VoglFuge Datasheet

atkar acoustics design innovation

Product Description

VoglFuge is a unique plaster ceiling solution with excellent acoustic properties. The continuously perforated and flush jointed panels deliver a stunning aesthetic, as well as efficiency in installation.

The patented VoglFuge System doesn't use joints filler as most other plasterboard products do, allowing a significant reduction in joint finishing time and cracking. VoglFuge achieves acoustic ceilings quickly, economically and with the most reliability during installation.

Features and Benefits

- Installation without filler driving significant time saving
- Outstanding efficiency in joints finishing thanks to the unique VoglFuge strip
- Rapid edge to edge panel mounting
- Avoid complex panels alignment
- Wide range of perforation patterns
- Maximum crack resistance
- Significant reduction in onsite dust and moisture.

Up to
Group 1 Fire Rating

Up to
NRC value 0.75

Applications

Ceilings (and protected walls).

Consult Atkar for Wall applications.

Warranty & Maintenance

VoglFuge is warranted for 10 years. Refer to Atkar warranty and maintenance documents for terms.

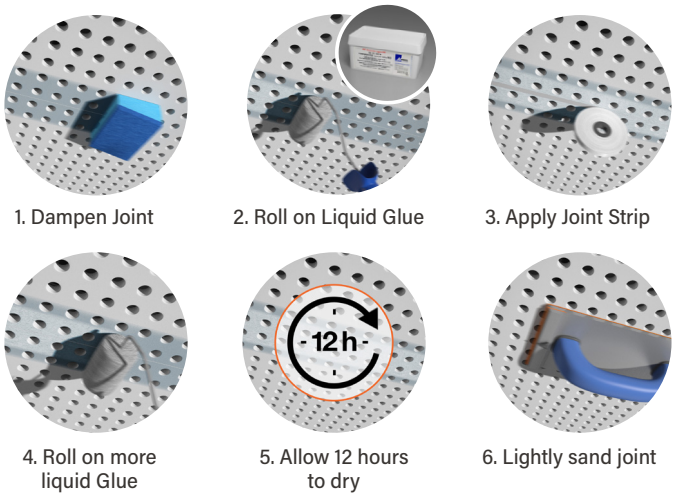
Fire Rating

VoglFuge complies with the AS 5637.1:2015, on Reaction to Fire of Internal Wall and Ceiling Linings and is rated Group 1. Please consult Atkar to discuss the reaction to fire requirements of your project.

Smart Joint Strip System instead of filler

VoglFuge uses a patented strip tape & glue process on the panel joints instead of compound filler. This smarter system is easier and faster to install and also offers maximum crack resistance.

Joint Strip System Overview



1. Dampen Joint
2. Roll on Liquid Glue
3. Apply Joint Strip
4. Roll on more liquid Glue
5. Allow 12 hours to dry
6. Lightly sand joint

Substrate

Plasterboard

Finish Options

- Raw – Coated on site
- VoglColour (Complete custom colour range available)

Refer to the *Painting Instructions Document* or consult Atkar for further information.

Material Sizes

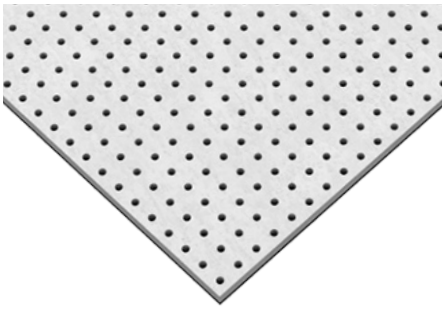
VoglFuge panels thickness: 12.5mm

Standard Panels size is nominally 2000 x 1200mm.

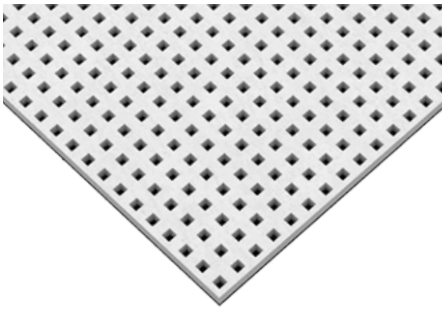
Perforation Patterns

VoglFuge can be manufactured in a variety of perforation patterns and margin options. Standard patterns are below.

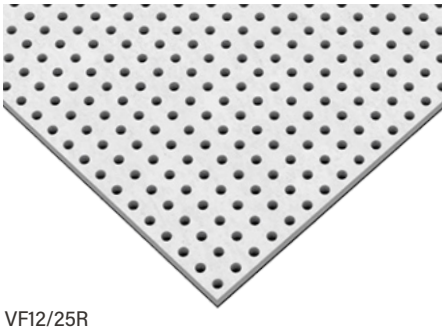
VF6/18R



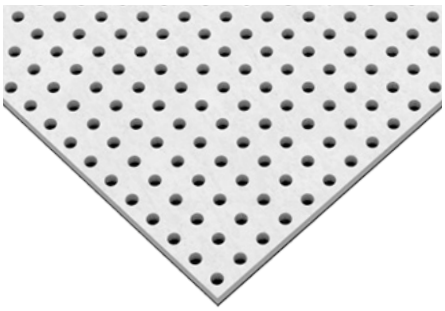
VF8/18Q



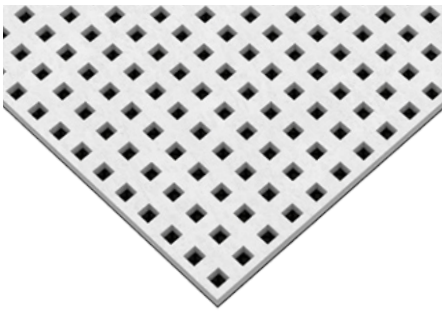
VF8/18R



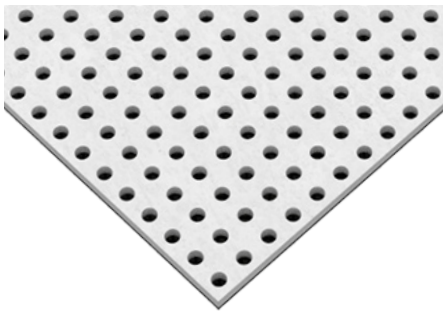
VF10/23R



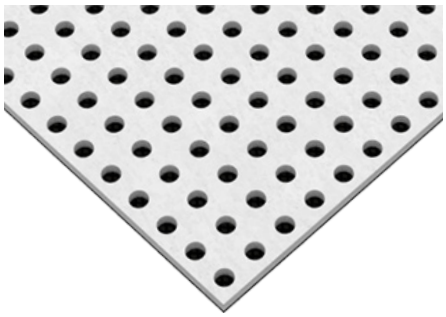
VF12/25Q



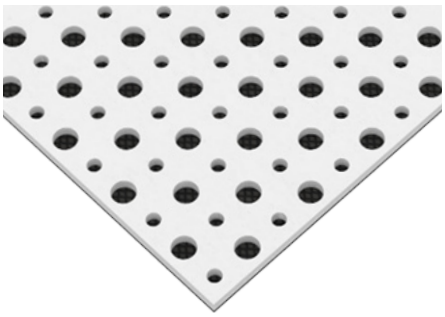
VF12/25R



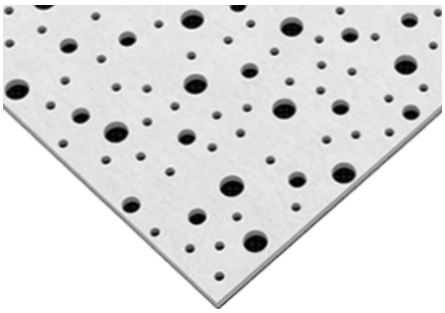
VF15/30R



VF12/20/66R



VF8/15/20R



Custom perforations available on request.

Acoustic Performance

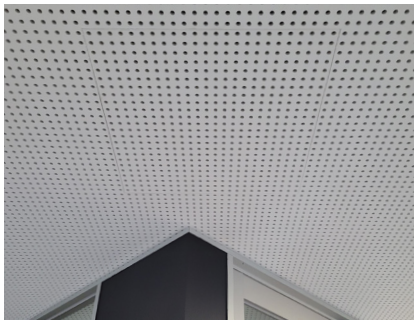
VoglFuge can reach NRC values up to 0.75, based on different open areas.

For an optimal acoustic absorption, a minimum 90mm air cavity between the panel and the wall/ceiling is recommended.

Perforation Pattern	Open Area %	Panel Size (mm)L x W
6/18R	8.7	1998 x 1188
8/18R	15.5	1998 x 1188
8/18Q	19.8	1998 x 1188
8/15/20R	9.5	2000 x 1200
10/23R	14.8	2001 x 1998
10/20/66R	19.6	1980 x 1188
12/25R	18.1	2000 x 1200
12/25Q	23	2000 x 1200
15/30R	19.8	1980 x 1200

Access Panels

Integrated Access Panels are available to match the selected perforation pattern for the ceiling.



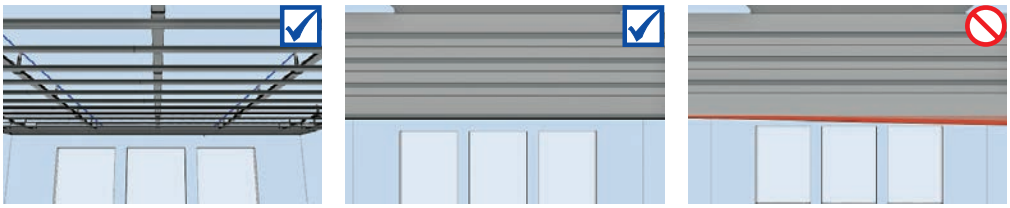
Jointing Options

Panels mounted edge to edge for flush jointing.
Butt-joint mounting available for some applications.
Refer Atkar for details.

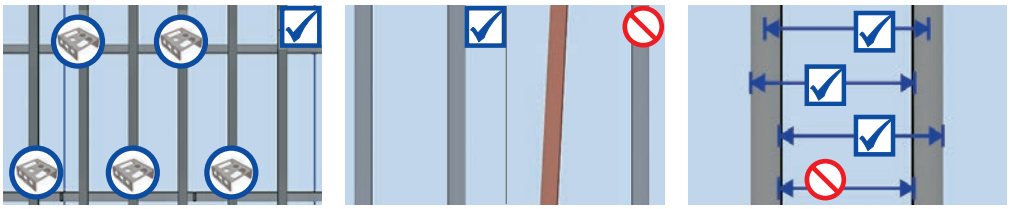
Fixing Guide - Installation

VoglFuge is mounted on a standard suspension ceiling grid system which incorporates special width furring channels to fully support panel joints. All components are available from Atkar.

Check ceiling framework for rigidity and evenness (using a straightedge).



Then check furring channel sections for centre distances and adjust, if necessary. Always mount straight connectors in a staggered manner (see figure). Measure centre distances accurately!



As viewed from entrance area, choose panel arrangement with short edges parallel to windows (main direction of light).

Locate centre of room to position first ceiling panel, also taking into account resulting ceiling perimeter to wall connections.

We recommend the following accessories for installation:

Perforated panel screws, including screw bit

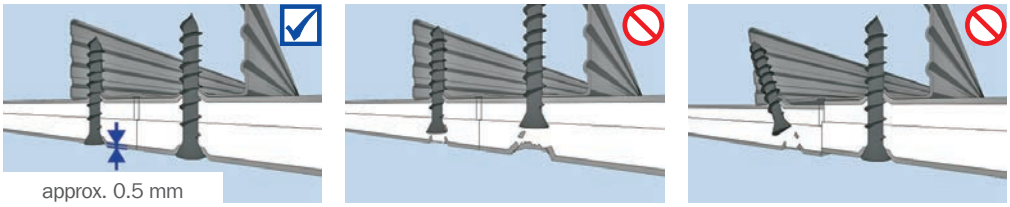
Correct handling of ceiling panels:

- Always take load carrying capacity of building into account when storing ceiling panels
- Do not store ceiling panels upright, but always flat on panel pallets
- Always carry ceiling panels with short edges upright
- Protect ceiling panels from moisture; relative humidity should be 40 - 80 %
- Avoid major temperature fluctuations
- Do not expose stored ceiling panels to direct sunlight

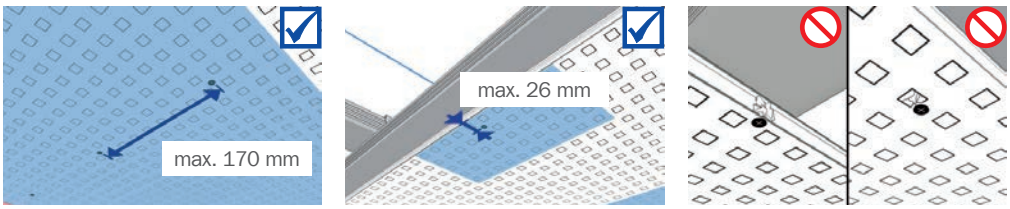
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

Perforation pattern	Centre distance
Acoustic plaster system panel 8/18R, 12/25Q,	334 mm

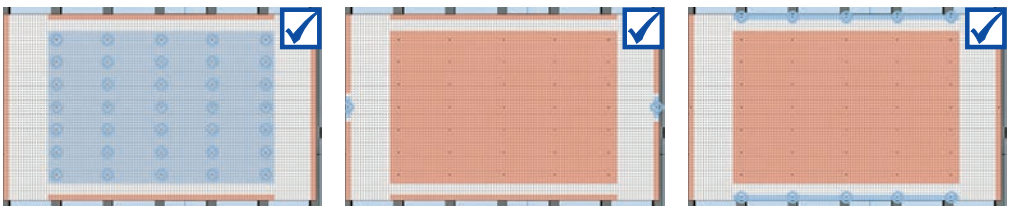
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



Screws should be spaced maximum 170 mm from fixing point to fixing point. Distance between screw and panel edge not to exceed 26 mm.
Avoid damaging acoustic design panels by countersunk heads.



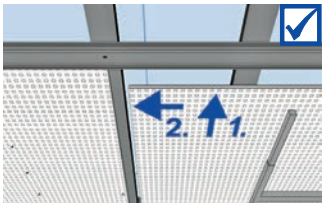
First, screw ceiling panel to framework in centre of panel, then lower panel lifter and fix a screw in centre of each short edge before finally screwing down long edges.



Fixing Guide - Installation

Take note of panel labelling (stamp) and mount in direction of reading (all stamps should point in same direction).

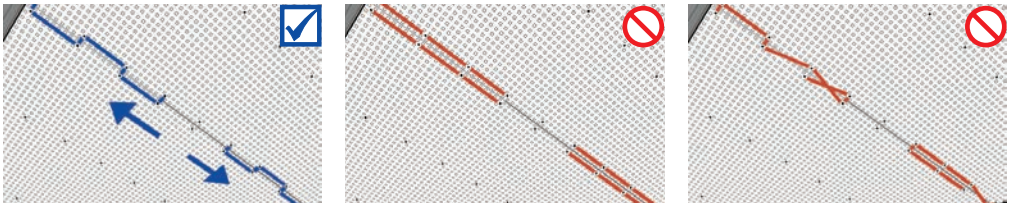
Use a straightedge as end stop. Position next panel by sliding it to first alongside straightedge and fix in place.



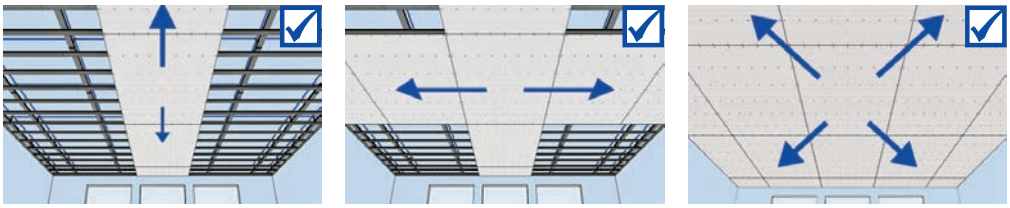
General site conditions / Manufacturer's instructions:

- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Installed ceiling surfaces must not be connected to perimeter walls
- Place any insulation directly onto the ceiling panels
- Carry out any additional work on ceiling (access openings, lighting recesses, etc.) immediately after installing ceiling panels

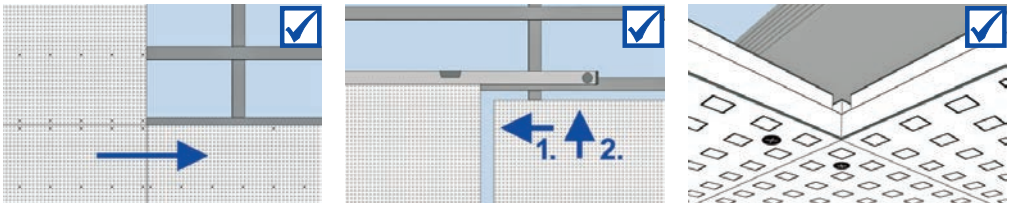
Fix screws in panel joint area using alternating pairs across panels (“zig-zag” principle), starting left or right next to screw which has already been fixed. This will create flush joint areas.



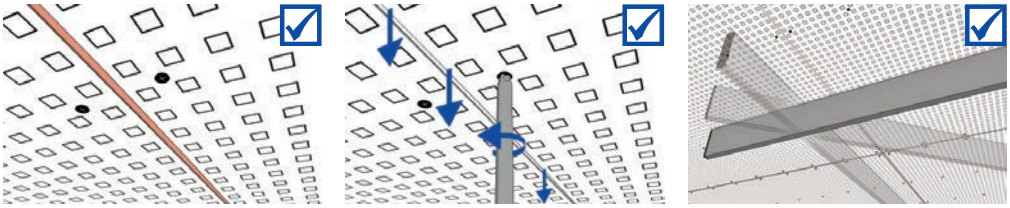
Install ceiling panels first length-ways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.



Lay remaining ceiling panels edge-to-edge, always checking that joints are level and using "cross joint" system only.

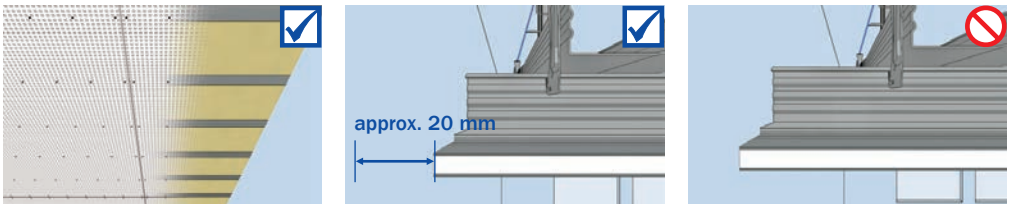


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.

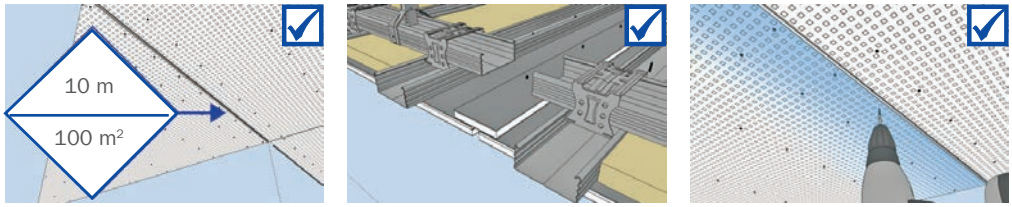


Place any insulation directly onto back of ceiling panels.

We recommend fitting an open shadow gap at the wall connection.



Provide for expansion joint of 5 to 10 mm every 10 linear metres / 100 m².
Additional board strip above joint must be screwed down on one side only.



Onsite storage, handling and installation instructions

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Receiving Products

Once you have received your order, it is important to allow the panels to acclimatise for at least 48 hours in its original packaging prior to installation. Only remove the packaging on the day of the installation and store according to the following instructions.

Storage

The storage area should be protected from the elements including sun, rain and wind to avoid staining and fading. While awaiting installations, the panels should be kept at a stable room temperature, stable humidity and not exposed to the weather.

Protect panels from moisture and accidental water. Careful storage is very important for subsequent use of these boards.

All packs should be evenly supported at each end and at intervals in between to maintain sheets in a flat condition. Spacing of supports should not exceed 600mm to avoid sagging.

Store clear of the ground and place panels so that they will not be exposed to any mechanical damage.

Handling

Handle the product carefully to avoid damages during transport. The most vulnerable parts of board during handling operations are edges, corners, finished surface and bottom sheets in a stack.

It is essential to avoid any contamination of the surface likely to cause permanent damage.

Surfaced boards should always be lifted from the pack to avoid damage. Do not slide panels or rest the good side of the panel against the floor.

Once the packaging has been opened, cover the panels with cardboard, cloth or shrink wrap until they are installed. If panels must be repacked, replicate as closely as possible the original pack to maintain straightness and quality.

Installation in a controlled environment

Atkar acoustic and decorative panels are for internal use only and **must be stored, installed, and maintained only in a stable environment**, avoiding very humid areas and extremely dry areas.

Open the package and fit the panels in the final stage of building works when windows and external doors are in place already. This allows the rooms to have a controlled temperature and humidity, preventing moisture from entering the panels.

Painting recommendations

The AS/NZS 2311:2017, the Association of Wall and Ceiling Industries (AWCI) and the Australian Paint Manufacturer's Federation (APMF) have defined the guidelines and recommendations for finishing plasterboard and fibre-cement with the objective to deliver to deliver the appearance of a uniform surface texture and colour.

Three coat system

Plasterboard and Fibrecement Atkar products, including the Vogl Range, supplied raw and painted on site, must feature a three-coat system

- Sealer Undercoat x1
- Top Coat x2.

Atkar recommendations for acoustic panels

- A short nap roller must be used
- Spray application of primer and paint must be avoided; the paint can affect the ability of the Integrated Acoustic Backing (IAB) of absorb the sound
- Avoid using diluted or mixed paint for primer
- Do not use alkaline coats, such as lime, water glass and pure silicate-based paints, that are unsuitable for acoustic design ceilings
- Drying time instructions of primer and coating must be observed.

Failure to following the above guidelines may results in joins being visible and warranty avoided.

Refer to the Atkar Warranty and Maintenance documents or contact Atkar for further information.