

TM

Au.diVoglFuge data sheet

Product Description

Au.diVoglFuge is a unique, continuously perforated flush jointed plaster ceiling solution. The acoustic design ceiling delivers stunning aesthetics for drywall construction, efficiently, economically and with the most reliability during installation for guaranteed results.

Product Features

- Wide range of perforation patterns
- Install ceilings without filler - significant time saving
- Quick mounting of panels edge-to-edge
- No more complex aligning of panels
- Quickest possible joint finishing with the unique patented VoglFuge system
- Maximum crack resistance
- Less dust and moisture
- GECA certified as a sustainable choice

Applications

Ceilings

Jointing Options

Panels mounted edge-to-edge for Flush Jointing

Finish Options

- Raw: coated on site
- Inluxe Colour: ask for details

Please Note: As per AS/NZS 2311:2017 painting of plasterboard must comprise a 3-coat system with a short nap roller. Failure to do so may result in joins being visible and warranty voided.

- Sealer Undercoat x 1
- Top Coat x 2

Atkar recommends:

- Use light coloured paint only
- Do not use gloss paint
- Use a suitable sealer undercoat
- Use good quality paint
- Allow sufficient drying time between coats
- Do not use a spray gun to paint plasterboard
- Apply paint with a short nap paint roller only

Access Panels

Available - ask for details

Fixing Systems

Proprietary VoglFuge fixing system

Substrates

Plasterboard

Fire Rating

For Group Number fire ratings please contact Atkar.

Warranty

Au.diVoglFuge is warranted for ten (10) years. Refer to Warranty document for terms.

Perforation Patterns

Our manufacturing technique allows Au.diVoglFuge to be produced with a variety of open area and margin options. These options are covered in the following details and are applicable to the panel sizes as indicated.

For custom patterns consult Atkar.

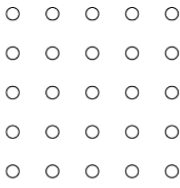
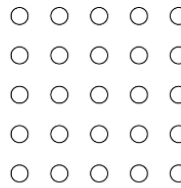
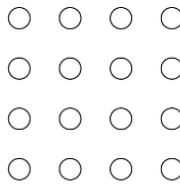
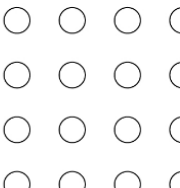
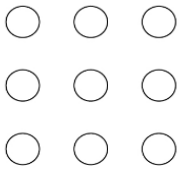
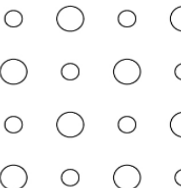
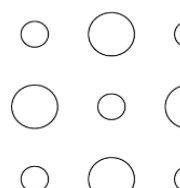


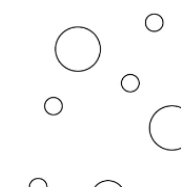
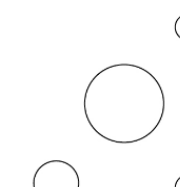
Material Sizes

Standard panel sizes are up to 1200 x 2000mm as shown below. Panel thickness is 12.5mm. For non-standard panel sizes consult Atkar.

Acoustic Performance

Open Area Guide

Code	Open Area %	Panel Size mm
6/18R	8.7	1188 x 1998
8/18R	15.5	1188 x 1998
8/18Q	19.8	1188 x 1998
8/12/50R	13.1	1200 x 2000
8/15/20R	9.5	1200 x 2000
10/23R	14.8	1196 x 2001
12/20/35R	11	1200 x 2000
12/20/66R	19.6	1188 x 1980
12/25R	18.1	1200 x 2000
12/25Q	23	1200 x 2000
15/30R	19.6	1200 x 1980

6/18R	8/18R	10/23R	12/25R
			
15/30R	8/12/50R	12/20/66R	8/18Q
			
12/25Q	8/15/20R	12/20/35R	
			

Au.diVogIFuge installation guide

Framing System

The primary profiles are hung from the structural soffit with suspended brackets using fixing materials approved by the relevant building authorities.

The centre distance and number of suspended brackets, as well as the fixation, are subject to project requirements. The CD 60/27 secondary profiles are attached to the CD 60/27 primary profiles using cross connectors.

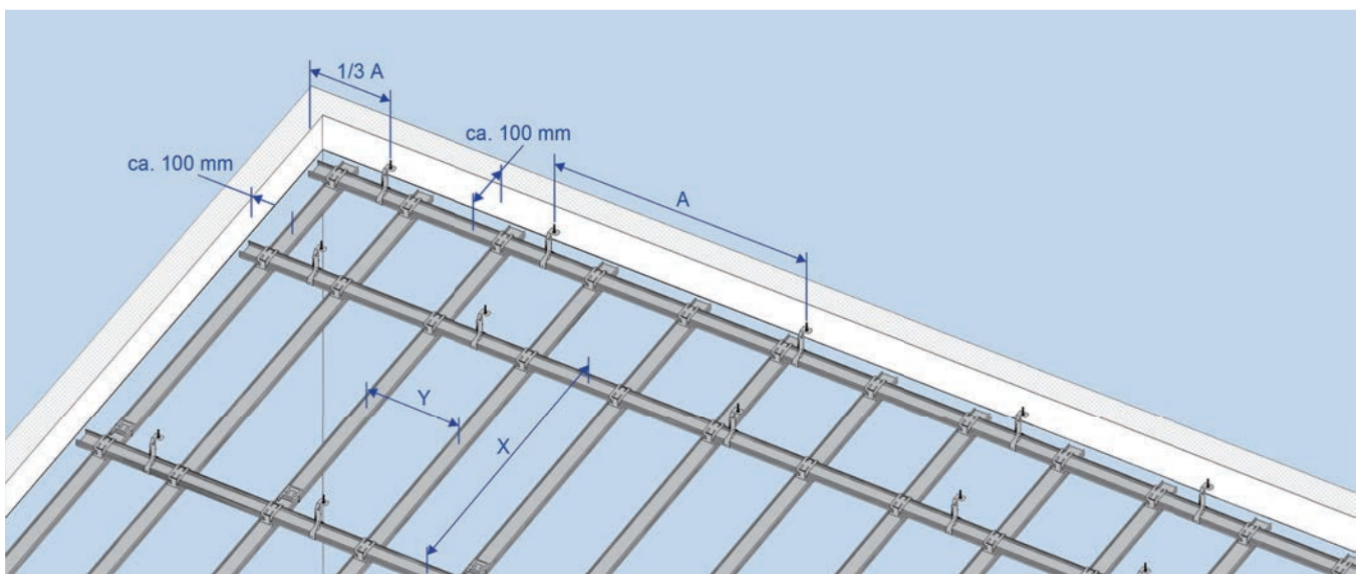
CD 60/27 are extended using straight connectors. For primary grid profiles, always ensure that the joint is close to a suspended bracket (max. 100mm). Joints should generally be staggered.

Additional items such as ventilation, sprinkler systems etc. must be individually suspended.

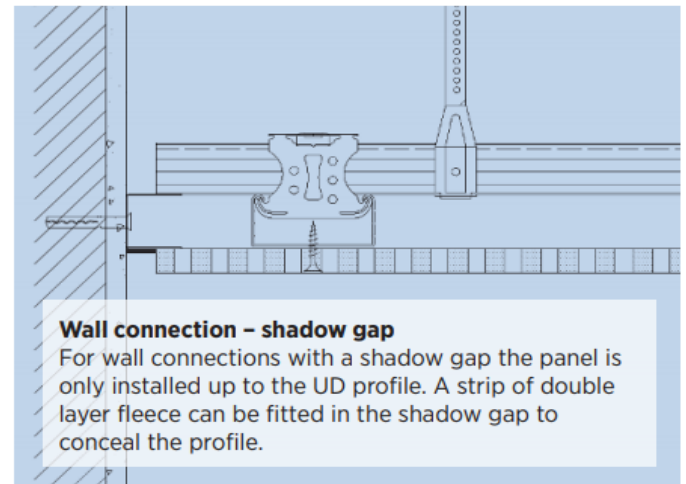
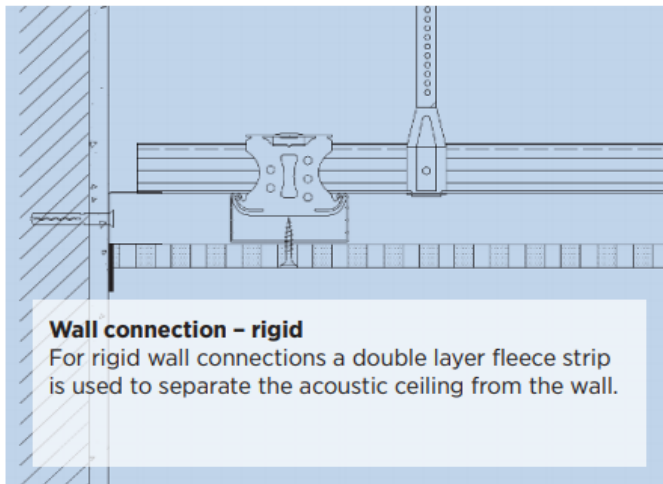
Any changes in the framework owing to integrated ceiling components must be considered.

VogIFuge framework								
Technical data	Unit	Perforated panel ceiling						
Panel thickness	mm	12.5						
Distributed load	kN/m ²	≤ 0.15					≤ 0.30	
Centre distance of suspended bracket A	mm	1,150	1,050	1,000	950	900	900	750
Centre distance of primary profiles X	mm	600	800	900	1,000	1,100	600	1,000
Centre distance of secondary profiles Y	mm	see table below						

Item	Unit	Centre distance of secondary profiles Y
Acoustic Design Panel 6/18; 8/18; 8/18Q; 10/23; 12/25; 12/25Q; 8/12/50; 8/15/20; 12/20/35	mm	333
Acoustic Design Panel 15/30 12/20/66	mm	330



Au.diVogIFuge installation guide

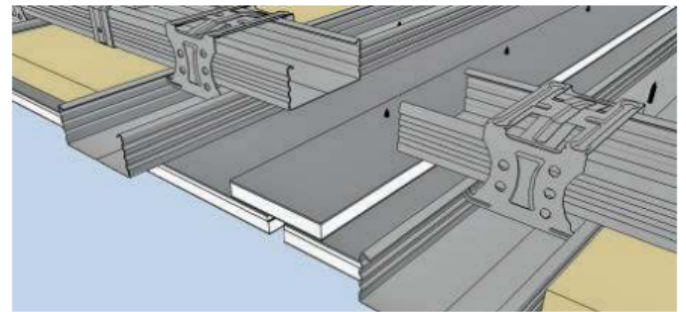


Expansion joints:

To reduce the risk of cracking, expansion joints should be installed every 10 linear metres /100 m² of the ceiling area.

The framework must be completely separated (see diagram) and the additional board strips above the joint must only be fixed to one side.

Tip: These board strips can be covered with double layer fleece on the visible side to colour the expansion joint in either black or white.



Material required per m² based on a ceiling of 100 m² (10 m x 10 m, with no allowance for wastage)

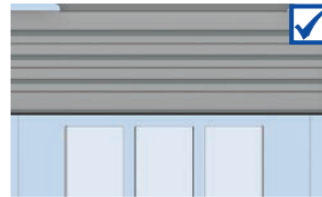
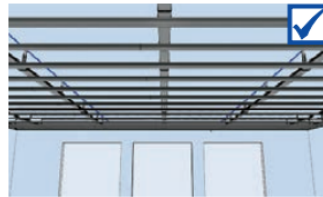
Metal framework, suspended bracket centres 1000 mm, primary grid centres 900 mm, secondary grid centres 333 mm

Article No.	Article description	Unit	Quantity
2016X000 50809000 20128 / 20151 25501000 25XXX000	Fixtures Safety nail, DN 6 x 35	Piece	1.3
	Suspended brackets Direct suspended bracket 50/120/200	Piece	1.3
	Tapping screw LN 3.5 x 9.5	Piece	2.6
	or Vernier hanger / Vernier base	Piece	1.3
	Vernier safety bolt	Piece	1.3
	Vernier top, 200-2400 mm	Piece	1.3
	Profiles and Connectors CD profile 60/27/0.6 rK, L=XXX mm	m	4.1
	UD profile 28/27/0.6, 3000 mm	m	0.4
100XX000 10230000 20159000 20135000 52130000	Connector, straight, CD 60/27	Piece	0.8
	Cross connector, CD 60/27	Piece	3.3
	Perforated panel screw SN 3.5 x 30	Piece	22

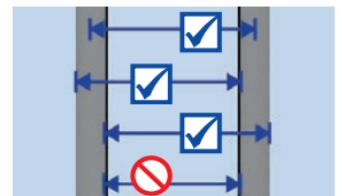
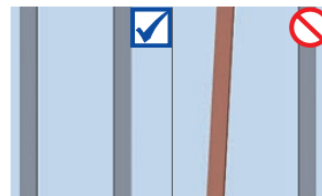
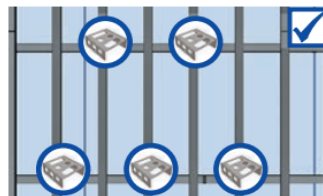
Au.diVogIFuge installation guide

The VogIFuge Jointing System kit allows seamless installation of perforated acoustic ceilings. The kit contains the required material, equipment and detailed installation instructions for the highest level of performance during installation and a reliable final finish.

Check ceiling framework for rigidity and evenness (using a straight-edge).



Then check ceiling grid CD 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:

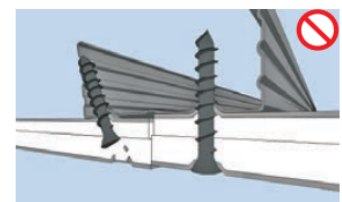
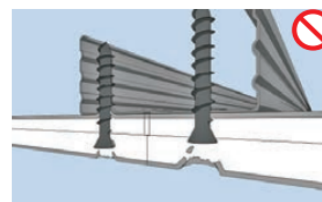
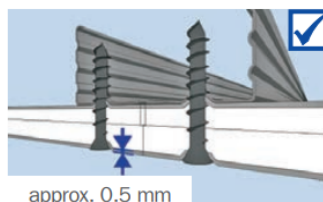
- Always take into account the load carrying capacity of the building when storing ceiling panels
- Do not store ceiling panels upright, but always flat on panel pallets
- Always carry ceiling panels with short edges upright
- Protect ceiling panels from moisture; relative humidity should be 40 - 80 %
- 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.

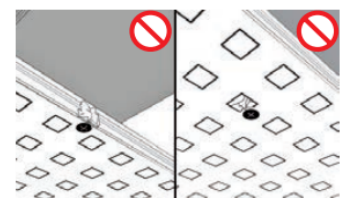
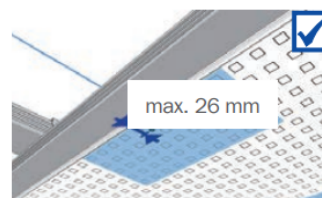
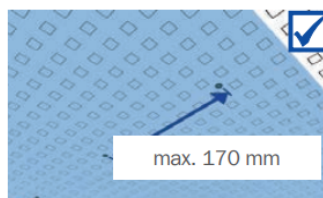


Perforation pattern	Centre distance
Straight round perforation 6/18, 8/18, 10/23, 12/25 Offset round perforation 8/12/50, Straight square perforation 8/18, 12/25, Random perforation 8/15/20, 12/20/35	333 mm
Straight round perforation 15/30 Offset round perforation 12/20/66	330 mm

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

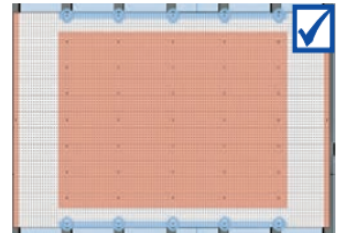
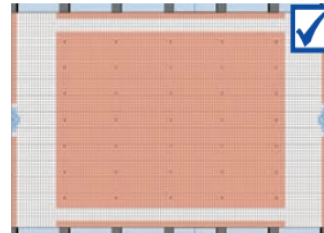
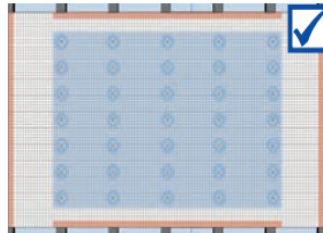


Screws should be spaced 170 mm at max. from fixing point to fixing point. Distance between screw and panel edge not to exceed 26 mm. Avoid damaging acoustic design panels by countersunk heads.



Au.diVogIFuge installation guide

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



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



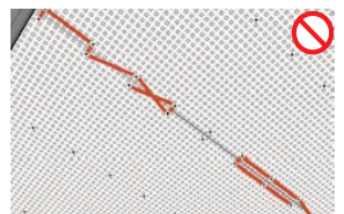
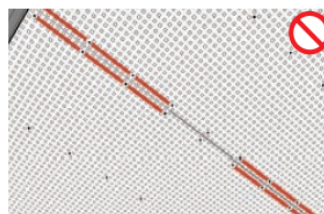
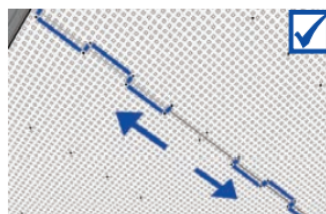
Use CD profile or straightedge as end stop. Position next panel by sliding it to first alongside CD profile / straightedge and fix in place.



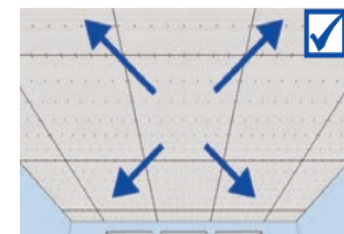
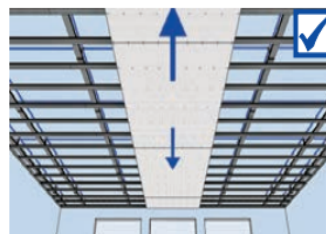
General site conditions / Manufacturer's instructions:

- 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
- Place any damping (mineral wool layer) directly onto the ceiling panels
- Carry out any additional work on ceiling (access openings, lighting recesses) immediately after installing ceiling panels and always before finishing joints

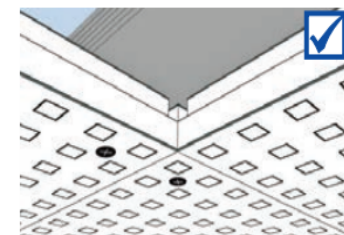
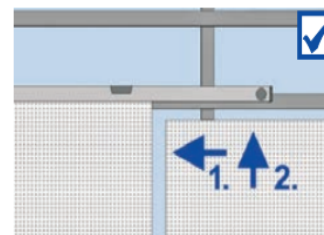
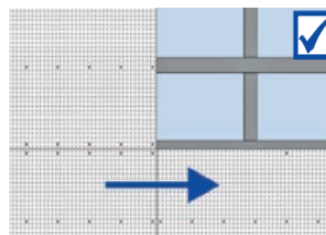
Fix screws in panel joint area using alternating pairs across panels ("zig-zag" principle), starting left or right next to screw which has already been fixed. This will create flush joint areas.



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

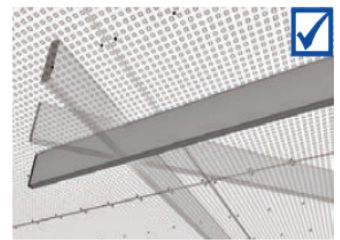
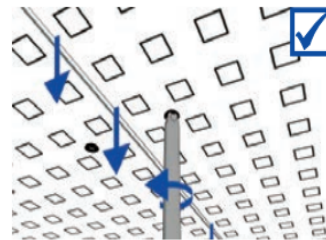
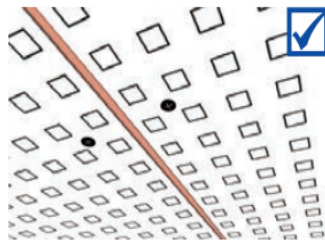


Lay remaining ceiling panels edge-to-edge, always checking that joints are level and using "cross joint" system only.



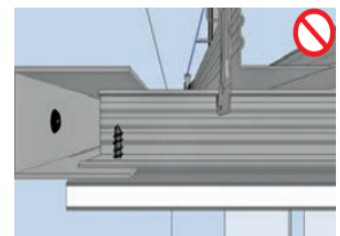
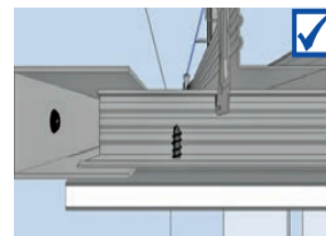
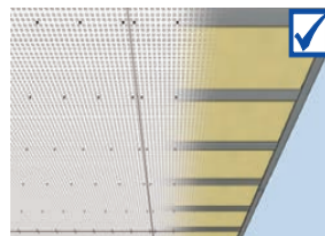
Au.diVogIFuge installation guide

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



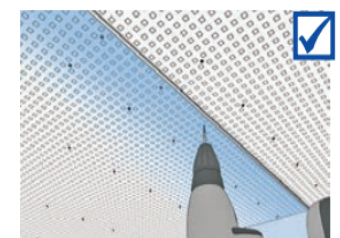
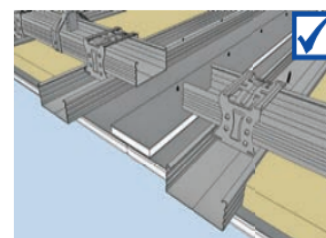
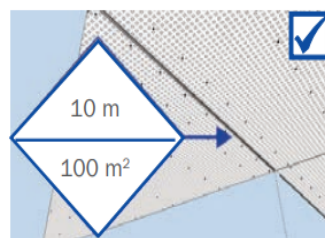
Place any damping layer directly onto back of ceiling panels.

Never screw into UD28 profile when mounting panels at ceiling perimeter.



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.



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Au.diVogIFuge joint guide

Important! All work that could result in damage to the ceiling surface must be completed before commencing jointing.

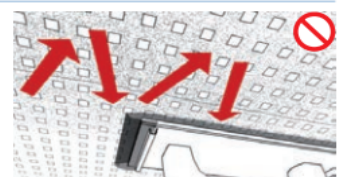
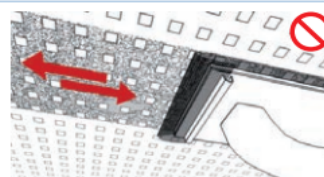
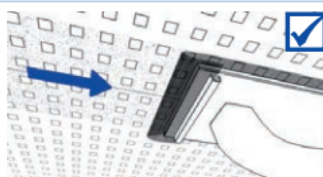
Check ceiling! Level out any height discrepancies in the panel joint areas using a screwdriver, if necessary repair any chips or damage to the plasterboard. Then spot fill screw heads in joint areas.



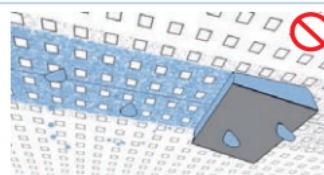
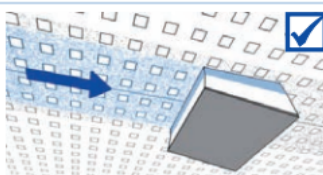
VogIFuge System Kit contents:

Vogl liquid glue, strip dispenser incl. 8 mm strip, sponge, mixing stick, roller grid, lambskin roller, sanding pad, sanding paper, Vogl screw head and repair filler, Japan spatula, Vogl perforated panel screws incl. bit

Use coarse sanding pad to remove any protruding pieces of plasterboard. Only sand in direction of joint.



Slightly dampen joint area using a sponge, but avoid excessive wetting of acoustic design panels.



Ensure liquid joint coating is evenly distributed on lambskin roller by rolling downwards over roller grid supplied.



Vogl Liquid joint coating = ready mix

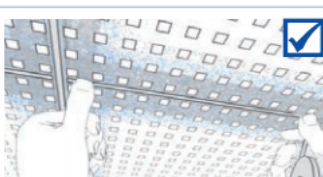
Apply liquid joint coating using lambskin roller. Fine texture of lambskin roller must be visible.



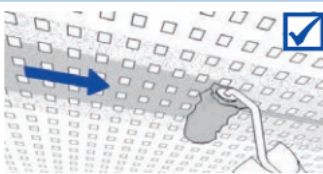
General site conditions / Manufacturer's instructions:

- Only store liquid joint coating in a ** frost free environment **
- Close liquid joint coating containers securely during long breaks
- Stir liquid joint coating well before use!
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Avoid sudden heating and cooling of rooms
- Relative humidity: 40 - 80 %
- Ceiling framework must be installed level and be adequately rigid
- Self-levelling, cement or asphalt screeds must be fully dried – no residual moisture

Fix strip with rubber side facing panel in middle of joint already wet with liquid coating. Using your left thumb press on the strip until the coating comes out from both sides of the strip, bringing your left thumb along the strip to meet your right thumb. Follow the same procedure for the next joint.



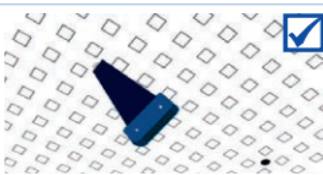
Subsequently coat joint area generously with liquid joint coating and roll lambskin roller over joint, applying slight pressure. Texture of lambskin roller must be clearly visible.



System's drying time: 12 h



While joints are drying use time to fill remaining screw heads in panel centres using screw head and repair filler.



Painting Instructions in accordance with AS/NZS 2311:2007

Three coat system:

Painting of plasterboard must comprise a 3-coat system with a short nap roller. Failure to do so may result in joints being visible and warranty voided.

-Sealer Undercoat x 1

-Top Coat x 2

Atkar recommends:

- Use light coloured paint only
- Use a suitable sealer undercoat
- Allow sufficient drying time between coats
- Do not use a spray gun to paint plasterboard
- Apply paint with a short nap paint roller only
- Do not use gloss paint
- Use good quality paint

Once the joints have fully dried, gently sand the texture left by the lambskin roller using the sanding paper. Only sand in the direction of the joint: do not cross sand!

