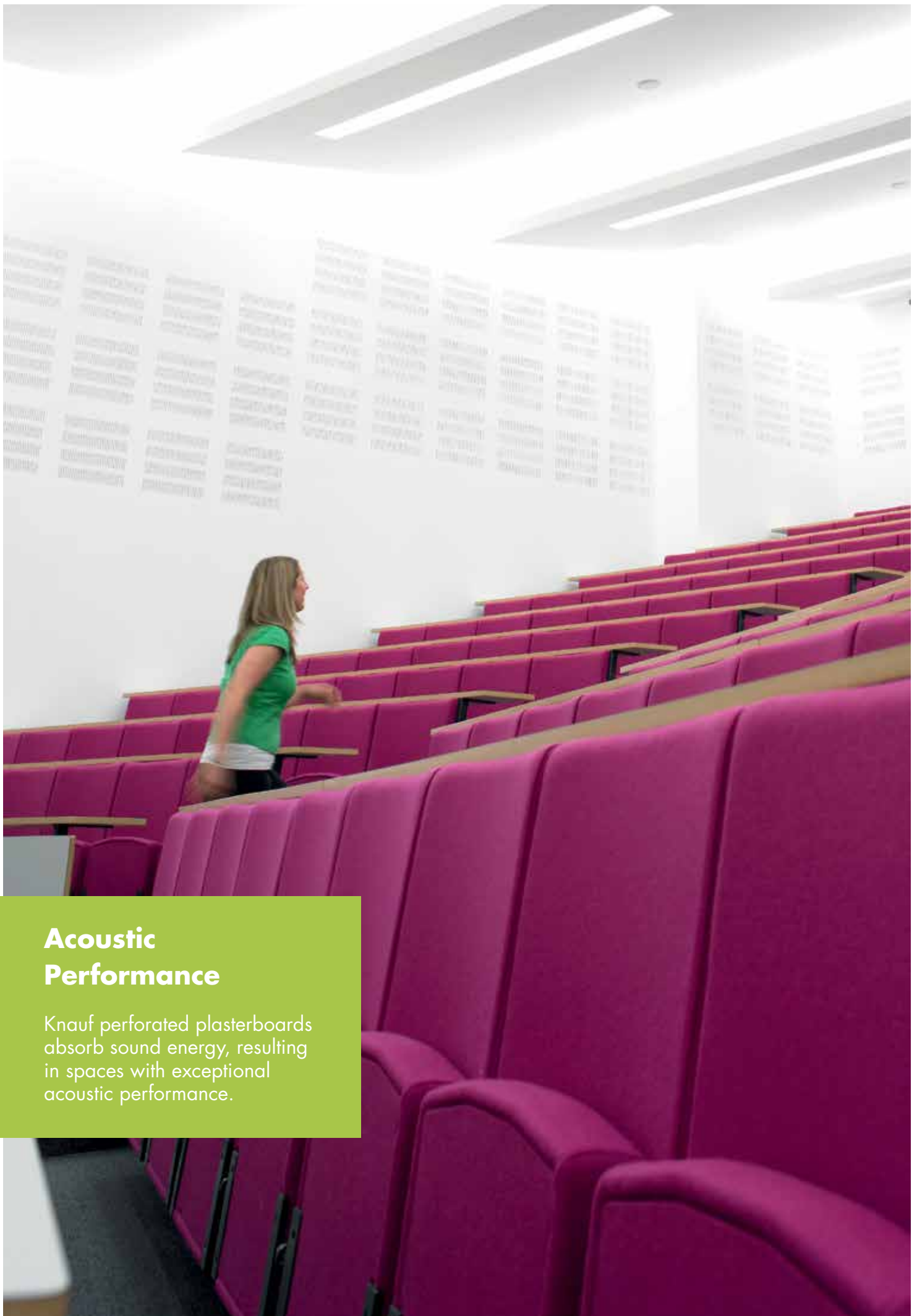
Acoustic Performance

Knauf perforated plasterboards absorb sound energy, resulting in spaces with exceptional acoustic performance.

Knauf perforated plasterboards are used in conjunction with either Knauf Wall Liner or Knauf MF Ceiling frameworks to build fully-warranted acoustic systems with unbeatable sound absorption performances. Both systems use fast construction techniques and can be specified with confidence for public areas.

How it works

Knauf perforated and patterned boards are designed to absorb sound (reverberant) energy. The holes allow noise to pass through but its path is disrupted, taking energy out on its return and reducing echoes in a room. The clarity of speech or music can be tuned by the choice of pattern, using Knauf Insulation or adjusting the void depth.

Achieving a performance class rating

The rate of absorption is classified in accordance with BS EN ISO 11654 giving each perforation pattern a class rating.

Regulations such as Approved Document E for residential, BB 93 for schools and HTM 08-01 for hospitals give guidance on the performance required.

Knauf perforated plasterboard ceiling systems achieve a minimum Class D sound absorption performance with a void depth of just 65mm. Increasing the void depth and adding insulation with select boards can improve the sound absorption performance up to an industry-leading Class B.

Pages 20-26 detail the sound absorption performance of the different perforations and patterns available.
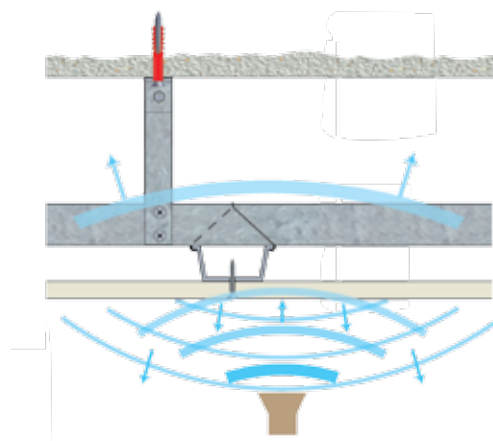
Knauf MF Ceiling with Knauf
Plasterboard
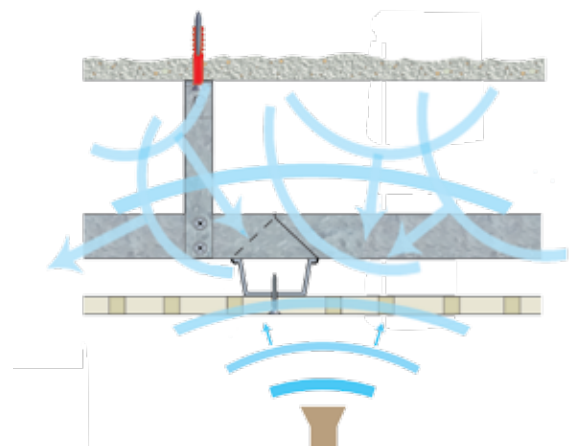
Knauf MF Ceiling with Knauf
Perforated Plasterboard

Knauf Acoustic Ceiling systems

Knauf Acoustic Ceiling systems give you the freedom to carefully control the acoustic properties of a room whilst creating stunning aesthetics.

Metal Components

Knauf MF Connecting Clip

Metal Components

Knauf MF Channel

Knauf Jointing

Knauf Uniflott

Metal Components

Knauf MF Primary Support Channel

Knauf Perforated Plasterboards

Knauf Akustikpanel

Knauf Solopanel

Knauf Stratopanel

Knauf Drypanel

Knauf Hangers

Knauf Strap Hanger

Knauf Angle Section

Other Components

Knauf Installation Kit

Knauf Screws

Knauf Drypanel Caps

Knauf MF Nut and Bolt

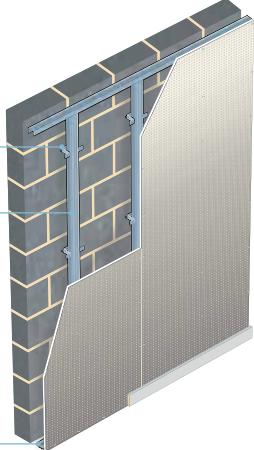### Knauf Perforated Plasterboard is also suitable for wall lining installations

Brackets

Knauf CD 'U' Mounting Bracket

Wall Lining Stud

Knauf CD 'C' Channel

Head Track and Floor Track

Knauf CD 'U' Channel - Perimeter Support

The installation of Knauf non-demountable Ceiling Systems can be broken down in to two main sections: the support frameworks for wall and ceiling applications, and the boards themselves. The boards can also be split in to two types: Perforated boards jointed with Knauf Uniflott for a seamless finish, and Knauf Drypanel boards for fast installation without the need for jointing.

The table below details the required channel centres for Knauf CD Wall Liner and for Knauf MF Ceiling Channels to ensure that the correct channel spacings are used to suit the specific board sizes.

For full MF Ceiling and CD Wall Liner installation procedures please refer to the Knauf Complete Drywall Manual.

The Knauf Installation Kit consists of two assembly aids with nodules to fit the relevant perforation and can be used to ensure correct alignment of the pattern is achieved creating a seamless finish. Assembly aids are designed for the following perforation designs: Circular 6/18, 8/18, 10/23, 12/25, 15/30, 8/12/50 and 12/20/66 but can also be used for square pattern boards.

Perforation	Size		Channel Centres		Weight
	Board Length (mm)	Board Width (mm)	Walls (mm)	Ceilings (mm)	Board Weight & Ceiling System
Straight-Line Circular Perforation	6/18	1998	1188	396	333.0	≤ 15 kg/m²
	8/18	1998	1188	396	333.0	≤ 15 kg/m²
	10/23	2001	1196	400	333.5	≤ 15 kg/m²
	12/25	2000	1200	400	330.3	≤ 15 kg/m²
	15/30	1980	1200	400	330.0	≤ 15 kg/m²
Alternate Circular Perforation	8/12/50	2000	1200	400	333.3	≤ 15 kg/m²
	12/20/66	1980	1188	396	330.0	≤ 15 kg/m²
Random Circular Perforation	8/15/20	1875	1200	400	312.5	≤ 15 kg/m²
	12/20/35	1875	1200	400	312.5	≤ 15 kg/m²
Straight-Line Square Perforation	8/18	1998	1188	396	333.0	≤ 15 kg/m²
	12/25	2000	1200	400	333.3	≤ 15 kg/m²
Acoustic Square	B4,B6,B7,B8,B9,B10	2400	1200	400	300.0	≤ 15 kg/m²
Acoustic Slot	B4,B5,B6	2400	1200	400	300.0	≤ 15 kg/m²

Note: Always control the overall image of the building line through the straights and diagonals of the rows of perforations. Lay perforated boards across the joints.

- First row of boards
- Line in centre of room
- Second row of boards

- Diagonal
- Straight
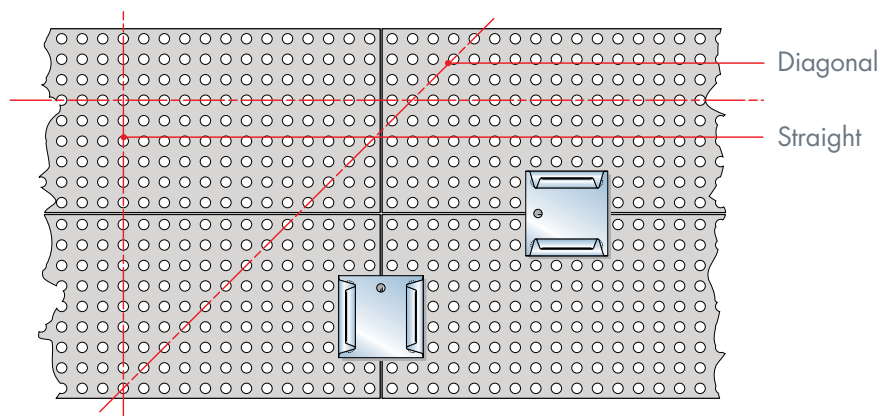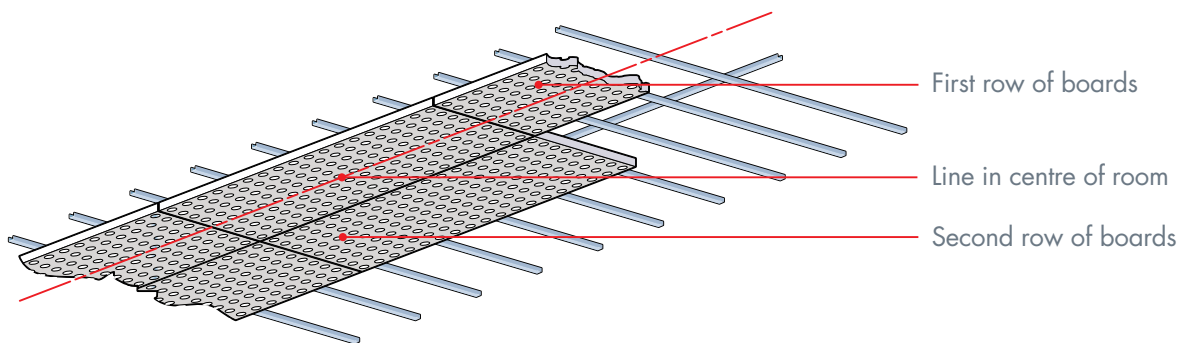
Installing Knauf perforated plasterboards on a wall liner system

Knauf CD Wall Liner is specifically designed for use with Knauf perforated boards to create the rigidity required for the seamless finish. The system provides a variable stand-off from the wall of between 30mm and 125mm.

1. Fixing Knauf CD 'U' Channel to floor and soffit

Mark guidelines on the floor and soffit to establish the positions of the floor and head tracks relative to the stand-off distance required. Mark vertical guidelines on the background to establish the Knauf CD 'C' Channel positions (see table on page 15). Knauf CD 'U' Channels should be used for the head and base along the guidelines using fixings appropriate for the background. Fix at maximum 600mm centres.

2. Positioning of Knauf CD 'U' Mounting Brackets

Mark the wall with the location of Knauf CD 'U' Mounting Brackets in line with the channel guidelines and at maximum 900mm vertical centres. Fix Knauf CD 'U' Mounting Brackets to the background, at the marked positions, using fixings appropriate for the background.

3. Positioning of Knauf CD 'C' Channels
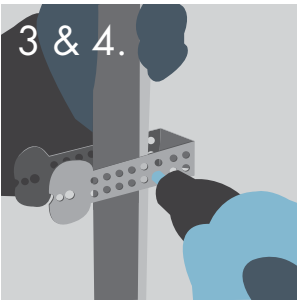
Offer up the Knauf CD 'C' Channels to engage with the Knauf CD 'U' Mounting Brackets and in the floor and head tracks. Extend the length of Knauf CD 'C' Channels, where necessary, by using Knauf CD 'C' Channel Connectors. Adjust the channels for position and alignment.

4. Fixing Knauf CD 'C' Channel

Secure the Knauf CD 'C' Channels to the Knauf CD 'U' Mounting Brackets using Knauf Waferhead Jackpoint Screws. Depending on the stand-off distance, bend back the legs of the crimped 'U' Mounting Brackets so as not to obstruct the fixing of the Knauf perforated board. Fix Knauf Angle Sections at external corners and reveals where appropriate.

5. Fixing Knauf perforated plasterboards

Start at one end of the lining and work along. Fix the boards using 25mm Knauf Drywall Screws (self tapping) at 300mm centres, reduced to 200mm at the corners placed carefully between the perforations. Knauf perforated plasterboards should be fixed parallel to the vertical Knauf CD 'C' Channels. Offer up the next board ensuring that the boards are correctly lined up and fix. Continue fixing boards in this manner until the wall is complete.

Knauf perforated plasterboards with FF or UFF edges, when used with Knauf Uniflott, result in a strong tapeless jointing system providing a high quality seamless finish.

1. Fixing Knauf perforated plasterboards

Align the first board in the middle of the ceiling and fix using 25mm Knauf Drywall Screws (self tapping) at max. 200mm centres. Offer up the next board ensuring that the board pattern is aligned correctly, using Knauf Installation Kit aids as necessary. Continue fixing boards along the long edge and then with the short edge, until the ceiling is finished.

2. Jointing using Knauf Uniflott

Cut the nozzle of the applicator to suit. Using it with a standard sealant gun fully fill the joint. It will set in approximately 90 minutes so ensure the applicator has been rinsed and cleaned.

3. Carefully remove the excess

When the jointing material has stiffened in the joints remove any excess with a jointing knife, being careful not to damage the paper. To remove Knauf Uniflott push the jointing knife away from you. Once the material has fully set apply a second coat with a standard jointing knife in order to ensure a flush joint is achieved. This stage is critical to achieving a perfect seamless finish, so care should be taken to ensure the joints are completely filled, applying a second coat if necessary.
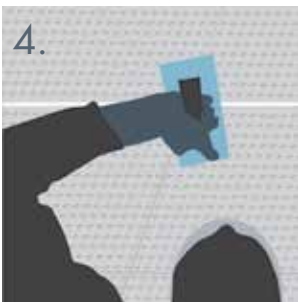
4. Sanding

Once the joints are completely filled and set, sand to a flat and even finish.

5. Decoration

Apply an undiluted coat of Knauf Wallboard Primer to the entire surface to equalise the suction levels between the joints and the boards. The surface can then be decorated using a foam rubber roller.

Frieze options

Knauf perforated plasterboards may be used in conjunction with standard wallboard to create a range of frieze options.

1. Flush-jointing to standard plasterboard

Prior to fixing the Knauf perforated plasterboards fix a minimum 100mm wide strip of 12.5mm Square Edge Knauf Wallboard to the perimeter framework. Chamfer the edge of the Wallboard where it meets the board and leave a 3mm gap ready for jointing with Knauf Uniflott.
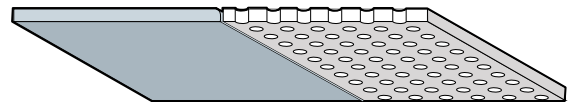
2. Flush-jointing to perforated plasterboards

Fix the perforated plasterboards as described above continuing to the perimeter. Mark out the desired position of the frieze with a chalk line, and fix masking tape to the inside. Any holes remaining within the frieze area can then be filled with Knauf Uniflott to create a smooth surface.
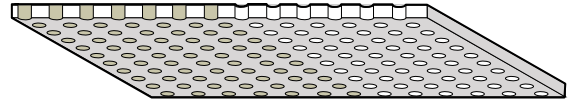
3. Raised feature using plasterboard

Fix the perforated plasterboards as described above, continuing to the perimeter. To create the raised frieze, fix a strip of 12.5mm Square Edge Knauf Wallboard, at least 100mm wide, on top of the perforated plasterboards, through to the perimeter framework.
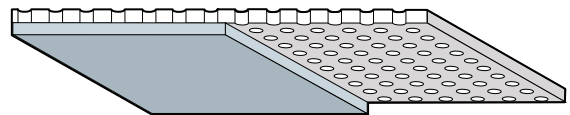
Knauf Drypanel boards, when used in conjunction with Knauf Drypanel Caps, create an extremely quick and easy to install ceiling solution that doesn't require any jointing. Each board has two notched edges and two lapped edges which allow for an easy and precise alignment.
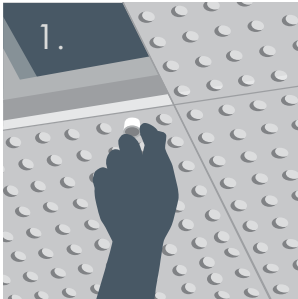
1. Installing the Drypanel Caps

Always place the notched edge adjacent to the lapped edge of the next board. Starting in the middle of the room fix the first boards in place using Knauf Drypanel Caps. The cap should be pushed into the perforation in line with the support framework.
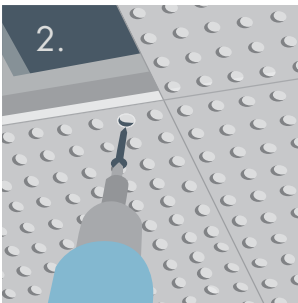
2. Fixing the boards

Once the cap is in place fix the board to the framework using Knauf Drypanel screws (supplied with the caps). Continue to fix the first row of boards then use a reference line to check that the perforation alignment is correct. Fix the second row of boards again starting in the middle of the room to form a cross shape. Finally fill in the four corners to complete the room.

Knauf Globe Seamless design

Globe 6/18: Solopanel

Area of perforation 8.7%

Board size

Width 1188mm
Length 1998mm
Weight 10.7 kg/m²

**Solopanel UFF Edge
Material Number**

White Lining 612582
Black Lining 611752

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.20	0.30	0.45	0.55	0.45	0.45	Class D
65mm with insulation*	0.35	0.45	0.50	0.50	0.45	0.50	Class D
200mm	0.40	0.45	0.50	0.45	0.40	0.50	Class D
200mm with insulation*	0.40	0.45	0.50	0.45	0.45	0.50	Class D
400mm	0.40	0.45	0.45	0.45	0.45	0.50	Class D
400mm with insulation*	0.40	0.45	0.45	0.50	0.45	0.50	Class D

Globe 8/18: Solopanel & Drypanel

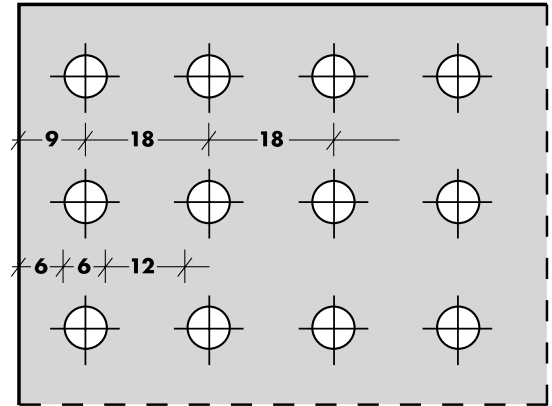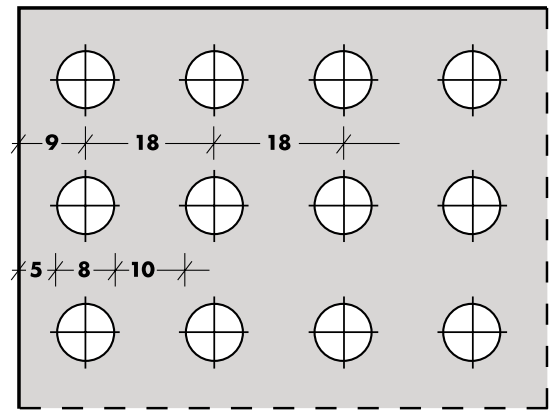Area of perforation 15.5%

Board size

Width 1188mm
Length 1998mm
Weight 9.9 kg/m²

**Solopanel UFF Edge
Material Number**

White Lining 539620
Black Lining 539617

**Drypanel LE Edge
Material Number**

White Lining 146210
Black Lining 146208

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.75	0.65	0.60	Class C
65mm with insulation*	0.35	0.55	0.70	0.75	0.65	0.65	Class C
200mm	0.45	0.60	0.70	0.60	0.55	0.65	Class C
200mm with insulation*	0.50	0.65	0.70	0.65	0.60	0.70	Class C
400mm	0.55	0.65	0.65	0.60	0.55	0.65	Class C
400mm with insulation*	0.55	0.65	0.65	0.65	0.60	0.65	Class C

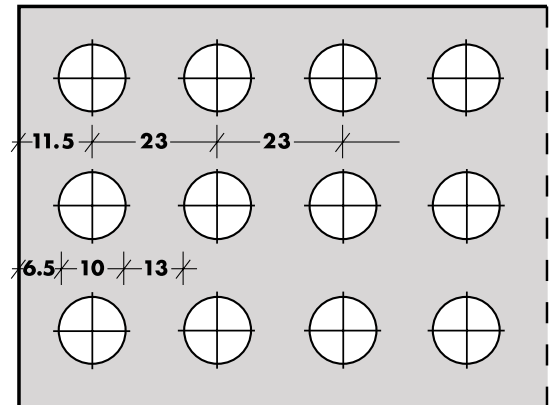## Globe 10/23: Solopanel & Drypanel

Area of perforation 14.8%

Board size

Width 1196mm
Length 2001mm
Weight 9.9 kg/m²

**Solopanel UFF Edge
Material Number**

White Lining 612587
Black Lining 611774

**Drypanel LE Edge
Material Number**

White Lining 146213
Black Lining 146212

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.70	0.65	0.60	Class C
65mm with insulation*	0.35	0.55	0.70	0.70	0.60	0.65	Class C
200mm	0.45	0.60	0.65	0.60	0.55	0.60	Class C
200mm with insulation*	0.50	0.65	0.70	0.65	0.60	0.65	Class C
400mm	0.55	0.65	0.60	0.60	0.55	0.60	Class C
400mm with insulation*	0.55	0.65	0.60	0.65	0.60	0.65	Class C

Globe 12/25: Solopanel & Drypanel

Area of perforation 18.1%

Board size

Width 1200mm
Length 2000mm
Weight 9.6 kg/m²

**Solopanel UFF Edge
Material Number**

White Lining 612588
Black Lining 591148

**Drypanel LE Edge
Material Number**

White Lining 146217
Black Lining 146215

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.80	0.70	0.55	Class C
65mm with insulation*	0.30	0.55	0.75	0.80	0.70	0.60	Class C
200mm	0.45	0.65	0.75	0.65	0.60	0.60	Class C
200mm with insulation*	0.50	0.70	0.75	0.70	0.65	0.65	Class C
400mm	0.55	0.70	0.65	0.65	0.60	0.60	Class C
400mm with insulation*	0.55	0.65	0.70	0.75	0.65	0.65	Class C

* 25mm Knauf Earthwool Acoustic Roll Insulation.
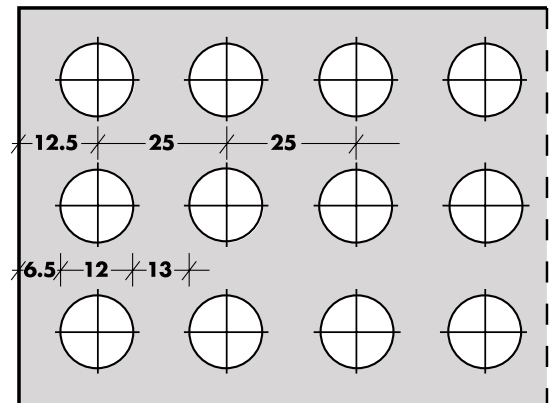
Globe 15/30: Solopanel

Area of perforation 19.6%

Board size

Solopanel UFF Edge
Material Number

Width 1200mm
Length 1980mm — White Lining 612610
Weight 9.3 kg/m² — Black Lining 612609

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.80	0.65	0.60	Class C
65mm with insulation*	0.30	0.55	0.80	0.80	0.65	0.65	Class C
200mm	0.45	0.65	0.75	0.65	0.60	0.60	Class C
200mm with insulation*	0.50	0.70	0.75	0.70	0.65	0.65	Class C
400mm	0.55	0.70	0.65	0.65	0.60	0.60	Class C
400mm with insulation*	0.55	0.70	0.65	0.75	0.65	0.65	Class C

Globe 8/12/50: Solopanel

Area of perforation 13.1%

Board size

Solopanel UFF Edge
Material Number

Width 1200mm
Length 2000mm — White Lining 612611
Weight 10.2 kg/m² — Black Lining 611754

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.70	0.60	0.50	Class C
65mm with insulation*	0.35	0.55	0.70	0.70	0.60	0.50	Class C
200mm	0.45	0.60	0.65	0.60	0.50	0.55	Class C
200mm with insulation*	0.50	0.65	0.65	0.65	0.55	0.55	Class C
400mm	0.55	0.65	0.60	0.60	0.55	0.55	Class C
400mm with insulation*	0.55	0.65	0.60	0.65	0.55	0.55	Class C

Globe 12/20/66: Solopanel & Drypanel

Area of perforation 19.6%

Board size

Solopanel UFF Edge
Material Number

Drypanel LE Edge
Material Number

Width 1188mm
Length 1980mm — White Lining 612613 — White Lining 146221
Weight 9.4 kg/m² — Black Lining 596937 — Black Lining 146220

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.10	0.30	0.60	0.80	0.60	0.55	Class C
65mm with insulation*	0.30	0.55	0.80	0.85	0.60	0.65	Class C
200mm	0.45	0.65	0.80	0.65	0.50	0.60	Class C
200mm with insulation*	0.55	0.70	0.80	0.75	0.60	0.65	Class C
400mm	0.60	0.70	0.65	0.65	0.55	0.60	Class C
400mm with insulation*	0.60	0.70	0.70	0.80	0.60	0.65	Class C
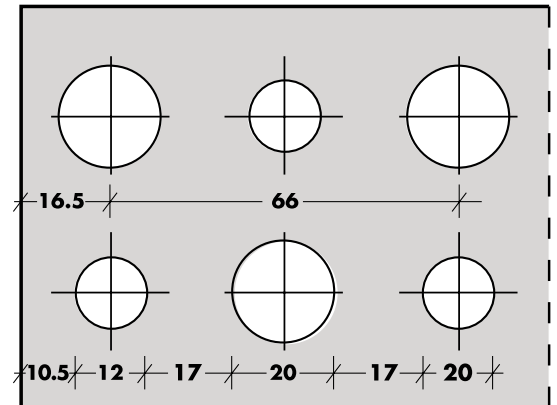
* 25mm Knauf Earthwool Acoustic Roll Insulation.

Knauf Quadril Seamless design

Quadril 8/18: Solopanel

Area of perforation 19.8%

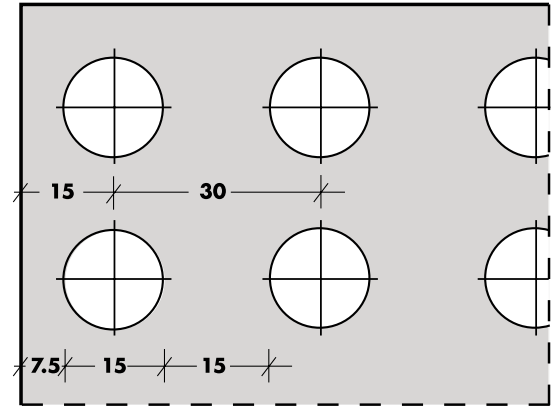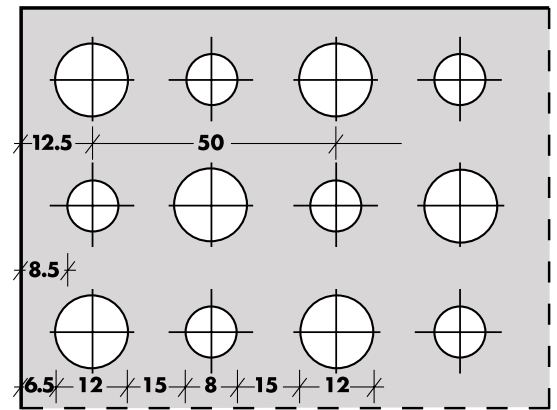**Board size**

Width 1188mm
Length 1998mm
Weight 9.4 kg/m²

**Solopanel UFF Edge
Material Number**

White Lining 539636
Black Lining 539635

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.10	0.30	0.60	0.80	0.70	0.65	Class C
65mm with insulation*	0.30	0.55	0.80	0.80	0.70	0.75	Class C
200mm	0.45	0.65	0.75	0.65	0.60	0.70	Class C
200mm with insulation*	0.55	0.70	0.75	0.70	0.70	0.75	Class C
400mm	0.55	0.70	0.65	0.65	0.60	0.70	Class C
400mm with insulation*	0.60	0.70	0.70	0.75	0.70	0.75	Class C

Quadril 12/25: Solopanel

Area of perforation 23.0%

Board size

Width 1200mm
Length 2000mm
Weight 9.2 kg/m²

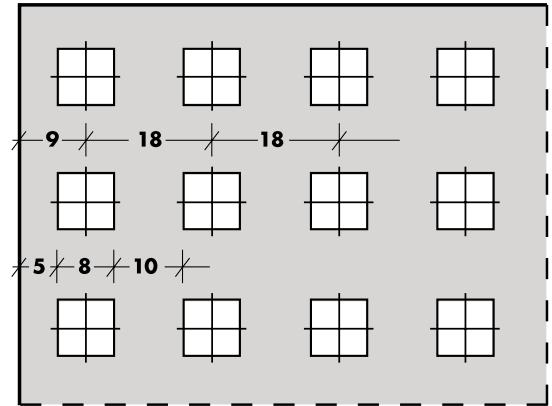**Solopanel UFF Edge
Material Number**

White Lining 539660
Black Lining 539658

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.10	0.30	0.60	0.80	0.75	0.60	Class C
65mm with insulation*	0.30	0.60	0.85	0.90	0.75	0.70	Class B
200mm	0.50	0.70	0.80	0.70	0.65	0.65	Class C
200mm with insulation*	0.55	0.75	0.80	0.75	0.75	0.75	Class B
400mm	0.60	0.75	0.65	0.70	0.65	0.60	Class C
400mm with insulation*	0.60	0.75	0.70	0.80	0.75	0.70	Class C

* 25mm Knauf Earthwool Acoustic Roll Insulation.
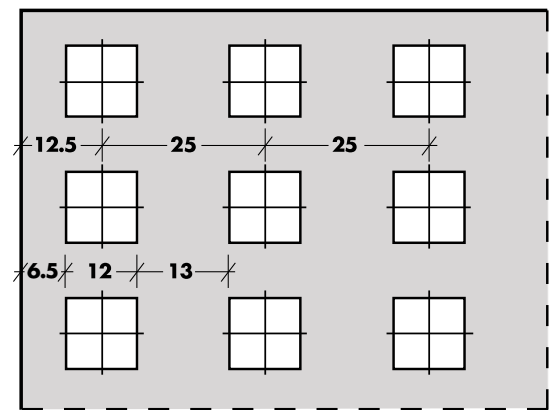
Random Globe 8/15/20: Stratopanel

Area of perforation 9.9%

Board size

Width 1200mm
Length 1875mm
Weight 10.5 kg/m²

**Stratopanel UFF Edge
Material Number**

White Lining 539668
Black Lining 539666

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.50	0.60	0.45	0.45	Class D
65mm with insulation*	0.35	0.45	0.55	0.55	0.40	0.45	Class D
200mm	0.40	0.50	0.55	0.50	0.40	0.45	Class D
200mm with insulation*	0.45	0.50	0.55	0.50	0.40	0.50	Class D
400mm	0.45	0.50	0.50	0.50	0.40	0.45	Class D
400mm with insulation*	0.45	0.50	0.50	0.55	0.45	0.45	Class D
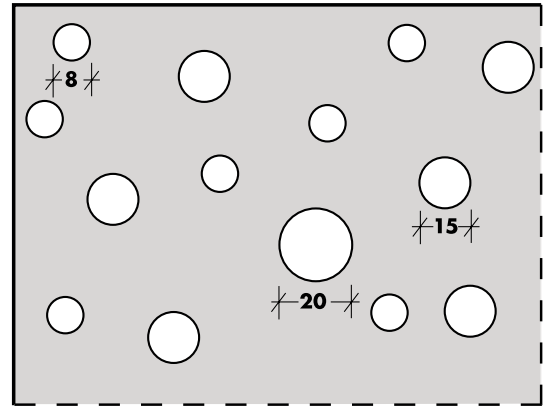
Random Globe 12/20/35: Stratopanel

Area of perforation 9.8%

Board size

Width 1200mm
Length 1875mm
Weight 10.5 kg/m²

**Stratopanel UFF Edge
Material Number**

White Lining 612620
Black Lining 603848

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.55	0.55	0.40	0.35	Class D
65mm with insulation*	0.35	0.50	0.65	0.55	0.35	0.35	Class D
200mm	0.40	0.50	0.60	0.45	0.35	0.35	Class D
200mm with insulation*	0.45	0.55	0.60	0.50	0.35	0.40	Class D
400mm	0.45	0.55	0.55	0.45	0.35	0.35	Class D
400mm with insulation*	0.45	0.50	0.55	0.50	0.35	0.40	Class D
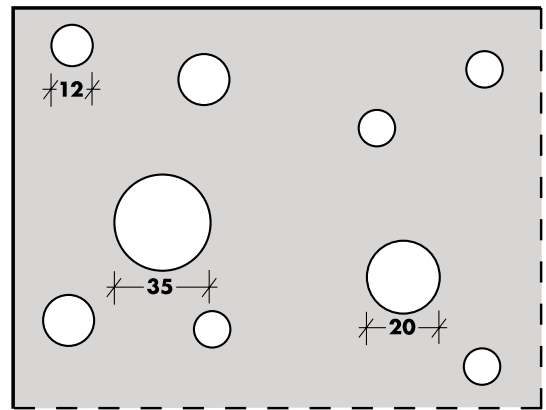
* 25mm Knauf Earthwool Acoustic Roll Insulation.

Knauf Akustikpanel - Quadril block design

Akustikpanel Quadril: Square Type B4

Area of perforation 14.4%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

FF Edge Material Number

White Lining 286412
Black Lining 286413

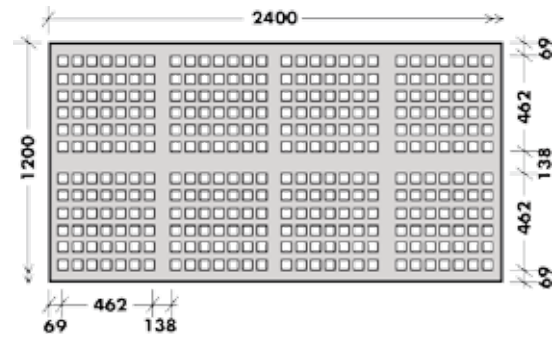| Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.55	0.65	0.55	0.45	Class D
65mm with insulation*	0.35	0.55	0.70	0.65	0.55	0.50	Class C
200mm	0.45	0.60	0.65	0.55	0.50	0.45	Class D
200mm with insulation*	0.50	0.60	0.65	0.60	0.55	0.50	Class C
400mm	0.50	0.60	0.55	0.55	0.50	0.45	Class D
400mm with insulation*	0.55	0.60	0.60	0.60	0.55	0.50	Class C

Akustikpanel Quadril: Square Type B6

Area of perforation 16.3%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

FF Edge Material Number

White Lining 286416
Black Lining 286417

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.30	0.60	0.70	0.60	0.45	Class D
65mm with insulation*	0.35	0.55	0.75	0.75	0.60	0.55	Class C
200mm	0.50	0.65	0.70	0.60	0.55	0.50	Class C
200mm with insulation*	0.55	0.65	0.70	0.65	0.60	0.55	Class C
400mm	0.55	0.65	0.60	0.60	0.55	0.50	Class C
400mm with insulation*	0.55	0.65	0.65	0.65	0.60	0.55	Class C

Akustikpanel Quadril: Square Type B7

Area of perforation 10.0%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

4TE Edge Material Number

White Lining 432044
Black Lining 432045
Grey Lining 432046

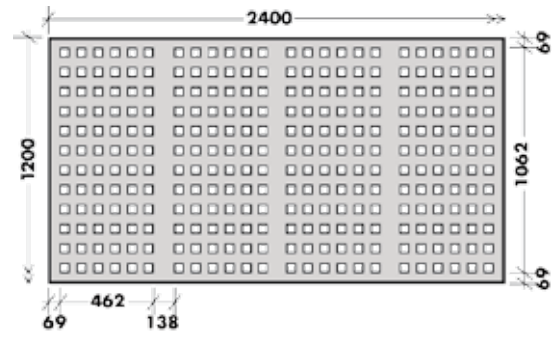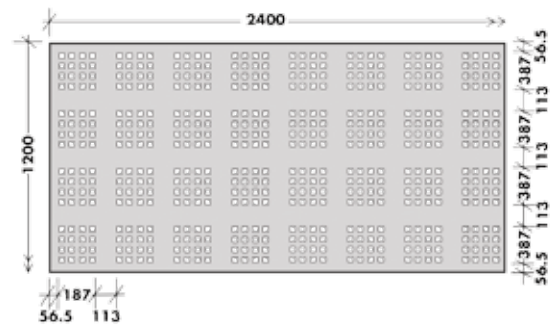| Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.55	0.55	0.45	0.35	Class D
65mm with insulation*	0.35	0.50	0.60	0.55	0.45	0.35	Class D
200mm	0.45	0.50	0.60	0.50	0.40	0.35	Class D
200mm with insulation*	0.45	0.55	0.60	0.50	0.45	0.40	Class D
400mm	0.50	0.55	0.50	0.50	0.45	0.35	Class D
400mm with insulation*	0.50	0.50	0.55	0.55	0.45	0.40	Class D

Akustikpanel Quadril: Square Type B8

Area of perforation 16.0%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

4TE Edge Material Number

White Lining 432055
Black Lining 432102
Grey Lining 432103

| Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.60	0.70	0.60	0.45	Class C
65mm with insulation*	0.35	0.60	0.75	0.70	0.60	0.50	Class C
200mm	0.45	0.65	0.75	0.60	0.55	0.50	Class C
200mm with insulation*	0.50	0.70	0.70	0.65	0.60	0.55	Class C
400mm	0.55	0.65	0.60	0.60	0.55	0.50	Class C
400mm with insulation*	0.55	0.65	0.65	0.65	0.60	0.55	Class C

* 25mm Knauf Earthwool Acoustic Roll Insulation.
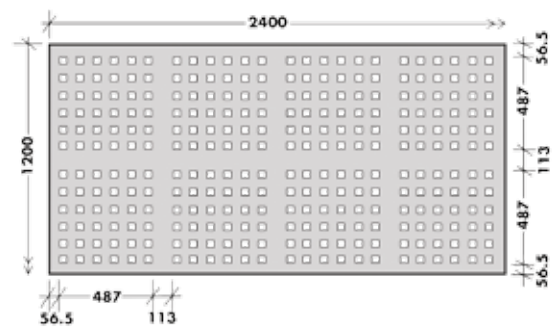
Akustikpanel Quadril: Square Type B9

Area of perforation 10.0%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

4TE Edge Material Number

White Lining 432107
Black Lining 432646
Grey Lining 432108

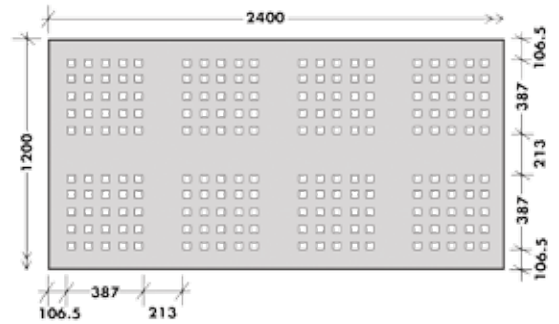| Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.20	0.35	0.50	0.50	0.40	0.30	Class D
65mm with insulation*	0.40	0.50	0.55	0.50	0.40	0.35	Class D
200mm	0.45	0.55	0.55	0.40	0.35	0.35	Class D
200mm with insulation*	0.50	0.55	0.50	0.45	0.40	0.40	Class D
400mm	0.45	0.55	0.45	0.40	0.40	0.35	Class D
400mm with insulation*	0.45	0.50	0.50	0.50	0.40	0.40	Class D

Akustikpanel Quadril: Square Type B10

Area of perforation 17.0%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

4TE Edge Material Number

White Lining 432110
Black Lining 432109
Grey Lining 432111

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.10	0.30	0.60	0.75	0.65	0.45	Class D
65mm with insulation*	0.30	0.60	0.80	0.75	0.65	0.55	Class C
200mm	0.45	0.65	0.75	0.60	0.60	0.55	Class C
200mm with insulation*	0.55	0.65	0.70	0.65	0.60	0.55	Class C
400mm	0.55	0.65	0.60	0.60	0.60	0.55	Class C
400mm with insulation*	0.55	0.65	0.65	0.65	0.70	0.65	Class C
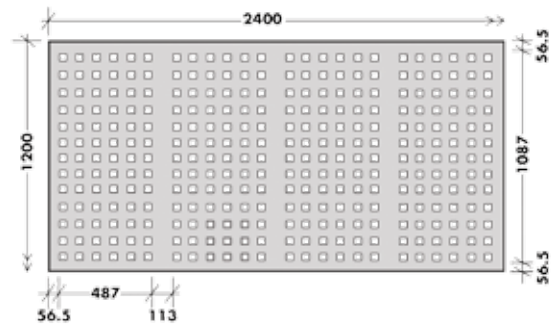
* 25mm Knauf Earthwool Acoustic Roll Insulation.

Knauf Akustikpanel - Slot design

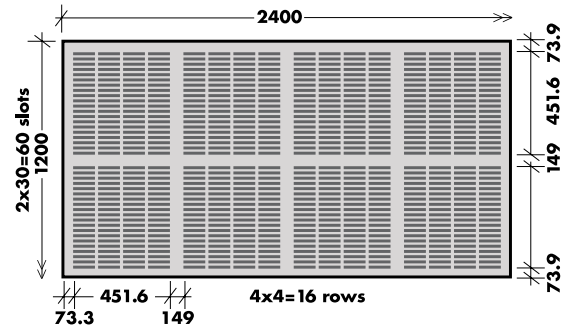## Akustikpanel Slot: Slot Type B4

Area of perforation 13.7%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

SE Edge Material Number

White Lining 286425
Black Lining 286426

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.60	0.65	0.50	0.40	Class D
65mm with insulation*	0.35	0.55	0.70	0.65	0.50	0.45	Class D
200mm	0.45	0.60	0.65	0.55	0.45	0.45	Class D
200mm with insulation*	0.50	0.65	0.65	0.60	0.50	0.50	Class C
400mm	0.55	0.65	0.55	0.55	0.45	0.45	Class D
400mm with insulation*	0.55	0.60	0.60	0.60	0.50	0.50	Class C

Akustikpanel Slot: Slot Type B5

Area of perforation 10.9%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

SE Edge Material Number

White Lining 286427
Black Lining 286428

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.55	0.60	0.45	0.35	Class D
65mm with insulation*	0.35	0.55	0.65	0.60	0.45	0.40	Class D
200mm	0.45	0.55	0.60	0.50	0.40	0.40	Class D
200mm with insulation*	0.50	0.60	0.60	0.55	0.45	0.45	Class D
400mm	0.50	0.60	0.55	0.50	0.40	0.40	Class D
400mm with insulation*	0.50	0.55	0.55	0.55	0.45	0.40	Class D

Akustikpanel Slot: Slot Type B6
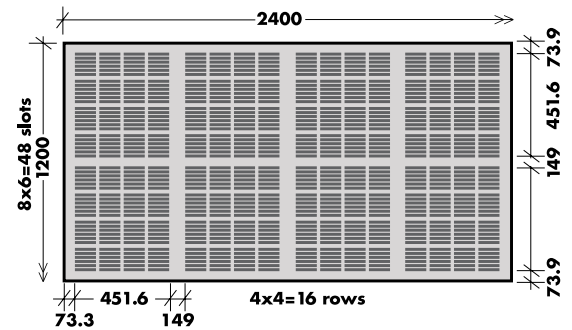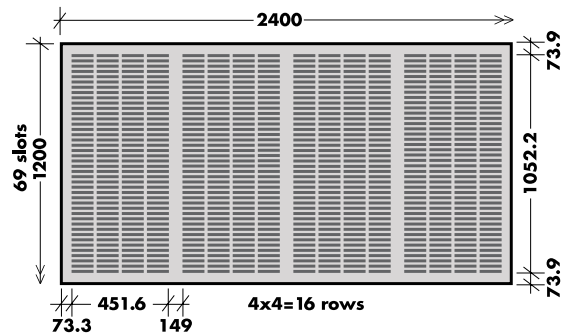
Area of perforation 15.7%

Board size

Width 1200mm
Length 2400mm
Weight 9.6 kg/m²

SE Edge Material Number

White Lining 286429
Black Lining 286430

Void Depth	Acoustic Resonance (Hz)						Performance
	125	250	500	1000	2000	4000	Class
65mm	0.15	0.35	0.60	0.70	0.55	0.45	Class D
65mm with insulation*	0.35	0.55	0.75	0.70	0.55	0.50	Class C
200mm	0.45	0.55	0.60	0.50	0.45	0.40	Class D
200mm with insulation*	0.55	0.70	0.70	0.65	0.55	0.55	Class C
400mm	0.55	0.65	0.60	0.55	0.50	0.45	Class D
400mm with insulation*	0.55	0.65	0.65	0.65	0.55	0.50	Class C

* 25mm Knauf Earthwool Acoustic Roll Insulation.

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