General Catalogue

Vogl Deckensysteme

Ceiling Diversity in Form, Colour and Performance

Vogl Deckensysteme GmbH

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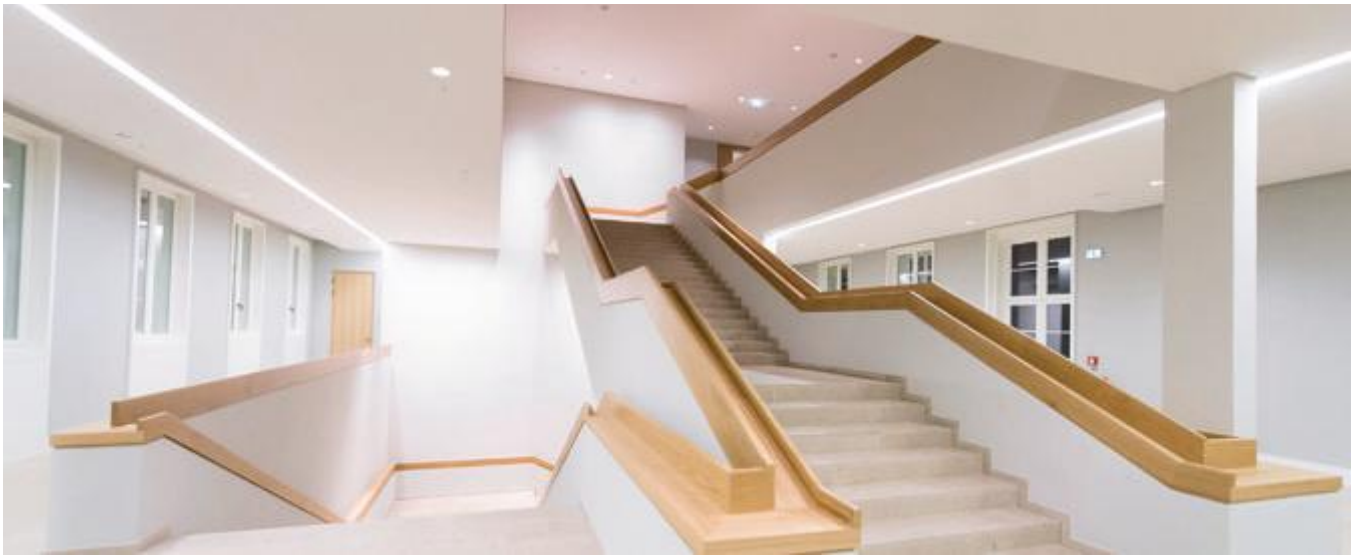
Chapter Overview

Picture Gallery

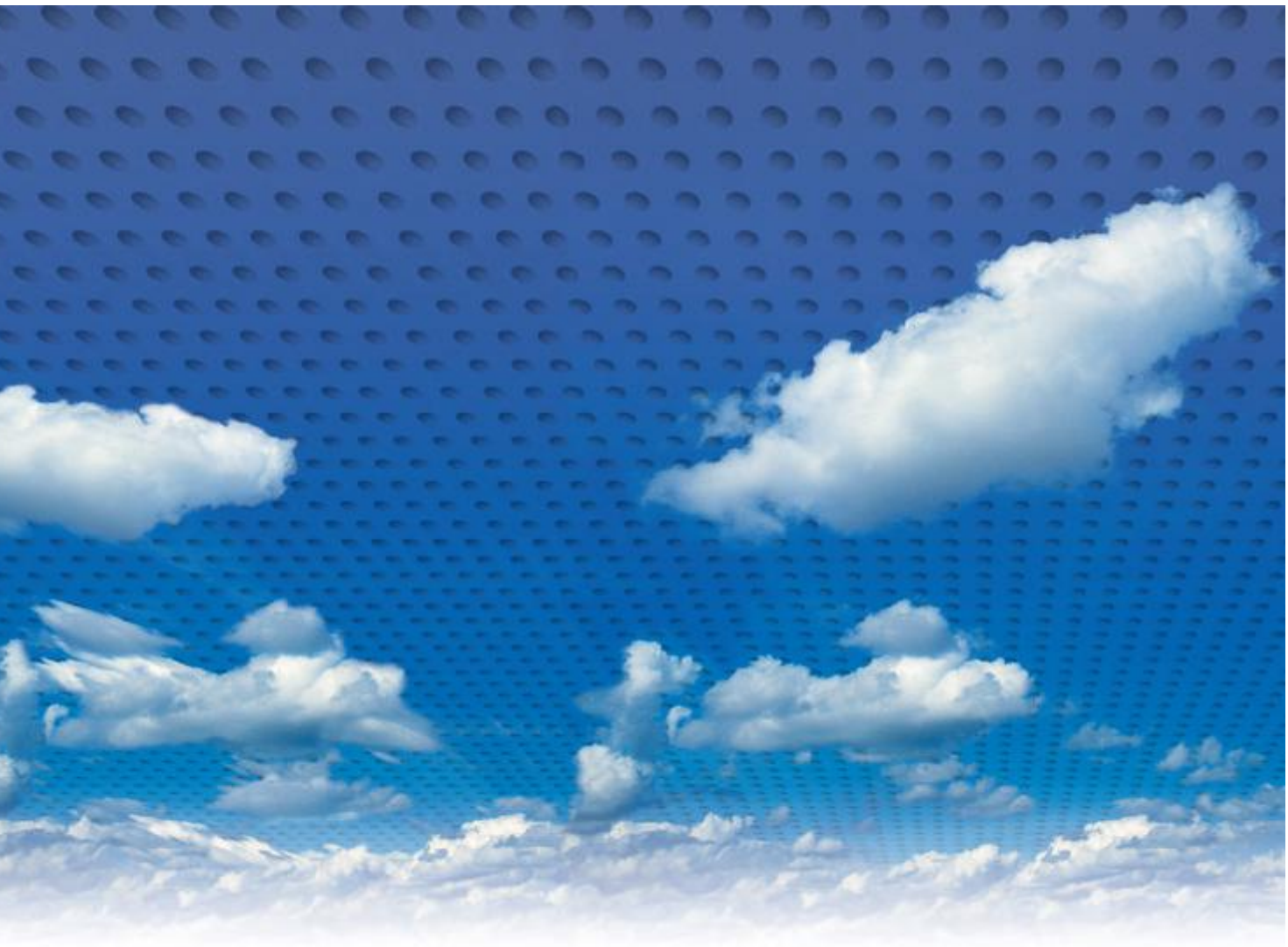
A picture is worth a thousand words.

Our picture gallery shows you the manifold possible applications of our products. Our ceiling systems, such as acoustic design ceilings, light and climate control ceilings, ceiling tiles or customised moulded elements, to name just a few examples from our comprehensive portfolio, have been used for many years in numerous public, office and administration buildings, schools, theatres, medical facilities, hotels and restaurants, shopping malls, etc. in Germany and abroad.



Find more pictures under:

www.vogl-deckensysteme.de/en/gallery/index.php



Making a Difference
at the Top

Ceiling Diversity in Form, Colour and Performance

Erich R. Vogl

Managing Director
Vogl Deckensysteme GmbH

Dear reader,

I am happy to see you are interested in our company – you will find it worthwhile!

As an owner-run business, Vogl Deckensysteme GmbH is committed to precision and innovation. I have been running the company since 1985 in second generation and I am sure that it is owed, above all, to our origin in tool and machine construction that we were able to gain lots of helpful skills regarding precision production techniques and a consistently high level of product quality. This wealth of experience gives us an inimitable competitive edge. The perfectly crafted design ceiling is our benchmark. Its focus is on quality, fitting accuracy and reliability of application.

Plasterboard ceiling systems, our basic product, are equipped with a variety of functions so as to fulfil all requirements of modern ceiling design – particularly in highly frequented areas. Acoustic, design, climate control and illuminated ceilings are among our core competencies. Customised moulded components are our speciality.

But in spite of all technical orientation, the customer is always at the centre of our activities! Our approach is result- and practice-oriented, and we offer our customers a large portfolio of services. This is not only to save you time by doing many steps of the work for you, but also to achieve together the best possible result in terms of aesthetics and functionality.

We wish you many more successful projects and hope to have a chance to realise them together with you in the future.

Sincerely yours

Erich R. Vogl
Owner and Managing Director

The modern production plant is situated in the Middle-Franconian town of Emskirchen.

The Vogl Competence Centre is well attended. Product training for building material traders, contractors and architects take place there on a regular basis.

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Form

Our ceiling elements come in many shapes, so there are virtually no limits to the freedom of design.

Form

"It is our goal to turn buildings into eye-catchers with our ceiling solutions through **form, colour and performance,** and to enhance their **value durably**."

Colour

Creative, coloured ceiling design with factory-tinted ceiling elements in a variety of combinations of finishing coat, inner perforation and fleece.

Colour

Performance

Vogl ceiling systems permit manifold additional functions by integrating illumination and technical installations.

Performance

Contractors / installers

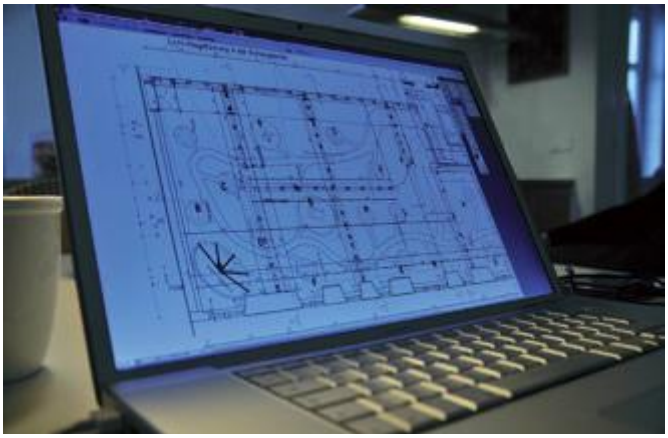
Working overhead is exhausting enough. Therefore, we provide optimum working conditions with well thought-out, practice-oriented products and systems. Our application engineers offer active support in the installation phase of your projects. With additional information and intensive training, we help you achieve more reliable results. We round off our commitment by opening opportunities for new business through intensive project acquisition.

- Practice-oriented products from our in-house manufacture
- Technical support in proper planning and preparation
- Mounting instructions on the job site
- Opening opportunities for new business

Project owners

Vogl ceiling systems provide project owners with aesthetic solutions regarding the interplay of design, light and colours. Besides improved room acoustics, a pleasant room climate can also be achieved by installing climate control ceilings, or air purification through adsorption. This contributes to durably increasing usefulness and real estate value.

- Customised ceiling solutions
- Integration of light and climate
- Top quality
- Assistance to those involved in the project
- Assurance of sustainability



Building material traders

We create demand for sophisticated ceiling solutions and consequently a significant added value for all compared to the common standard. Through consistent market development and joint campaigns, we introduce installers to the trade who work the market in the high-end contract business with our support.

- Comprehensive product portfolio
- Products from in-house manufacture
- Manufacturer with a sense of service
- Short-term availability
- Training for building material dealers' staff and customers
- Joint market development

Architects / designers

To facilitate your work, we offer any conceivable kind of help, starting with the initial consultation by our project consultant on the wide range of services regarding support in the design, tendering and execution process, all the way to the complete ceiling design.

- Devising and implementing design solutions
- Competent replies to inquiries
- Planning support
- Clarification of details, in particular at interfaces with adjacent disciplines
- Tested system solutions
- Specialist installer companies

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Acoustics

Whether seamless acoustic design ceilings with integrated air purification effect or our acoustic plaster system VoglToptec – our ceiling systems, which are tested for harmful substances, serve as sound absorbers in highly frequented zones and thus create an agreeable room atmosphere.

Acoustics

Design

Modern ceiling design focuses on the interplay between form and colour. Whether floating ceiling, 3D-element or customised moulded components – Vogl Deckensysteme can also implement your idea, and with a high degree of pre-fabrication into the bargain. The components come disassembled to suit site requirements and are then simply re-assembled at the job site.

Design

Light

The dream of many architects and designers comes true: Light sources and ceilings form an optically inseparable unit. Vogl ceiling systems offer, in addition to stretch ceilings, also individually prefabricated moulded gypsum elements, coved lighting and light channels and the perfectly matching light elements.

Light

Climate

Leading in terms of energy efficiency and performance – conserving energy resources and reducing operating costs should be the objective of sustainable construction. Both aspects can be implemented with the VoglThermotop heating and cooling ceiling system. Compared to conventional air handling systems, operating costs can be reduced by up to 40 per cent.

Climate

Comprehensive support in every phase of the project

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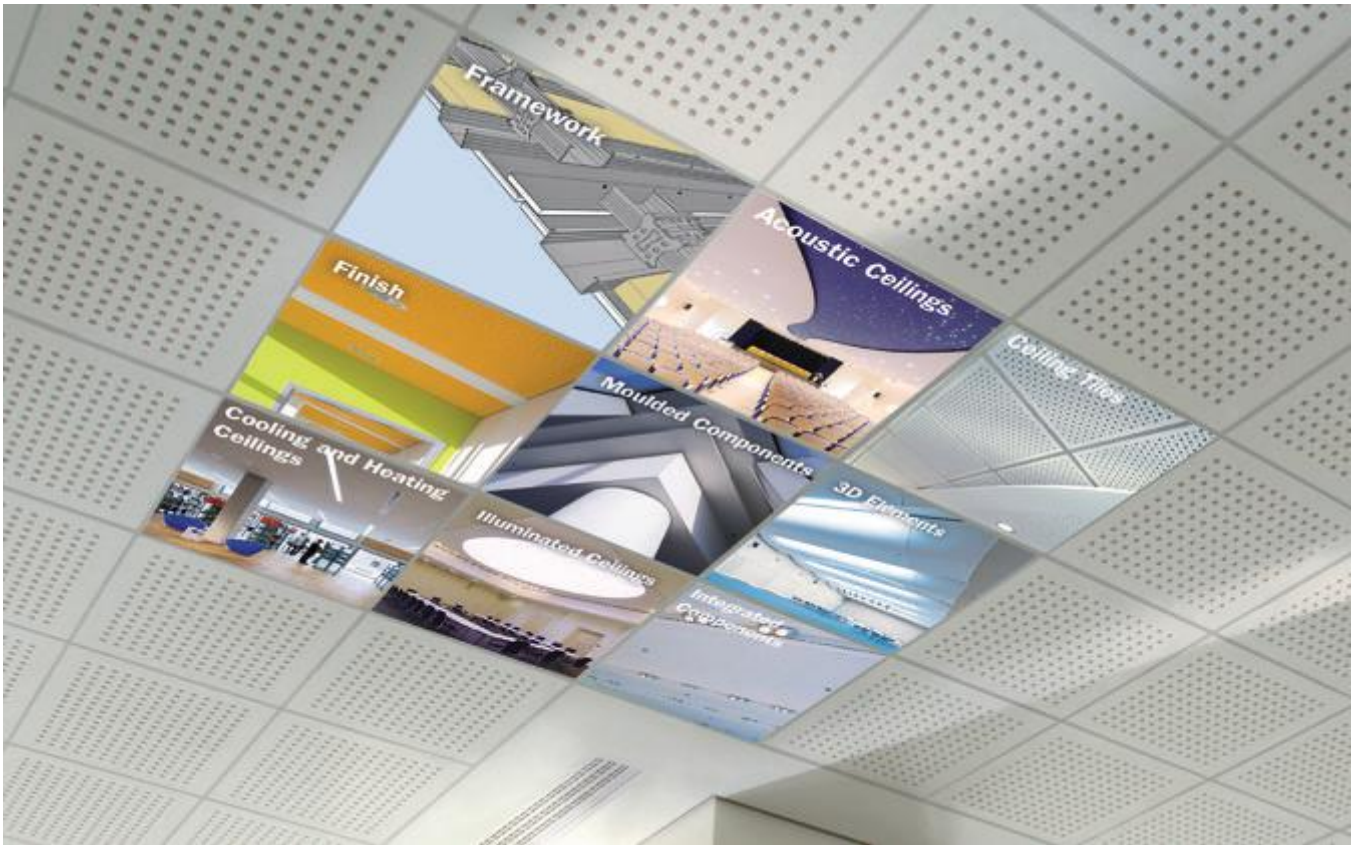


Framework

- Profiles, straight/ curved CD/UD
- Suspended brackets/ connectors for UA/CD, T-profile, clamping profile
- Screws

Acoustic ceilings

- VoglFuge
- Compound seam
- GSG4 joint
- Visible chamfer
- Adhesive seam
- Thermotec panels
- Colour panels
- Acoustic plaster ceilings
- Acoustic floating ceilings

Ceiling tiles

- Exposed grid
- Partially concealed grid
- Concealed grid

Finish

- Acoustic plaster white and tinted
- Ceiling paints white and tinted
- Working equipment
- Tools

Moulded components

- Moulded components
- 3D elements

Cooling and heating ceilings

- System with copper meanders
- Thermal tiles with capillary tubes

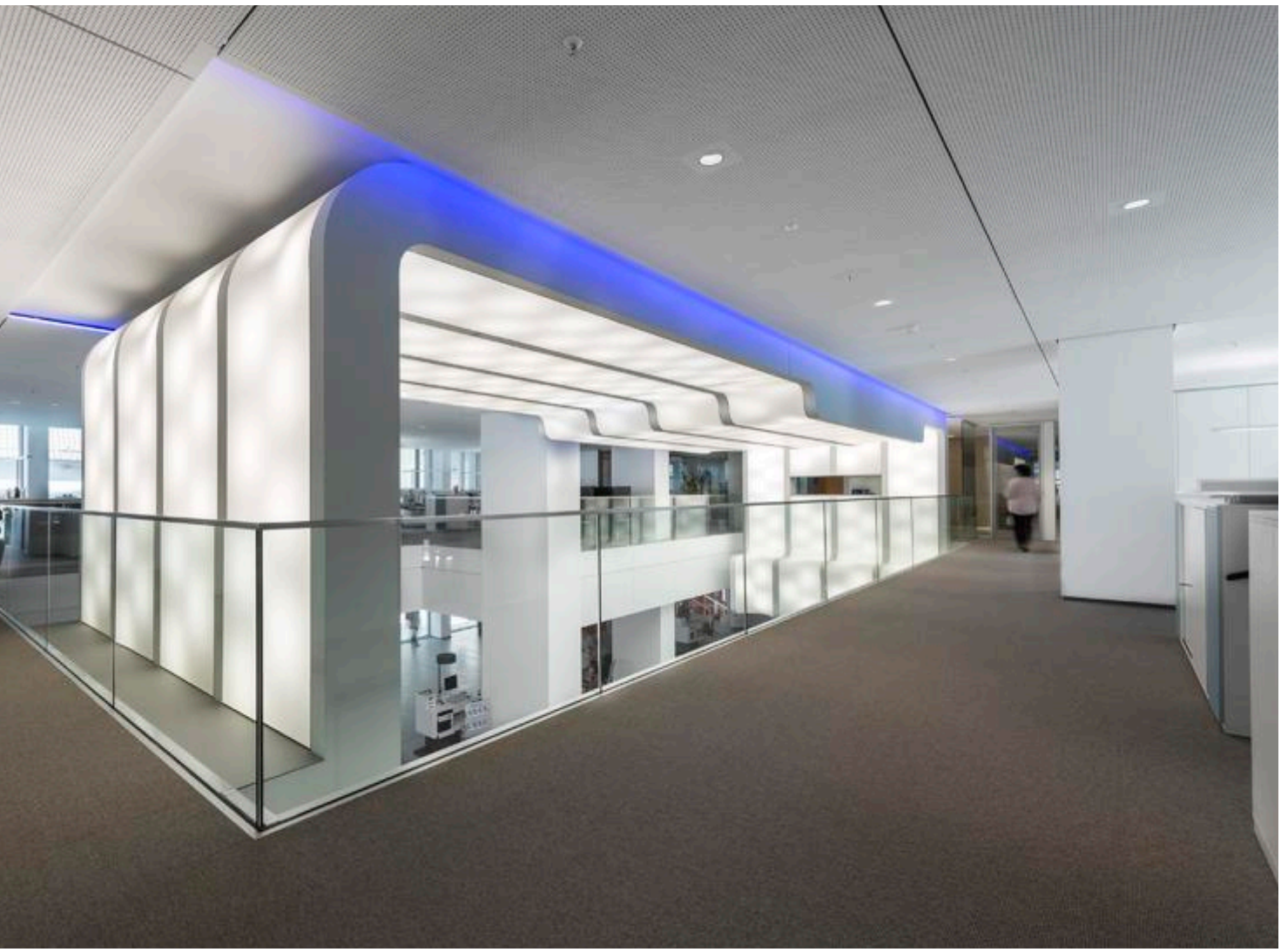
Illuminated and stretch ceilings

- Illuminated ceilings with stretched material
- Illuminated ceilings with acrylics
- Illuminated ceilings with glass inlays

Integrated components

- Access panels
- Light modules

Product Range



- Framework
- Acoustic design ceilings
- Cooling and heating ceilings
- Ceiling tiles
- Acoustic plaster ceilings
- Acoustic floating ceilings
- Moulded components
- 3D design
- Integrated ceiling components
- Stretch ceilings
- Working equipment
- Services

Do you have any questions regarding our products, logistics or an offer, or perhaps wish to make a simple enquiry?

We are always glad to assist you! Contact us!

Costing & Quotes

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  Phone +49 9104 825-310
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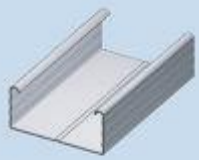
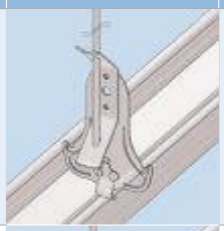
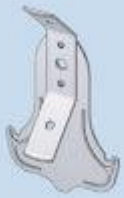
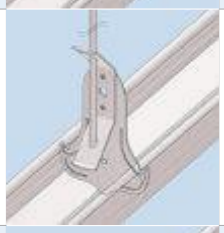
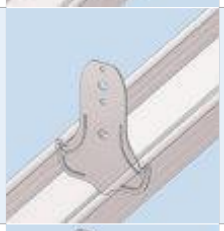
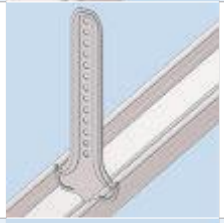
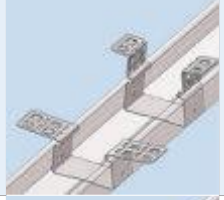
Illustration	Item number	Description	PU PU/large bundle
	10011000	CD profile 60/27/0.6 rK, 1,190 mm	12 pcs. (14.28 m) 180 pcs. (214.20 m)
	10026000	CD profile 60/27/0.6 rK, 2,600 mm	12 pcs. (31.20 m) 180 pcs. (468.00 m)
	10031000	CD profile 60/27/0.6 rK, 3,100 mm	12 pcs. (37.20 m) 180 pcs. (558.00 m)
	10036000	CD profile 60/27/0.6 rK, 3,600 mm	12 pcs. (43.20 m) 180 pcs. (648.00 m)
	10040000	CD profile 60/27/0.6 rK, 4,000 mm	12 pcs. (48.00 m) 180 pcs. (720.00 m)
	10046000	CD profile 60/27/0.6 rK, 4,600 mm	12 pcs. (55.20 m) 180 pcs. (828.00 m)
	on request	CD profile 60/27/0.6 rK, custom length Manufactured according to EN 14195	
	10230000	UD profile 28/27/0.6, 3,000 mm Wall connection profile for CD profiles	16 pcs. (48.00 m) 288 pcs. (864.00 m)
	10068100	CD profile 60/27/0.6 rK, concave, 4,000 mm | Bend radius min. 500 mm - 1,000 mm	
	10068200	CD profile 60/27/0.6 rK, concave, 4,000 mm | Bend radius min. 1,001 mm - 2,000 mm	
	10068300	CD profile 60/27/0.6 rK, concave, 4,000 mm | Bend radius min. 2,001 mm - 4,000 mm	
	10068400	CD profile 60/27/0.6 rK, concave, 4,000 mm | Bend radius min. 4,000 mm	
	on request	CD profile 60/27/0.6 rK, concave, special lengths The minimum order quantity per curved radius is 20 linear metres. For production reasons, curved CD profiles come with 150 mm straight sections on each end. Product realisation details: radius (r) + chord (s) or radius (r) + rise (h) or chord (s) + rise (h) or radius (r) + fixed length (b)  concave	
	10069100	CD profile 60/27/0.6 rK, convex, 4,000 mm | Bend radius min. 500 mm - 1,000 mm	
	10069200	CD profile 60/27/0.6 rK, convex, 4,000 mm | Bend radius min. 1,001 mm - 1,000 mm	
	10069300	CD profile 60/27/0.6 rK, convex, 4,000 mm | Bend radius min. 2,001 mm - 4,000 mm	
	10069400	CD profile 60/27/0.6 rK, convex, 4,000 mm | Bend radius min. 4,000 mm	
	on request	CD profile 60/27/0.6 rK, convex, special lengths The minimum order quantity per curved radius is 20 linear metres. For production reasons, curved CD profiles come with 150 mm straight sections on each end. Product realisation details: radius (r) + chord (s) or radius (r) + rise (h) or chord (s) + rise (h) or radius (r) + fix length (b)  convex	

Illustration	Item number	Description	Application	PU PU/pallet
	20107000	Anchor fast suspension with compression spring, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 84 PU/pallet
	20115000	Anchor fast suspension, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 84 PU/pallet
	20116000	Anchor suspension, 80 mm, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 96 PU/pallet
	20108000	Anchor suspension, 170 mm, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 144 PU/pallet
	20127000	Fastening clip, CD 60/27 Initial testing according to EN 13964, 0.15 kN Tolerance compensation up to 20 mm possible		100 pcs./PU 32 PU/pallet
	20534000	Direct mounting clip, CD 60/27 Straps without screws Initial testing according to EN 13964, 0.25 kN Straps with 2 screws LN 3.5 x 9.5 mm Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 32 PU/pallet
	20161000 20162000 20163000	Direct suspended bracket, 50 mm, 4-hole, CD 60/27 Direct suspended bracket, 120 mm, 4-hole, CD 60/27 Direct suspended bracket, 200 mm, 4-hole, CD 60/27 Initial testing according to EN 13964, 0.40 kN Delivery includes unbent product		100 pcs./PU 72 PU/pallet 100 pcs./PU 96 PU/pallet 100 pcs./PU 72 PU/pallet
	20261000 20262000 20263000	Direct suspended bracket, 50 mm, 4-hole, wood 50/30 Direct suspended bracket, 120 mm, 4-hole, wood 50/30 Direct suspended bracket, 200 mm, 4-hole, wood 50/30 Initial testing according to EN 13964, 0.40 kN Delivery includes unbent product		100 pcs./PU 72 PU/pallet 100 pcs./PU 96 PU/pallet 100 pcs./PU 72 PU/pallet

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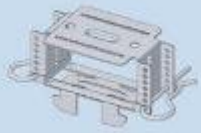
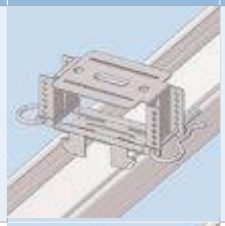
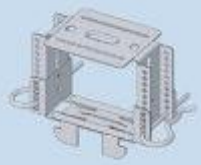
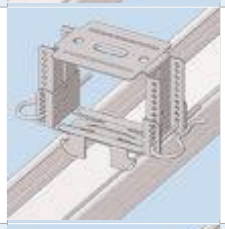
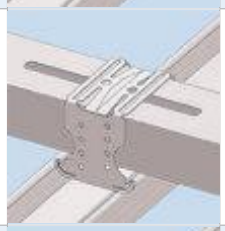
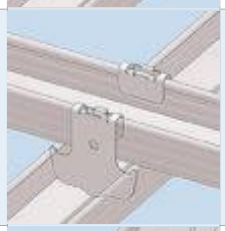
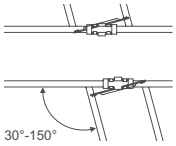
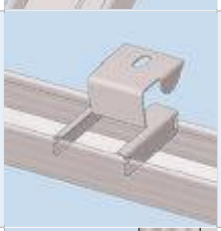
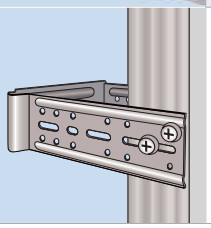
	20167000	Direct suspended bracket, adjustment 40-70 mm, CD 60/27 Including locking pins Initial testing according to EN 13964, 0.47 kN		50 pcs./PU 66 PU/pallet
	20168000	Direct suspended bracket, adjustment 59-108 mm, CD 60/27 Including locking pins Initial testing according to EN 13964, 0.58 kN		50 pcs./PU 48 PU/pallet
	20135000	Cross connector, CD 60/27 Initial testing according to EN 13964, 0.40 kN Delivery includes unbent product		100 pcs./PU 148 PU/pallet
	20139000	UA cross connector, UA 50/CD 60/27 Initial testing according to EN 13964, 0.40 kN Delivery includes unbent product		100 pcs./PU 148 PU/pallet
	20133000	Anchor bracket, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 96 PU/pallet
	20136000	Twisting anchor bracket, CD 60/27 Initial testing according to EN 13964, 0.25 kN  on-site angle adjustment from 30° - 150°		100 pcs./PU 96 PU/pallet
	20131000	Support clip, CD 60/27 Clamping width up to 17 mm		50 pcs./PU 136 PU/pallet
	20137300 20137400 20137600 20137900	Adjustable vibration bracket, 30 mm, CD 60/27 Adjustable vibration bracket, 45 mm, CD 60/27 Adjustable vibration bracket, 60 mm, CD 60/27 Adjustable vibration bracket, 90 mm, CD 60/27 Application: wall structures		100 pcs./PU 102 PU/pallet 100 pcs./PU 102 PU/pallet 100 pcs./PU 66 PU/pallet 100 pcs./PU 48 PU/pallet

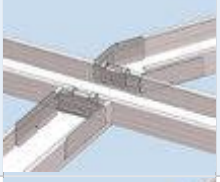
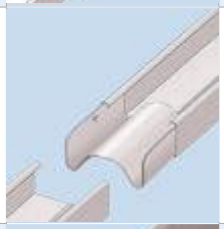
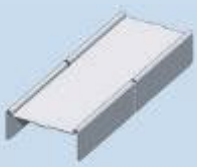
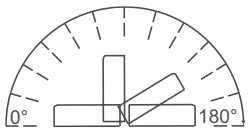
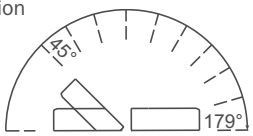
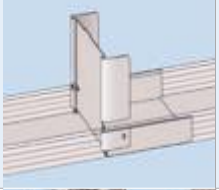
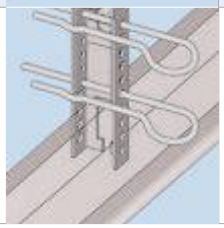
Illustration	Item number	Description	Application	PU PU/pallet
	20153000	Universal connector, unbent, CD 60/27 Delivery includes unbent product		100 pcs./PU 84 PU/pallet
	20141000	Connector, 80 mm, CD 60/27		100 pcs./PU 32 PU/pallet
	20159000	Connector, lengthwise, CD 60/27		100 pcs./PU 48 PU/pallet
	20140000	Angled connector, flat, CD 60/27 For on-site angle adjustment 		100 pcs./PU 24 PU/pallet
	20140100	Angled connector 90°, CD 60/27 Angle default setting is 90°		100 pcs./PU 24 PU/pallet
	20140600	Angle connector 45° - 179°, CD 60/27 Angle default setting according to customer specification 		100 pcs./PU 24 PU/pallet
	20142000	Vertical connector, T-connector, CD 60/27 T-connector movable within the CD profile, suitable, for example, for the installation of luminaire boxes		100 pcs./PU 24 PU/pallet
	25503000	Locking pin for vernier		100 pcs./PU

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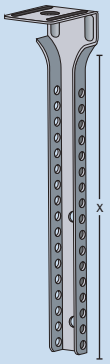
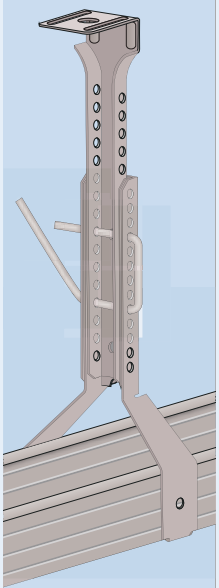
Illustration	Item number	Description	Application	PU PU/pallet
	25501000	Vernier security pin Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 288 PU/pallet
	21012000 21025000 21037000 21050000 21075000 21100000 21125000 21150000 21175000 21200000 21250000 21300000 21400000	Eyelet wire, 125 mm Eyelet wire, 250 mm Eyelet wire, 375 mm Eyelet wire, 500 mm Eyelet wire, 750 mm Eyelet wire, 1,000 mm Eyelet wire, 1,250 mm Eyelet wire, 1,500 mm Eyelet wire, 1,750 mm Eyelet wire, 2,000 mm Eyelet wire, 2,500 mm Eyelet wire, 3,000 mm Eyelet wire, special lengths on request Eyelet wire according to EN 13964		100 pcs./PU 300 PU/pallet 200 PU/pallet 150 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 50 PU/pallet 50 PU/pallet 50 PU/pallet 50 PU/pallet
	25020000 25030000 25040000 25050000 25060000 25070000 25080000 25090000 25100000 25110000 25120000 25130000 25140000 25150000 25160000 25170000 25180000 25190000 25200000 25400000	Vernier top part, 200 mm, X = 130 Vernier top part, 300 mm, X = 230 Vernier top part, 400 mm, X = 330 Vernier top part, 500 mm, X = 430 Vernier top part, 600 mm, X = 530 Vernier top part, 700 mm, X = 630 Vernier top part, 800 mm, X = 730 Vernier top part, 900 mm, X = 830 Vernier top part, 1,000 mm, X = 930 Vernier top part, 1,100 mm, X = 1,030 Vernier top part, 1,200 mm, X = 1,130 Vernier top part, 1,300 mm, X = 1,230 Vernier top part, 1,400 mm, X = 1,330 Vernier top part, 1,500 mm, X = 1,430 Vernier top part, 1,600 mm, X = 1,530 Vernier top part, 1,700 mm, X = 1,630 Vernier top part, 1,800 mm, X = 1,730 Vernier top part, 1,900 mm, X = 1,830 Vernier top part, 2,000 mm, X = 1,930 Vernier top part, custom lengths on request Initial testing according to EN 13964, 0.40 kN continuous perforation		100 pcs./PU 60 PU/pallet 60 PU/pallet 60 PU/pallet 56 PU/pallet 56 PU/pallet 48 PU/pallet 48 PU/pallet 28 PU/pallet 28 PU/pallet 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU 25 pcs./PU Pallet units on request from 25 pcs./PU
	25005000	Vernier connector, 90 mm Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 96 PU/pallet

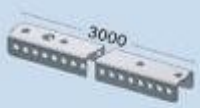
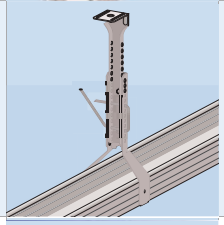
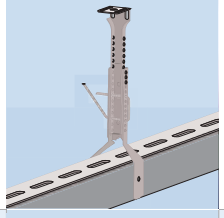
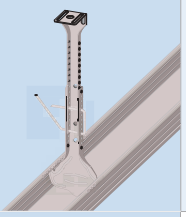
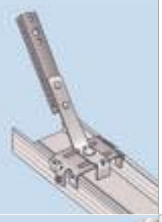
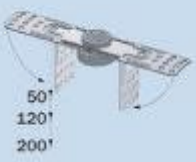
Illustration	Item number	Description	Application	PU PU/pallet
	25006000	Vernier rod, 3,000 mm Initial testing according to EN 13964, 0.40 kN		25 pcs./PU
	25004000	Vernier coupling Extension max. 170 mm		100 pcs./PU
	20128000 20128100	Vernier hanger, CD 60/27 Initial testing according to EN 13964, 0.40 kN Vernier hanger, CD 60/27, incl. security pin Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 32 PU/pallet 100 pcs./PU 32 PU/pallet
	20129000 20129100	Vernier hanger, UA 50 Initial testing according to EN 13964, 0.40 kN Vernier hanger, UA 50, incl. security pin Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 32 PU/pallet 100 pcs./PU 32 PU/pallet
	20151000	Vernier bottom part, CD 60/27 Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 108 PU/pallet
	20537000	Vernier bottom part, diagonal pull, rotating, CD 60/27 Initial testing according to EN 13964, 0.25 kN Excellently suited for multiple diagonal suspension, e.g. in staircases, fully rotating (Due to diagonal suspension, always use tapping screws LN 9.5 for fixing)		100 pcs./PU 32 PU/pallet
	20536000	Direct mounting vibration clip, 4 mm, CD 60/27 Straps without screws Initial testing according to EN 13964,0.25 kN Straps with 2 screws LN 3.5 x 9.5 mm Initial testing according to EN 13964,0.40 kN		100 pcs./PU 32 PU/pallet
	20164000 20165000 20166000	Direct vibration hanger, 50 mm, 4-hole, CD 60/27 Direct vibration hanger, 120 mm, 4-hole, CD 60/27 Direct vibration hanger, 200 mm, 4-hole, CD 60/27 Initial testing according to EN 13964, 0.40 kN Delivery includes unbent product		100 pcs./PU 24 PU/pallet 100 pcs./PU 32 PU/pallet 100 pcs./PU 15 PU/pallet

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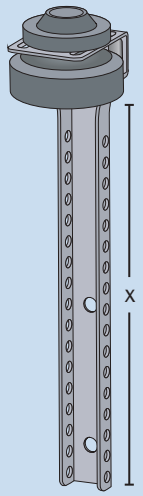
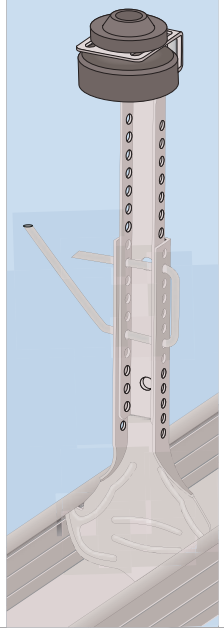
Illustration	Item number	Description	Application	PU PU/pallet
	21012100 21025100 21037100 21050100 21075100 21100100 21400100	Eyelet wire, 125 mm Eyelet wire, 250 mm Eyelet wire, 375 mm Eyelet wire, 500 mm Eyelet wire, 750 mm Eyelet wire, 1,000 mm Eyelet wire, special lengths on request Eyelet wire according to EN 13964 with vibration element 4 mm		100 pcs./PU 180 PU/pallet 96 PU/pallet 42 PU/pallet 28 PU/pallet 24 PU/pallet 24 PU/pallet
	25020100 25030100 25040100 25050100 25060100 25070100 25080100 25090100 25100100 25400100	Vernier top part, 200 mm, X = 130 Vernier top part, 300 mm, X = 230 Vernier top part, 400 mm, X = 330 Vernier top part, 500 mm, X = 430 Vernier top part, 600 mm, X = 530 Vernier top part, 700 mm, X = 630 Vernier top part, 800 mm, X = 730 Vernier top part, 900 mm, X = 830 Vernier top part, 1,000 mm, X = 930 Vernier top part, custom lengths on request Initial testing according to EN 13964, 0.40 kN continuous perforation with vibration element 4 mm		100 pcs./PU 36 PU/pallet 36 PU/pallet 36 PU/pallet 24 PU/pallet 24 PU/pallet 24 PU/pallet 18 PU/pallet 18 PU/pallet 18 PU/pallet

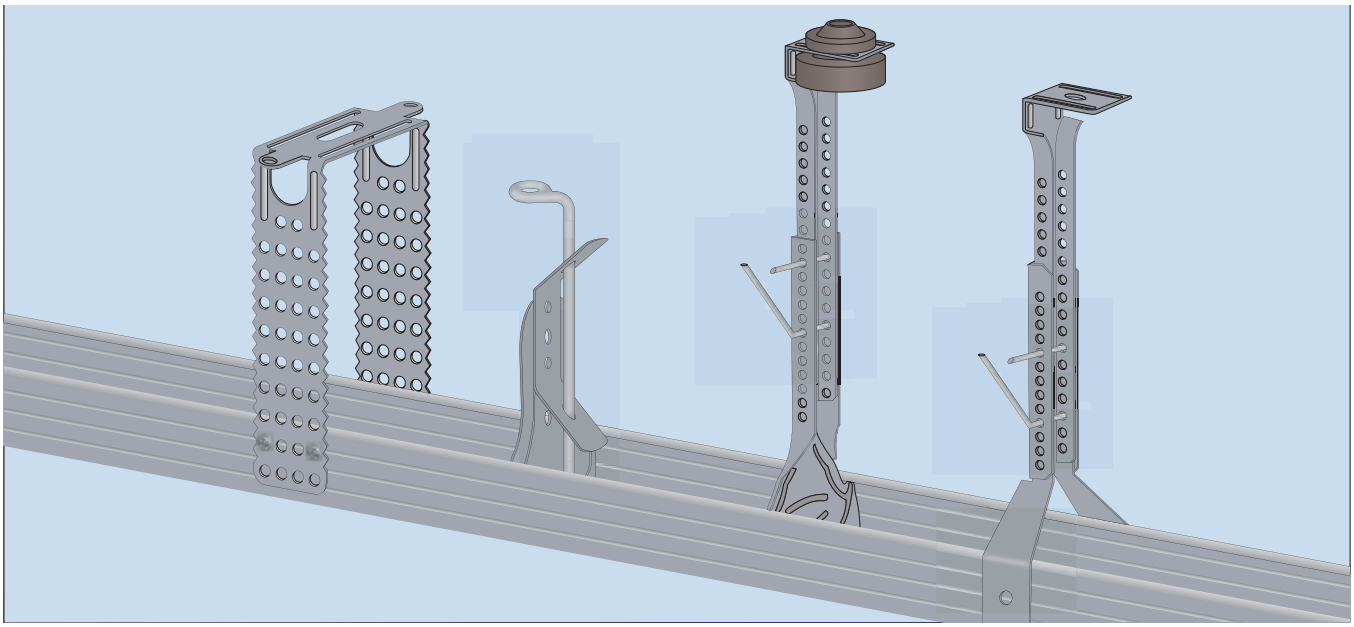


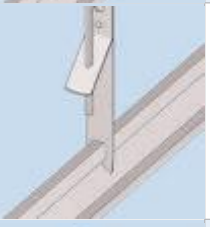
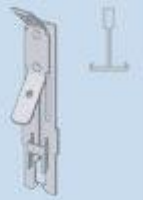
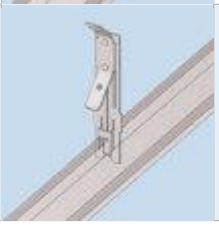
Illustration	Item number	Description	Application	PU PU/pallet
	22012000 22025000 22037000 22050000 22075000 22100000 22125000 22150000 22175000 22200000 22250000 22300000 22400000	Hooked wire, 125 mm Hooked wire, 250 mm Hooked wire, 375 mm Hooked wire, 500 mm Hooked wire, 750 mm Hooked wire, 1,000 mm Hooked wire, 1,250 mm Hooked wire, 1,500 mm Hooked wire, 1,750 mm Hooked wire, 2,000 mm Hooked wire, 2,500 mm Hooked wire, 3,000 mm Hooked wire, special lengths on request Hooked wire according to EN 13964		100 pcs./PU 300 PU/pallet 200 PU/pallet 150 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 100 PU/pallet 50 PU/pallet 50 PU/pallet 50 PU/pallet 50 PU/pallet
	23100000	Double spring clip, equilateral		100 pcs./PU 105 PU/pallet
	23110100 23110200 23110300 23110400	Easy-span hanger, hooked wire/hooked wire Easy-span hanger, HH, ~ 200 - 300 mm Easy-span hanger, HH, ~ 300 - 600 mm Easy-span hanger, HH, ~ 500 - 1,000 mm Easy-span hanger, HH, ~ 1,000 - 2,000 mm		100 pcs./PU 50 PU/pallet 30 PU/pallet 20 PU/pallet 10 PU/pallet
	23120100 23120200 23120300 23120400	Easy-span hanger, hooked wire/eyelet wire Easy-span hanger, HE, ~ 200 - 300 mm Easy-span hanger, HE, ~ 300 - 600 mm Easy-span hanger, HE, ~ 500 - 1,000 mm Easy-span hanger, HE, ~ 1,000 - 2,000 mm		100 pcs./PU 50 PU/pallet 30 PU/pallet 20 PU/pallet 10 PU/pallet
	22412500 22425000	Hooked wire with double spring clip, 125 mm, bottom part U-1 Hooked wire with double spring clip, 250 mm, bottom part U-2		100 pcs./PU 96 PU/pallet 100 PU/pallet 50 PU/pallet
	20311000	Quick hanger for T-profile Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 84 PU/pallet
	20312000	Quick hanger for T-profile, Klick Fix II with mounted safety plate Initial testing according to EN 13964, 0.32 kN		100 pcs./PU 170 PU/pallet

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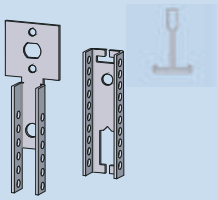
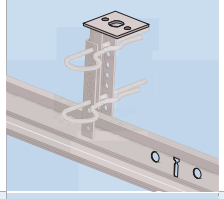
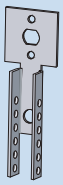
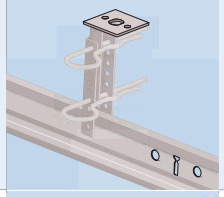
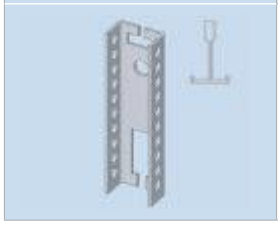
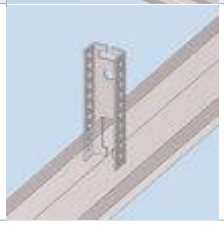
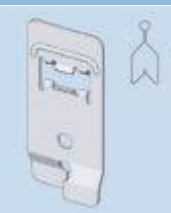
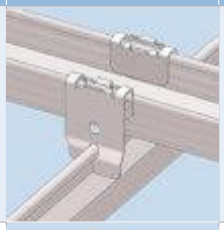
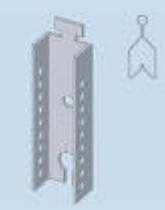
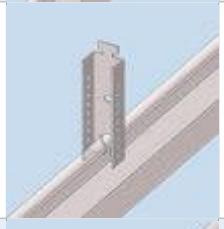
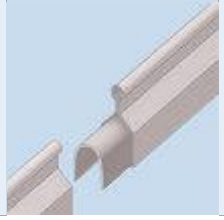
Illustration	Item number	Description	Application	PU PU/pallet
	25003000	Vernier suspended bracket, bottom part for T-profile Initial testing according to EN 13964, 0.42 kN		100 pcs./PU 220 PU/pallet
	25001000 25001300 25001500	Vernier short hanger, set 40 - 80 mm for T-profile and double-T-profile Vernier short hanger, set 60 - 100 mm for T-profile and double-T-profile Vernier short hanger, set 80 - 120 mm for T-profile and double-T-profile		100 pcs./PU 220 PU/pallet 100 pcs./PU 220 PU/pallet 100 pcs./PU 220 PU/pallet
	25002000 25002300 25002500	Vernier short hanger, top part 47 mm Vernier short hanger, top part 72 mm Vernier short hanger, top part 100 mm Initial testing according to EN 13964, 0.40 kN		100 pcs./PU 100 pcs./PU 100 pcs./PU
	25005100	Vernier short hanger, bottom part for T-profile and double-T-profile		100 pcs./PU

Illustration	Item number	Description	Application	PU PU/pallet
	20333000	Connector, CD 60/27, clamping profile Initial testing according to EN 13964, 0.57 kN		100 pcs./PU 96 PU/pallet
	20316000	Quick hanger for clamping profile Initial testing according to EN 13964, 0.25 kN		100 pcs./PU 170 PU/pallet
	25003500	Vernier suspended bracket, bottom part for clamping profile		100 pcs./PU 220 PU/pallet
	25005500	Vernier short hanger, bottom part, clamping profile Initial testing according to EN 13964, 0.38 kN		100 pcs./PU 220 PU/pallet
	20334000	Connector, longitudinal, clamping profile		100 pcs./PU 96 PU/pallet

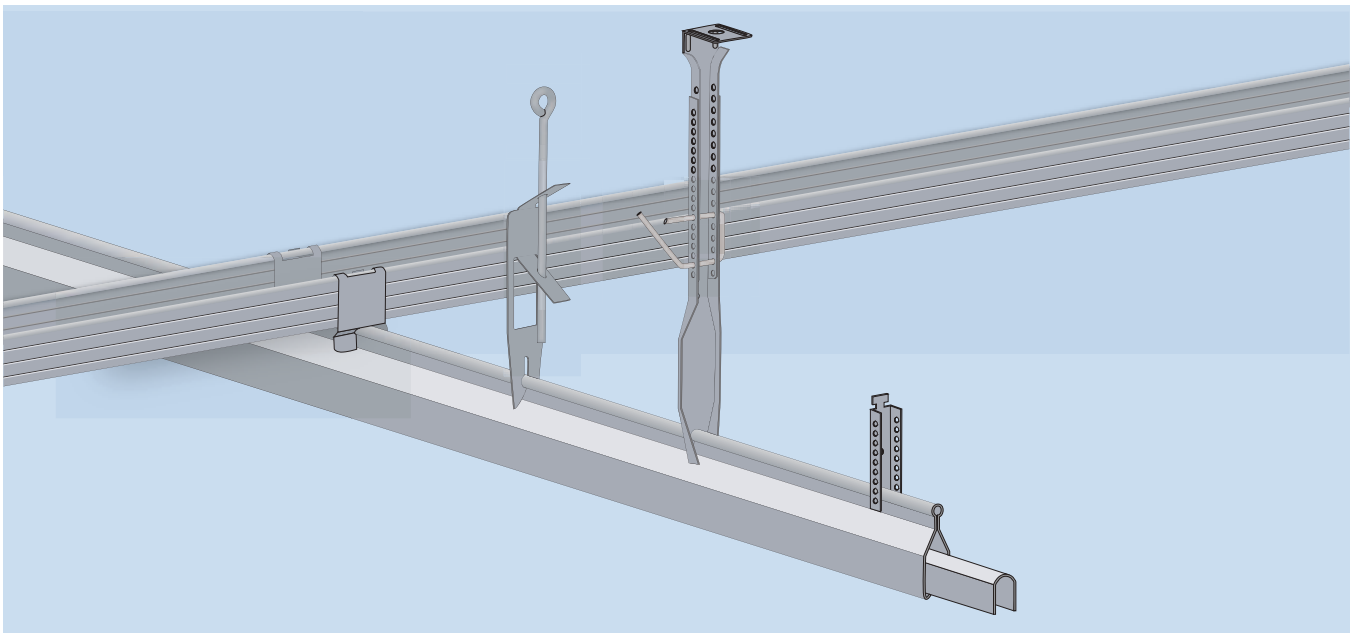


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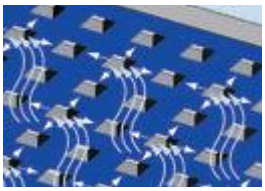
Illustration	Item number	Description	Dimensions	PU PU/pallet
	50435000	Wafer head screw FN 35 with needle point To connect hangers to wooden elements	5.1 x 35 mm	100 pcs./PU
	50525000 50535000	Drywall screw SBS TN 25 with countersunk head and needle point Drywall screw SBS TN 35 with countersunk head and needle point To mount plasterboards to metal framework (up to max. 0.7 mm without pre-drilling)	3.5 x 25 mm 3.5 x 35 mm	1,000 pcs./PU 540 PU/pallet 1,000 pcs./PU 438 PU/pallet
	50735000	Drywall screw SBS TB 35 with countersunk head and drill bit To mount plasterboards to metal framework from 0.7 mm to 2.25 mm sheet metal thickness	3.5 x 35 mm	1,000 pcs./PU 438 PU/pallet
	50809000	LN 9.5 tapping screw with needle point To fasten suspended brackets and sheet steel profiles up to max. 0.7 mm sheet thickness	3.5 x 9.5 mm	1,000 pcs./PU 612 PU/pallet
	52130000	Perforated panel screw SN 30 with needle point Phosphated special screw with pressed-on small countersunk head (cross slot PH2)	3.5 x 30 mm	1,000 pcs./PU 468 PU/pallet
	52160000	Perforated panel screw SN 40 with needle point Phosphated special screw with pressed-on small countersunk head (cross slot PH2)	3.5 x 40 mm	1,000 pcs./PU
	52150000	Perforated panel screw, gold, TB 23 with countersunk head and drill bit Corrosion-resistant special screw with countersunk head (cross slot PH2) Recommended for VoglThermotec panels and VoglThermotec panels PLUS (containing graphite)	3.5 x 23 mm	1,000 pcs./PU
	52170000	Perforated panel screw, gold, SN 35 with needle point Corrosion-resistant special screw with cutting ring head (cross slot PH2) Recommended for VoglThermotec panels PLUS (containing graphite)	3.5 x 35 mm	1,000 pcs./PU



Vogl acoustic design ceilings of VoglFuge system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request), four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Delivery includes VoglFuge System Kit (incl. perforated panel screws SN 3.5 x 30).

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7061101110 7061101120	Acoustic Design Panel VF 6/18R Acoustic fleece, black Acoustic Design Panel VF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7061102110 7061102120	Acoustic Design Panel VF 8/18R Acoustic fleece, black Acoustic Design Panel VF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7061103110 7061103120	Acoustic Design Panel VF 10/23R Acoustic fleece, black Acoustic Design Panel VF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7061104110 7061104120	Acoustic Design Panel VF 12/25R Acoustic fleece, black Acoustic Design Panel VF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7061105110 7061105120	Acoustic Design Panel VF 15/30R Acoustic fleece, black Acoustic Design Panel VF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7061106110 7061106120	Acoustic Design Panel VF 8/12/50R Acoustic fleece, black Acoustic Design Panel VF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7061107110 7061107120	Acoustic Design Panel VF 12/20/66R Acoustic fleece, black Acoustic Design Panel VF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7061108110 7061108120	Acoustic Design Panel VF 8/18Q Acoustic fleece, black Acoustic Design Panel VF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7061109110 7061109120	Acoustic Design Panel VF 12/25Q Acoustic fleece, black Acoustic Design Panel VF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7061110110 7061110120	Acoustic Design Panel VF 8/15/20R Acoustic fleece, black Acoustic Design Panel VF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7061111110 7061111120	Acoustic Design Panel VF 12/20/35R Acoustic fleece, black Acoustic Design Panel VF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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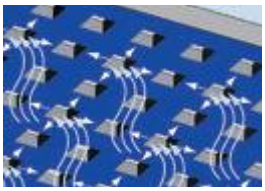
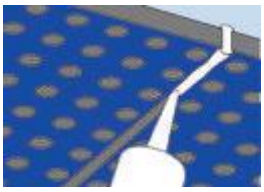




Vogl acoustic design panels of the Compound Seam system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

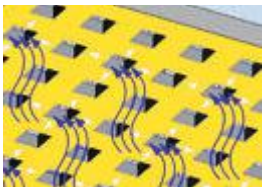
with air purification effect as a standard feature

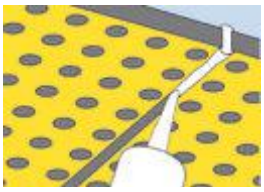
EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7071101110 7071101120	Acoustic Design Panel SF 6/18R Acoustic fleece, black Acoustic Design Panel SF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7071102110 7071102120	Acoustic Design Panel SF 8/18R Acoustic fleece, black Acoustic Design Panel SF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7071103110 7071103120	Acoustic Design Panel SF 10/23R Acoustic fleece, black Acoustic Design Panel SF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7071104110 7071104120	Acoustic Design Panel SF 12/25R Acoustic fleece, black Acoustic Design Panel SF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7071105110 7071105120	Acoustic Design Panel SF 15/30R Acoustic fleece, black Acoustic Design Panel SF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7071106110 7071106120	Acoustic Design Panel SF 8/12/50R Acoustic fleece, black Acoustic Design Panel SF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7071107110 7071107120	Acoustic Design Panel SF 12/20/66R Acoustic fleece, black Acoustic Design Panel SF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7071108110 7071108120	Acoustic Design Panel SF 8/18Q Acoustic fleece, black Acoustic Design Panel SF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7071109110 7071109120	Acoustic Design Panel SF 12/25Q Acoustic fleece, black Acoustic Design Panel SF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7071110110 7071110120	Acoustic Design Panel SF 8/15/20R Acoustic fleece, black Acoustic Design Panel SF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7071111110 7071111120	Acoustic Design Panel SF 12/20/35R Acoustic fleece, black Acoustic Design Panel SF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.



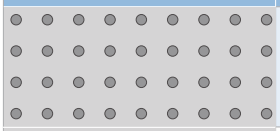
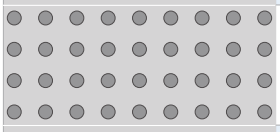
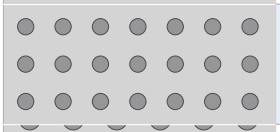
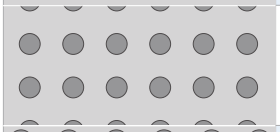
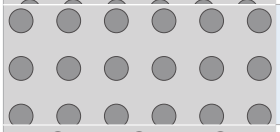
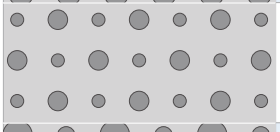
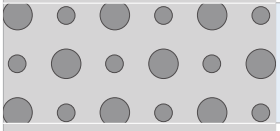
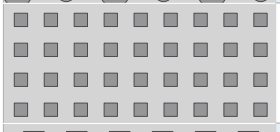
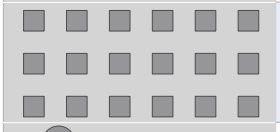
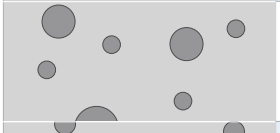
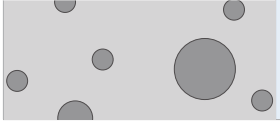


Vogl acoustic design panels of the Compound Seam system are perforated ceiling panels with high acoustic performance, air purification effect (adsorption) and additional waterproofing.

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)
Additional function: waterproofed

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7401101110 7401101120	Acoustic Design Panel Hydro SF 6/18R Acoustic fleece, black Acoustic Design Panel Hydro SF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7401102110 7401102120	Acoustic Design Panel Hydro SF 8/18R Acoustic fleece, black Acoustic Design Panel Hydro SF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7401103110 7401103120	Acoustic Design Panel Hydro SF 10/23R Acoustic fleece, black Acoustic Design Panel Hydro SF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7401104110 7401104120	Acoustic Design Panel Hydro SF 12/25R Acoustic fleece, black Acoustic Design Panel Hydro SF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7401105110 7401105120	Acoustic Design Panel Hydro SF 15/30R Acoustic fleece, black Acoustic Design Panel Hydro SF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7401106110 7401106120	Acoustic Design Panel Hydro SF 8/12/50R Acoustic fleece, black Acoustic Design Panel Hydro SF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7401107110 7401107120	Acoustic Design Panel Hydro SF 12/20/66R Acoustic fleece, black Acoustic Design Panel Hydro SF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7401108110 7401108120	Acoustic Design Panel Hydro SF 8/18Q Acoustic fleece, black Acoustic Design Panel Hydro SF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7401109110 7401109120	Acoustic Design Panel Hydro SF 12/25Q Acoustic fleece, black Acoustic Design Panel Hydro SF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7401110110 7401110120	Acoustic Design Panel Hydro SF 8/15/20R Acoustic fleece, black Acoustic Design Panel Hydro SF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7401111110 7401111120	Acoustic Design Panel Hydro SF 12/20/35R Acoustic fleece, black Acoustic Design Panel Hydro SF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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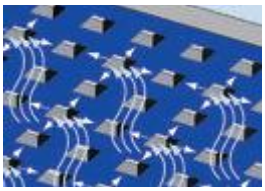
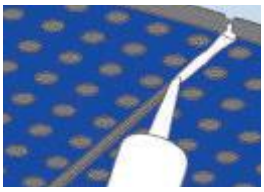




Vogl acoustic design panels of the GSG4 system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: GSG4 edge
Short edge: GSG4 edge

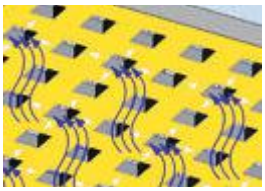
with air purification effect as a standard feature

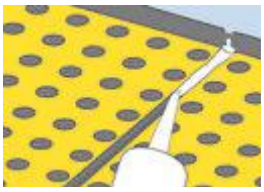
EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7081101110 7081101120	Acoustic Design Panel GSG4 6/18R Acoustic fleece, black Acoustic Design Panel GSG4 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7081102110 7081102120	Acoustic Design Panel GSG4 8/18R Acoustic fleece, black Acoustic Design Panel GSG4 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7081103110 7081103120	Acoustic Design Panel GSG4 10/23R Acoustic fleece, black Acoustic Design Panel GSG4 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7081104110 7081104120	Acoustic Design Panel GSG4 12/25R Acoustic fleece, black Acoustic Design Panel GSG4 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7081105110 7081105120	Acoustic Design Panel GSG4 15/30R Acoustic fleece, black Acoustic Design Panel GSG4 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7081106110 7081106120	Acoustic Design Panel GSG4 8/12/50R Acoustic fleece, black Acoustic Design Panel GSG4 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7081107110 7081107120	Acoustic Design Panel GSG4 12/20/66R Acoustic fleece, black Acoustic Design Panel GSG4 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7081108110 7081108120	Acoustic Design Panel GSG4 8/18Q Acoustic fleece, black Acoustic Design Panel GSG4 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7081109110 7081109120	Acoustic Design Panel GSG4 12/25Q Acoustic fleece, black Acoustic Design Panel GSG4 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7081110110 7081110120	Acoustic Design Panel GSG4 8/15/20R Acoustic fleece, black Acoustic Design Panel GSG4 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7081111110 7081111120	Acoustic Design Panel GSG4 12/20/35R Acoustic fleece, black Acoustic Design Panel GSG4 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.



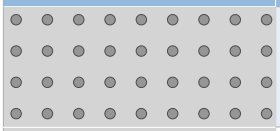
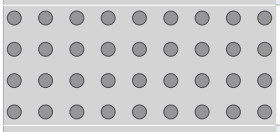
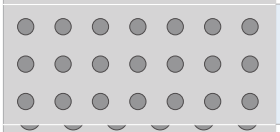
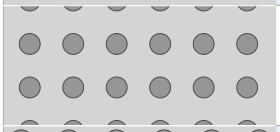
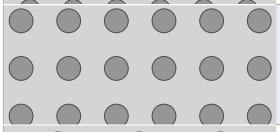
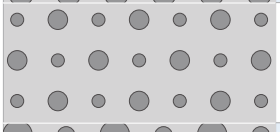
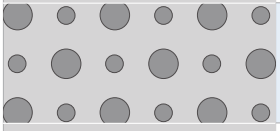
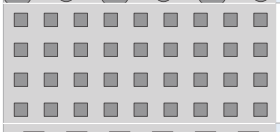
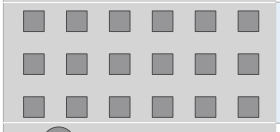
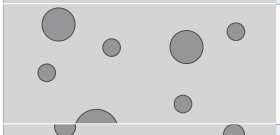


Vogl acoustic design panels of the GSG4 system are perforated ceiling panels with high acoustic performance, air purification effect (adsorption) and additional waterproofing.

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: GSG4 edge
Short edge: GSG4 edge
Additional function: waterproofed

Illustration	Item number	Description	Details	m² /pallet Pcs./pallet
	7411101110 7411101120	Acoustic Design Panel Hydro GSG4 6/18R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7411102110 7411102120	Acoustic Design Panel Hydro GSG4 8/18R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7411103110 7411103120	Acoustic Design Panel Hydro GSG4 10/23R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7411104110 7411104120	Acoustic Design Panel Hydro GSG4 12/25R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7411105110 7411105120	Acoustic Design Panel Hydro GSG4 15/30R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7411106110 7411106120	Acoustic Design Panel Hydro GSG4 8/12/50R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7411107110 7411107120	Acoustic Design Panel Hydro GSG4 12/20/66R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7411108110 7411108120	Acoustic Design Panel Hydro GSG4 8/18Q Acoustic fleece, black Acoustic Design Panel Hydro GSG4 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7411109110 7411109120	Acoustic Design Panel Hydro GSG4 12/25Q Acoustic fleece, black Acoustic Design Panel Hydro GSG4 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7411110110 7411110120	Acoustic Design Panel Hydro GSG4 8/15/20R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7411111110 7411111120	Acoustic Design Panel Hydro GSG4 12/20/35R Acoustic fleece, black Acoustic Design Panel Hydro GSG4 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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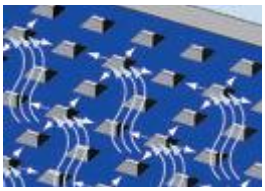
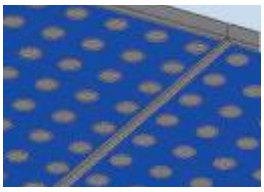




Vogl acoustic design panels of the Visible Chamfer system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).
Black or white acoustic fleece backing (other fleece colours on request), four-side as a Visible Chamfer for installation by means of the quickest and most reliable "edge-to-edge" installation principle.

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: Visible Chamfer 2 x 2 mm
Short edge: Visible Chamfer 2 x 2 mm

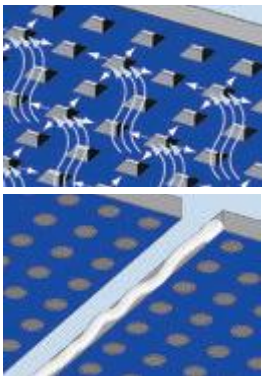
with air purification effect as a standard feature

EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7101101110 7101101120	Acoustic Design Panel Visible Chamfer 6/18R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7101102110 7101102120	Acoustic Design Panel Visible Chamfer 8/18R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7101103110 7101103120	Acoustic Design Panel Visible Chamfer 10/23R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7101104110 7101104120	Acoustic Design Panel Visible Chamfer 12/25R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7101105110 7101105120	Acoustic Design Panel Visible Chamfer 15/30R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7101106110 7101106120	Acoustic Design Panel Visible Chamfer 8/12/50R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7101107110 7101107120	Acoustic Design Panel Visible Chamfer 12/20/66R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7101108110 7101108120	Acoustic Design Panel Visible Chamfer 8/18Q Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7101109110 7101109120	Acoustic Design Panel Visible Chamfer 12/25Q Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7101110110 7101110120	Acoustic Design Panel Visible Chamfer 8/15/20R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7101111110 7101111120	Acoustic Design Panel Visible Chamfer 12/20/35R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.



Vogl acoustic design panels of the Adhesive Seam system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7091101110 7091101120	Acoustic Design Panel KF 6/18R Acoustic fleece, black Acoustic Design Panel KF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7091102110 7091102120	Acoustic Design Panel KF 8/18R Acoustic fleece, black Acoustic Design Panel KF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7091103110 7091103120	Acoustic Design Panel KF 10/23R Acoustic fleece, black Acoustic Design Panel KF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7091104110 7091104120	Acoustic Design Panel KF 12/25R Acoustic fleece, black Acoustic Design Panel KF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7091105110 7091105120	Acoustic Design Panel KF 15/30R Acoustic fleece, black Acoustic Design Panel KF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7091106110 7091106120	Acoustic Design Panel KF 8/12/50R Acoustic fleece, black Acoustic Design Panel KF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7091107110 7091107120	Acoustic Design Panel KF 12/20/66R Acoustic fleece, black Acoustic Design Panel KF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7091108110 7091108120	Acoustic Design Panel KF 8/18Q Acoustic fleece, black Acoustic Design Panel KF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7091109110 7091109120	Acoustic Design Panel KF 12/25Q Acoustic fleece, black Acoustic Design Panel KF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7091110110 7091110120	Acoustic Design Panel KF 8/15/20R Acoustic fleece, black Acoustic design panel KF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7091111110 7091111120	Acoustic Design Panel KF 12/20/35R Acoustic fleece, black Acoustic Design Panel KF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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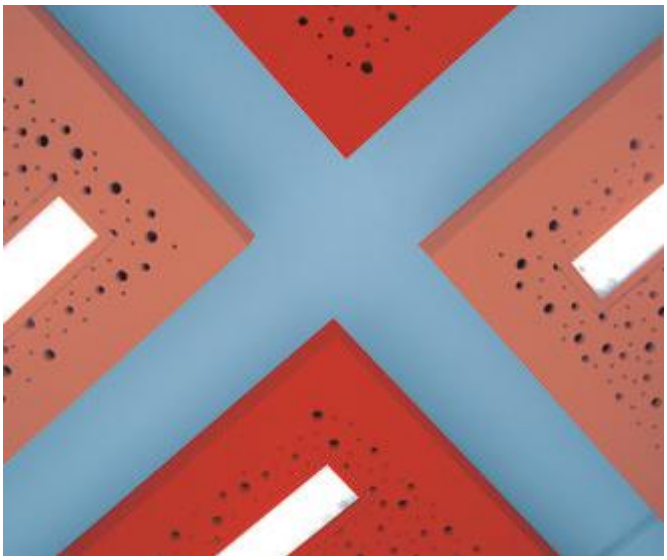
Focused on colour
to the very core

Colours influence our perception of rooms and our sense of wellbeing, while texture creates charismatic surfaces. Colour can be used in interior design to significantly improve the living and comfort factor. Vogl Colour Panels allow you to add colourful accents precisely and easily.

Conventional methods for painting perforated ceilings disrupt the texture since the holes become clogged with paint. Refinishing the perforation texture is very time-consuming and tedious.

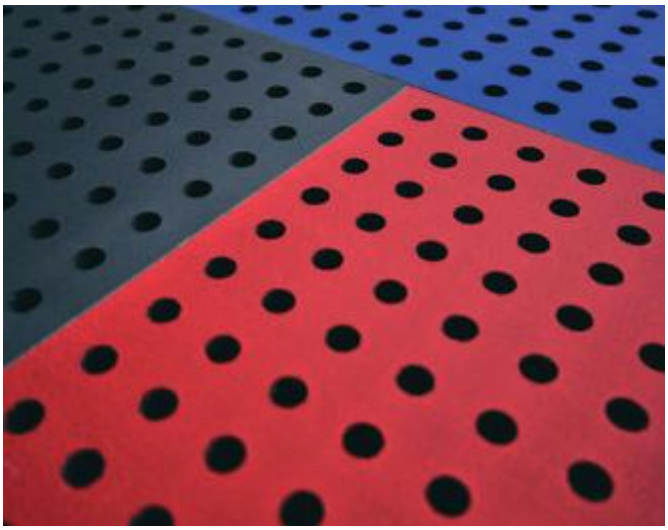
In Vogl Colour Panels, the inner surfaces of the perforation are included in the factory colour treatment. This ensures high-quality and homogeneous colouration.



Putting colour into the picture

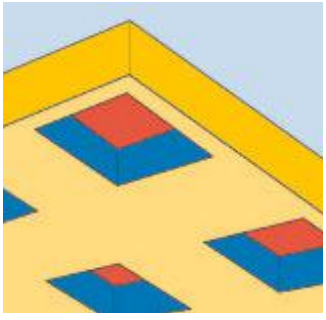
The unique prefabrication offers decisive advantages:

- Even colouration of the inner surfaces of the perforation
- Available in many shades of colour
- No time-consuming reworking after painting



Vogl Colour Panel offers the possibility of factory-applied or on-site colouring with colour combinations for finishing coat, inner perforation and fleece colour.

The finishing coat is always applied by the painter on-site.



Benefits of the Vogl Colour Panel:

- Perfectly sealed surfaces and properly coloured inner perforation surfaces
- Enormous time saving due to elimination of several work steps
- Satisfies highest aesthetic demands

The VoglThermotec panels of the VoglFuge system are perforated ceiling panels with high acoustic performance, a defined thermal conductivity of λ ≥ 0.25 and air purification effect.

Black or white acoustic fleece backing (other fleece colours on request), four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.

Other available options: VoglThermotec panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Delivery includes VoglFuge System Kit (without screws).
For the screwing, we recommend Item no. 52150000 "perforated panel screw gold TB 23".

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7151101110 7151101120	Thermotec panel VF 6/18R Acoustic fleece, black Thermotec panel VF 6/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	75.84 m² 32 pieces
	7151102110 7151102120	Thermotec panel VF 8/18R Acoustic fleece, black Thermotec panel VF 8/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	75.84 m² 32 pieces
	7151103110 7151103120	Thermotec panel VF 10/23R Acoustic fleece, black Thermotec panel VF 10/23R Acoustic fleece, white	1,196 x 2,001 x 10.0 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	76.48 m² 32 pieces
	7151104110 7151104120	Thermotec panel VF 12/25R Acoustic fleece, black Thermotec panel VF 12/25R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	76.80 m² 32 pieces
	7151105110 7151105120	Thermotec panel VF 15/30R Acoustic fleece, black Thermotec panel VF 15/30R Acoustic fleece, white	1,200 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	76.16 m² 32 pieces
	7151106110 7151106120	Thermotec panel VF 8/12/50R Acoustic fleece, black Thermotec panel VF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	76.80 m² 32 pieces
	7151107110 7151107120	Thermotec panel VF 12/20/66R Acoustic fleece, black Thermotec panel VF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	75.20 m² 32 pieces
	7151108110 7151108120	Thermotec panel VF 8/18Q Acoustic fleece, black Thermotec panel VF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	75.84 m² 32 pieces
	7151109110 7151109120	Thermotec panel VF 12/25Q Acoustic fleece, black Thermotec panel VF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	76.80 m² 32 pieces
	7151110110 7151110120	Thermotec panel VF 8/15/20R Acoustic fleece, black Thermotec panel VF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	76.80 m² * 32 pieces
	7151111110 7151111120	Thermotec panel VF 12/20/35R Acoustic fleece, black Thermotec panel VF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	76.80 m² * 32 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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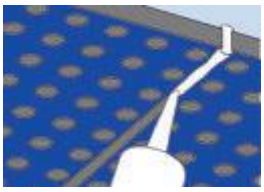


VoglThermotec panels of the Compound Seam system are perforated ceiling panels with high acoustic performance, a defined thermal conductivity of $\lambda \geq 0.25$ and air purification effect.

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: VoglThermotec panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

For the screwing, we recommend Item no. 52150000 "perforated panel screw gold TB 23".

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

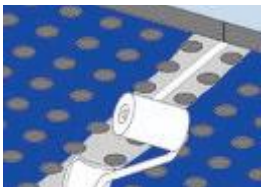
with air purification effect as a standard feature

EMISSION CLASS FOR BUILDING MATERIAL M1

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7161101110 7161101120	Thermotec panel SF 6/18R Acoustic fleece, black Thermotec panel SF 6/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	75.84 m² 32 pieces
	7161102110 7161102120	Thermotec panel SF 8/18R Acoustic fleece, black Thermotec panel SF 8/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	75.84 m² 32 pieces
	7161103110 7161103120	Thermotec panel SF 10/23R Acoustic fleece, black Thermotec panel SF 10/23R Acoustic fleece, white	1,196 x 2,001 x 10.0 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	76.48 m² 32 pieces
	7161104110 7161104120	Thermotec panel SF 12/25R Acoustic fleece, black Thermotec panel SF 12/25R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	76.80 m² 32 pieces
	7161105110 7161105120	Thermotec panel SF 15/30R Acoustic fleece, black Thermotec panel SF 15/30R Acoustic fleece, white	1,200 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	76.16 m² 32 pieces
	7161106110 7161106120	Thermotec panel SF 8/12/50R Acoustic fleece, black Thermotec panel SF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	76.80 m² 32 pieces
	7161107110 7161107120	Thermotec panel SF 12/20/66R Acoustic fleece, black Thermotec panel SF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	75.20 m² 32 pieces
	7161108110 7161108120	Thermotec panel SF 8/18Q Acoustic fleece, black Thermotec panel SF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	75.84 m² 32 pieces
	7161109110 7161109120	Thermotec panel SF 12/25Q Acoustic fleece, black Thermotec panel SF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	76.80 m² 32 pieces
	7161110110 7161110120	Thermotec panel SF 8/15/20R Acoustic fleece, black Thermotec panel SF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	76.80 m² * 32 pieces
	7161111110 7161111120	Thermotec panel SF 12/20/35R Acoustic fleece, black Thermotec panel SF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	76.80 m² * 32 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.



VoglThermotec panels PLUS of the VoglFuge system are perforated ceiling panels containing graphite, with high acoustic performance, a defined thermal conductivity of $\lambda \geq 0.52$ and air purification effect.

Black or white acoustic fleece backing (other fleece colours on request), four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.

Other available options: VoglThermotec panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Delivery includes VoglFuge System Kit with liquid glue (without screws).
For the screwing, we recommend Item no. 52150000 "perforated panel screw gold TB 23".

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

tested for contaminants

Note: The graphite content in the gypsum core results partly in an irregular appearance of the ceiling surface. This shows especially when regarding the ceiling from a distance at an angle and is unavoidable when using this type of panel.

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7371101110 7371101120	Thermotec panel PLUS VF 6/18R Acoustic fleece, black Thermotec panel PLUS VF 6/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	75.84 m² 32 pieces
	7371102110 7371102120	Thermotec panel PLUS VF 8/18R Acoustic fleece, black Thermotec panel PLUS VF 8/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	75.84 m² 32 pieces
	7371103110 7371103120	Thermotec panel PLUS VF 10/23R Acoustic fleece, black Thermotec panel PLUS VF 10/23R Acoustic fleece, white	1,196 x 2,001 x 10.0 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	76.48 m² 32 pieces
	7371104110 7371104120	Thermotec panel PLUS VF 12/25R Acoustic fleece, black Thermotec panel PLUS VF 12/25R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	76.80 m² 32 pieces
	7371105110 7371105120	Thermotec panel PLUS VF 15/30R Acoustic fleece, black Thermotec panel PLUS VF 15/30R Acoustic fleece, white	1,200 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	76.16 m² 32 pieces
	7371106110 7371106120	Thermotec panel PLUS VF 8/12/50R Acoustic fleece, black Thermotec panel PLUS VF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	76.80 m² 32 pieces
	7371107110 7371107120	Thermotec panel PLUS VF 12/20/66R Acoustic fleece, black Thermotec panel PLUS VF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	75.20 m² 32 pieces
	7371108110 7371108120	Thermotec panel PLUS VF 8/18Q Acoustic fleece, black Thermotec panel PLUS VF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	75.84 m² 32 pieces
	7371109110 7371109120	Thermotec panel PLUS VF 12/25Q Acoustic fleece, black Thermotec panel PLUS VF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	76.80 m² 32 pieces
	7371110110 7371110120	Thermotec panel PLUS VF 8/15/20R Acoustic fleece, black Thermotec panel PLUS VF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	76.80 m² * 32 pieces
	7371111110 7371111120	Thermotec panel PLUS VF 12/20/35R Acoustic fleece, black Thermotec panel PLUS VF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	76.80 m² * 32 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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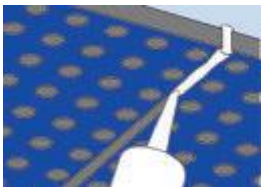


VoglThermotec panels PLUS of the Compound Seam system are perforated ceiling panels containing graphite, with high acoustic performance, a defined thermal conductivity of $\lambda \geq 0.52$ and air purification effect.

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: VoglThermotec panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

For the screwing, we recommend Item no. 52150000 "perforated panel screw gold TB 23".

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

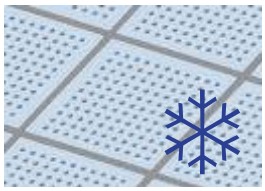
with air purification effect as a standard feature

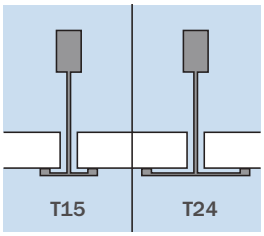
tested for contaminants LGA

Note: The graphite content in the gypsum core results partly in an irregular appearance of the ceiling surface. This shows especially when regarding the ceiling from a distance at an angle and is unavoidable when using this type of panel.

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7381101110 7381101120	Thermotec panel PLUS SF 6/18R Acoustic fleece, black Thermotec panel PLUS SF 6/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	75.84 m² 32 pieces
	7381102110 7381102120	Thermotec panel PLUS SF 8/18R Acoustic fleece, black Thermotec panel PLUS SF 8/18R Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	75.84 m² 32 pieces
	7381103110 7381103120	Thermotec panel PLUS SF 10/23R Acoustic fleece, black Thermotec panel PLUS SF 10/23R Acoustic fleece, white	1,196 x 2,001 x 10.0 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	76.48 m² 32 pieces
	7381104110 7381104120	Thermotec panel PLUS SF 12/25R Acoustic fleece, black Thermotec panel PLUS SF 12/25R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	76.80 m² 32 pieces
	7381105110 7381105120	Thermotec panel PLUS SF 15/30R Acoustic fleece, black Thermotec panel PLUS SF 15/30R Acoustic fleece, white	1,200 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	76.16 m² 32 pieces
	7381106110 7381106120	Thermotec panel PLUS SF 8/12/50R Acoustic fleece, black Thermotec panel PLUS SF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	76.80 m² 32 pieces
	7381107110 7381107120	Thermotec panel PLUS SF 12/20/66R Acoustic fleece, black Thermotec panel PLUS SF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 10.0 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	75.20 m² 32 pieces
	7381108110 7381108120	Thermotec panel PLUS SF 8/18Q Acoustic fleece, black Thermotec panel PLUS SF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 10.0 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	75.84 m² 32 pieces
	7381109110 7381109120	Thermotec panel PLUS SF 12/25Q Acoustic fleece, black Thermotec panel PLUS SF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	76.80 m² 32 pieces
	7381110110 7381110120	Thermotec panel PLUS SF 8/15/20R Acoustic fleece, black Thermotec panel PLUS SF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	76.80 m² * 32 pieces
	7381111110 7381111120	Thermotec panel PLUS SF 12/20/35R Acoustic fleece, black Thermotec panel PLUS SF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 10.0 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	76.80 m² * 32 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.



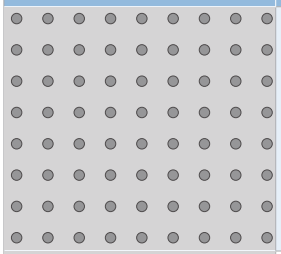
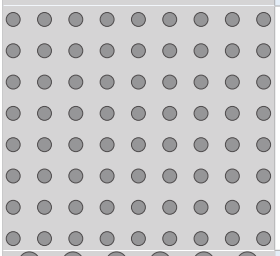
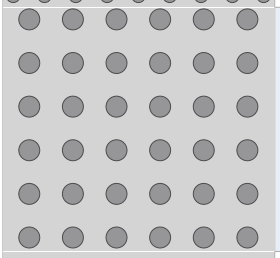
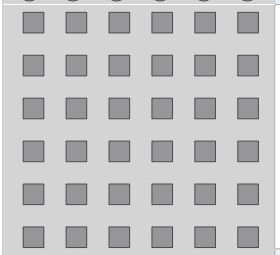


The surface-finished inlaid tiles consist of completely prefabricated, perforated plasterboard tiles with capillary tube mats integrated between the rows of perforation invisibly at the back.

VoglThermal Tiles are perforated plasterboards precision manufactured in compliance with EN 14190, th = 12.5 mm, with sharp edges, integrated capillary tube mats backed with sound-absorbing fleece and insulating material lining 30 mm (WLG 040), exposed side with factory-applied white finishing coat.

Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

Mounting system: Basic (T15/T24) exposed grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: C-S2, d0 according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

Illustration	Item number	Description	Details	Pieces/PU
	7391101110	GP-K Basic Thermo 600 T15/24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm	8 pcs./box
	7391201110	GP-K Basic Thermo 625 T15/24 6/18R AVS Acoustic fleece, black	625 x 625 x 12.5 mm	8 pcs./box
	on request	GP-K Basic Thermo 1,200 T15/24 6/18R AVS Acoustic fleece, black	1,200 x 600 x 12.5 mm	4 pcs./box
	on request	GP-K Basic Thermo 1,250 T15/24 6/18R AVS Acoustic fleece, black	1,250 x 625 x 12.5 mm	4 pcs./box
	7391102110	GP-K Basic Thermo 600 T15/24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm	8 pcs./box
	7391202110	GP-K Basic Thermo 625 T15/24 8/18R AVS Acoustic fleece, black	625 x 625 x 12.5 mm	8 pcs./box
	on request	GP-K Basic Thermo 1,200 T15/24 8/18R AVS Acoustic fleece, black	1,200 x 600 x 12.5 mm	4 pcs./box
	on request	GP-K Basic Thermo 1,250 T15/24 8/18R AVS Acoustic fleece, black	1,250 x 625 x 12.5 mm	4 pcs./box
	7391104110	GP-K Basic Thermo 600 T15/24 12/25R AVS Acoustic fleece, black	600 x 600 x 12.5 mm	8 pcs./box
	7391204110	GP-K Basic Thermo 625 T15/24 12/25R AVS Acoustic fleece, black	625 x 625 x 12.5 mm	8 pcs./box
	on request	GP-K Basic Thermo 1,200 T15/24 12/25R AVS Acoustic fleece, black	1,200 x 600 x 12.5 mm	4 pcs./box
	on request	GP-K Basic Thermo 1,250 T15/24 12/25R AVS Acoustic fleece, black	1,250 x 625 x 12.5 mm	4 pcs./box
	7391109110	GP-K Basic Thermo 600 T15/24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm	8 pcs./box
	7391209110	GP-K Basic Thermo 625 T15/24 12/25Q AVS Acoustic fleece, black	625 x 625 x 12.5 mm	8 pcs./box
	on request	GP-K Basic Thermo 1,200 T15/24 12/25Q AVS Acoustic fleece, black	1,200 x 600 x 12.5 mm	4 pcs./box
	on request	GP-K Basic Thermo 1,250 T15/24 12/25Q AVS Acoustic fleece, black	1,250 x 625 x 12.5 mm	4 pcs./box
	7391100110	GP-K Basic Thermo 600 T15/24 non-perforated	600 x 600 x 12.5 mm	8 pcs./box
	7391200110	GP-K Basic Thermo 625 T15/24 non-perforated	625 x 625 x 12.5 mm	8 pcs./box
	on request	GP-K Basic Thermo 1,200 T15/24 non-perforated	1,200 x 600 x 12.5 mm	4 pcs./box
	on request	GP-K Basic Thermo 1,250 T15/24 non-perforated	1,250 x 625 x 12.5 mm	4 pcs./box

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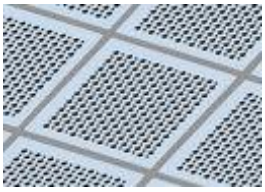
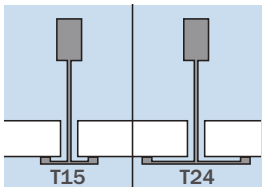




Vogl Ceiling Tiles are accessible, perforated ceiling panels with high acoustic performance for installation into T-profile systems.

The black acoustic fleece lining on the back (other colours on request) satisfies the highest demands on sound absorption.

Vogl Ceiling Tiles come with a pure white finishing coat (similar to RAL 9010).

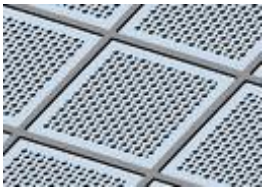
Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

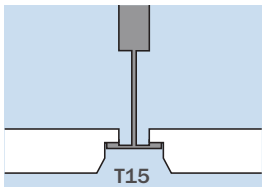
Mounting system: Basic (T15/T24) exposed grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

Illustration	Item number	Description	Details	Pieces/PU
	7301100000 7301200000	GP-K Basic 600 T15/T24 non-perforated GP-K Basic 625 T15/T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301101110 7301201110	GP-K Basic 600 T15/T24 6/18R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301102110 7301202110	GP-K Basic 600 T15/T24 8/18R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301107110 7301207110	GP-K Basic 600 T15/T24 12/20/66R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301108110 7301208110	GP-K Basic 600 T15/T24 8/18Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301109110 7301209110	GP-K Basic 600 T15/T24 12/25Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301112110 7301212110	GP-K Basic 600 T15/T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Basic 625 T15/T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7301114110 7301214110	GP-K Basic 600 T15/T24 3.5/9Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces

Further perforation patterns/dimensions available on request

Edge Shape "Excellent T15"





Vogl Ceiling Tiles are accessible, perforated ceiling panels with high acoustic performance for installation into T-profile systems.

The black acoustic fleece lining on the back (other colours on request) satisfies the highest demands on sound absorption.

Vogl Ceiling Tiles come with a pure white finishing coat (similar to RAL 9010).

Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

Mounting system: Excellent (T15) rebated grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: FK T15 (bevelled), type Excellent
Short edge: FK T15 (bevelled), type Excellent

Illustration	Item number	Description	Details	Pieces/PU
	7311300000 7311500000	GP-K Excellent 600 T15 non-perforated GP-K Excellent 625 T15 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311301110 7311501110	GP-K Excellent 600 T15 6/18R AVS Acoustic fleece, black GP-K Excellent 625 T15 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311302110 7311502110	GP-K Excellent 600 T15 8/18R AVS Acoustic fleece, black GP-K Excellent 625 T15 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311307110 7311507110	GP-K Excellent 600 T15 12/20/66R AVS Acoustic fleece, black GP-K Excellent 625 T15 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311308110 7311508110	GP-K Excellent 600 T15 8/18Q AVS Acoustic fleece, black GP-K Excellent 625 T15 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311309110 7311509110	GP-K Excellent 600 T15 12/25Q AVS Acoustic fleece, black GP-K Excellent 625 T15 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311312110 7311512110	GP-K Excellent 600 T15 5/82/15.4SL AVS Acoustic fleece, black GP-K Excellent 625 T15 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311314110 7311514110	GP-K Excellent 600 T15 3.5/9Q AVS Acoustic fleece, black GP-K Excellent 625 T15 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces

Further perforation patterns/dimensions available on request

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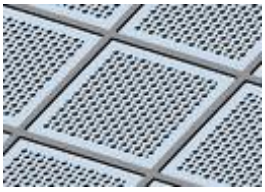
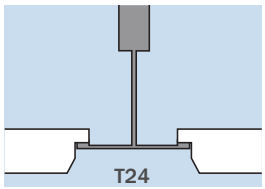
Fax: +49 9104 825-250
info@vogl-ceilingsystems.com
www.vogl-ceilingsystems.com

Edge Shape "Excellent T24"





Vogl Ceiling Tiles are accessible, perforated ceiling panels with high acoustic performance for installation into T-profile systems.

The black acoustic fleece lining on the back (other colours on request) satisfies the highest demands on sound absorption.

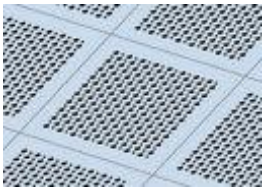
Vogl Ceiling Tiles come with a pure white finishing coat (similar to RAL 9010).

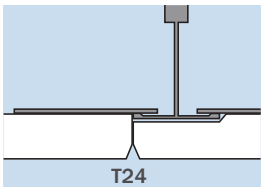
Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

Mounting system: Excellent (T24) rebated grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: FK T24 (bevelled), type Excellent
Short edge: FK T24 (bevelled), type Excellent

Illustration	Item number	Description	Details	Pieces/PU
	7311400000 7311600000	GP-K Excellent 600 T24 non-perforated GP-K Excellent 600 T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311401110 7311601110	GP-K Excellent 600 T24 6/18R AVS Acoustic fleece, black GP-K Excellent 625 T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311402110 7311602110	GP-K Excellent 600 T24 8/18R AVS Acoustic fleece, black GP-K Excellent 625 T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311407110 7311607110	GP-K Excellent 600 T24 12/20/66R AVS Acoustic fleece, black GP-K Excellent 625 T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311408110 7311608110	GP-K Excellent 600 T24 8/18Q AVS Acoustic fleece, black GP-K Excellent 625 T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311409110 7311609110	GP-K Excellent 600 T24 12/25Q AVS Acoustic fleece, black GP-K Excellent 625 T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311412110 7311612110	GP-K Excellent 600 T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Excellent 625 T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7311414110 7311614110	GP-K Excellent 600 T24 3.5/9Q AVS Acoustic fleece, black GP-K Excellent 625 T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces

Further perforation patterns/dimensions available on request





Vogl Ceiling Tiles are accessible, perforated ceiling panels with high acoustic performance for installation into T-profile systems.

The black acoustic fleece lining on the back (other colours on request) satisfies the highest demands on sound absorption.

Vogl Ceiling Tiles come with a pure white finishing coat (similar to RAL 9010).

Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

Mounting system: Premium (T24) concealed grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: FK T24 (bevelled), type Premium
Short edge: FK T24 (bevelled), type Premium

Illustration	Item number	Description	Details	Pieces/PU
	7331400000 7331600000	GP-K Premium 600 T24 non-perforated GP-K Premium 625 T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331401110 7331601110	GP-K Premium 600 T24 6/18R AVS Acoustic fleece, black GP-K Premium 625 T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331402110 7331602110	GP-K Premium 600 T24 8/18R AVS Acoustic fleece, black GP-K Premium 625 T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331407110 7331607110	GP-K Premium 600 T24 12/20/66R AVS Acoustic fleece, black GP-K Premium 625 T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331408110 7331608110	GP-K Premium 600 T24 8/18Q AVS Acoustic fleece, black GP-K Premium 625 T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331409110 7331609110	GP-K Premium 600 T24 12/25Q AVS Acoustic fleece, black GP-K Premium 625 T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331412110 7331612110	GP-K Premium 600 T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Premium 625 T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces
	7331414110 7331614110	GP-K Premium 600 T24 3.5/9Q AVS Acoustic fleece, black GP-K Premium 625 T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces

Further perforation patterns/dimensions available on request

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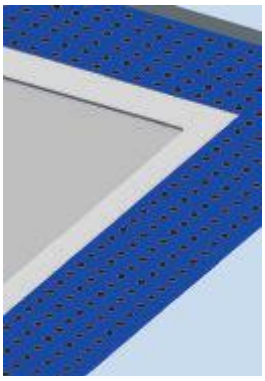


VoglToptec acoustic plaster system panels are perforated ceiling panels with high acoustic performance (exception: Type Reflexio which creates reflecting areas) for on-site lamination of the fleece plaster base (glass fibre fleece) and subsequent final coating with VoglToptec acoustic plaster.

Acoustic fleece or foil lamination backing, four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.
Delivery including VoglToptec screw kit (incl. perforated panel screws SN 3.5 x 30).

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 or B1-s1, d0 (with foil) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

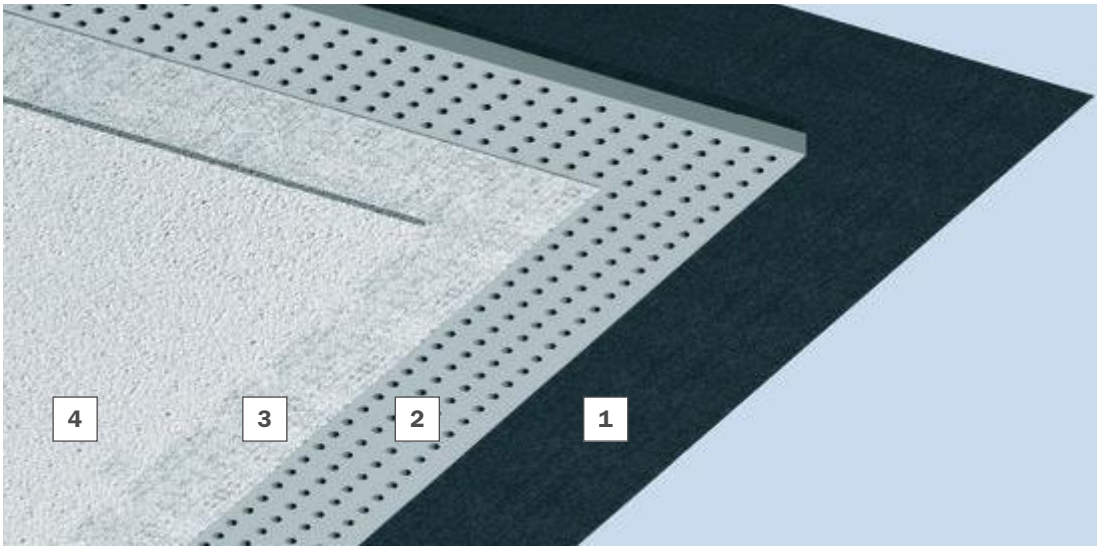
Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7221100010	Acoustic plaster system panel Reflexio Acoustic fleece, black	1,206 x 2,006 x 12.5 mm Perforated area: 0 % Mass: 10.0 kg/m²	60.5 m² 25 pieces
	7221102110	Acoustic plaster system panel 8/18R Acoustic fleece, black	1,194 x 2,004 x 12.5 mm Perforated area: 15.4 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7221109110	Acoustic plaster system panel 12/25Q Acoustic fleece, black	1,206 x 2,006 x 12.5 mm Perforated area: 22.9 % Mass: 7.7 kg/m²	60.5 m² 25 pieces
	7231113110	Ultracoustic panel DLV 12/25R Acoustic fleece, black	1,232.5 x 1,950 x 12.5 mm Perforated area: 33.9 % Mass: 6.5 kg/m²	60.0 m² 25 pieces
	7221109113	Acoustic plaster system panel 12/25Q Acoustic fleece, black **and foil**	1,206 x 2,006 x 12.5 mm Perforated area: 22.9 % Mass: 7.7 kg/m²	60.5 m² 25 pieces

1 Acoustic fleece or acoustic fleece and foil **ex factory**

2 VoglToptec system panel

3 Plaster base fleece **installed on-site**

4 Acoustic plaster **applied on-site**



New swinging shape for ceilings

Perfectly designed Floating Ceilings lastingly enhance any conventional ceiling construction. They improve noise absorption and thus selectively contribute to improved room acoustics. Furthermore, they offer the possibility of integrating chilled ceiling floating elements and fitted ceiling components (sprinklers, illumination, ventilation, etc.) in a great variety, always easily accessible.

The Floating Ceilings are manufactured upon request within a short time of drawing approval in accordance with customer specifications, pre-assembled and - if huge in size - disassembled again into manageable segments for ease of transport and on-site handling.

Simple installation technology assures easy handling and particularly quick processing.

Perfect design available ex factory

The unique prefabrication offers decisive advantages:

- Optimum joint appearance without visible panel edges
- Wide choice of shapes, colours and functions
- Perfect complement to old ceilings
- Easy installation
- Custom solutions can be produced at short notice
- Perfectly prefabricated floating ceilings for direct final installation – it could not be easier

Illustration	Item number	Description	Dimensions	PU
	77800000	Acoustic Floating Ceiling, ready to install Material: Perforated plasterboard according to EN 14190, 8/18R Acoustic fleece backing, black Surface with white finishing coat Backed with insulating material lining, 30 mm Including: Framework for four suspension points, suspension accessories (wire rope set), packed for safe transport **Further perforation patterns/ dimensions available on request**	1,000 x 2,000 x 80 mm (Visible dimensions)	1 piece

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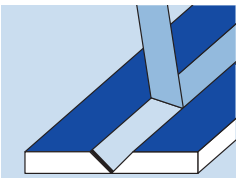
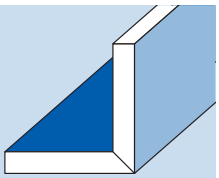
Available V-grooves



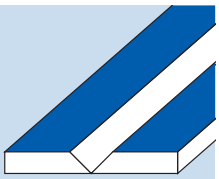
VoglFalt-Fix

Fold Fix moulded components come flat (space-saving) and factory-supplied with VoglFalt-Fix adhesive tape.



glued

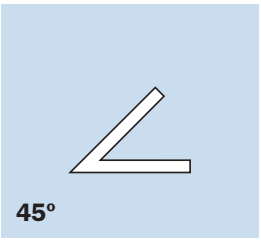
Special glued moulded components come ready to install.



unglued

Special unglued moulded components come flat and must be assembled and glued on-site.

Available angles



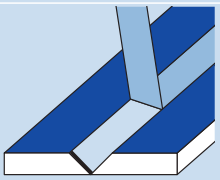
Other angles on request

Available edge designs (subject to technical feasibility)

VK	HRAK	AK	RK	FK	SK	PU	KU	lamella
full edge	half-round flattened edge	flattened edge	round edge	chamfered edge	cut edge	paper-clad edge	cardboard-clad edge	lamella edge

Available panel designs/thicknesses

Type	Description	Performance	Thickness in mm
A	Plasterboard type A as per EN 520 Plasterboard type GKB as per DIN 18180	Standard plasterboard Note: Available in 10 mm thickness as Thermotec panel or Thermotec panel PLUS (containing graphite)	6.5 mm 9.5 mm 10.0 mm 12.5 mm
DF	Plasterboard type DF as per EN 520 Plasterboard type GKF as per DIN 18180	Plasterboards with improved fire behaviour	12.5 mm 15.0 mm 18.0 mm 20.0 mm 25.0 mm
DFH2	Plasterboard type DFH2 as per EN 520 Plasterboard type GKFI as per DIN 18180	Plasterboards with reduced water absorption (impregnated)	12.5 mm 15.0 mm 20.0 mm 25.0 mm
GM-FH1I	Plasterboard type GM-FH1I as per DIN EN 15283-1	Waterproofed special panel for use in damp rooms	12.5 mm

Illustration	Item number	Description	Dimensions width length thickness	m/pallet pcs./pallet
		VoglFalt-Fix moulded components Plasterboards cut to size with 90° V-grooves and VoglFalt-Fix adhesive tape	Type of panel Type "A" (EN 520) Custom dimensions and other panel types available on request	
 **VoglFalt-Fix**	75700010	VoglFalt-Fix moulded components 90° 100+200	300 x 2,000 x 12.5 mm	400 m/pallet 200 pcs./pallet
	75710010	VoglFalt-Fix moulded components 90° 200+200	400 x 2,000 x 12.5 mm	300 m/pallet 150 pcs./pallet
	75720010	VoglFalt-Fix moulded components 90° 300+300	600 x 2,000 x 12.5 mm	200 m/pallet 100 pcs./pallet
	75730010	VoglFalt-Fix moulded components 90° 200+400	600 x 2,000 x 12.5 mm	200 m/pallet 100 pcs./pallet

1 Delivered flat

2 Remove cover paper

3 Press limbs firmly together

4 Done!

Key advantages:

- Glueless joining of moulded components on site, no priming, no drying times
- Easy on-site handling of moulded components
- High adhesive strength immediately
- Angle adjustment of ± 2° after adhesion
- Delivered flat - less handling damage

Note:

VoglFalt-Fix moulded components must be installed without any stresses acting upon them.
The free limb must always be fixated.

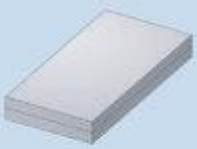
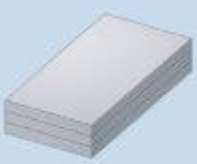
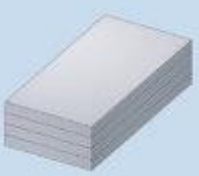
		GK panel strips Glued plasterboards as moving ceiling connection Long edge: SK Short edge: SK	Type of panel Type "A" (EN 520) Custom dimensions available on request	
	76000070	Panel strips (double)	50 x 2,500 x 25.0 mm	1,260 m/pallet 504 pcs./pallet
	76010070	Panel strips (double)	75 x 2,500 x 25.0 mm	880 m/pallet 352 pcs./pallet
	76020070	Panel strips (double)	100 x 2,500 x 25.0 mm	690 m/pallet 276 pcs./pallet
	76100070	Panel strips (triple)	50 x 2,500 x 37.5 mm	840 m/pallet 336 pcs./pallet
	76110070	Panel strips (triple)	75 x 2,500 x 37.5 mm	560 m/pallet 224 pcs./pallet
	76120070	Panel strips (triple)	100 x 2,500 x 37.5 mm	450 m/pallet 180 pcs./pallet
	76200070	Panel strips (quadruple)	50 x 2,500 x 50.0 mm	600 m/pallet 240 pcs./pallet
	76210070	Panel strips (quadruple)	75 x 2,500 x 50.0 mm	440 m/pallet 176 pcs./pallet
	76220070	Panel strips (quadruple)	100 x 2,500 x 50.0 mm	330 m/pallet 132 pcs./pallet

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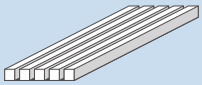
Illustration	Item number	Description	Dimensions width length thickness	m/pallet pcs./pallet
		Microslits (longitudinal slits) of type "A" plasterboards (EN 520) 12.5 mm for on-site adaptation to round components with tight radii		ME = 1 m
	74807020 74817020	Microslits (longitudinal slits) Microslits (longitudinal slits) Plaster strip: 5.0 mm Groove: 1.7 mm For radii ≥ 80.0 mm	1,250 x 2,000 x 12.5 mm 600 x 2,000 x 12.5 mm	Packed in bulk according to required quantity

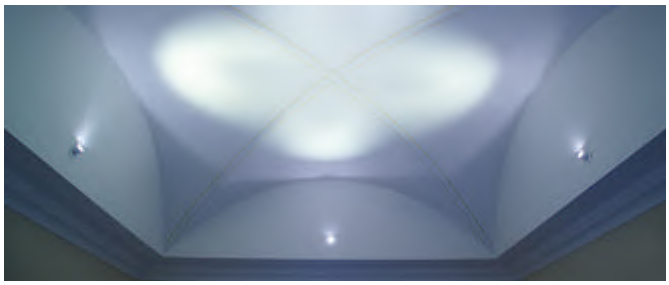
Other thicknesses, lengths and qualities on request. Longitudinal, unslit edge to the left and/or right possible on request. Custom elements possible.

Find further moulded components on page 147 et seq.

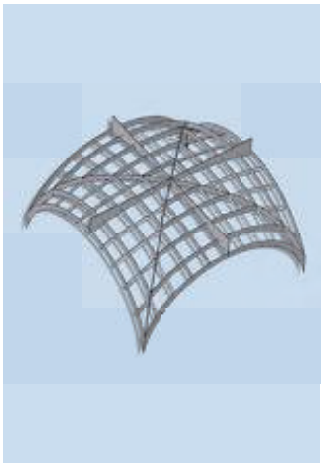
Perfect design available ex factory

Three-dimensional ceiling designs with curved components are the royal class in sophisticated interior design.
Various types of arches, domes or curved segments as well as convex or concave forms require a high level of craftsmanship.

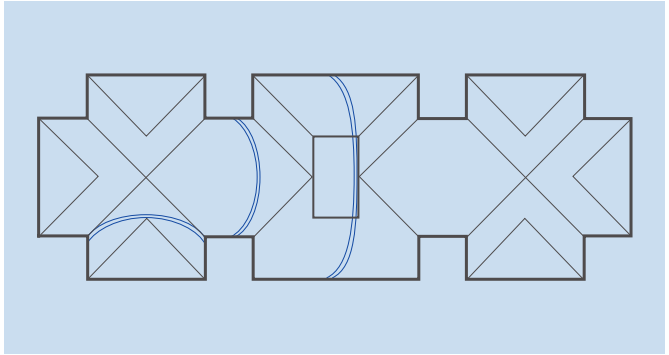
Vogl Deckensysteme achieves the basis for the complex interaction between individual steel and plaster components through comprehensive expertise and absolute precision in detail.



- High dimensional accuracy of all individual parts guarantees the aesthetic final results
- Complex two- and three dimensional shapes can be produced
- Economical installation provides an important time advantage and result reliability
- Manageable units for optimal logistics and handling on the job site
- Our knowledge of the manifold options of applications is the key to success, starting right at the initial planning stage
- Customised special solutions from lightweight steel construction to individual covering are realised in short time

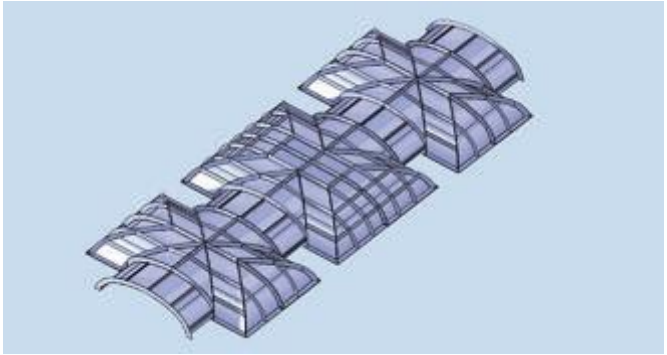


Customer drawing:



We receive the drawing from the customer and work out every detail precisely.

Vogl detailed drawing:



Then, we create a 3D model that serves as a template for production.

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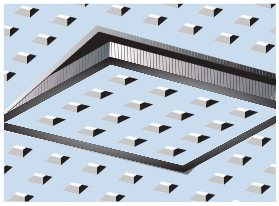
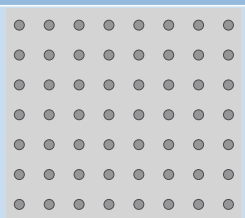
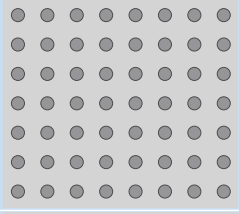
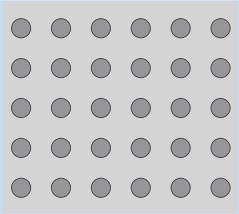
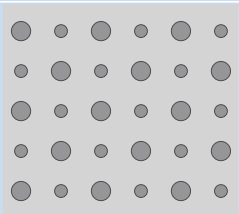
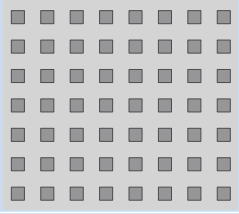
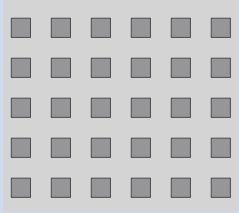
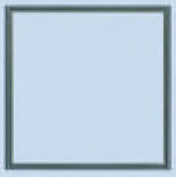
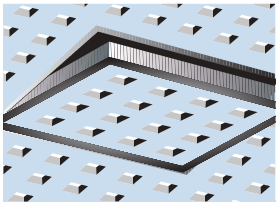


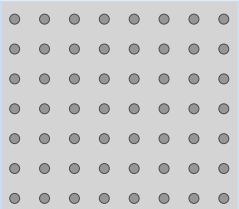
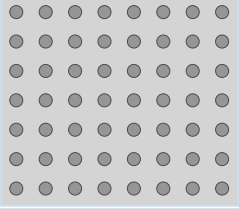
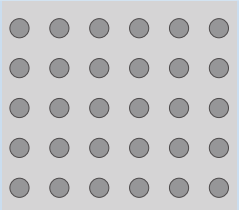
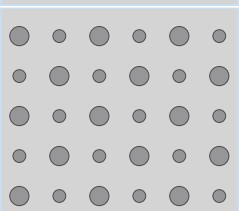
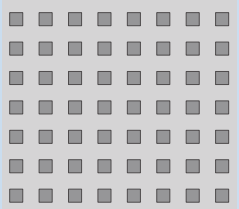
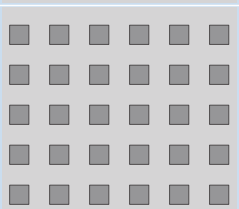
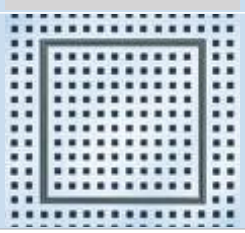
Vogl Access Panels are the perfect technical solution for quickly adding accessible openings into perforated ceilings. The perforated panel insert precisely factory-fitted into the opening frame is lined with black acoustic fleece for high acoustic performance. The specified standard articles are designed for a panel thickness of 12.5 mm.

Illustration	Item number	Description	Access opening dimensions
	84000600	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 200 x 200 mm
	84000100	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 300 x 300 mm
	84000200	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 400 x 400 mm
	84000300	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 500 x 500 mm
	84000400	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 600 x 600 mm
	84000500	Access panel, aluminium, 6/18R, black acoustic fleece	approx. 400 x 600 mm
	84010600	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 200 x 200 mm
	84010100	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 300 x 300 mm
	84010200	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 400 x 400 mm
	84010300	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 500 x 500 mm
	84010400	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 600 x 600 mm
	84010500	Access panel, aluminium, 8/18R, black acoustic fleece	approx. 400 x 600 mm
	84020600	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 200 x 200 mm
	84020100	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 300 x 300 mm
	84020200	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 400 x 400 mm
	84020300	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 500 x 500 mm
	84020400	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 600 x 600 mm
	84020500	Access panel, aluminium, 12/25R, black acoustic fleece	approx. 400 x 600 mm
	84030600	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 200 x 200 mm
	84030100	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 300 x 300 mm
	84030200	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 400 x 400 mm
	84030300	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 500 x 500 mm
	84030400	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 600 x 600 mm
	84030500	Access panel, aluminium, 8/12/50R, black acoustic fleece	approx. 400 x 600 mm
	84040600	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 200 x 200 mm
	84040100	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 300 x 300 mm
	84040200	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 400 x 400 mm
	84040300	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 500 x 500 mm
	84040400	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 600 x 600 mm
	84040500	Access panel, aluminium, 8/18Q, black acoustic fleece	approx. 400 x 600 mm
	84050600	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 200 x 200 mm
	84050100	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 300 x 300 mm
	84050200	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 400 x 400 mm
	84050300	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 500 x 500 mm
	84050400	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 600 x 600 mm
	84050500	Access panel, aluminium, 12/25Q, black acoustic fleece	approx. 400 x 600 mm
	85000600	Access panel, aluminium, non-perforated plasterboard insert	approx. 200 x 200 mm
	85000100	Access panel, aluminium, non-perforated plasterboard insert	approx. 300 x 300 mm
	85000200	Access panel, aluminium, non-perforated plasterboard insert	approx. 400 x 400 mm
	85000300	Access panel, aluminium, non-perforated plasterboard insert	approx. 500 x 500 mm
	85000400	Access panel, aluminium, non-perforated plasterboard insert	approx. 600 x 600 mm
	85000500	Access panel, aluminium, non-perforated plasterboard insert	approx. 400 x 600 mm

Further perforation patterns available on request!



Vogl Access panels are the perfect technical solution for quickly adding accessible openings into perforated ceilings. The perforated panel insert precisely factory-fitted into the opening frame is lined with white acoustic fleece for high acoustic performance. The specified standard articles are designed for a panel thickness of 12.5 mm.

Illustration	Item number	Description	Access opening dimensions
	84100600	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 200 x 200 mm
	84100100	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 300 x 300 mm
	84100200	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 400 x 400 mm
	84100300	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 500 x 500 mm
	84100400	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 600 x 600 mm
	84100500	Access panel, aluminium, 6/18R, white acoustic fleece	approx. 400 x 600 mm
	84110600	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 200 x 200 mm
	84110100	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 300 x 300 mm
	84110200	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 400 x 400 mm
	84110300	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 500 x 500 mm
	84110400	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 600 x 600 mm
	84110500	Access panel, aluminium, 8/18R, white acoustic fleece	approx. 400 x 600 mm
	84120600	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 200 x 200 mm
	84120100	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 300 x 300 mm
	84120200	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 400 x 400 mm
	84120300	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 500 x 500 mm
	84120400	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 600 x 600 mm
	84120500	Access panel, aluminium, 12/25R, white acoustic fleece	approx. 400 x 600 mm
	84130600	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 200 x 200 mm
	84130100	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 300 x 300 mm
	84130200	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 400 x 400 mm
	84130300	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 500 x 500 mm
	84130400	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 600 x 600 mm
	84130500	Access panel, aluminium, 8/12/50R, white acoustic fleece	approx. 400 x 600 mm
	84140600	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 200 x 200 mm
	84140100	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 300 x 300 mm
	84140200	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 400 x 400 mm
	84140300	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 500 x 500 mm
	84140400	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 600 x 600 mm
	84140500	Access panel, aluminium, 8/18Q, white acoustic fleece	approx. 400 x 600 mm
	84150600	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 200 x 200 mm
	84150100	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 300 x 300 mm
	84150200	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 400 x 400 mm
	84150300	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 500 x 500 mm
	84150400	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 600 x 600 mm
	84150500	Access panel, aluminium, 12/25Q, white acoustic fleece	approx. 400 x 600 mm
		Access panel, aluminium Custom models: Custom dimensions, single and double flap design, integrated cable duct When ordering, please specify size of access opening and desired perforation pattern	

Further perforation patterns available on request!

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Illustration	Item number	Description	Model	PU
	86201100 86201200 86202100 86202200 86203100 86203200	VoglModu Quad A/P 1,000 x 1,000 mm DI VoglModu Quad A/P 1,000 x 1,000 mm DALI VoglModu Quad A/P 1,300 x 1,300 mm DI VoglModu Quad A/P 1,300 x 1,300 mm DALI VoglModu Quad A/P 1,600 x 1,600 mm DI VoglModu Quad A/P 1,600 x 1,600 mm DALI	Overall height: 170 mm Housing colour: white, similar to RAL 9010	1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU
	86299100 86299200	VoglModu Quad A/P wire suspension 1,000 - 1,300 VoglModu Quad A/P wire suspension 160	1.5 m/suspension	4 pcs./PU 4 pcs./PU
	86101100 86101200 86102100 86102200 86103100 86103200	VoglModu Round A/P 950 mm DI VoglModu Round A/P 950 mm DALI VoglModu Round A/P 1,250 mm DI VoglModu Round A/P 1,250 mm DALI VoglModu Round A/P 1,550 mm DI VoglModu Round A/P 1,550 mm DALI	Overall height: 170 mm Housing colour: white, similar to RAL 9010	1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU
	86199100 86199200	VoglModu Round A/P wire suspension 950 - 1,250 VoglModu Round A/P wire suspension 1,550	1.5 m/suspension	4 pcs./PU 4 pcs./PU
	86111100 86111200 86112100 86112200 86113100 86113200	VoglModu Round E 950 mm DI VoglModu Round E 950 mm DALI VoglModu Round E 1,250 mm DI VoglModu Round E 1,250 mm DALI VoglModu Round E 1,550 mm DI VoglModu Round E 1,550 mm DALI	Overall height: 200 mm	1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU 1 pc./PU

DI = Standard model, dimmable 1 - 10 V, for electronic ballasts

DALI = short for "Digital Addressable Lighting Interface" – the standardised digital interface for electronic ballasts. DALI intelligent light management offers many advantages.

All light modules come with light strips and diffuser foil, but without the appropriate illuminants.
For more information on installation and electric requirements, please refer to our technical documentation.

Our partner in the range of illuminated and stretch ceilings

You are planning, calculating or carrying out a project that includes both perforated plasterboard ceilings (or tiles, moulded elements, plaster ceilings, etc.) and illuminated ceilings?

Contact us and we will be glad to coordinate the interfaces with our partner Rentex for you. This way you will have only one contact partner for manifold, perfectly designed ceiling surfaces.

Since 1987, Rentex Wand- und Deckensysteme GmbH has been supporting architects, planners and project owners with system solutions for illuminated ceilings and walls from the design stage to the functional, inspected and approved luminous surface. Whether glass, foil or technical lighting fabric, Rentex has a broad range of profile systems for all diffusers to satisfy every design and structural requirement.

The spectrum of lighting and control technology ranges from manual dimmability to computer-aided daylight simulation and dynamic RGB colour mixing. The highlights are made-to-measure ceiling structures of foil, glass or fabric, unusual 3D shapes or complex systems with integrated ventilation, cooling and sound protection.

www.rentex-systeme.de

Vogl Stretch Ceilings offer almost unlimited freedom of design with:

- exciting surfaces and three-dimensional shapes
- contrasts between colours and degrees of gloss
- accentuated interaction of light and illumination
- more corporate design by using printed foils
- ideal combination possibilities in form, colour and performance with Vogl acoustic design ceilings

For several years, we have worked hand-in-hand with our partner Rentex in the field of illuminated and stretch ceilings.

This cooperation offers significant advantages for you:

- One contact partner who coordinates all interfaces for you
- Numerous design options by combining acoustic design ceiling, acoustic plaster ceiling, customised moulded components and illuminated/stretch ceiling
- You get the complete technical documentation and drawings from us
- We can find qualified specialist contractors for you

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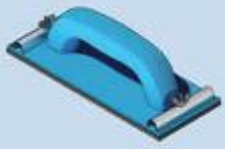
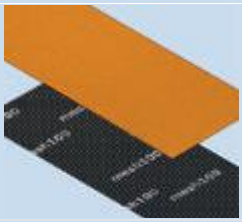
Illustration	Item number	Description	Dimensions	PU PU/pallet
 Illustration shows VoglFriestape-Set 50 mm	90005324 90005325 90005326 90005327 90005328	VoglFriestape-Set 20 mm tape width 20 mm VoglFriestape-Set 50 mm tape width 50 mm VoglFriestape-Set 75 mm tape width 75 mm VoglFriestape-Set 100 mm tape width 100 mm VoglFriestape-Set 150 mm tape width 150 mm VoglFriestape-Set contains all tools and materials necessary for creating individual frieze areas.	2 rolls of tape 20 mm = 200 linm 3 rolls of tape 50 mm = 150 linm 2 rolls of tape 75 mm = 100 linm 1 roll of tape 100 mm = 50 linm 1 roll of tape 150 mm = 50 linm	1 PU = 1 set 72 PU/pallet 1 PU = 1 set 72 PU/pallet 1 PU = 1 set 72 PU/pallet 1 PU = 1 set 72 PU/pallet 1 PU = 1 set 72 PU/pallet
	90053000	Connection pliers Sturdy connection pliers for quick and secure fixing of framework elements of up to 2 x 1 mm sheet thickness		1 PU = 1 piece
	90022000 90022095	Chamfer plane Ergonomic special chamfer plane made of a handy cast zinc housing and with exchangeable blades for quick chamfering of plasterboards 22° or 45° Replacement blades for chamfer plane		1 PU = 1 piece 1 PU = 100 pieces
	90231000	Hand sander Body made of impact-resistant plastic, foam rubber sanding pad, wing screws to fasten abrasive mesh / sanding paper	240 x 80 mm	1 PU = 1 piece
	90234000 90233000	Sanding paper 100 grit Abrasive mesh 100 grit	280 x 115 mm 280 x 100 mm	1 PU = 100 sheets 1 PU = 10 sheets
	90310000 90320000 90311000 90321000	Double layer fleece VAD 32 black Self-adhesive fleece, black Double layer fleece VAD 62 black Self-adhesive fleece, black Double layer fleece VAD 32 white Self-adhesive fleece, white Double layer fleece VAD 62 white Self-adhesive fleece, white	Roll width 32 mm Roll length 200 m Roll width 62 mm Roll length 200 m Roll width 32 mm Roll length 200 m Roll width 62 mm Roll length 200 m	1 PU = 1 roll 60 PU/pallet 1 PU = 1 roll 60 PU/pallet 1 PU = 1 roll 60 PU/pallet 1 PU = 1 roll 60 PU/pallet

Illustration	Item number	Description	Dimensions	PU PU/pallet
	90062000	Drywall saw Quick, safe cutting of plasterboards. Sharp point for easy penetration into the material, wooden handle	Blade length = 155 mm	1 PU = 1 piece
	90027000	Round rasp Keyhole saw with plastic handle Diameter 4.8 mm	Blade length = 220 mm	1 PU = 1 piece
	90203000	Bucket trowel With wooden handle, stainless steel blade	Trowel blade = 80 mm	1 PU = 1 piece 12 pcs./box
	90204000	Screw head trowel With wooden handle, stainless steel blade, 2 holes for excess filling over screw heads (diameter 8 mm and 10 mm)	Trowel blade = 80 mm	1 PU = 1 piece
	90201100	Screwdriver handle trowel Wooden handle with integrated screw bit PH2, stainless steel blade	Trowel blade = 150 mm	1 PU = 1 piece 10 pcs./box
	90010000	Universal mixing paddle Sturdy mixing paddle (hot-dip galvanised) for use with power drills. 9 mm chuck.	Diameter = 90 mm, shaft length = 390 mm	1 PU = 1 piece
	90180000 90180094 90180095 90180096	Joint sealing set, 3-piece Consisting of: tube, plunger, nozzle Spare parts for joint sealing set tube L = 210 mm plunger nozzle		1 PU = 1 set 50 sets/pallet 1 PU = 1 piece 1 PU = 1 piece 1 PU = 1 piece
	90071098 90072098 90073098 90074098 90075098 90090000	Perforation wheel 6/18R without handle Perforation wheel 8/18R without handle Perforation wheel 10/23R without handle Perforation wheel 12/25R without handle Perforation wheel 15/30R without handle Handle with knurled screw Attention when ordering: Order handle separately		1 PU = 1 piece 1 PU = 1 piece 1 PU = 1 piece 1 PU = 1 piece 1 PU = 1 piece 1 PU = 1 piece

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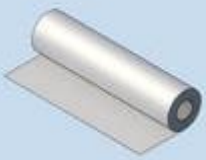
Illustration	Item number	Description	Dimensions/contents/ consumption	PU PU/pallet
	90191000 90192000 90193000 90194000 90195000 90196000 90198000	Drilling template 6/18R Drilling template 8/18R Drilling template 10/23R Drilling template 12/25R Drilling template 15/30R Drilling template 8/12/50R Drilling template 12/20/66R Drilling templates made of stainless steel		1 PU= 1 piece 1 PU= 1 piece 1 PU= 1 piece 1 PU= 1 piece 1 PU= 1 piece 1 PU= 1 piece 1 PU= 1 piece
	90171100 90172100 90173100 90174100 90175100 90176100 90178100	Mounting aid 6/18R set Mounting aid 8/18R/Q set Mounting aid 10/23R set Mounting aid 12/25R/Q set Mounting aid 15/30R set Mounting aid 8/12/50R set Mounting aid 12/20/66R set Consisting of: 2 x mounting aid		1 PU = 1 set 1 PU = 1 set 1 PU = 1 set 1 PU = 1 set 1 PU = 1 set 1 PU = 1 set 1 PU = 1 set
	90501300	Vogl Supergrund primer LF 20 l Universal primer, absorbency regulating, free from solvents and softening agents, low-emission, free from active fogging substances	1 canister = 20 litres Consumption: approx. 0.15 l/m²	1 PU = 1 canister 24 canisters/pallet
	90705000	Vogl ReadyFiller Joint compound as premixed material in tubular bag for quick filling of acoustic design panels with the Compound Seam or GSG4 Joint. One tubular bag is sufficient for approx. 8 m² of Compound Seam or 12 m² of GSG4 Joint. Smallest delivery unit: 1 PU (20 x tubular bag of 600 ml)	1 tubular bag = 600 ml Consumption: Approx. 50 ml/m² for GSG4 Joint Approx. 75 ml/m² for Compound Seam	1 PU = 20 tubular bags

Illustration	Item number	Description	Dimensions/contents/ consumption	PU PU/pallet
	90503200	Vogl ceiling paint White Premium 15 l Very well covering indoor emulsion paint, free from solvents and softening agents, low-emission, wet abrasion class 3 as per EN 13300, white, free from active fogging substances, very high whiteness, dull matt	1 bucket = 15 litres Consumption: approx. 0.3 l/m² when applied in two operations	1 PU = 1 bucket 24 buckets/pallet
	90504200	Vogl ceiling paint Colormix Plus 15 l Well covering indoor emulsion paint, free from solvents and softening agents, low-emission, wet abrasion class 3 as per EN 13300, dull matt, free from active fogging substances; please specify colour of choice (RAL etc.) when ordering	1 bucket = 15 litres Consumption: approx. 0.3 l/m² when applied in two operations	1 PU = 1 bucket 24 buckets/pallet
	90605000	VoglToptec plaster base fleece Special glass fibre fleece as plaster base for coating with acoustic plaster, non-combustible, crack-bridging, damp-proof, dimensionally stable, white colour, designed for gluing onto perforated ceiling panels with special adhesive	Roll width = 1,145 mm Roll length = 100 m	1 PU = 1 roll 15 rolls/pallet
	90608000	VoglToptec plaster base fleece, small Special glass fibre fleece as plaster base for coating with acoustic plaster, non-combustible A2, crack-bridging, damp-proof, dimensionally stable, white colour. The handy-sized roll of plaster base fleece is especially suited for applying wallpaper in the perimeter/wall connection area as well as for custom solutions.	Roll width = 500 mm Roll length = 100 m	1 PU = 1 roll
	90604000	VoglToptec special adhesive Ready-to-use dispersion adhesive, tested for harmful substances, for bonding plaster base fleece to perforated ceiling panels, free from solvents and softening agents, low-emission, free from active fogging substances, ready-mixed product	1 bucket = 16 kg Consumption: approx. 0.3 kg/m²	1 PU = 1 bucket 24 buckets/pallet
	90602000	VoglToptec Akustik Nano SF Decorative, open-pored, machine-applied acoustic plaster, very fine texture, grain size 0.5 - 0.8 mm, dull matt, high degree of whiteness, ready-mixed product	1 bucket = 18 kg Consumption: 2.7 - 3.0 kg/m²	1 PU = 1 bucket 24 buckets/pallet
	90602100	VoglToptec Akustik Color Nano SF Decorative, open-pored machine-applied acoustic plaster, very fine texture, grain size 0.5 - 0.8 mm, ready-mixed product; please specify colour of choice (RAL etc.) when ordering	1 bucket = 18 kg Consumption: 3.0 - 3.5 kg/m² *	1 PU = 1 bucket 24 buckets/pallet
	90607000	VoglToptec wallpaper smoother Top-quality wallpaper smoother made of plastic suitable for wallpapering the plaster base fleece in the VoglToptec system		1 PU = 1 piece

*Note: Dark or special colour shades may lead to increased consumption. Actual quantities depend on the respective project.

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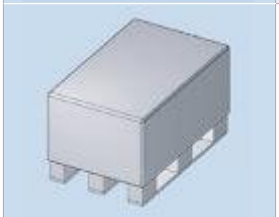
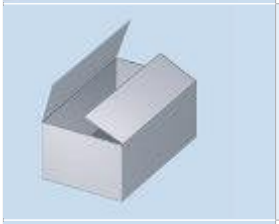
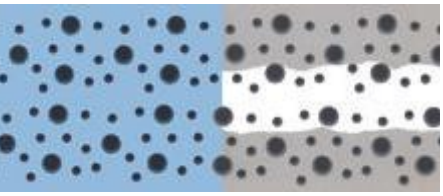
Illustration	Item number	Description	Dimensions	Unit
	Z02	Europallets, charged Europool pallet, wood UIC standard 435/2	1,200 x 800 x 144 mm	1 piece
	Z03	Europallets, exchanged Europool pallet, wood UIC standard 435/2	1,200 x 800 x 144 mm	1 piece
	Z04	Panel pallet, charged Wooden panel pallet for perforated ceiling panels or custom moulded components	2,000 x 1,250 x 115 mm 2,500 x 1,250 x 115 mm 3,000 x 1,250 x 115 mm	1 piece 1 piece 1 piece
	Z06	Additional charges based on time and material used		1 piece
	Z19	Surcharge – for sale of smaller pallet units		1 piece
	Z20	Special palletising – acoustic design panels		1 piece
	Z08	Plastic foil hood for Europallets PE foil hood		1 piece
	Z09	Plastic foil hood for panel pallets PE foil hood		1 piece
	Z10	Thermal protection hood for Europallets Frost-proof pallet packaging		1 piece
	Z05	Proportional shipping costs Calculation of proportional shipping costs for net values less than the limit for delivery "free domicile"		1 piece
	Z15	Unloading costs at ground level with forklift Truck-mounted forklift; calculation base: Per metric tonne of load, 15 minutes of forklift unloading included		1 piece
	Z17	Unloading costs with crane 18 - 27 m Unloading with truck-mounted crane; on request		1 piece
	Z18	Unloading costs with crane 27 m Unloading with truck-mounted crane; on request		1 piece
	Z22	Parcel service charges standard 48 h service*	* Specified door-to-door times only valid within Germany.	1 piece
	Z23	Parcel service charges express 24 h service*		1 piece
	Z24	Parcel service charges overnight – 10:30 a.m. fix*		1 piece
	Z25	Parcel service charges overnight – 09:00 a.m. fix*		1 piece
interseroh Transportverpackung		Interseroh Recycling Certificate no. 32196 Our packaging materials are documented with Interseroh and will be collected and recycled by Interseroh partners on request. More information is available upon request		

VoglFuge



Ceilings
Without Filler

with air purification effect as a standard feature

Create perfect acoustic design ceilings
with the VoglFuge system

Ceilings without filler

Design acoustic ceilings meet the highest demands on performance and aesthetics for interior design. Particularly in highly frequented areas, such ceiling systems serve as sound absorbers, cooling elements and eye-catchers at the same time. For this reason, high precision in installation is particularly needed here. Unlike conventional ceiling solutions, errors in the installation are immediately visible in the finished product and seriously affect the final appearance.

This is where the VoglFuge system comes into play, allowing acoustic design ceilings to be implemented quickly, economically and with the utmost reliability during installation for guaranteed results.

Benefits of the VoglFuge system:

The unique joint technology offers maximum reliability for installation and finishes:

- Quick mounting of panels – “edge-to-edge”
- No more complex panel alignment
- Quickest possible joint finishing with our unique VoglFuge-strip
- Significant time saving due to quick installation and drying times
- Maximum crack resistance
- Less dust and moisture
- Always complete with the VoglFuge System Kit including perforated panel screws SN 3.5 x 30 mm

The VoglFuge System Kit includes the required material, tools and a detailed assembly instruction to ensure the top quality of workmanship and result.

The right tools at the right time in exactly the right place.

Our VoglFuge System Kit is only available in combination with Vogl acoustic design panels. It cannot be purchased separately.

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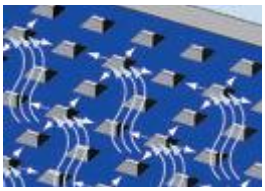


Vogl acoustic design ceilings of VoglFuge system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request), four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Delivery includes VoglFuge System Kit (incl. perforated panel screws SN 3.5 x 30).

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7061101110 7061101120	Acoustic Design Panel VF 6/18R Acoustic fleece, black Acoustic Design Panel VF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7061102110 7061102120	Acoustic Design Panel VF 8/18R Acoustic fleece, black Acoustic Design Panel VF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7061103110 7061103120	Acoustic Design Panel VF 10/23R Acoustic fleece, black Acoustic Design Panel VF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7061104110 7061104120	Acoustic Design Panel VF 12/25R Acoustic fleece, black Acoustic Design Panel VF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7061105110 7061105120	Acoustic Design Panel VF 15/30R Acoustic fleece, black Acoustic Design Panel VF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7061106110 7061106120	Acoustic Design Panel VF 8/12/50R Acoustic fleece, black Acoustic Design Panel VF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7061107110 7061107120	Acoustic Design Panel VF 12/20/66R Acoustic fleece, black Acoustic Design Panel VF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7061108110 7061108120	Acoustic Design Panel VF 8/18Q Acoustic fleece, black Acoustic Design Panel VF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7061109110 7061109120	Acoustic Design Panel VF 12/25Q Acoustic fleece, black Acoustic Design Panel VF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7061110110 7061110120	Acoustic Design Panel VF 8/15/20R Acoustic fleece, black Acoustic Design Panel VF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7061111110 7061111120	Acoustic Design Panel VF 12/20/35R Acoustic fleece, black Acoustic Design Panel VF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

Block slotting										
Design	Slotting	Slots per "block"		Rim* (unslotted)		Slot area (panel)	Panel dimensions (standard size)		Centre distance (secondary profile)	Edges
		Short	Long	Short (mm)	Long (mm)	%	Width mm	Length mm	mm	
4F	5/82/15.4SL	69	4	73.9	73.3	15.7	1,200	2,400	300	SK
8F	5/82/15.4SL	30	4	73.9	73.3	13.7	1,200	2,400	300	SK
8/16F	5/82/15.4SL	4 x 6	4	73.9	73.3	10.9	1,200	2,400	300	SK

*Edge dimensions refer to visible rim

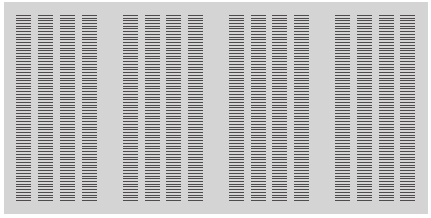
Block perforation										
Design	Perforation	Holes per "block"		Rim* (non-perforated)		Perforated area (panel)	Panel dimensions (standard size)		Centre distance (secondary profile)	Edges
		Short	Long	Short (mm)	Long (mm)	%	Width mm	Length mm	mm	
4F	8/18R	64	30	41	41	12.9	1,224	2,448	312.5	SK
	12/25R	45	21	44	44	14.9	1,200	2,400	300	SK
	12/25Q	45	21	44	44	18.9	1,200	2,400	300	SK
8F	8/18R	30	30	41	41	12.1	1,224	2,448	312.5	SK
	12/25R	21	21	44	44	13.9	1,200	2,400	300	SK
	12/25Q	21	21	44	44	17.7	1,200	2,400	300	SK
32F	8/18R	13	13	41	41	9.1	1,224	2,448	312.5	SK
	12/25R	9	9	44	44	10.2	1,200	2,400	300	SK
	12/25Q	9	9	44	44	13.0	1,200	2,400	300	SK

*Edge dimensions refer to visible rim

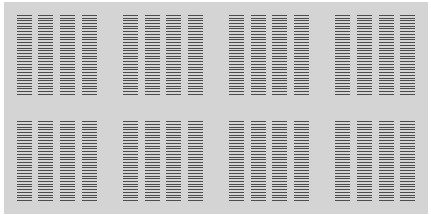
Diagrams represent visible side

Block slotting 4F

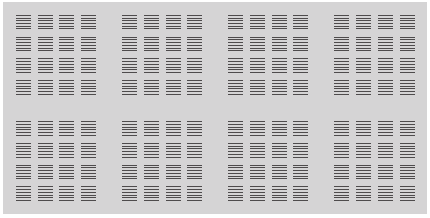
Short / Long



Block slotting 8F



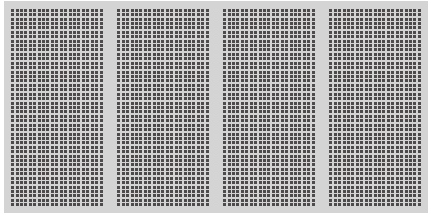
Block slotting 8/16F



Slotting only possible in longitudinal direction of the ceiling panels.

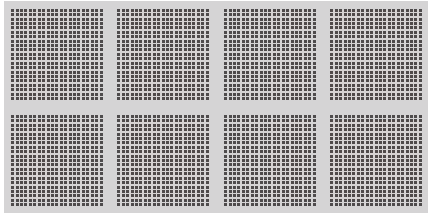
Block perforation 4F

Short / Long



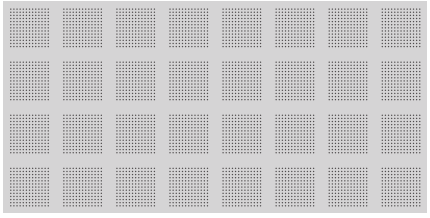
Example: 12/25Q

Block perforation 8F



Example: 12/25Q

Block perforation 32F



Example: 8/18R

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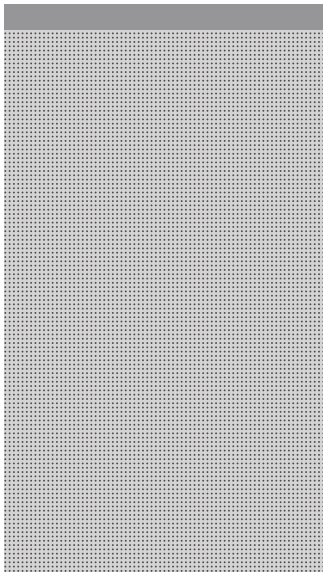
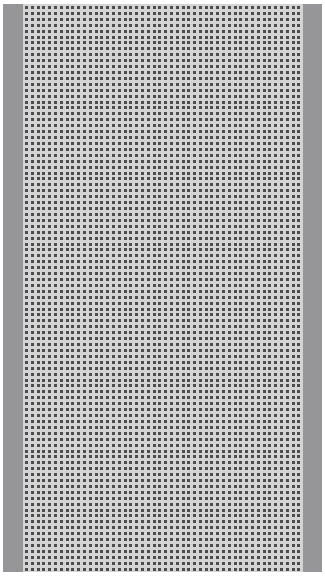
VoglFuge panels with non-perforated edges

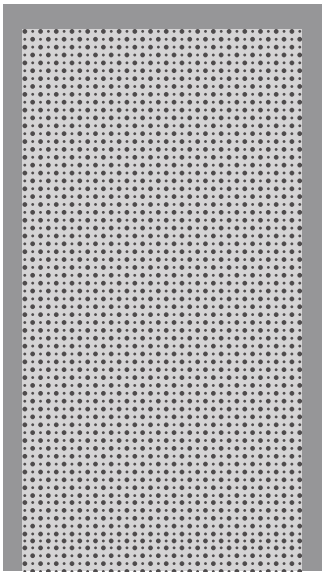
1 rim non-perforated



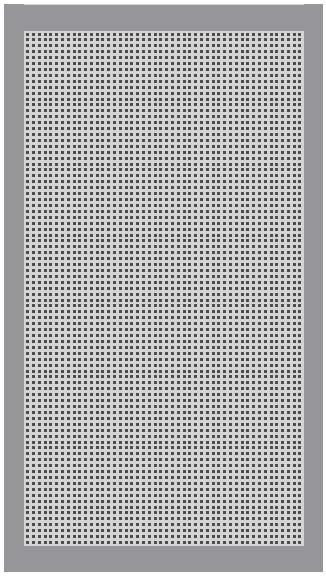
2 rims non-perforated



3 rims non-perforated

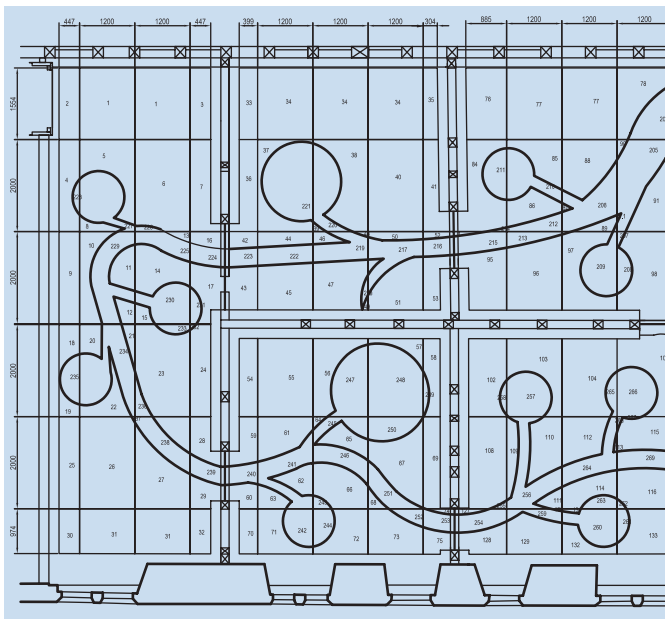


4 rims non-perforated



VoglFuge panels with moulded components attached

VoglFuge panels according to layout plan



You want a ceiling that features not only high acoustic performance, but also outstanding appearance?

We are glad to assist you! Our experts can adapt our acoustic design panels exactly to your desired ceiling surface.
When manufacturing ceiling systems to plan, we supply the custom-made and perfectly fitted acoustic design panels as well as a layout plan for use on the job site, thus ensuring reliable results for the installation. And of course, our moulded components, stretch ceilings and ceiling components can be perfectly integrated into your planned ceiling surface.

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 site requirements and EN 13964/ DIN 18181. 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. 100 mm). Joints should generally be staggered.

The plasterboards should be installed in accordance with EN 13964/ DIN 18181 and the manufacturer's guidelines.

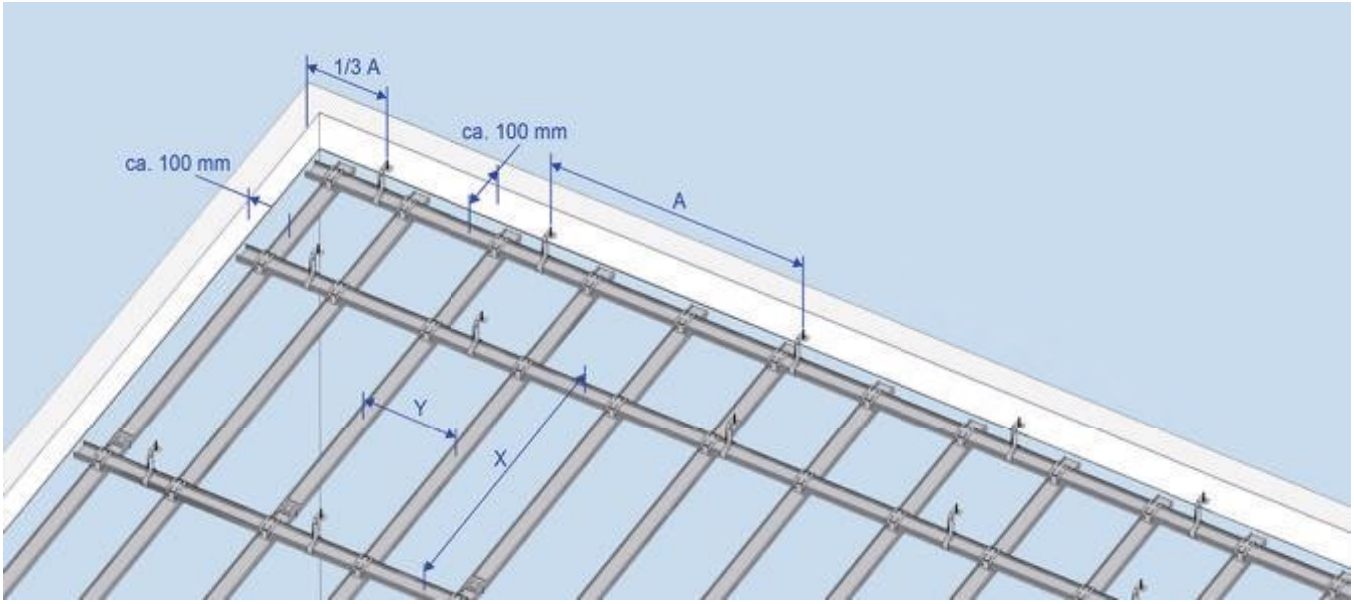
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

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

Block perforations and block slotting require different secondary profile centre distances which are shown in our tables on page 62.

VoglFuge framework								
Technical data	**Unit**	**Perforated panel ceiling**						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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



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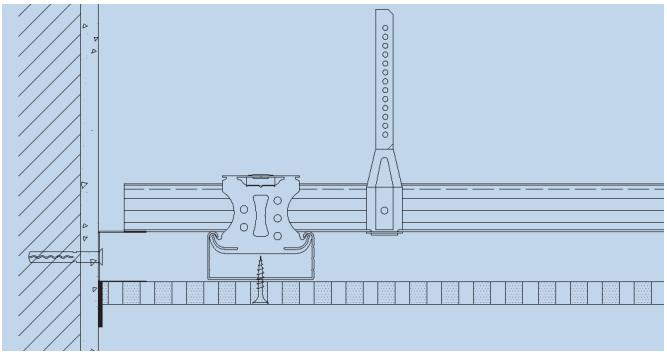
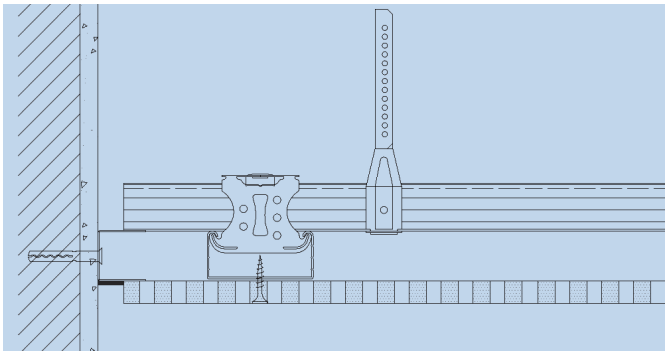


Wall connection with filled joint:

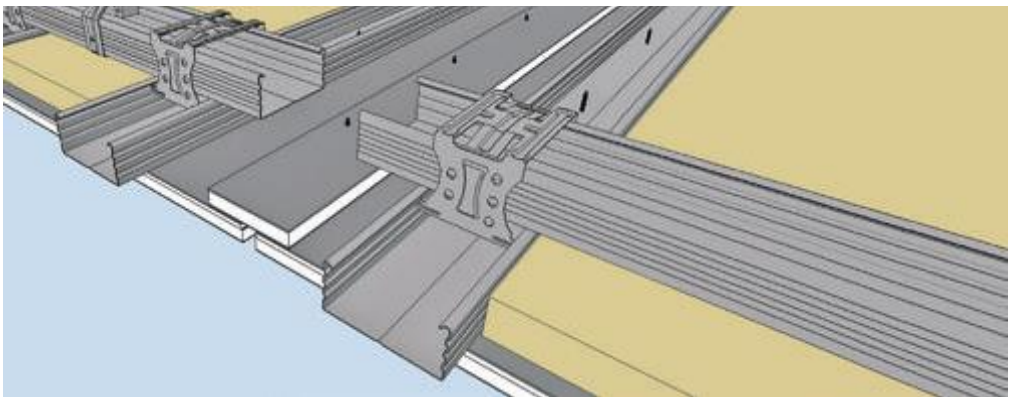
For filled wall connections, a double layer fleece strip is used to separate the acoustic ceiling from the wall.



Wall connection – shadow gap:

For wall connections with a shadow gap, the panel is only installed up to the UD profile as this may be covered with a strip of adhesive double layer fleece in order to colour the shadow gap.

Please contact us if you require additional technical details on possible wall connections.



Expansion joints:

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

The framework must be completely severed (see illustration) and the panel strips above the joint must be screwed down on one side only.

Tip: The panel strip may be covered with adhesive double layer fleece on the visible side if colouring the expansion joint in either black or white is desired.

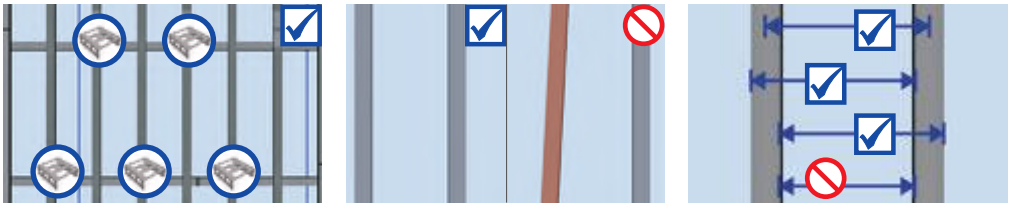
Material required per m² based on a ceiling of 100 m² (10 m x 10 m, without loss or waste)

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
10230000	UD profile 28/27/0.6, 3,000 mm	m	0.4
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22

VoglFuge – Installation of Ceiling Panels

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

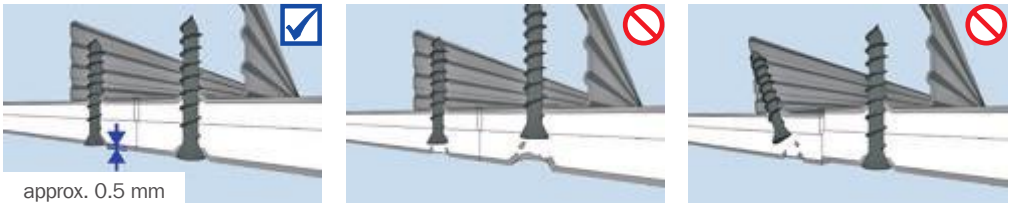
Correct handling of ceiling panels:

- 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

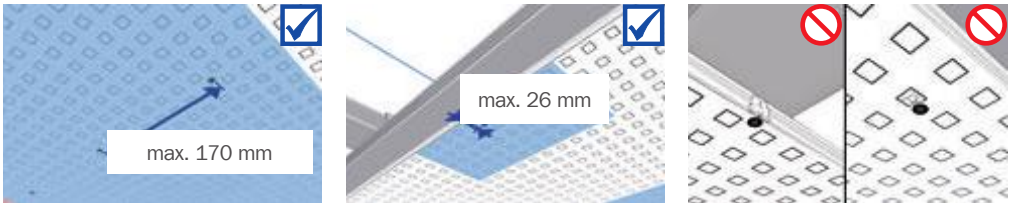
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

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

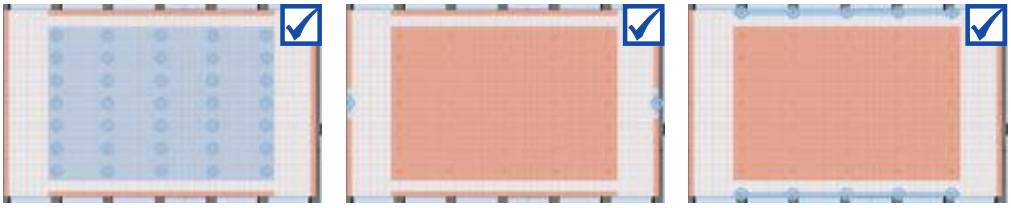
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



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.



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.



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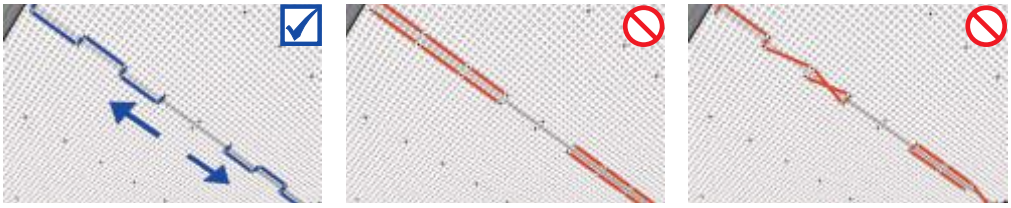
Take note of panel labelling (stamp) and mount in direction of reading (all stamps should point in same direction).

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:

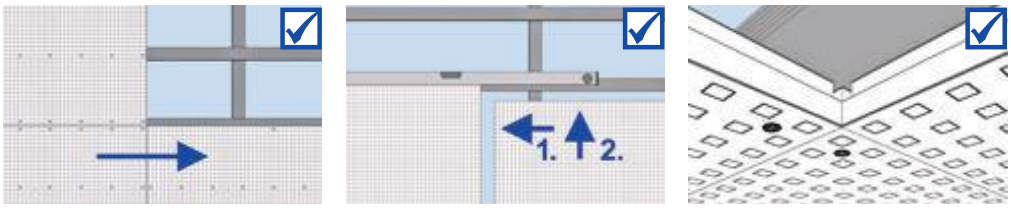
- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +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.

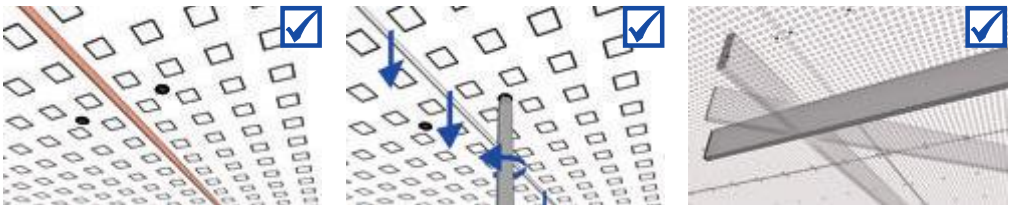


Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.

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

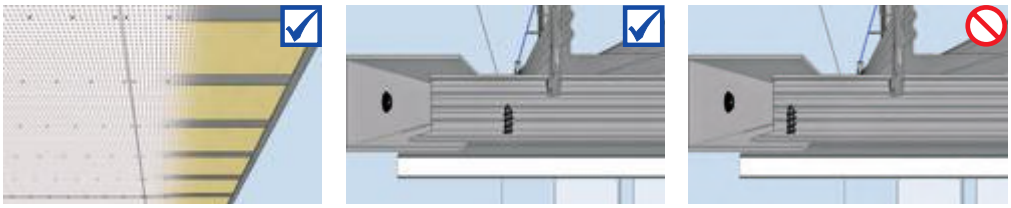


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.



Place any damping layer directly onto back of ceiling panels.

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

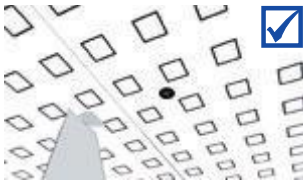


Provide for expansion joint of 5 to 10 mm every 10 linear metres / 100 m².

Additional board strip above joint must be screwed down on one side only.

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

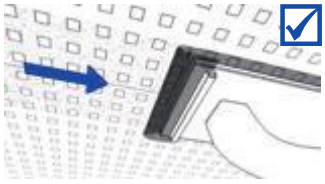
Check ceiling! Level out any height discrepancies in the panel joint areas using a screwdriver, if necessary repair any chips or damage to the plasterboard. Then spot fill screw heads in joint areas.

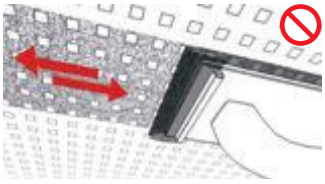


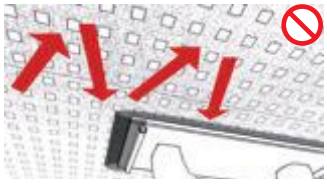
VoglFuge System Kit contents:

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

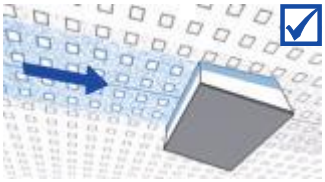
Use abrasive mesh to remove any protruding pieces of plasterboard in the joint area. Only sand in direction of joint.

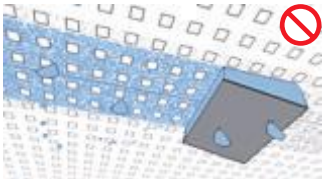






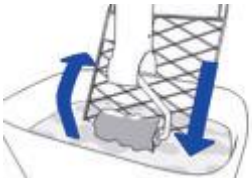
Slightly dampen joint area using a sponge, but avoid excessive wetting of acoustic design panels.





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

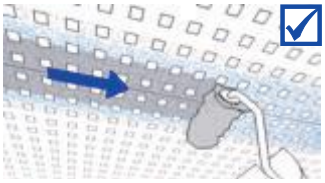
Vogl Liquid joint coating = ready mix



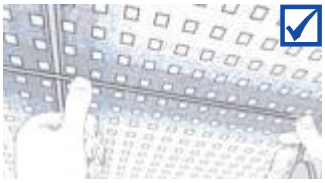
General site conditions / Manufacturer's instructions:

- 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
- Jointing strips must only be applied "edge-to-edge", i.e. no overlapping

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

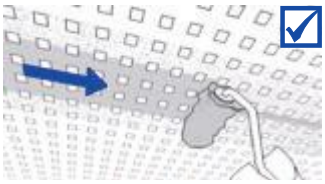


Fix strip with rubber side facing panel in middle of joint already wet with liquid coating. Using your left thumb press on the strip until the coating comes out from both sides of the strip, bringing your left thumb along the strip to meet your right thumb. Follow the same procedure for the next joint.



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.

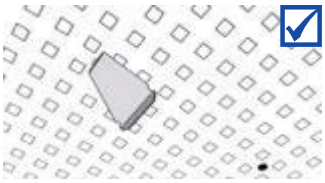
System's drying time: 12 h



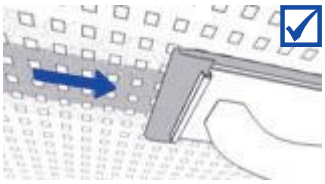
Surface treatment for painters (in accordance with ATV painting work DIN 18363):

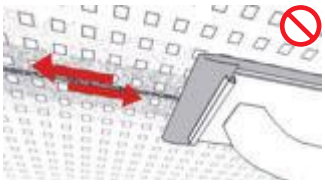
- Only apply coating by roller; spray application is not permitted!
- Prior to application of paint coat, a primer should generally be applied in accordance with manufacturer's specifications
- The manufacturer's recommended drying times for both primer and finishing coat must be strictly observed
- Alkaline coatings are unsuitable for plasterboards
- 3 coats of paint must be applied (1 prime coat + 2 finishing coats), and recommended drying times adhered to
- System manufacturer's technical data sheets for primers and finishing coats must be observed

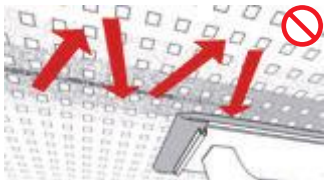
While joints are drying use time to fill remaining screw heads in panel centres using screw head and repair filler.



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!







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Acoustic Design Panels
(with air purification effect) – VoglFuge system

Suspended ceiling structure, one side clad with Vogl acoustic design panels backed with sound absorbing fleece, mounted to a rigid ceiling framework of galvanised metal profiles, hung with flush and horizontally aligned suspended brackets and installed using fixing materials approved by the building authorities, installation in accordance with manufacturer's instructions, including all connection and jointing work as well as connection and fixing materials.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 250/330/333 mm*

Covering:

Vogl acoustic design panels are perforated ceiling panels in accordance with EN 14190, with air purification effect, one layer 12.5 mm, laid edge-to-edge and fixed to the framework using perforated panel screws SN 30, with screw spacing max. 170 mm.

Perforation pattern / perforated area / mass per unit area:

- 6/18 round / 8.7 % / 9.1 kg/m²*
- 8/18 round / 15.5 % / 8.5 kg/m²*
- 10/23 round / 14.8 % / 8.5 kg/m²*
- 12/25 round / 18.1 % / 8.2 kg/m²*
- 15/30 round / 19.6 % / 8.0 kg/m²*
- 8/12/50 round / 13.1 % / 8.7 kg/m²*
- 12/20/66 round / 19.6 % / 8.0 kg/m²*
- 8/18 square / 19.8 % / 8.0 kg/m²*
- 12/25 square / 23.0 % / 7.7 kg/m²*
- 8/15/20 round / 9.5 % / 9.1 kg/m²*
- 12/20/35 round / 11.0 % / 8.9 kg/m²*

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Fleece backing:

Panels backed with sound absorbing fleece as:

- acoustic fleece, black*
- acoustic fleece, white*

Joint finishing / filling:

Fill screw heads using Vogl screw head and repair filler flush with surface. Carry out joint finishing using VoglFuge system in accordance with manufacturer's instructions.

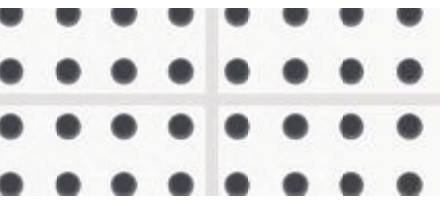
Subbase:

Suspension height:	h = mm
Installation height:	h = mm
Room height:	h = mm
Insulation thickness:	th = mm

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

Visible Chamfer



Visible Joints

Clean Lines

with air purification effect as a standard feature

Quick panel assembly without joint filling

Easy, quick, reliable

Large-sized acoustic ceilings can finally be implemented completely without any joint finishing operations. The Visible Chamfer system from Vogl Deckensysteme now provides an economic solution for the acoustic design of particularly crack-prone ceilings. But the applicability of the Visible Chamfer is not limited to crack-prone areas; it can also be used to deliberately create a grid design of the ceiling which can, for instance, be mirrored in the greater room geometry. Gymnasiums with their extra-high ceilings now also benefit from a quick and clean solution that works without any joint finishing operations.

Benefits of the Visible Chamfer system:

The circumferential Visible Chamfer (2 x 2 mm) of the acoustic design ceiling enables fast and cost-efficient installation without joint finishing:

- Quick mounting of panels – "edge-to-edge"
- Significant time savings
- No joint finishing necessary
- Maximum crack resistance due to virtually jointless design
- With standard air purification effect
- Ceilings ready for painting within shortest time

Framework

Ceiling panel

Finish

System-inherent reliability

Upon request, Vogl Deckensysteme will deliver all materials required to produce ceilings with finished surfaces. High-quality building materials from framework to finishing assure top results at the assembly site.

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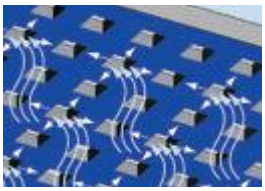
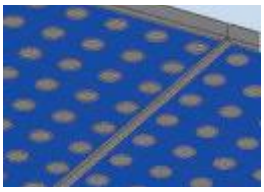




Vogl acoustic design panels of the Visible Chamfer system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).
Black or white acoustic fleece backing (other fleece colours on request), four-side as a Visible Chamfer for installation by means of the quickest and most reliable "edge-to-edge" installation principle.

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: Visible Chamfer 2 x 2 mm
Short edge: Visible Chamfer 2 x 2 mm

with air purification effect as a standard feature

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7101101110 7101101120	Acoustic Design Panel Visible Chamfer 6/18R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7101102110 7101102120	Acoustic Design Panel Visible Chamfer 8/18R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7101103110 7101103120	Acoustic Design Panel Visible Chamfer 10/23R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7101104110 7101104120	Acoustic Design Panel Visible Chamfer 12/25R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7101105110 7101105120	Acoustic Design Panel Visible Chamfer 15/30R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7101106110 7101106120	Acoustic Design Panel Visible Chamfer 8/12/50R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7101107110 7101107120	Acoustic Design Panel Visible Chamfer 12/20/66R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7101108110 7101108120	Acoustic Design Panel Visible Chamfer 8/18Q Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7101109110 7101109120	Acoustic Design Panel Visible Chamfer 12/25Q Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7101110110 7101110120	Acoustic Design Panel Visible Chamfer 8/15/20R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7101111110 7101111120	Acoustic Design Panel Visible Chamfer 12/20/35R Acoustic fleece, black Acoustic Design Panel Visible Chamfer 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

Primary profiles are rigidly hung from structural soffit with suspended brackets using fixing materials approved by the relevant building authorities. Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/ DIN 18181. CD 60/27 secondary profiles are attached to CD 60/27 primary profiles using cross connectors.

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

Plasterboards should be installed in accordance with EN 13964/ DIN 18181 and manufacturer's guidelines.

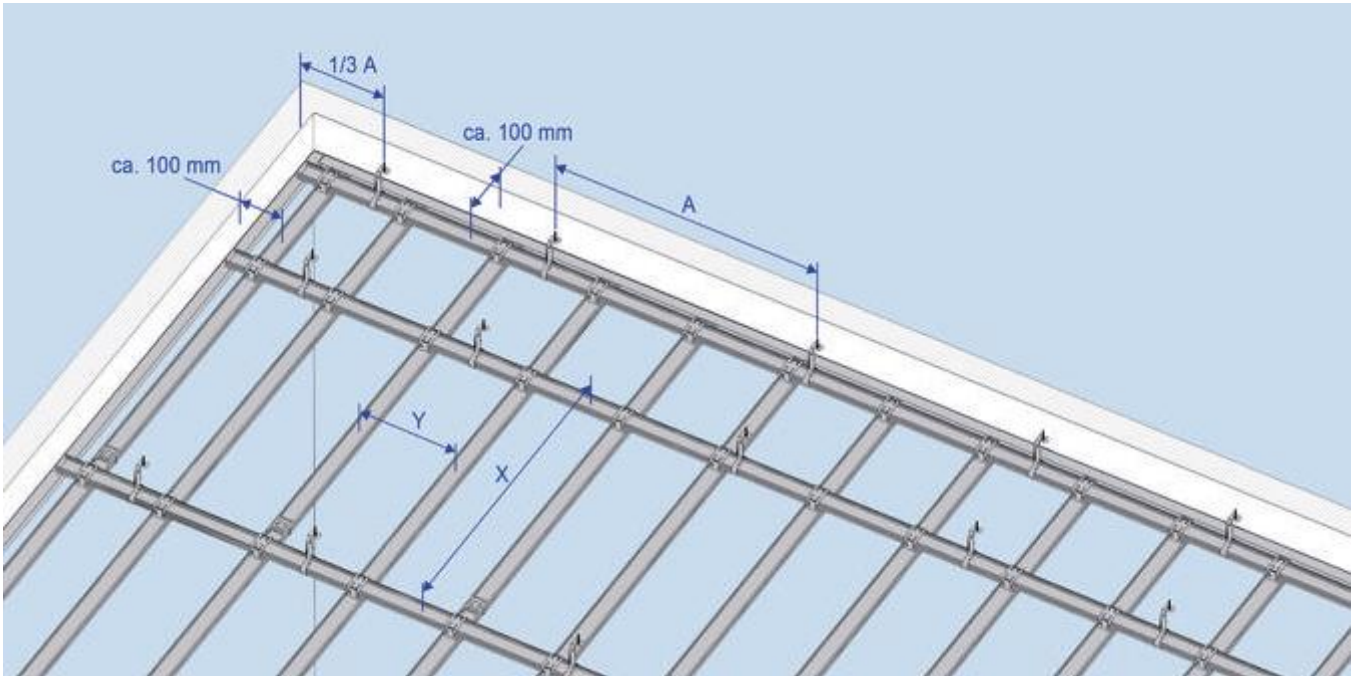
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

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

Block perforations and block slotting require different secondary profile centre distances which are shown in our tables.

Visible Chamfer framework								
Technical data	**Unit**	**Perforated panel ceiling**						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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



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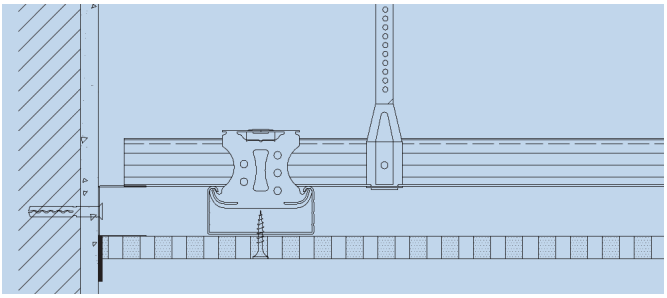
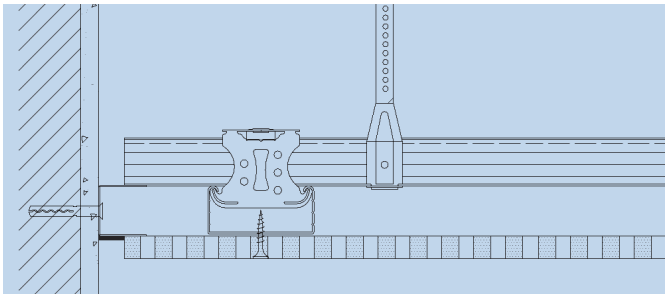


Wall connection – rigid:

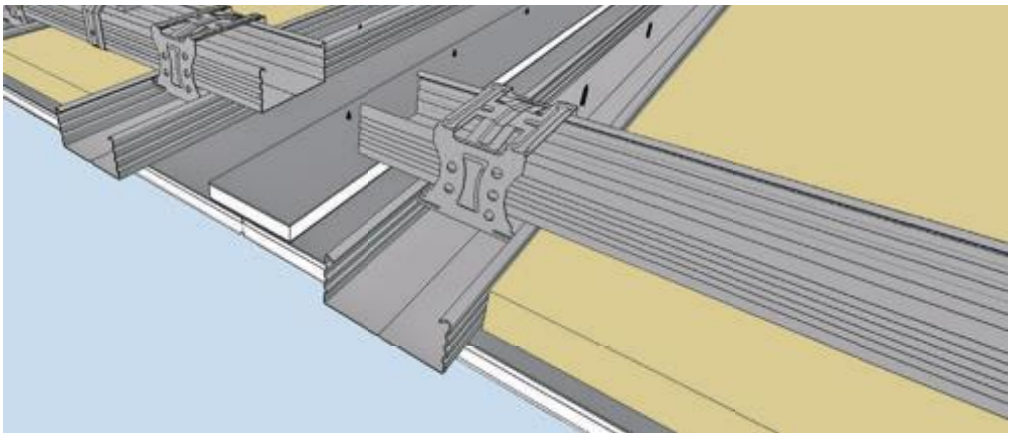
For rigid wall connections, a double layer fleece strip is used to separate acoustic ceiling from wall.



Wall connection – shadow gap:

For wall connections with a shadow gap, the panel is only installed up to the UD profile as this may be covered with a strip of adhesive double layer fleece in order to colour the shadow gap.

Please contact us if you require additional technical details on possible wall connections.



Expansion joints:

To prevent cracking in the ceiling surface, expansion joints have to be provided every 15 linear metres / 150 m² of the ceiling area.

The framework must be completely severed (see illustration) and the panel strips above the joint fixed to one side of the ceiling structure only.

Tip: The panel strip may be covered with adhesive double layer fleece on the visible side if colouring the expansion joint in either black or white is desired.

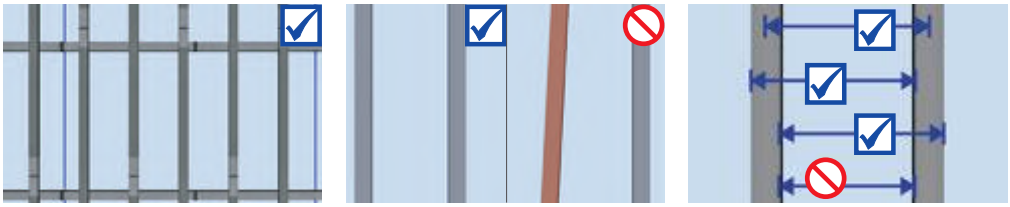
Material required per m² based on a ceiling of 100 m² (10 m x 10 m, not considering loss or waste, approximate values):

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
10230000	UD profile 28/27/0.6, 3,000 mm	m	0.4
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22

Visible Chamfer – Ceiling Panel Installation

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

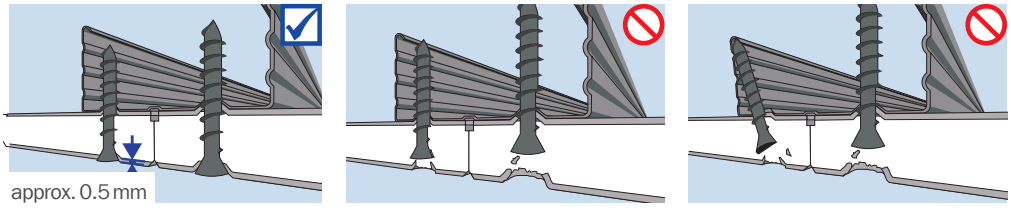
Correct handling of ceiling panels:

- 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

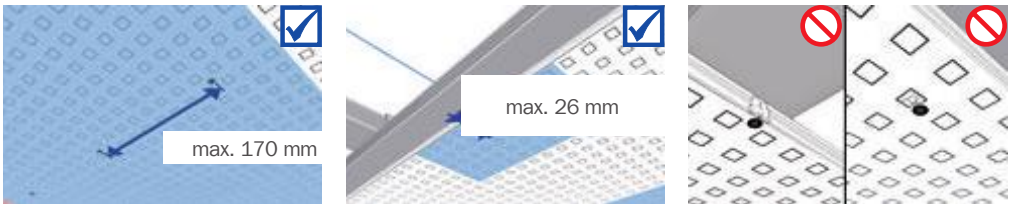
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

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

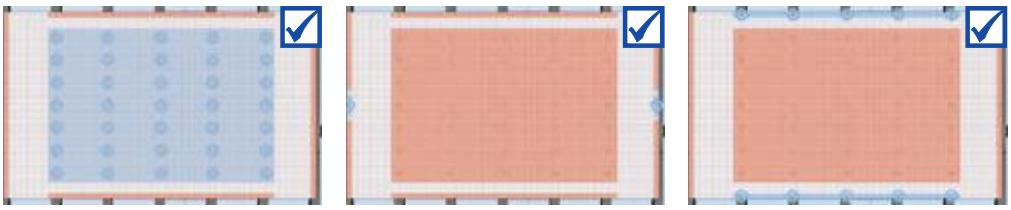
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



Screws should be spaced 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.



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Visible Chamfer – Ceiling Panel Installation

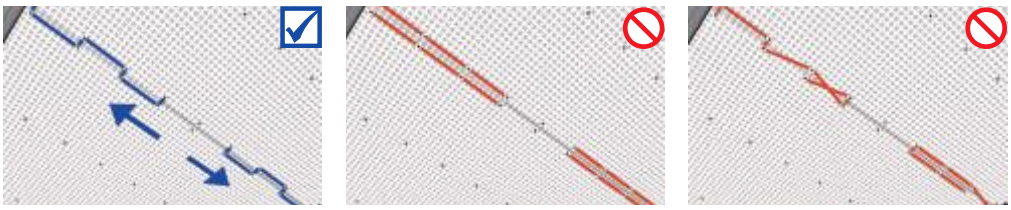
Take note of panel labelling (stamp) and mount in direction of reading (all stamps should point in same direction).

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:

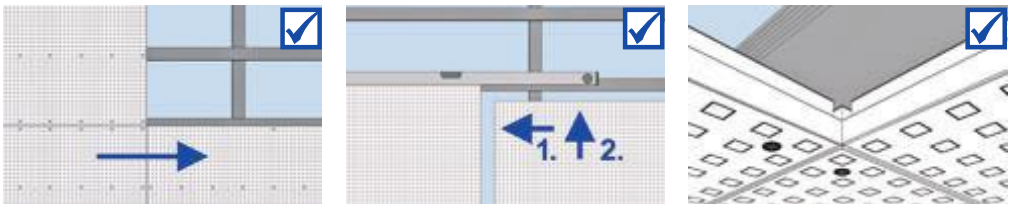
- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 15 m or approx. 150 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Place any damping (mineral wool layer) directly onto the ceiling panels
- After installing the ceiling panels, screw heads have to be filled and sanded

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.

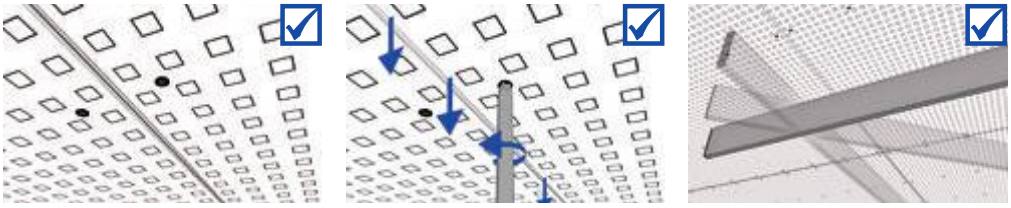


Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.

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

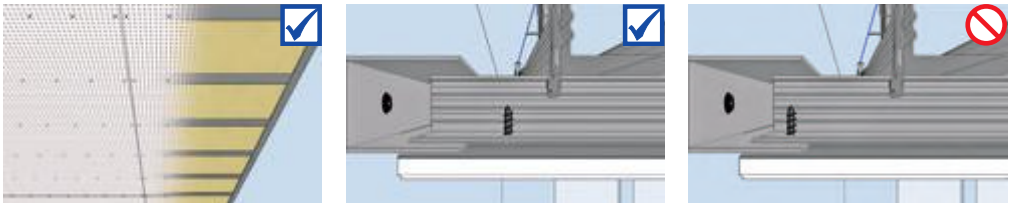


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.



Place any damping layer directly onto back of ceiling panels.

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



Provide for expansion joint of 5 to 10 mm every 15 linear metres / 150 m².

Additional board strip above joint must be screwed down on one side only.

Acoustic Design Panels
(with air purification effect) – Visible Chamfer system

Suspended ceiling structure, one side clad with Vogl acoustic design panels, backed with sound absorbing fleece, mounted to a rigid ceiling framework of galvanised metal profiles, hung with flush and horizontally aligned suspended brackets and installed using fixing materials approved by building authorities, with or without damping layer depending on building physics requirements. Installation in accordance with manufacturer's instructions, including all connection and jointing work as well as connection and fixing materials.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 330/333 mm*

Covering:

Acoustic design panels with Visible Chamfer are perforated ceiling panels in accordance with EN 14190, one layer 12.5 mm, laid edge-to-edge and fixed to framework using SN 30 perforated panel screws, with screw spacing max. 170 mm. Vogl acoustic design panels with Visible Chamfer are delivered with a circumferential 2 mm chamfer at panel edges which allows them to be laid "edge-to-edge" without joints. When installing panels, room layout has to be planned carefully since laying grid will be visible after finishing drywall construction due to Visible Chamfer.

Perforation pattern / perforated area / mass per unit area:

- 6/18 round / 8.7 % / 9.1 kg/m²*
- 8/18 round / 15.5 % / 8.5 kg/m²*
- 10/23 round / 14.8 % / 8.5 kg/m²*
- 12/25 round / 18.1 % / 8.2 kg/m²*
- 15/30 round / 19.6 % / 8.0 kg/m²*
- 8/12/50 round / 13.1 % / 8.7 kg/m²*
- 12/20/66 round / 19.6 % / 8.0 kg/m²*
- 8/18 square / 19.8 % / 8.0 kg/m²*
- 12/25 square / 23.0 % / 7.7 kg/m²*
- 8/15/20 round / 9.5 % / 9.1 kg/m²*
- 12/20/35 round / 11.0 % / 8.9 kg/m²*

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Fleece backing:

Panels backed with sound absorbing fleece as:

- acoustic fleece, black*
- acoustic fleece, white*

Joint finishing / filling:

Fill screw heads with joint compound flush with the surface and sand. The Visible Chamfer system does not require any additional joint finishing.

Subbase:

Suspension height:	h = mm
Installation height:	h = mm
Room height:	h = mm
Insulation thickness:	th = mm

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

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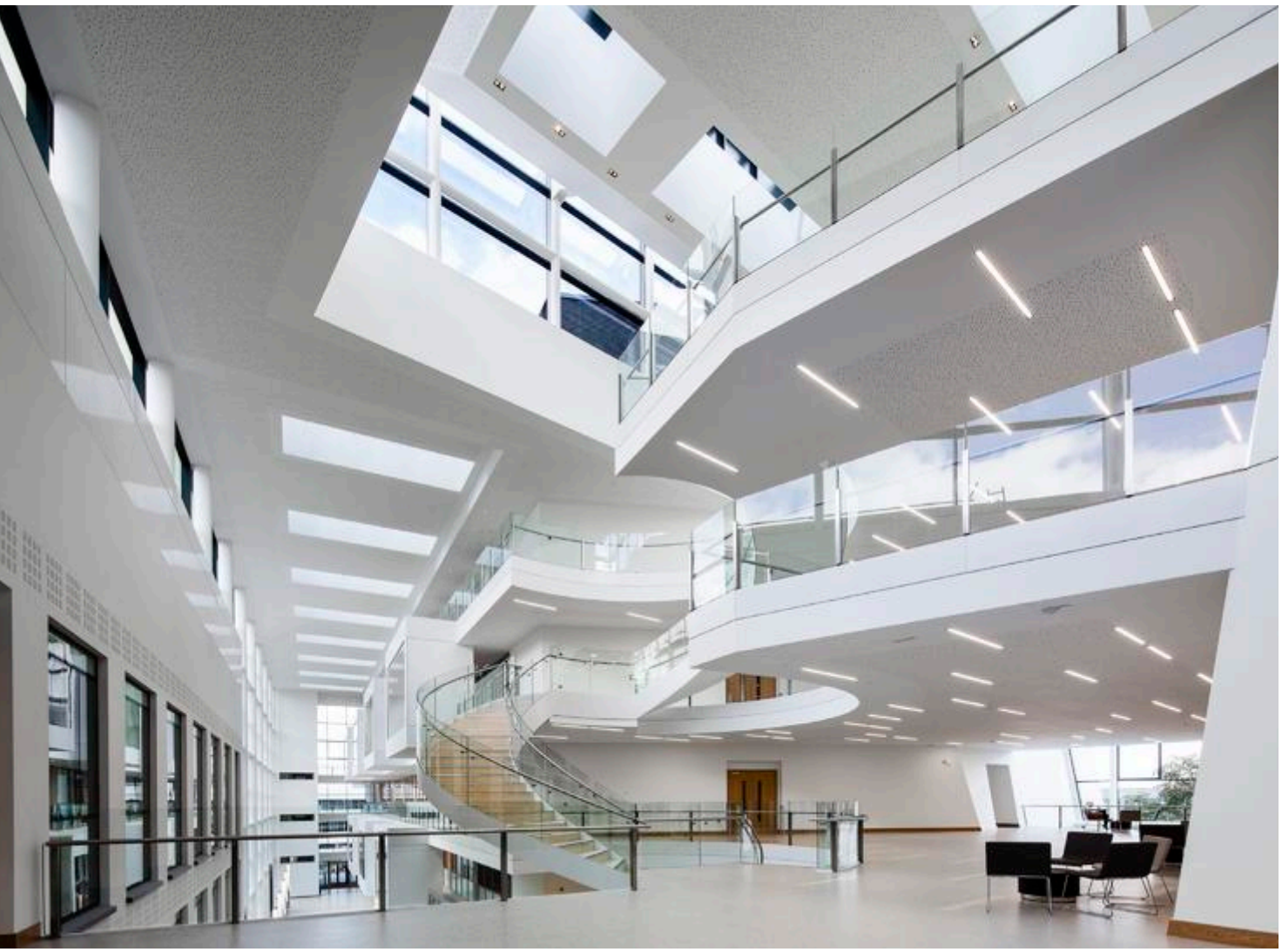
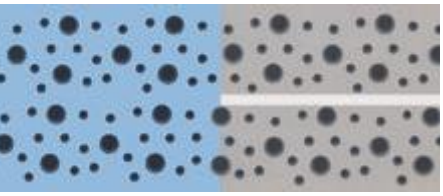
GSG4 Joint





The Evolution
in Compound Seam Technology

GreatSwiftGenius -
with **4** sturdy butt edges

with air purification effect as a standard feature

The Evolution
of the Compound Seam

For the installation of seamless acoustic ceilings, the compound seam has become established in the market with all its strengths and weaknesses.

Therefore, Vogl Deckensysteme decided that there is room for improvement.

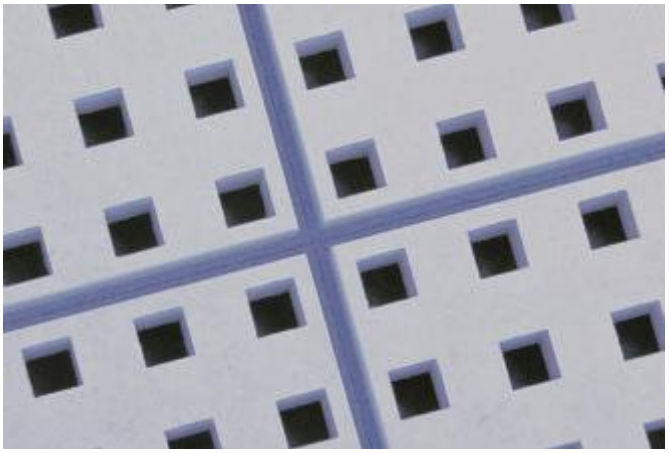
By means of high-precision panel production and newly defined accuracy, Vogl Deckensysteme has developed a quick compound seam for acoustic ceilings to meet market requirements.

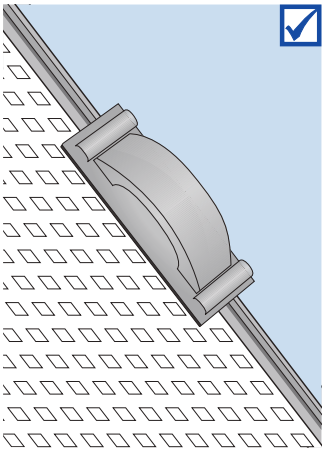
The result is impressive - the new GSG4 Joint.
From practical experience - for practical use!

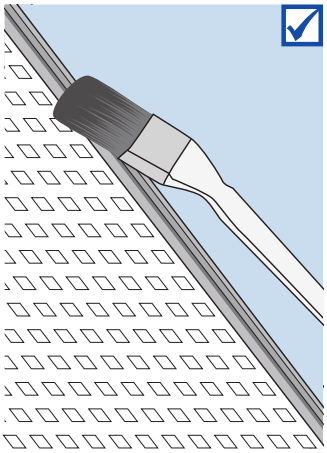
Advantages of the GSG4 Joint system:

Surrounding rebate of acoustic design panel allows quick installation and easy joint finishing:

- Less waste at borders due to 4-side edge design
- Factory primed edges - ready for finishing
- Sturdy butt edges without any weak points
- Finishing possible with all common fillers in compliance with manufacturer's instructions







To achieve an optimum of time saving on site, every labour-saving feature helps.

GSG4 edges are, therefore, factory-primed and cardboard edges slightly chamfered.

For quick and easy installation on site – a solution from practical experience for practical use!

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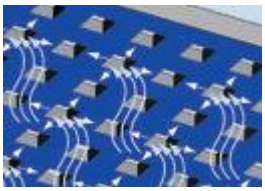
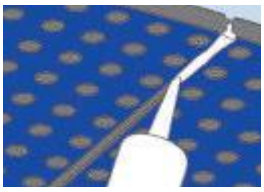




Vogl acoustic design panels of the GSG4 system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: GSG4 edge
Short edge: GSG4 edge

with air purification effect as a standard feature

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7081101110 7081101120	Acoustic Design Panel GSG4 6/18R Acoustic fleece, black Acoustic Design Panel GSG4 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7081102110 7081102120	Acoustic Design Panel GSG4 8/18R Acoustic fleece, black Acoustic Design Panel GSG4 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7081103110 7081103120	Acoustic Design Panel GSG4 10/23R Acoustic fleece, black Acoustic Design Panel GSG4 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7081104110 7081104120	Acoustic Design Panel GSG4 12/25R Acoustic fleece, black Acoustic Design Panel GSG4 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7081105110 7081105120	Acoustic Design Panel GSG4 15/30R Acoustic fleece, black Acoustic Design Panel GSG4 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7081106110 7081106120	Acoustic Design Panel GSG4 8/12/50R Acoustic fleece, black Acoustic Design Panel GSG4 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7081107110 7081107120	Acoustic Design Panel GSG4 12/20/66R Acoustic fleece, black Acoustic Design Panel GSG4 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7081108110 7081108120	Acoustic Design Panel GSG4 8/18Q Acoustic fleece, black Acoustic Design Panel GSG4 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7081109110 7081109120	Acoustic Design Panel GSG4 12/25Q Acoustic fleece, black Acoustic Design Panel GSG4 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7081110110 7081110120	Acoustic Design Panel GSG4 8/15/20R Acoustic fleece, black Acoustic Design Panel GSG4 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7081111110 7081111120	Acoustic Design Panel GSG4 12/20/35R Acoustic fleece, black Acoustic Design Panel GSG4 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

Block slotting										
Design	Slotting	Slots per "block"		Rim* (unslotted)		Slot area (panel)	Panel dimensions (standard size)		Centre distance (secondary profile)	Edges
		Short	Long	Short (mm)	Long (mm)	%	Width mm	Length mm	mm	
4F	5/82/15.4SL	69	4	73.9	73.3	15.7	1,200	2,400	300	GSG4
8F	5/82/15.4SL	30	4	73.9	73.3	13.7	1,200	2,400	300	GSG4
8/16F	5/82/15.4SL	4 x 6	4	73.9	73.3	10.9	1,200	2,400	300	GSG4

*Edge dimensions refer to visible rim

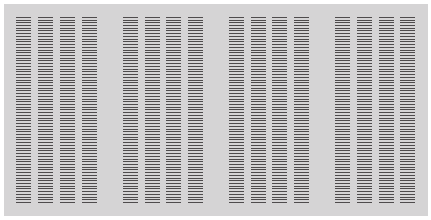
Block perforation										
Design	Perforation	Holes per “block”		Rim* (non-perforated)		Perforated area (panel)	Panel dimensions (standard size)		Centre distance (secondary profile)	Edges
		Short	Long	Short (mm)	Long (mm)	%	Width mm	Length mm	mm	
4F	8/18R	64	30	41	41	12.9	1,224	2,448	312.5	GSG4
	12/25R	45	21	44	44	14.9	1,200	2,400	300	GSG4
	12/25Q	45	21	44	44	18.9	1,200	2,400	300	GSG4
8F	8/18R	30	30	41	41	12.1	1,224	2,448	312.5	GSG4
	12/25R	21	21	44	44	13.9	1,200	2,400	300	GSG4
	12/25Q	21	21	44	44	17.7	1,200	2,400	300	GSG4
32F	8/18R	13	13	41	41	9.1	1,224	2,448	312.5	GSG4
	12/25R	9	9	44	44	10.2	1,200	2,400	300	GSG4
	12/25Q	9	9	44	44	13.0	1,200	2,400	300	GSG4

*Edge dimensions refer to visible rim

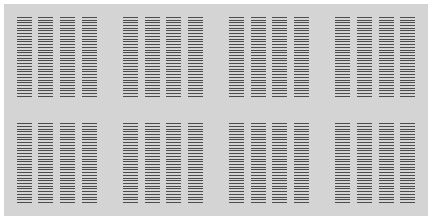
Diagrams represent visible side

Block slotting 4F

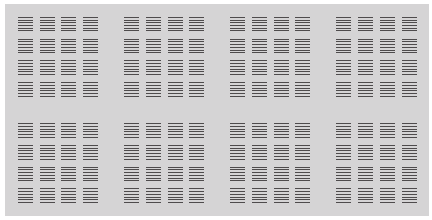
Short / Long



Block slotting 8F



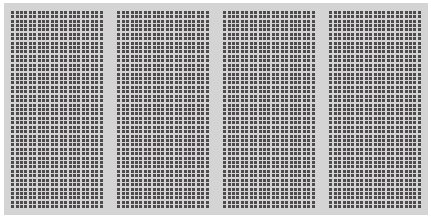
Block slotting 8/16F



Slot only possible in longitudinal direction of the ceiling panels.

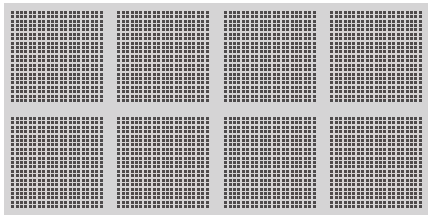
Block perforation 4F

Short / Long



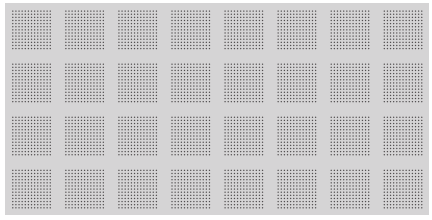
Example: 12/25Q

Block perforation 8F



Example: 12/25Q

Block perforation 32F



Example: 8/18R

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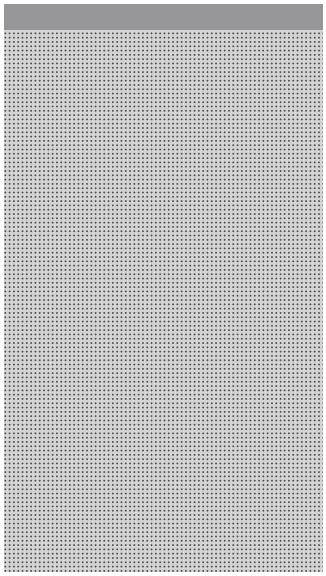
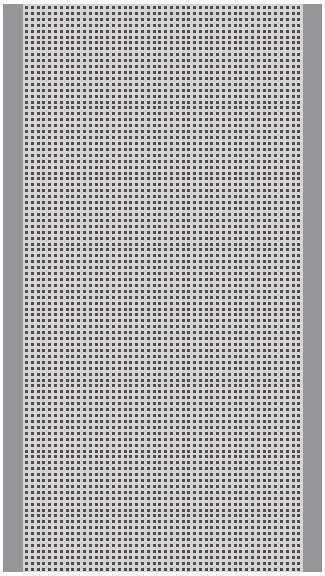
Acoustic design panels with non-perforated rims

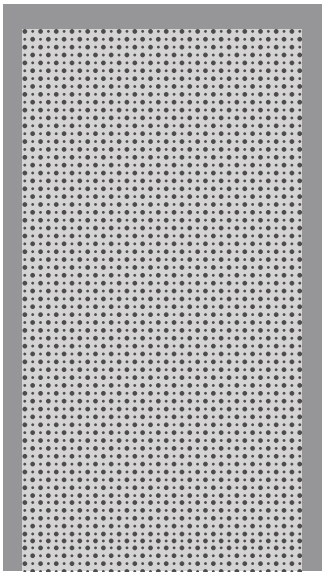
1 rim non-perforated



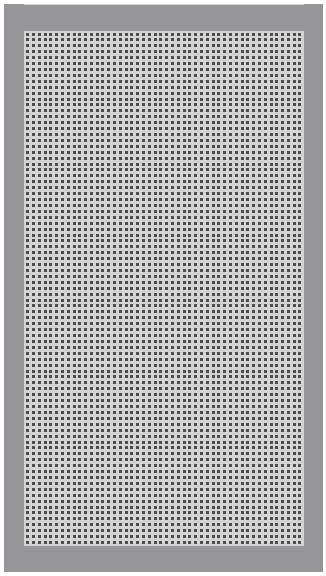
2 rims non-perforated



3 rims non-perforated

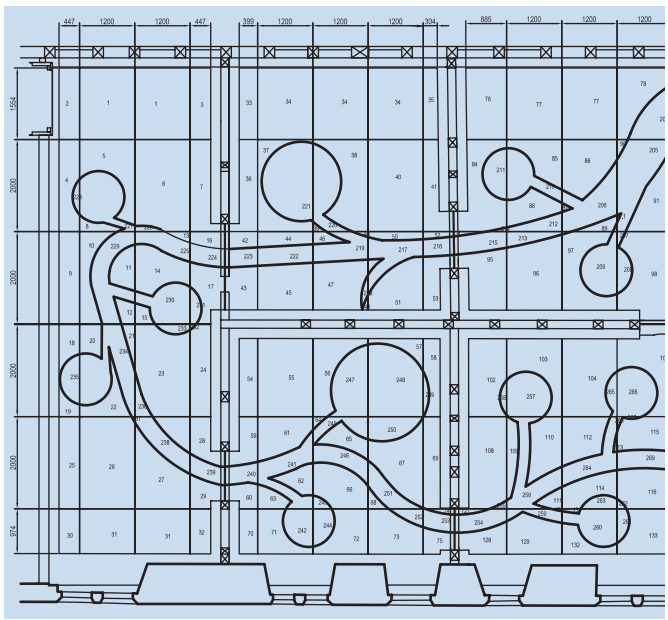


4 rims non-perforated



Acoustic design panels with moulded components attached

Acoustic design panels in a layout plan



You want a ceiling that features not only high acoustic performance, but also outstanding appearance?

We are glad to assist you! Our experts can adapt our acoustic design panels exactly to your desired ceiling surface.
When manufacturing ceiling systems to plan, we supply the custom-made and perfectly fitted acoustic design panels as well as a layout plan for use on the job site, thus ensuring reliable results for the installation. And of course, our moulded components, stretch ceilings and ceiling components can be perfectly integrated into your planned ceiling surface.

Primary profiles are hung from structural soffit with suspended brackets using fixing materials approved by relevant building authorities. Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/DIN 18181. CD 60/27 secondary profiles are attached to CD 60/27 primary profiles using cross connectors.

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

Plasterboards should be installed in accordance with EN 13964/ DIN 18181 and manufacturer's guidelines.

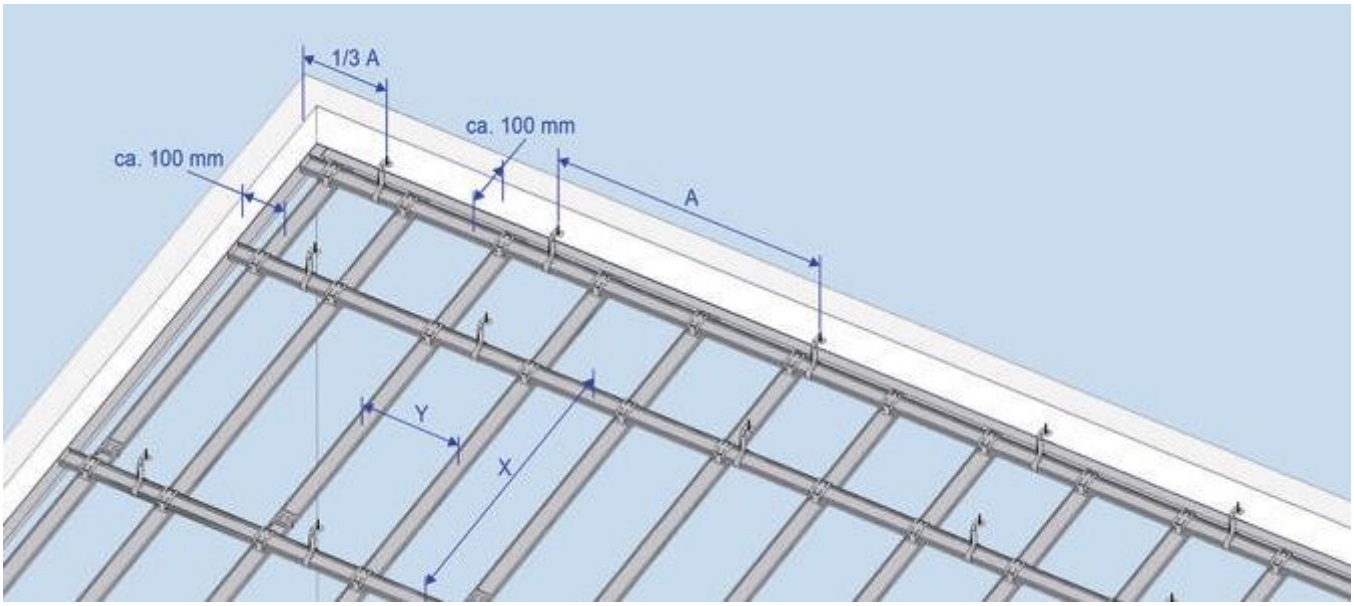
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

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

Block perforations and block slotting require different secondary profile centre distances which are shown in our tables on page 82.

GSG4 Joint framework								
Technical data	Unit	Perforated panel ceiling						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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



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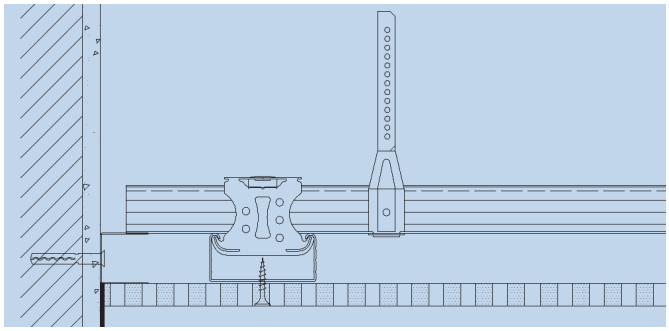
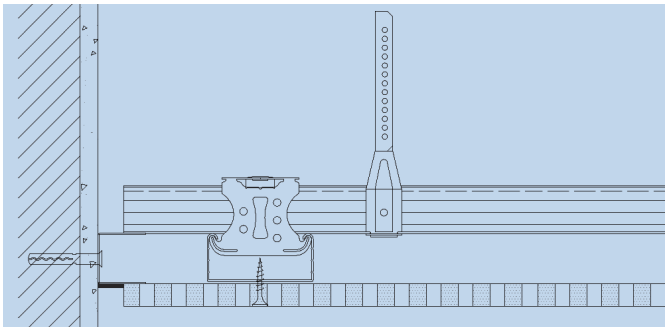


Wall connection with filled joint:

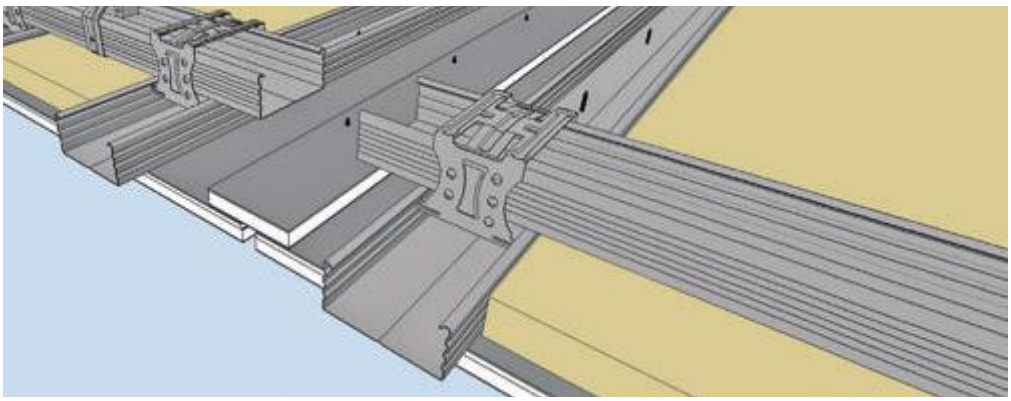
For filled wall connections, a double layer fleece strip is used to separate acoustic ceiling from wall.



Wall connection – shadow gap:

For wall connections with a shadow gap, panel is placed and mounted such that desired width of shadow gap is left free. Screwing panel to UD profile is not permitted as this may be covered with a strip of adhesive double layer fleece in order to colour shadow gap.

Please contact us if you require additional technical details on possible wall connections.



Expansion joints:

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

Framework must be completely severed (see illustration) and panel strips above joint must be screwed down on one side only.

Tip: Panel strip may be covered with adhesive double layer fleece on visible side if colouring expansion joint in either black or white is desired.

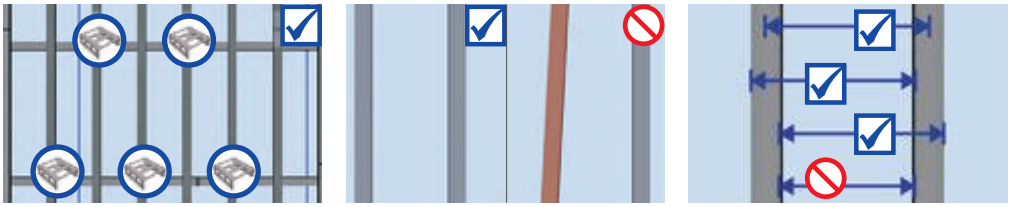
Material required per m² based on a ceiling of 100 m² (10 m x 10 m, without loss or waste)

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
10230000	UD profile 28/27/0.6, 3,000 mm	piece	0.4
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22
Joint Compound			
Standard	Joint Compound	kg	0.15

GSG4 Joint – Ceiling Panel Installation

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

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

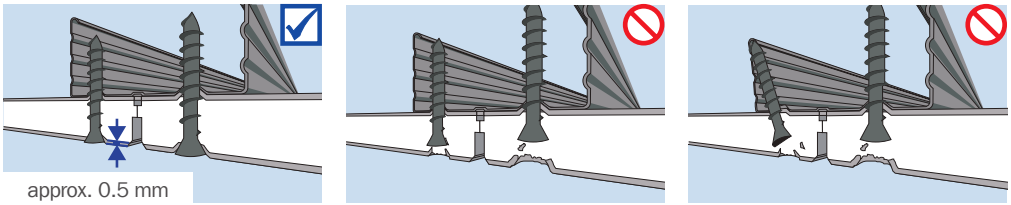
Correct handling of ceiling panels:

- 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

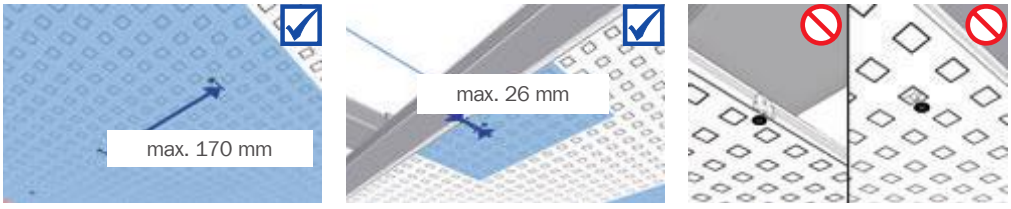
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

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

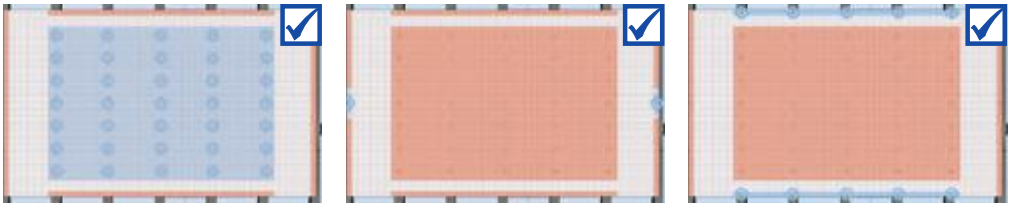
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



Screws should be spaced 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.



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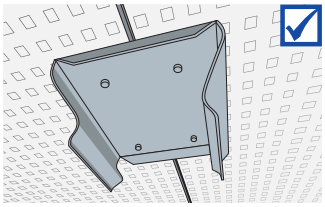
GSG4 Joint – Ceiling Panel Installation

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

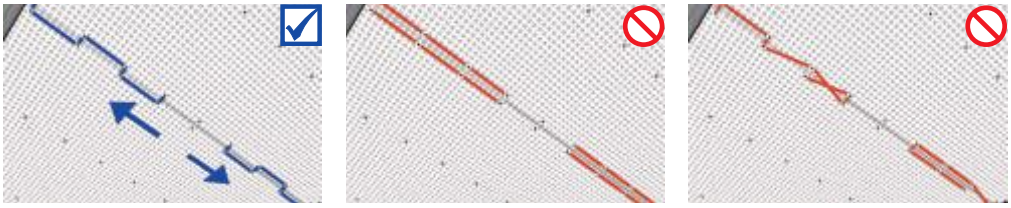
Install next ceiling panel edge-to-edge next to first panel.
Use mounting aids **only in case of damaged butt edges** to keep proper joint size.



General site conditions / Manufacturer's instructions:

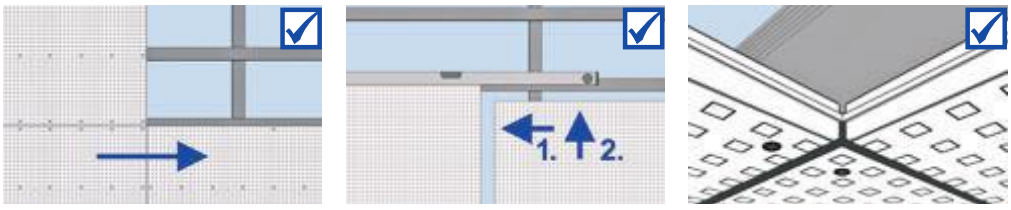
- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +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.

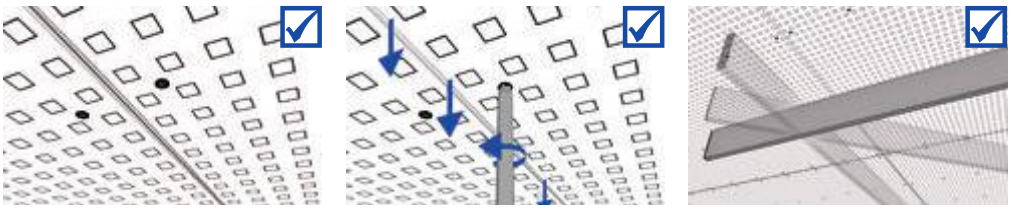


Install ceiling panels first length-ways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.

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

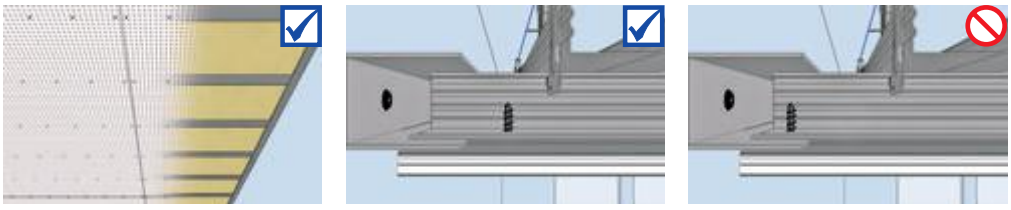


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.



Place any damping layer directly onto back of ceiling panels.

Never screw into UD28 profile when mounting panels at ceiling perimeter; sliding wall connections are also always required.



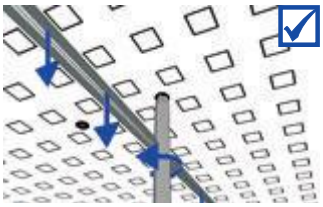
Provide for expansion joint of 5 to 10 mm every 10 linear metres / 100 m².

Additional board strip above joint must be screwed down on one side only.

GSG4 Joint – Joint Finishing

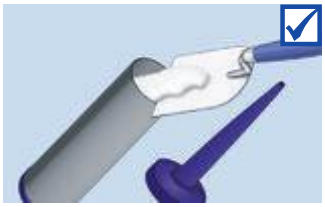
Important! All work that could result in damage to ceiling surface must be completed before commencing jointing.

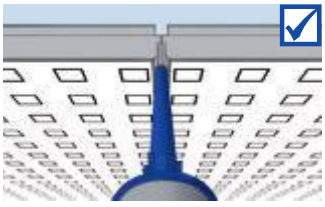
Check ceiling, adjust any height discrepancies in joint area with a screw driver.

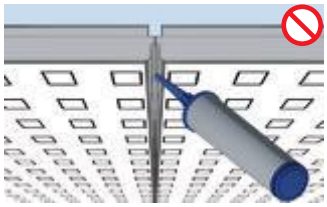


Mix joint compound in a clean pail according to manufacturer's instructions.

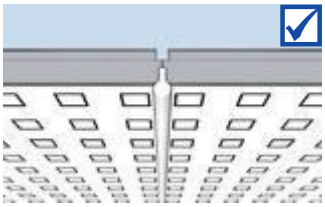
Load cartridge and fill joints generously holding cartridge as upright as possible to ensure complete filling of GSG4 Joint.

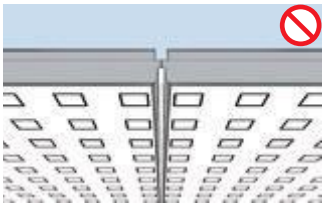




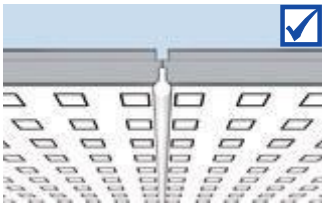


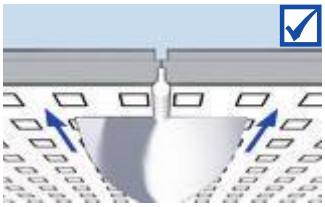
To achieve high GSG4 Joint strength, take greatest care to fill joint completely and use sufficient joint compound material.

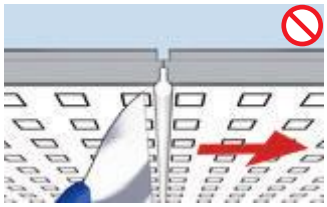




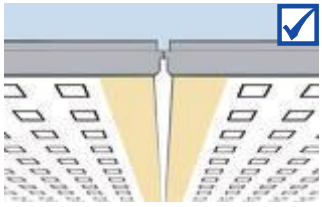
After joint compound has started to cure, and before it has hardened completely, remove any protruding material working in direction of joint.





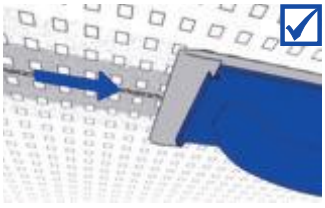


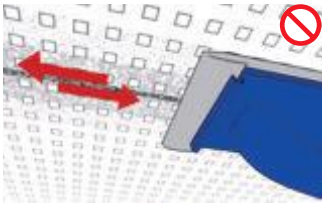
Then refill joints and screw heads with joint or finishing material, having covered perforation adjacent to joint with masking tape beforehand.

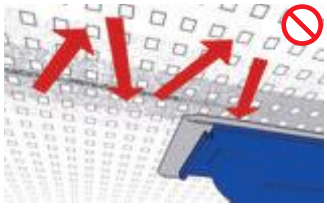


Any holes closed with joint compound can be re-opened using a perforation wheel.

After joint compound has completely cured, use a handheld sander to smooth the area.







General site conditions / Manufacturer's instructions:

- 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 %
- Self-levelling, cement or asphalt screeds must be fully dried – make sure there is no residual moisture
- Use joint compound as per EN 13963
- Consumption of joint compound: Approx. 150 g/m²

Surface treatment for painters (in accordance with ATV painting work DIN 18363)

- Only apply coating by roller; spray application is not permitted!
- Prior to application of paint coat, a primer should generally be applied in accordance with manufacturer's specifications
- Manufacturer's recommended drying times for both primer and finishing coat must be strictly observed
- Alkaline coatings are unsuitable for plasterboards
- 3 coats of paint must be applied (1 prime coat + 2 finishing coats), and recommended drying times adhered to
- Always consult system manufacturer's technical data sheets for primers and finishing coats

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Acoustic Design Panels
(with air purification effect) – GSG4 Joint system

Suspended ceiling structure, clad with Vogl acoustic design panels backed with sound absorbing fleece, mounted on a rigid ceiling framework of galvanised metal profiles, hung with horizontally and vertically aligned suspended brackets and installed using materials and fixtures approved by the relevant building authorities, with or without damping layer depending on structural requirements.

Installation in accordance with manufacturer's instructions, incl. all connection and jointing work as well as connection and fixing materials.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 330/333 mm*

Covering:

Vogl acoustic design panels are perforated ceiling panels in accordance with EN 14190, with air purification effect, one layer 12.5 mm, laid edge-to-edge and fixed to framework using perforated panel screws SN 30, with screw spacing max. 170 mm.

Check spacing of acoustic design panels and joint sizes using appropriate mounting aids, if required.

Perforation pattern / perforated area / mass per unit area:

- 6/18 round / 8.7 % / 9.1 kg/m²*
- 8/18 round / 15.5 % / 8.5 kg/m²*
- 10/23 round / 14.8 % / 8.5 kg/m²*
- 12/25 round / 18.1 % / 8.2 kg/m²*
- 15/30 round / 19.6 % / 8.0 kg/m²*
- 8/12/50 round / 13.1 % / 8.7 kg/m²*
- 12/20/66 round / 19.6 % / 8.0 kg/m²*
- 8/18 square / 19.8 % / 8.0 kg/m²*
- 12/25 square / 23.0 % / 7.7 kg/m²*
- 8/15/20 round / 9.5 % / 9.1 kg/m²*
- 12/20/35 round / 11.0 % / 8.9 kg/m²*

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Fleece backing:

Panels backed with sound absorbing fleece as:

- acoustic fleece, black*
- acoustic fleece, white*

Joint finishing / filling:

Fill screw heads with joint compound flush with surface and sand. Use joint compound as per EN 13963 to finish joints in accordance with manufacturer's instructions. Acoustic design panel edges in the GSG4 Joint system are factory primed and chamfered.

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

System Training

Our know-how for your result reliability

Topic:

Framework for acoustic design ceilings (“perforated ceilings”)

Description

A framework properly mounted to the ceiling forms the basis for a safe, flawless acoustic design ceiling that meets the regulations. In addition to theoretical fundamentals, our system training offers mainly practical guidelines for the installation work on site. Another topic of the Vogl System Training, beside suspension and connection with various components, is how to solve problems (expansion joints, integrated ceiling elements and wall connections).

Topics

- Installation of framework while heeding the applicable standards
- Various suspension systems and framework parts in theory and practice
- Distribution of the framework within the room
- Time and cost benefits when using Vogl framework
- Overview of the "problem solvers" in the ceiling area and their application
- Proper cutting of various profile systems
- Proper alignment of the framework by means of laser systems
- How to provide trimmers in the framework, e.g. for integrated ceiling components
- Expansion joints in the ceiling area / regulations and recommendations
- Various wall connections and their proper installation

Targets

After completion of the seminar, the system training participants shall

- understand and be able to apply current standards and regulations
- recognise and avoid typical installation errors
- use the right components when incurring problems in the ceiling installation

Target group

This system training is equally suited for site and project managers as well as for drywall installers and interior construction workers. Also, technically adept employees in sales or from the building material dealers' can extend their knowledge about the proper installation of ceiling structures.

A registration form is available on page 191. You have any questions in advance? We are glad to assist you! Phone: +49 9104 825-100

Registration is possible by e-mailing info@vogl-ceilingsystems.com directly or by fax to +49 9104 825-280.
You can also find all information on training under www.vogl-ceilingsystems.com

Compound Seam

Traditional Technology
for Filled Joints

with air purification effect as a standard feature

Compound Seam by Vogl Deckensysteme –
manufactured with maximum precision

Traditional Technology - the Compound Seam

In addition to the patented VoglFuge joint system, Vogl Deckensysteme also offers the classical and most commonly used Compound Seam in its product line. It is available in numerous perforation patterns and design variations and is naturally manufactured with maximum precision at Vogl Deckensysteme.

Other than the systems with edge-to-edge installation technique, this joint variation is laid with space between the panels by using mounting aids and filled afterwards with joint compound. If done properly, the joint possesses a very high degree of rigidity after curing.

Advantages of the Compound Seam:

- Proven joint technology can be performed by any drywall installer without any additional training
- Due to the high quality of Vogl acoustic design panels, you get, with proper workmanship, a flawless end result
- With standard air purification effect
- Finishing possible with all common fillers in compliance with manufacturer's instructions

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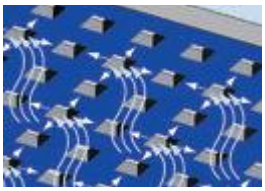
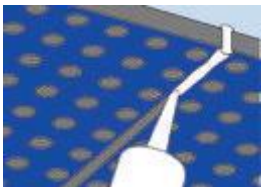




Vogl acoustic design panels of the Compound Seam system are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

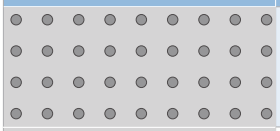
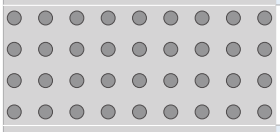
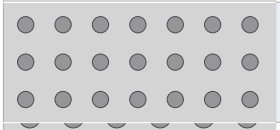
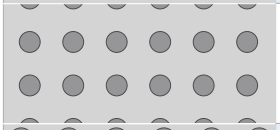
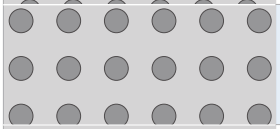
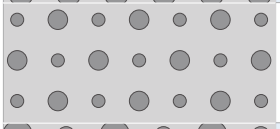
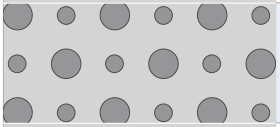
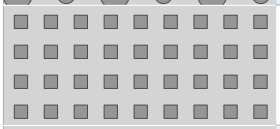
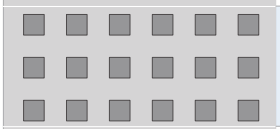
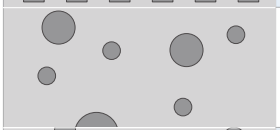
Black or white acoustic fleece backing (other fleece colours on request).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

tested for contaminants LGA

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7071101110 7071101120	Acoustic Design Panel SF 6/18R Acoustic fleece, black Acoustic Design Panel SF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m²	59.3 m² 25 pieces
	7071102110 7071102120	Acoustic Design Panel SF 8/18R Acoustic fleece, black Acoustic Design Panel SF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m²	59.3 m² 25 pieces
	7071103110 7071103120	Acoustic Design Panel SF 10/23R Acoustic fleece, black Acoustic Design Panel SF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7071104110 7071104120	Acoustic Design Panel SF 12/25R Acoustic fleece, black Acoustic Design Panel SF 12/25R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m²	60.0 m² 25 pieces
	7071105110 7071105120	Acoustic Design Panel SF 15/30R Acoustic fleece, black Acoustic Design Panel SF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	59.4 m² 25 pieces
	7071106110 7071106120	Acoustic Design Panel SF 8/12/50R Acoustic fleece, black Acoustic Design Panel SF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m²	60.0 m² 25 pieces
	7071107110 7071107120	Acoustic Design Panel SF 12/20/66R Acoustic fleece, black Acoustic Design Panel SF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m²	58.8 m² 25 pieces
	7071108110 7071108120	Acoustic Design Panel SF 8/18Q Acoustic fleece, black Acoustic Design Panel SF 8/18Q Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m²	59.3 m² 25 pieces
	7071109110 7071109120	Acoustic Design Panel SF 12/25Q Acoustic fleece, black Acoustic Design Panel SF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m²	60.0 m² 25 pieces
	7071110110 7071110120	Acoustic Design Panel SF 8/15/20R Acoustic fleece, black Acoustic Design Panel SF 8/15/20R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m²	60.0 m² * 25 pieces
	7071111110 7071111120	Acoustic Design Panel SF 12/20/35R Acoustic fleece, black Acoustic Design Panel SF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m²	60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

The primary profiles are rigidly hung from the structural soffit with suspended brackets using fixing materials approved by the relevant building authorities.
Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/DIN 18181. 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. 100 mm). Joints should generally be staggered.

Plasterboards should be installed in accordance with EN 13964/DIN 18181 and manufacturer's guidelines.

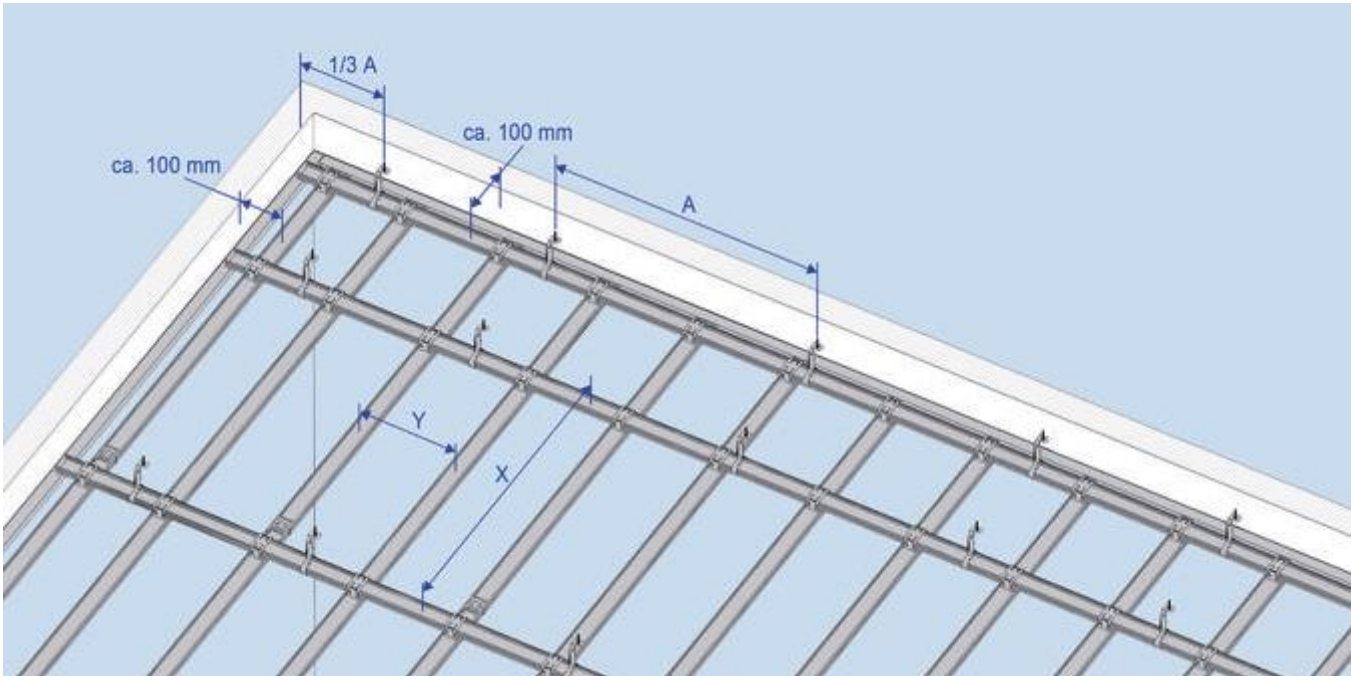
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

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

Block perforations and block slotting require different secondary profile centre distances which are shown in our tables.

Compound Seam framework								
Technical data	Unit	Perforated panel ceiling						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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



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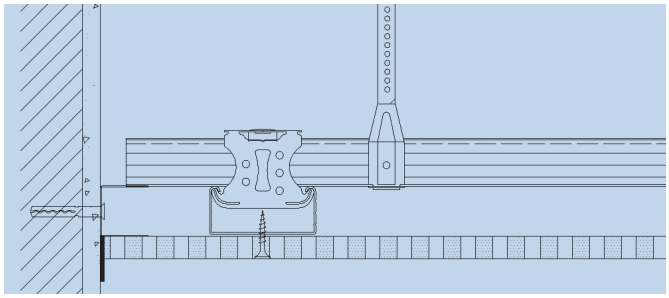
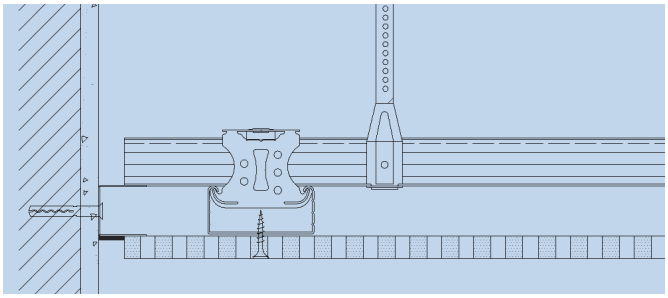


Wall connection:

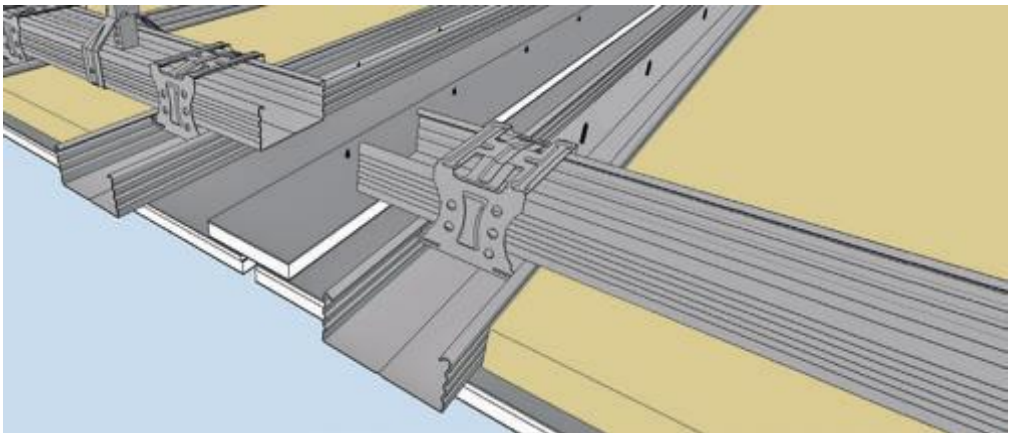
For filled wall connections, or wall connections filled from below, a double layer fleece strip is used to separate the acoustic ceiling from the wall.



Wall connection – shadow gap:

For wall connections with a shadow gap, the panel is only installed up to the UD profile as this may be covered with a strip of adhesive double layer fleece in order to colour shadow gap.

Please contact us if you require additional technical details on possible wall connections.



Expansion joints:

To prevent cracking in the ceiling surface, expansion joints have to be provided every 10 linear metres / 100 m² of the ceiling area.

The framework must be completely severed (see illustration) and the panel strips above the joint fixed to one side of the ceiling structure only.

Tip: Panel strip may be covered with adhesive double layer fleece on visible side if colouring expansion joint in either black or white is desired.

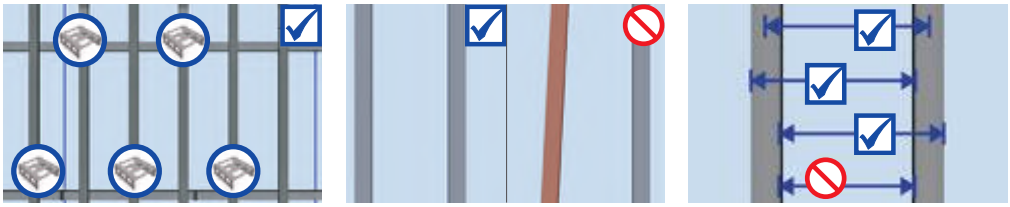
Material required per m² based on a ceiling of 100 m² (10 m x 10 m, not considering loss or waste, approximate values):

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
10230000	UD profile 28/27/0.6, 3,000 mm	m	0.4
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22
Joint Compound			
Standard	Joint Compound	kg	0.2

Compound Seam – Ceiling Panel Installation

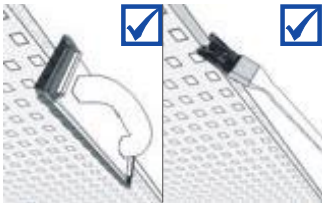
Check ceiling framework for rigidity and evenness (using a straight-edge).

Always mount straight connectors in a staggered manner (see figure). Then check ceiling grid CD sections for centre distances and adjust as necessary.
Measure centre distances accurately!



Prior to installation, chamfer edges on visible sides of ceiling panels at 45 degrees using handheld sander. Prime edge area of gypsum core with Vogl Supergrund LF.

Angle must be 45 degrees.



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

We recommend the following accessories for installation:
Perforated panel screws incl. screw bit, Vogl mounting aid, Vogl Supergrund LF

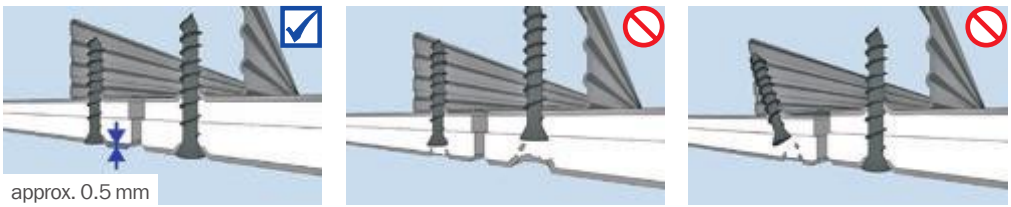
Correct handling of ceiling panels:

- Always take into account the load carrying capacity of 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

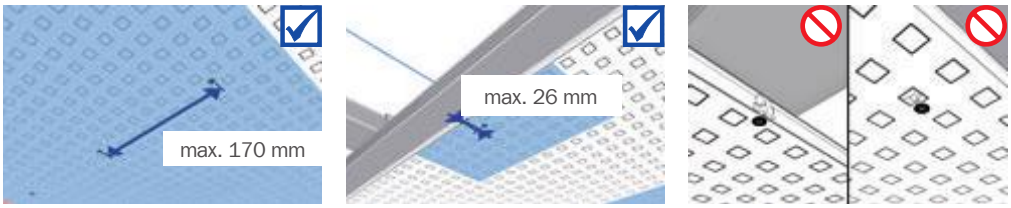
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

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

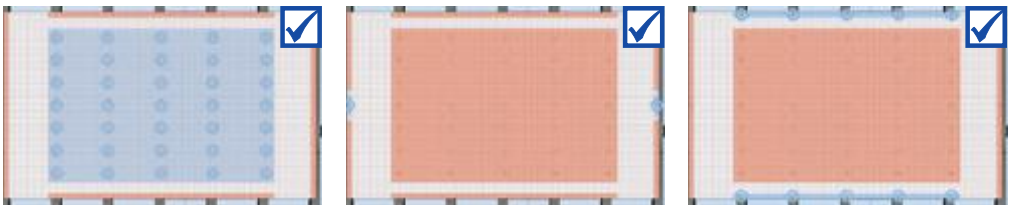
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



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.



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.



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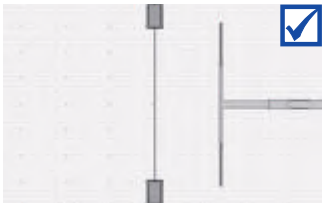
Compound Seam – Ceiling Panel Installation

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

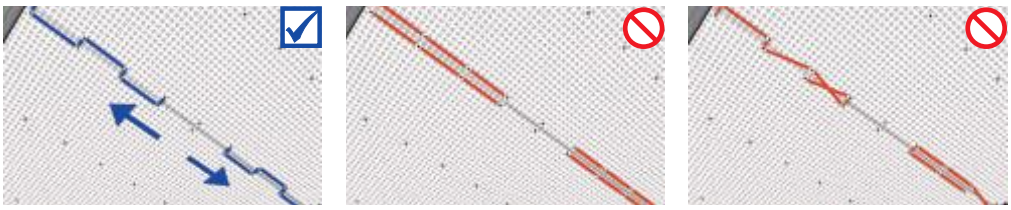
Use CD profile or straightedge as end stop. Position next panel by sliding it to first alongside CD profile / straightedge and fixing it in place.



General site conditions / Manufacturer's instructions:

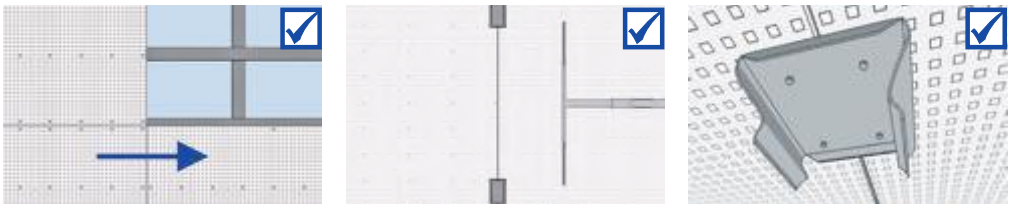
- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below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

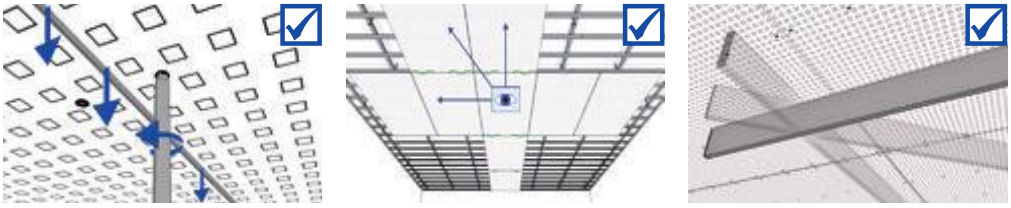


Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.

Install rest of ceiling panels, always working with two mounting aids (except in case of random perforation) and heeding proper seating of mounting aids. Install panels exclusively in "cross joint" system and always check optical appearance of perforation (straight and diagonal).

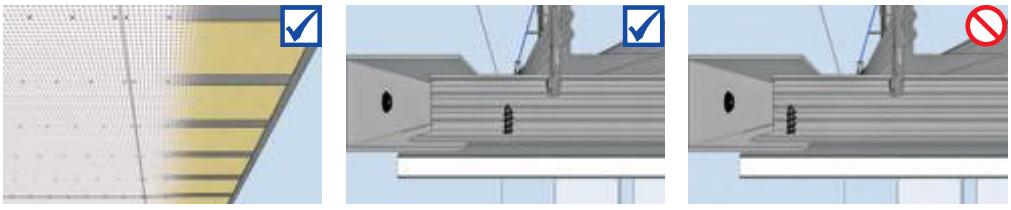


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Do another visual check of perforation pattern, and finally use a straightedge to check entire ceiling.



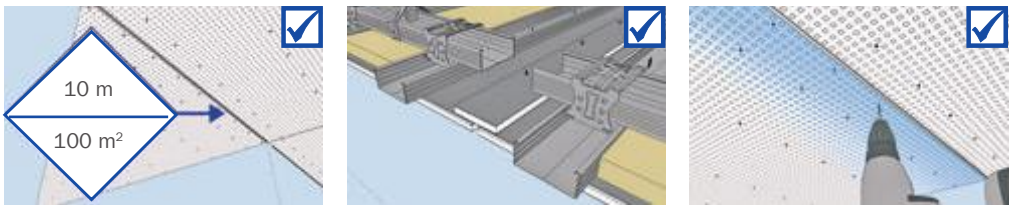
Place any damping layer directly onto back of ceiling panels.

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.

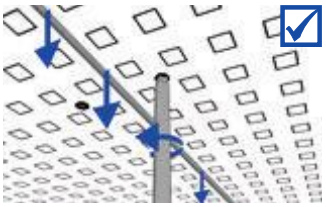
Additional board strip above joint must be screwed down on one side only.



Compound Seam – Joint Finishing

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

Check ceiling, adjust any height discrepancies in joint area with a screw driver.

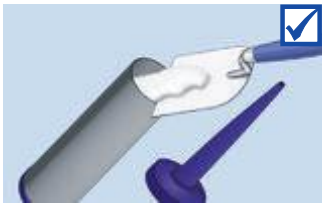


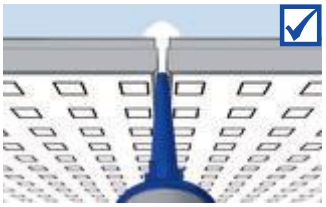
Mix joint compound in a clean pail according to manufacturer's instructions.

General site conditions / Manufacturer's instructions:

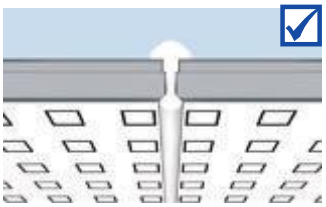
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Avoid sudden heating and cooling of rooms
- Relative humidity: 40 - 80 %
- Self-levelling, cement or asphalt screeds must be fully dried – make sure there is no residual moisture

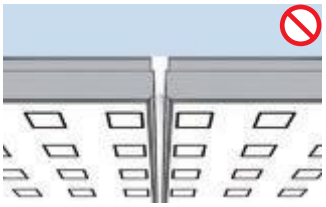
Load cartridge and fill joints generously holding cartridge as upright as possible to ensure complete filling of joints.

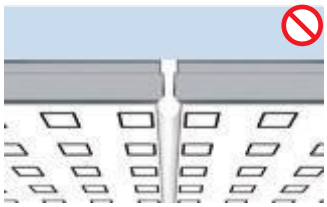




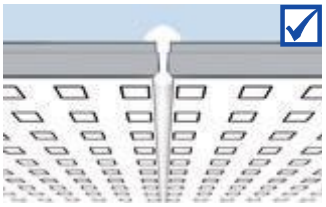
To achieve high joint strength, make sure a "mushroom" forms between two panels (see figure).

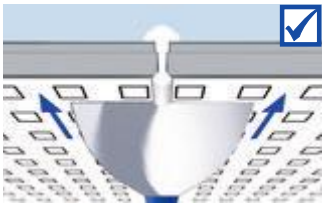


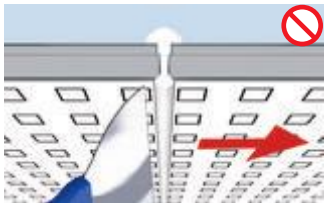




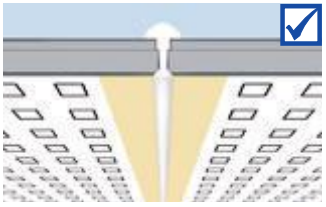
After joint compound has started to cure, and before it has hardened completely, remove any protruding material working in longitudinal direction of joint.







Then refill joints and screw heads with joint or finishing material, having covered perforation adjacent to joint with masking tape beforehand.

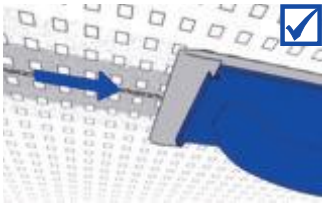


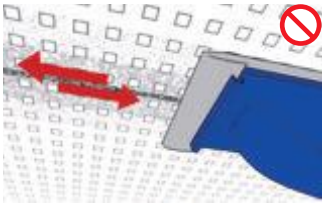
Any holes closed with joint compound can be re-opened using a perforation wheel.

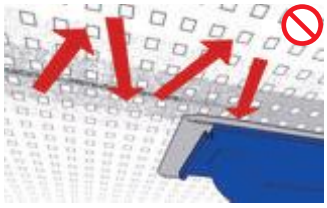
Surface treatment for painters
(in accordance with ATV painting work DIN 18363)

- Only apply coating by roller; spray application is not permitted!
- Prior to application of paint coat, a primer should generally be applied in accordance with manufacturer's specifications
- Manufacturer's recommended drying times for both primer and finishing coat must be strictly observed
- Alkaline coatings are unsuitable for plasterboards
- 3 coats of paint must be applied (1 prime coat + 2 finishing coats) and recommended drying times adhered to
- Always consult system manufacturer's technical data sheets for primers and finishing coats

After joint compound has completely cured, use a handheld sander to smooth the area.







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Acoustic Design Panels
(with air purification effect) – Compound Seam system

Suspended ceiling structure, one side clad with Vogl acoustic design panels backed with sound absorbing fleece, mounted to a rigid ceiling framework of galvanised metal profiles, hung with flush and horizontally aligned suspended brackets and installed using fixing materials approved by the building authorities, installation in accordance with manufacturer's instructions, including all connection and jointing work as well as connection and fixing materials.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 330/333 mm*

Covering:

Vogl acoustic design panels as perforated ceiling panels in accordance with EN 14190, with air purification effect, one layer 12.5 mm, laid with mounting aid and fixed to framework using perforated panel screws SN 30, with screw spacing max. 170 mm.

Perforation pattern / perforated area / mass per unit area:

- 6/18 round / 8.7 % / 9.1 kg/m²*
- 8/18 round / 15.5 % / 8.5 kg/m²*
- 10/23 round / 14.8 % / 8.5 kg/m²*
- 12/25 round / 18.1 % / 8.2 kg/m²*
- 15/30 round / 19.6 % / 8.0 kg/m²*
- 8/12/50 round / 13.1 % / 8.7 kg/m²*
- 12/20/66 round / 19.6 % / 8.0 kg/m²*
- 8/18 square / 19.8 % / 8.0 kg/m²*
- 12/25 square / 23.0 % / 7.7 kg/m²*
- 8/15/20 round / 9.5 % / 9.1 kg/m²*
- 12/20/35 round / 11.0 % / 8.9 kg/m²*

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Fleece backing:

Panels backed with sound absorbing fleece as:

- acoustic fleece, black*
- acoustic fleece, white*

Joint finishing / filling:

Fill screw heads flush with surface. Carry out joint finishing using Compound Seam system in accordance with manufacturer's instructions. Use joint compound as per EN 13963.

Subbase:

Suspension height:	h = mm
Installation height:	h = mm
Room height:	h = mm
Insulation thickness:	th = mm

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

System Training

Our know-how for your result reliability

Topic:

Installation of acoustic design ceilings – Various joint systems

Description

For installation of different acoustic panel systems, there are also fundamental differences in finishing of joints. In addition to theoretical fundamentals, our system training offers mainly practical guidelines for installation work on site. Another topic of Vogl System Training, beside suspension and connection with various components, is how to solve problems (expansion joints, integrated ceiling elements and wall connections).

Topics

- The variety of joint types and panel systems (including VoglFuge, Compound Seam, GSG4 Joint)
- Panel arrangement and sensible space division for installation
- Proper joint finishing in various systems
- Frequent wall connections and how to execute them properly
- Expansion joints in ceiling area / regulations and recommendations
- Integrated ceiling components – fundamentals and problems
- Various types of frieze and how to execute them
- How to avoid typical processing errors in installation work mentioned

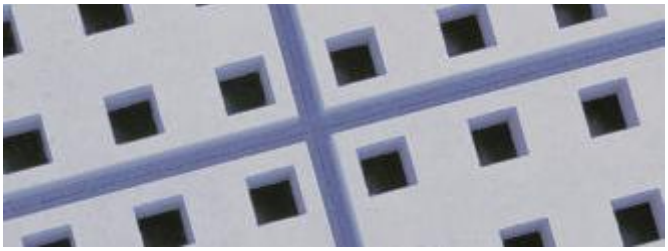
Targets

After completion of seminar, system training participants shall

- understand and be able to apply current standards and regulations
- recognise and avoid typical installation errors
- be able to avoid any problems that may be caused by coating through subsequent trades

Target group

This system training is equally suited for site and project managers as well as for drywall installers and interior construction workers. Also, technically adept employees in sales or from building material dealers' can extend their knowledge about proper installation of ceiling structures.



A registration form is available on page 191. You have any questions in advance? We are glad to assist you! Phone: +49 9104 825-100

Registration is possible by e-mailing info@vogl-ceilingsystems.com directly or by fax to +49 9104 825-280.
You can also find all information on training under www.vogl-ceilingsystems.com

Ball-impact Resistant Ceiling

Full Score
for Acoustics and Ball-impact Resistance

Realising perfect gym hall ceilings with the VoglFuge system

with air purification effect as a standard feature

Full Score for your Ceiling

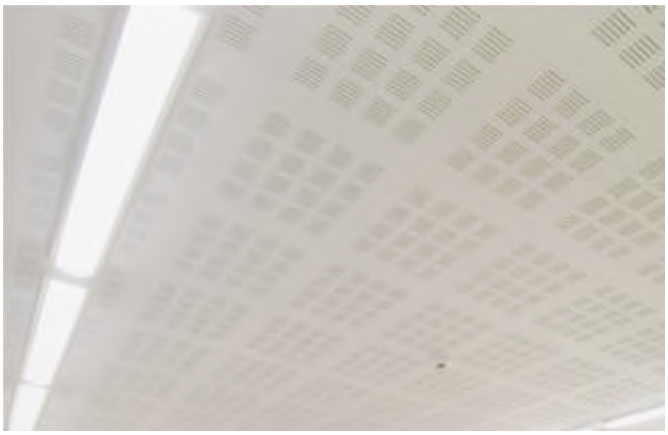
In sports facilities and multi-purpose halls, ceiling systems not only require acoustic effectiveness, but also special stability. Particularly in highly frequented areas, acoustic ceilings serve as sound absorbers and offer a pleasant atmosphere both for sports and for cultural and music events.

Ideal conditions for using our VoglFuge system which allows ball-impact resistant acoustic design ceilings to be realised quickly, economically and with reliable results.

Benefits of the VoglFuge system:

The unique joint technology offers ultimate safety in installation and result also for the ball-impact resistant ceiling structure:

- Different panel variations in 12.5 mm or 15.0 mm thickness
- Ball-impact resistance in compliance with DIN 18032-3 and DIN EN 13964 Appendix D
- Quick mounting of panels – "edge-to-edge"
- Maximum crack resistance
- Quickest possible joint finishing with our unique VoglFuge strip
- Significant time saving due to quick installation and drying times
- Always complete with the VoglFuge System Kit
- Including perforated panel screws SN 3.5 x 30 mm



VoglFuge System Kit includes the required material, tools and a detailed assembly instruction to ensure top quality of workmanship and result.

The right tools at the right time in exactly the right place.

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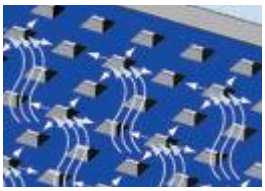


Our acoustic design panels are perforated ceiling panels with high acoustic performance and air purification effect (adsorption).

Other available options: Acoustic design panels with non-perforated edges, block perforation, applications, manufacture in accordance with customer designs and ceiling plans.

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

with air purification effect as a standard feature

tested for contaminants LGA

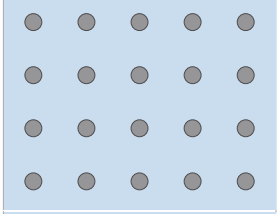
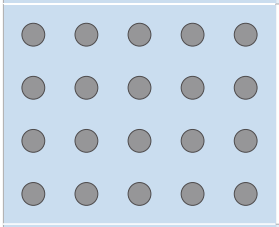
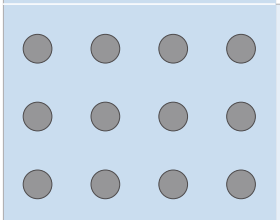
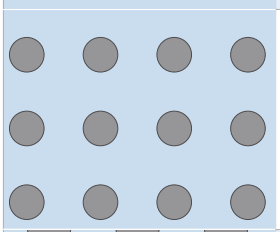
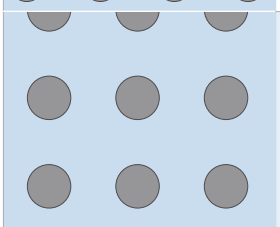
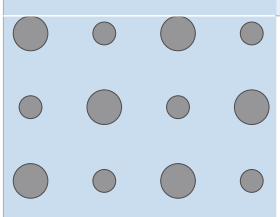
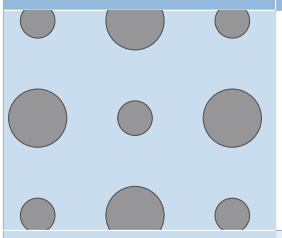
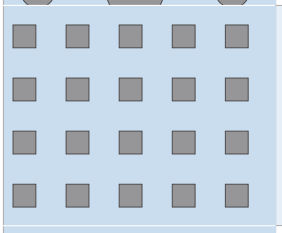
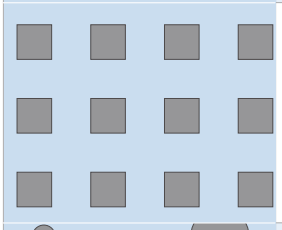
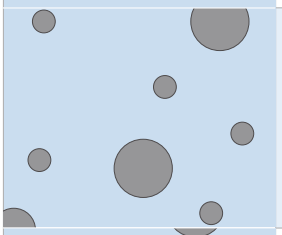
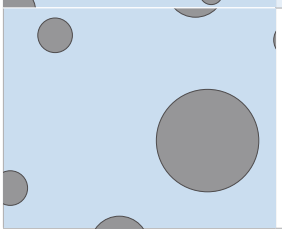
Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7061101110 7061101120 7062101110 7062101120	Acoustic Design Panel VF 6/18R Acoustic fleece, black Acoustic Design Panel VF 6/18R Acoustic fleece, white Acoustic Design Panel VF 6/18R Acoustic fleece, black Acoustic Design Panel VF 6/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 8.7 % Mass: 9.1 kg/m² 1,188 x 1,998 x 15.0 mm Perforated area: 8.7 % Mass: 11.4 kg/m²	59.3 m² 25 pieces 59.3 m² 25 pieces
	7061102110 7061102120 7062102110 7062102120	Acoustic Design Panel VF 8/18R Acoustic fleece, black Acoustic Design Panel VF 8/18R Acoustic fleece, white Acoustic Design Panel VF 8/18R Acoustic fleece, black Acoustic Design Panel VF 8/18R Acoustic fleece, white	1,188 x 1,998 x 12.5 mm Perforated area: 15.5 % Mass: 8.5 kg/m² 1,188 x 1,998 x 15.0 mm Perforated area: 15.5 % Mass: 10.5 kg/m²	59.3 m² 25 pieces 59.3 m² 25 pieces
	7061103110 7061103120 7062103110 7062103120	Acoustic Design Panel VF 10/23R Acoustic fleece, black Acoustic Design Panel VF 10/23R Acoustic fleece, white Acoustic Design Panel VF 10/23R Acoustic fleece, black Acoustic Design Panel VF 10/23R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 14.8 % Mass: 8.5 kg/m² 1,196 x 2,001 x 15.0 mm Perforated area: 14.8 % Mass: 10.6 kg/m²	59.8 m² 25 pieces 59.8 m² 25 pieces
	7061104110 7061104120 7062104110 7062104120	Acoustic Design Panel VF 12/25R Acoustic fleece, black Acoustic Design Panel VF 12/25R Acoustic fleece, white Acoustic Design Panel VF 12/25R Acoustic fleece, black Acoustic Design Panel VF 12/25R Acoustic fleece, white	1,196 x 2,001 x 12.5 mm Perforated area: 18.1 % Mass: 8.2 kg/m² 1,200 x 2,000 x 15.0 mm Perforated area: 18.1 % Mass: 10.2 kg/m²	60.0 m² 25 pieces 60.0 m² 25 pieces
	7061105110 7061105120 7062105110 7062105120	Acoustic Design Panel VF 15/30R Acoustic fleece, black Acoustic Design Panel VF 15/30R Acoustic fleece, white Acoustic Design Panel VF 15/30R Acoustic fleece, black Acoustic Design Panel VF 15/30R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m² 1,200 x 1,980 x 15.0 mm Perforated area: 19.6 % Mass: 10.5 kg/m²	59.4 m² 25 pieces 59.4 m² 25 pieces
	7061106110 7061106120 7062106110 7062106120	Acoustic Design Panel VF 8/12/50R Acoustic fleece, black Acoustic Design Panel VF 8/12/50R Acoustic fleece, white Acoustic Design Panel VF 8/12/50R Acoustic fleece, black Acoustic Design Panel VF 8/12/50R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 13.1 % Mass: 8.7 kg/m² 1,200 x 2,000 x 15.0 mm Perforated area: 13.1 % Mass: 10.9 kg/m²	60.0 m² 25 pieces 60.0 m² 25 pieces

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7061107110 7061107120 7062107110 7062107120	Acoustic Design Panel VF 12/20/66R Acoustic fleece, black Acoustic Design Panel VF 12/20/66R Acoustic fleece, white Acoustic Design Panel VF 12/20/66R Acoustic fleece, black Acoustic Design Panel VF 12/20/66R Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.6 % Mass: 8.0 kg/m² 1,188 x 1,980 x 15.0 mm Perforated area: 19.6 % Mass: 10.0 kg/m²	58.8 m² 25 pieces 58.8 m² 25 pieces
	7061108110 7061108120 7062108110 7062108120	Acoustic Design Panel VF 8/18Q Acoustic fleece, black Acoustic Design Panel VF 8/18Q Acoustic fleece, white Acoustic Design Panel VF 8/18Q Acoustic fleece, black Acoustic Design Panel VF 8/18Q Acoustic fleece, white	1,188 x 1,980 x 12.5 mm Perforated area: 19.8 % Mass: 8.0 kg/m² 1,188 x 1,980 x 15.0 mm Perforated area: 19.8 % Mass: 10.0 kg/m²	59.3 m² 25 pieces 59.38 m² 25 pieces
	7061109110 7061109120 7062109110 7062109120	Acoustic Design Panel VF 12/25Q Acoustic fleece, black Acoustic Design Panel VF 12/25Q Acoustic fleece, white Acoustic Design Panel VF 12/25Q Acoustic fleece, black Acoustic Design Panel VF 12/25Q Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 23.0 % Mass: 7.7 kg/m² 1,200 x 2,000 x 15.0 mm Perforated area: 23.0 % Mass: 9.6 kg/m²	60.0 m² 25 pieces 60.0 m² 25 pieces
	7061110110 7061110120 7062110110 7062110120	Acoustic Design Panel VF 8/15/20R Acoustic fleece, black Acoustic Design Panel VF 8/15/20R Acoustic fleece, white Acoustic Design Panel VF 8/15/20R Acoustic fleece, black Acoustic Design Panel VF 8/15/20R Acoustic fleece, white	1,200 x 1,980 x 12.5 mm Perforated area: 9.5 % Mass: 9.1 kg/m² 1,200 x 1,980 x 15.0 mm Perforated area: 9.5 % Mass: 11.3 kg/m²	60.0 m² * 25 pieces 60.0 m² * 25 pieces
	7061111110 7061111120 7062111110 7062111120	Acoustic Design Panel VF 12/20/35R Acoustic fleece, black Acoustic Design Panel VF 12/20/35R Acoustic fleece, white Acoustic Design Panel VF 12/20/35R Acoustic fleece, black Acoustic Design Panel VF 12/20/35R Acoustic fleece, white	1,200 x 2,000 x 12.5 mm Perforated area: 11.0 % Mass: 8.9 kg/m² 1,200 x 2,000 x 15.0 mm Perforated area: 11.0 % Mass: 11.1 kg/m²	60.0 m² * 25 pieces 60.0 m² * 25 pieces

*Note: Despite being perforated irregularly, random perforation panels still yield a certain linear layout as the abutting panel edges must be non-perforated in any case. This is unavoidable and independent of the workmanship of the specialist contractor.

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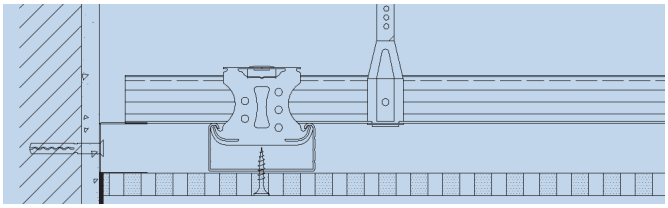
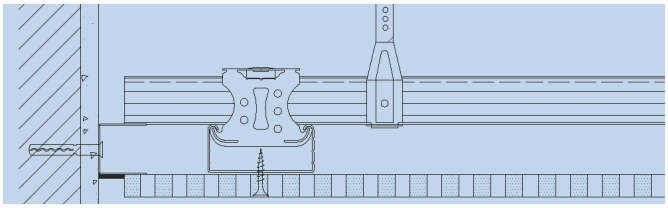
www.vogl-ceilingsystems.com



Wall connection:

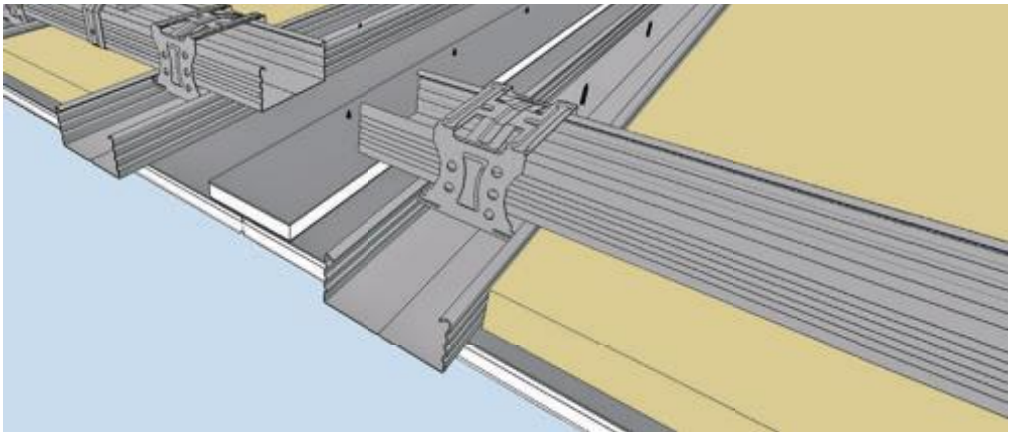
For filled wall connections, or wall connections filled from below, a double layer fleece strip is used to separate acoustic ceiling from wall.



Wall connection – shadow gap:

For wall connections with shadow gap, the panel is only installed up to UD profile as this may be covered with a strip of adhesive double layer fleece in order to colour shadow gap.

Please contact us if you require additional technical details on possible wall connections.



Expansion joints:

To prevent cracking in ceiling surface, expansion joints have to be provided every 10 linear metres / 100 m² of ceiling area.

Framework must be completely severed (see illustration) and panel strips above joint fixed to one side of ceiling structure only.

Tip: Panel strip may be covered with adhesive double layer fleece on visible side if colouring expansion joint in either black or white is desired.

Material required per m² based on a ceiling of 100 m² (10 m x 10 m, not considering loss or waste, approximate values):

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
10230000	UD profile 28/27/0.6, 3,000 mm	m	0.4
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22

Note: In case of shorter secondary profile centres, the quantities consumed shall be increased accordingly.

Primary profiles are rigidly hung from structural soffit with suspended brackets using fixing materials approved by the relevant building authorities.
Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/DIN 18181.
CD 60/27 secondary profiles are attached to CD 60/27 primary profiles using cross connectors.

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

Plasterboards should be installed in accordance with EN 13964/DIN 18181 and manufacturer's guidelines.

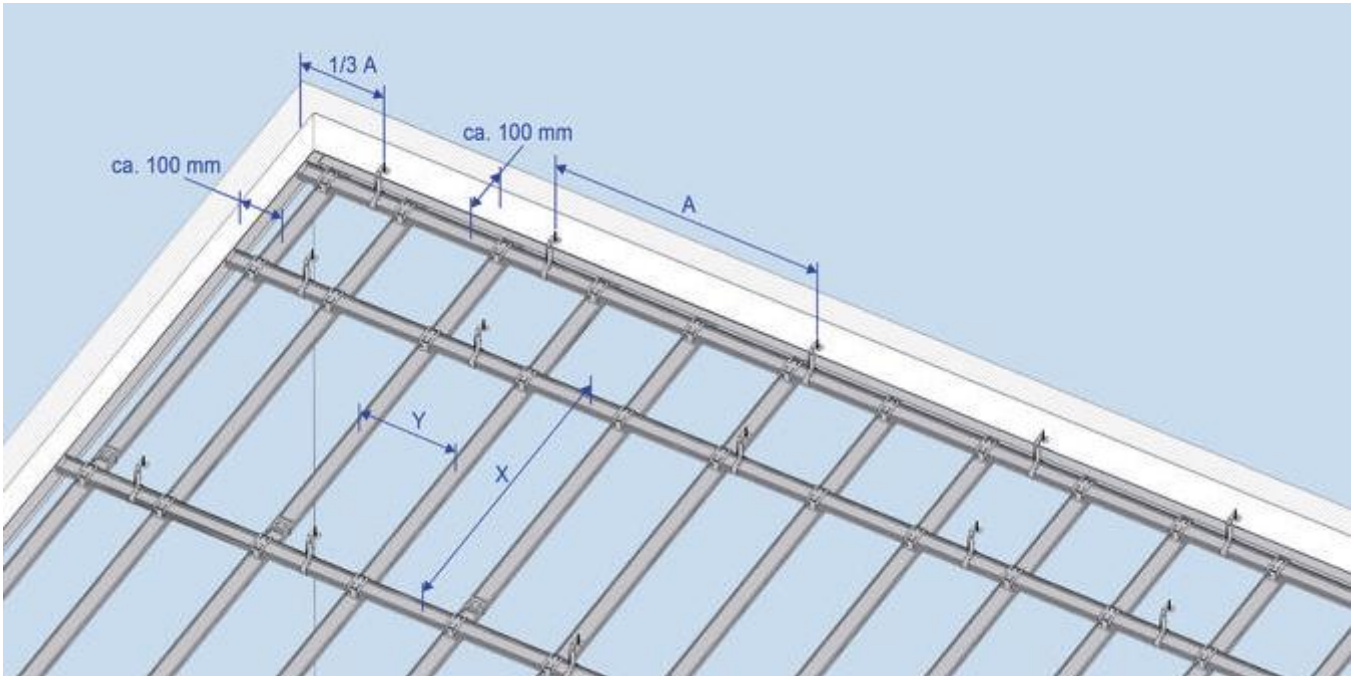
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

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

Block perforations and block slotting require different secondary profile centre distances which are shown in our tables.

Ball-impact Resistant Ceiling framework								
Technical data	Unit	Perforated panel ceiling						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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
see table on page 107		



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Our ceiling system was tested in accordance with DIN 18032-3: 1997-04 “Gyms, halls for gymnastics and games and multi-purpose use, testing of ball impact resistance” as well as EN 13964: 2007-02, Appendix D “Suspended ceilings: requirements and testing methods, impact resistance”.

Our acoustic design panels were tested by an accredited testing institute on the basis of the aforementioned standards. The testing consisted in the ceiling panels being pelted with a handball with a total of 36 shots at various angles of impact on the suspended ceiling.

The tested ceiling panels withstood the stress without any damage. The systems are thus tested as “ball-impact resistant” in compliance with DIN 18032-3 for the application area of “Ceiling” as well as EN 13964 Appendix D as “Class 1A”.

This applies to the following acoustic design ceiling panels in conjunction with the secondary profile centres indicated:

Acoustic design panel, th = 12.5 mm		
Item	**Perforated area**	**Centre distance of secondary profiles Y (mm)**
6/18 round	8.7 %	250
8/18 round	15.5 %	250
10/23 round	14.8 %	250
12/25 round	18.1 %	200
15/30 round	19.6 %	200
8/12/50 round	13.1 %	250
12/20/66 round	19.6 %	200
8/18 square	19.8 %	200
12/25 square	23.0 %	200
8/15/20 round	9.5 %	250
12/20/35 round	11.0 %	250

Acoustic design panel, th = 15.0 mm		
Item	**Perforated area**	**Centre distance of secondary profiles Y (mm)**
6/18 round	8.7 %	333
8/18 round	15.5 %	333
10/23 round	14.8 %	333
12/25 round	18.1 %	333
15/30 round	19.6 %	330
8/12/50 round	13.1 %	333
12/20/66 round	19.6 %	330
8/18 square	19.8 %	333
12/25 square	23.0 %	333
8/15/20 round	9.5 %	333
12/20/35 round	11.0 %	333

Acoustic Design Panels for “Ball-impact Resistant Ceiling” (with air purification effect) – VoglFuge system

Suspended ceiling structure, one side clad with Vogl acoustic design panels, backed with sound absorbing fleece, mounted to a rigid ceiling framework of galvanised metal profiles, hung with flush and horizontally aligned suspended brackets and installed using fixing materials approved by the building authorities, installation in accordance with manufacturer's instructions, including all connection and jointing work as well as connection and fixing materials. Designed as "Ball-impact Resistant Ceiling".

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Rigid suspension in vernier system
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 200 / 250 / 330 / 333 mm*

Covering:

Vogl Acoustic design panels as perforated ceiling panels in accordance with EN 14190, with air purification effect, one layer 12.5 mm*/15.0 mm*, laid edge-to-edge and fixed to the framework using Vogl perforated panel screws SN 30, with screw spacing max. 170 mm.

Perforation pattern / perforated area / mass per unit area:

- 6/18 round / 8.7 % / 9.1 kg/m²*
- 8/18 round / 15.5 % / 8.5 kg/m²*
- 10/23 round / 14.8 % / 8.5 kg/m²*
- 12/25 round / 18.1 % / 8.2 kg/m²*
- 15/30 round / 19.6 % / 8.0 kg/m²*
- 8/12/50 round / 13.1 % / 8.7 kg/m²*
- 12/20/66 round / 19.6 % / 8.0 kg/m²*
- 8/18 square / 19.8 % / 8.0 kg/m²*
- 12/25 square / 23.0 % / 7.7 kg/m²*
- 8/15/20 round / 9.5 % / 9.1 kg/m²*
- 12/20/35 round / 11.0 % / 8.9 kg/m²*

Ball-impact resistance:

Design tested as “Ball-impact Resistant Ceiling”:
“Ball-impact Resistant” in compliance with DIN 18032-3 for the application area of "Ceiling"; “Impact Resistance Class 1A” as per EN 13964 Appendix D

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Fleece backing:

Panels backed with sound absorbing fleece as:

- acoustic fleece, black*
- acoustic fleece, white*

Joint finishing / filling:

Fill screw heads using Vogl screw head and repair filler flush with surface. Carry out joint finishing using VoglFuge system in accordance with manufacturer's instructions.

Subbase:

Suspension height:	h = mm
Installation height:	h = mm
Room height:	h = mm
Insulation thickness:	th = mm

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

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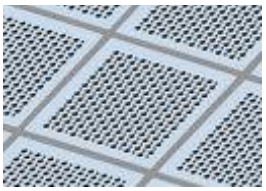
Ceiling Tiles

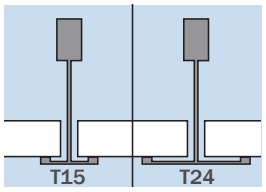
Perfect for Ceilings

with Lots Behind them

Aesthetics and accessibility in perfect harmony

Edge Shape “Basic T15/T24”





Vogl Ceiling Tiles are accessible, perforated ceiling panels with high acoustic performance for installation into T-profile systems.

The black acoustic fleece lining on the back (other colours on request) satisfies the highest demands on sound absorption.

Vogl Ceiling Tiles come with a factory-applied, pure white finishing coat (similar to RAL 9010).

Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided. We advise ordering by the room.

Mounting system: Basic (T15/T24) exposed grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

tested for contaminants LGA

Illustration	Item number	Description	Details	Pcs./PU PU/pallet
	7301100000 7301200000	GP-K Basic 600 T15/T24 non-perforated GP-K Basic 625 T15/T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301101110 7301201110	GP-K Basic 600 T15/T24 6/18R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301102110 7301202110	GP-K Basic 600 T15/T24 8/18R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301107110 7301207110	GP-K Basic 600 T15/T24 12/20/66R AVS Acoustic fleece, black GP-K Basic 625 T15/T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301108110 7301208110	GP-K Basic 600 T15/T24 8/18Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301109110 7301209110	GP-K Basic 600 T15/T24 12/25Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301112110 7301212110	GP-K Basic 600 T15/T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Basic 625 T15/T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7301114110 7301214110	GP-K Basic 600 T15/T24 3.5/9Q AVS Acoustic fleece, black GP-K Basic 625 T15/T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU

Further perforation patterns/dimensions available on request

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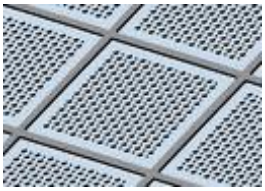
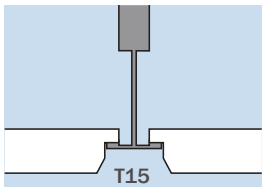
Edge Shape “Excellent T15”





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Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided. We advise ordering by the room.

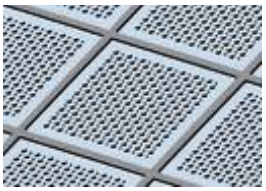
Mounting system: Excellent (T15) rebated grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: FK T15 (bevelled), type Excellent
Short edge: FK T15 (bevelled), type Excellent

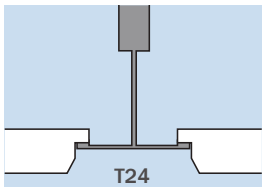
tested for contaminants LGA

Illustration	Item number	Description	Details	Pcs./PU PU/pallet
	7311300000 7311500000	GP-K Excellent 600 T15 non-perforated GP-K Excellent 625 T15 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311301110 7311501110	GP-K Excellent 600 T15 6/18R AVS Acoustic fleece, black GP-K Excellent 625 T15 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311302110 7311502110	GP-K Excellent 600 T15 8/18R AVS Acoustic fleece, black GP-K Excellent 625 T15 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311307110 7311507110	GP-K Excellent 600 T15 12/20/66R AVS Acoustic fleece, black GP-K Excellent 625 T15 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311308110 7311508110	GP-K Excellent 600 T15 8/18Q AVS Acoustic fleece, black GP-K Excellent 625 T15 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311309110 7311509110	GP-K Excellent 600 T15 12/25Q AVS Acoustic fleece, black GP-K Excellent 625 T15 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311312110 7311512110	GP-K Excellent 600 T15 5/82/15.4SL AVS Acoustic fleece, black GP-K Excellent 625 T15 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311314110 7311514110	GP-K Excellent 600 T15 3.5/9Q AVS Acoustic fleece, black GP-K Excellent 625 T15 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU

Further perforation patterns/dimensions available on request

Edge Shape “Excellent T24”





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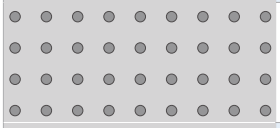
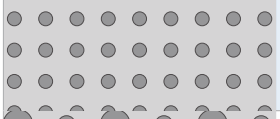
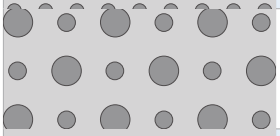
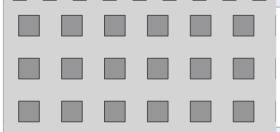
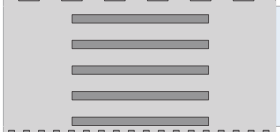
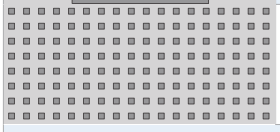
Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided. We advise ordering by the room.

Mounting system:	Excellent (T24) rebated grid
Based on standard:	EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating:	A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge:	FK T24 (bevelled), type Excellent
Short edge:	FK T24 (bevelled), type Excellent

tested for contaminants LGA

Illustration	Item number	Description	Details	Pcs./PU PU/pallet
	7311400000 7311600000	GP-K Excellent 600 T24 non-perforated GP-K Excellent 600 T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311401110 7311601110	GP-K Excellent 600 T24 6/18R AVS Acoustic fleece, black GP-K Excellent 625 T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311402110 7311602110	GP-K Excellent 600 T24 8/18R AVS Acoustic fleece, black GP-K Excellent 625 T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311407110 7311607110	GP-K Excellent 600 T24 12/20/66R AVS Acoustic fleece, black GP-K Excellent 625 T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311408110 7311608110	GP-K Excellent 600 T24 8/18Q AVS Acoustic fleece, black GP-K Excellent 625 T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311409110 7311609110	GP-K Excellent 600 T24 12/25Q AVS Acoustic fleece, black GP-K Excellent 625 T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311412110 7311612110	GP-K Excellent 600 T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Excellent 625 T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7311414110 7311614110	GP-K Excellent 600 T24 3.5/9Q AVS Acoustic fleece, black GP-K Excellent 625 T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU

Further perforation patterns/dimensions available on request

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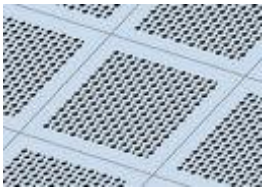
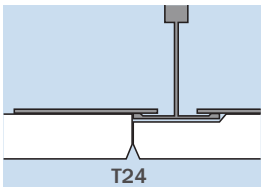
Edge Shape “Premium T24”





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Vogl Ceiling Tiles come with a factory-applied, pure white finishing coat (similar to RAL 9010).

Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. Mixing panel material from different production periods should be avoided.

Mixing panel material from different production periods should be avoided. Differences in colour and texture might otherwise ensue. We advise ordering by the room.

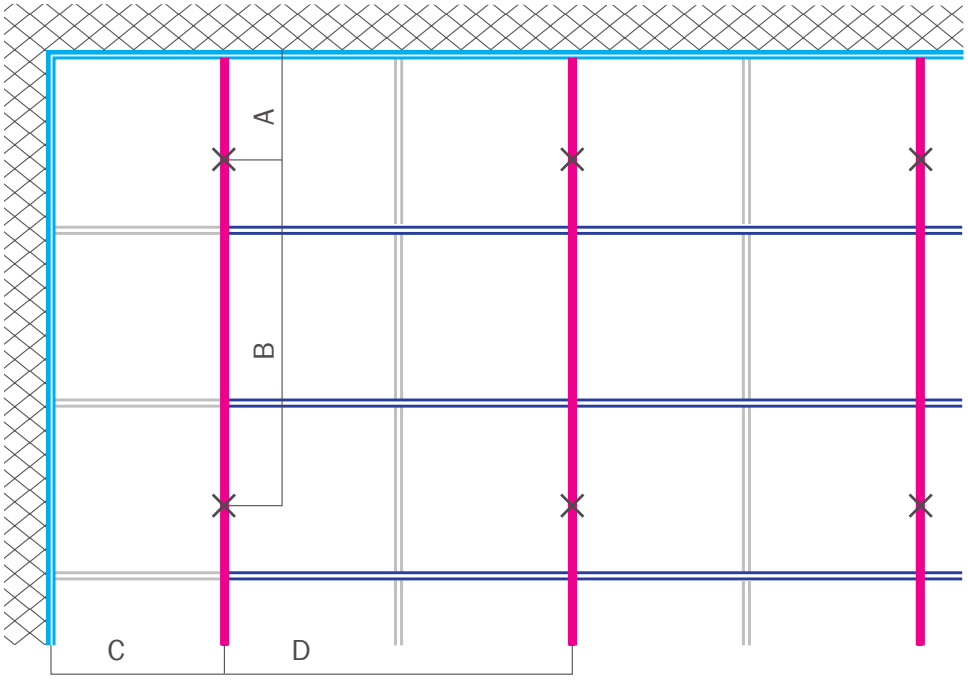
Mounting system: Premium (T24) concealed grid
Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 (non-flammable) according to EN 13501-1
Long edge: FK T24 (bevelled), type Premium
Short edge: FK T24 (bevelled), type Premium

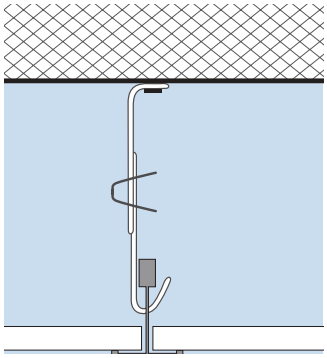
tested for contaminants LGA

Illustration	Item number	Description	Details	Pcs./PU PU/pallet
	7331400000 7331600000	GP-K Premium 600 T24 non-perforated GP-K Premium 625 T24 non-perforated	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331401110 7331601110	GP-K Premium 600 T24 6/18R AVS Acoustic fleece, black GP-K Premium 625 T24 6/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331402110 7331602110	GP-K Premium 600 T24 8/18R AVS Acoustic fleece, black GP-K Premium 625 T24 8/18R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331407110 7331607110	GP-K Premium 600 T24 12/20/66R AVS Acoustic fleece, black GP-K Premium 625 T24 12/20/66R AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331408110 7331608110	GP-K Premium 600 T24 8/18Q AVS Acoustic fleece, black GP-K Premium 625 T24 8/18Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331409110 7331609110	GP-K Premium 600 T24 12/25Q AVS Acoustic fleece, black GP-K Premium 625 T24 12/25Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331412110 7331612110	GP-K Premium 600 T24 5/82/15.4SL AVS Acoustic fleece, black GP-K Premium 625 T24 5/82/15.4SL AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU
	7331414110 7331614110	GP-K Premium 600 T24 3.5/9Q AVS Acoustic fleece, black GP-K Premium 625 T24 3.5/9Q AVS Acoustic fleece, black	600 x 600 x 12.5 mm 625 x 625 x 12.5 mm	6 pieces 28 PU

Further perforation patterns/dimensions available on request

Basic T15/T24 ("exposed" grid):

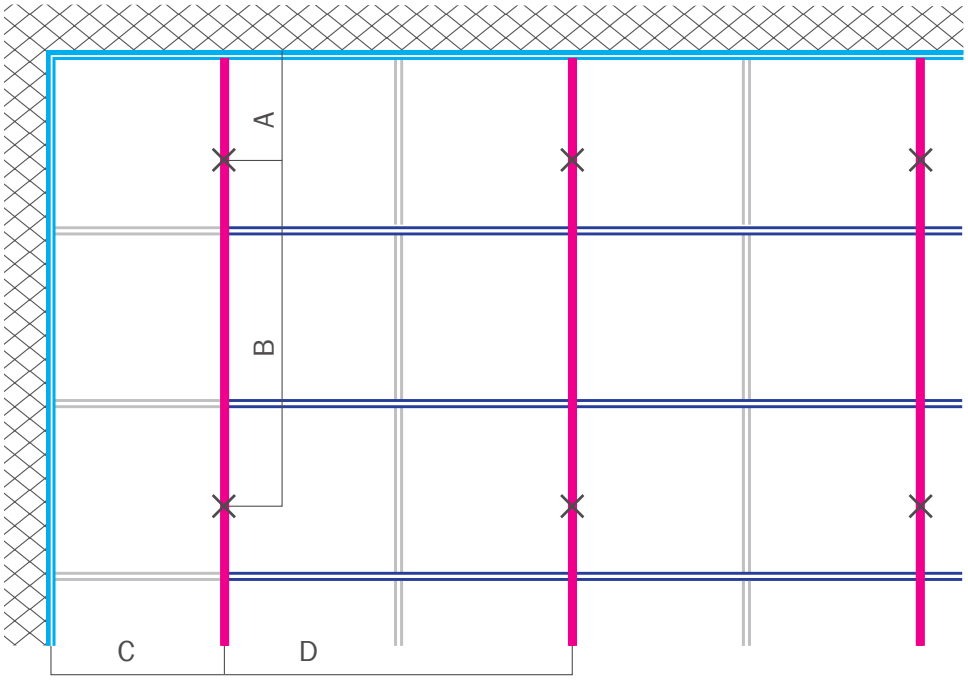


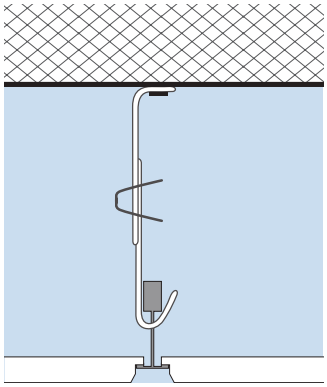


Wall angle or stepped wall angle
Secondary profile
Cross profile "long"
Cross profile "short"
Quick hanger (type dependent on suspension height)

A = max. 400 mm B = max. 1,200/1,250 mm C = max. 600/625 mm D = 600/1,200 mm or 625/1,250 mm

Excellent T15/T24 ("rebated" grid):





Wall angle or stepped wall angle
Secondary profile
Cross profile "long"
Cross profile "short"
Quick hanger (type dependent on suspension height)

A = max. 400 mm B = max. 1,200/1,250 mm C = max. 600/625 mm D = 600/1,200 mm or 625/1,250 mm

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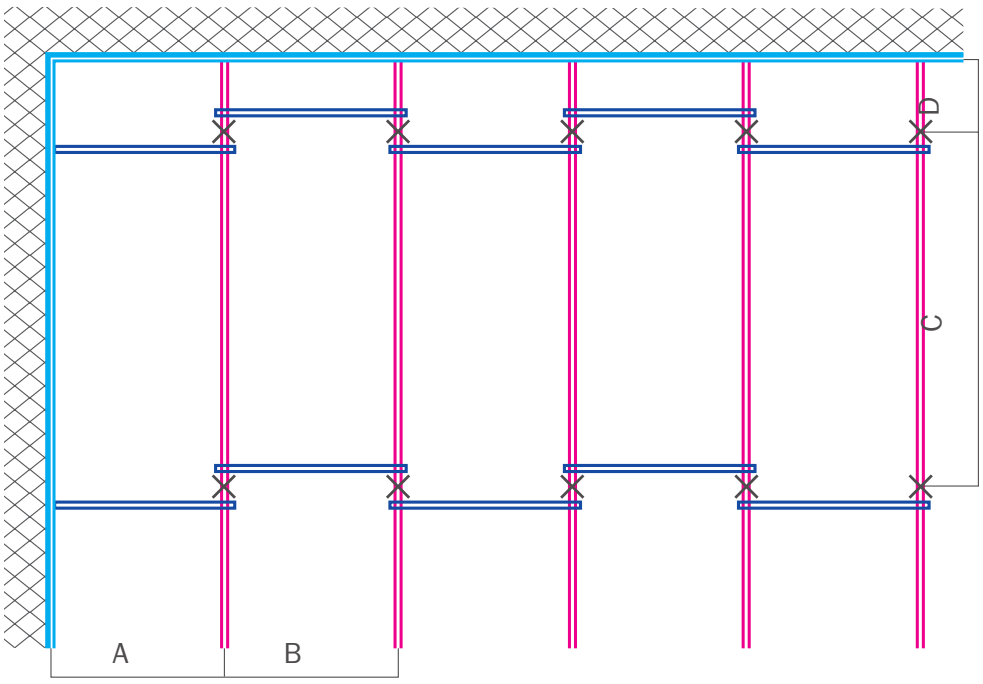
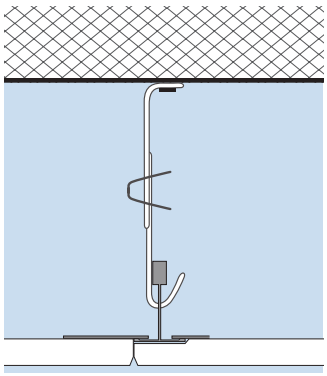
Premium T24 ("concealed" grid):

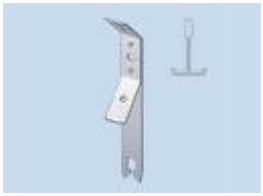
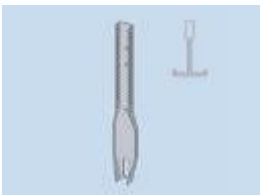
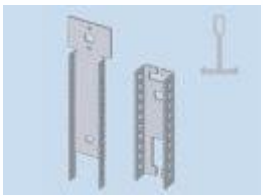


A = max. 600/625 mm B = max. 600/625 mm C = max. 1,500 mm D = max. 100 mm

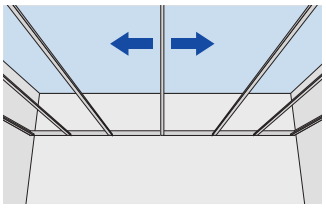


Wall angle or stepped wall angle
Secondary profile
Spacer
Quick hanger (type dependent on suspension height)

Possible suspended brackets:

Standard suspension:	Item numbers			Item numbers	
	23110100 23110200 23110300 23110400	Easy-span hanger hooked wire/hooked wire		20311000	Quick hanger T-profile
	23120100 23120200 23120300 23120400	Easy-span hanger hooked wire/eyelet wire		20312000	Quick hanger T-profile Klick Fix II
Rigid suspension:	**Item numbers**			**Item numbers**	
	25003000	Vernier suspended bracket, bottom part for T-profile		25001000 25001300 25001500	Vernier short hanger set, for T-profile

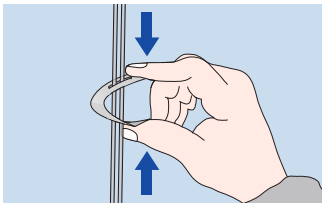
Alignment of ceiling framework must always be started in room centre. Observe framework manufacturer's installation instructions.



General site conditions:

- Site temperature should not fall below +5 °C
- Avoid major fluctuations in temperature and humidity
- Always store tiles in a dry place, protected against moisture
- Observe maximum stacking height during shipping and storage
- Avoid damage to surface finish by all means

After completion of framework installation, check entire ceiling surface to make sure that secondary profiles are perfectly aligned. Adjust easy-span hangers to make sure they fit tightly and structure is level.

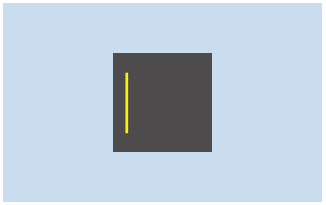


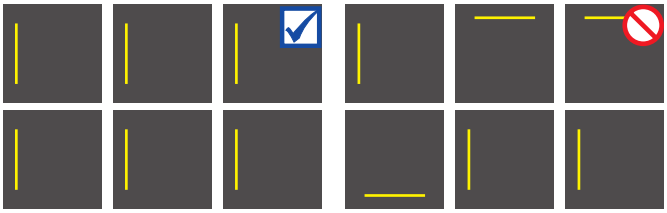
IMPORTANT!

Wear clean fabric gloves when handling tiles!

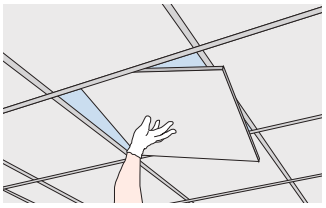
TIP: Make sure perimeter tiles are always bigger than half a tile! (Align structure accordingly). Always use tiles of same batch within one room.

All ceiling tiles have a marking on back side. Marking indicates direction of installation (it must always point in one direction). Failure to observe direction of installation results in a "shadow effect".





Now insert tiles in T-profiles observing special features of respective edge type. Always wear clean gloves throughout installation work.



Repair & upgrade:

Special factory-applied surface texture of tiles allows later repairs only on a minor scale. Should re-coating of ceiling tiles become necessary, paint must by all means be applied with a roller (see "Paining Instructions"). For this purpose, remove tiles from grid individually.

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VoglToptec

Attractive in Appearance, *Highly Active in Acoustics*

The acoustic plaster system with guaranteed results

Perfect acoustic plaster ceilings are a question of technique

Besides the acoustically highly effective perforated panels, acoustic plasters can also be used to significantly improve room acoustics through wall and ceiling surfaces. Each of these techniques can in itself offer a highly effective acoustic solution. Combined, they are an unbeatable team in terms of aesthetics and sound absorption. So far, however, working with conventional plaster base panels was more like using smooth gypsum plasterboards than a modern installation technique. VoglToptec works quite differently and, above all, without requiring any filler.

Economical and ultra-efficient:

A milestone in acoustic plaster ceilings:

- Elimination of panel jointing results in considerable increase in perforated area, thus enhancing acoustic efficiency
- Quicker and more economical installation due to precise edge-to-edge mounting technique
- Sound absorption coefficient of up to $\alpha_w = 0.95$ (absorption class A)
- All from one source: The complete system, perfectly harmonised and tested
- Delivery includes Vogl screw kit

Layer build-up of the finishing coats

The acoustic plaster is machine-applied onto the plaster base fleece in three time-lagged operations until an open-pored plaster layer of approx. 3 mm thickness is achieved.

VoglToptec Akustik Nano SF

Machine-applied acoustic plaster with a very fine surface texture, grain size 0.5 to 0.8 mm.

VoglToptec Akustik Color

Coloured machine-applied acoustic plaster, pigmented throughout, according to RAL or other colour charts.

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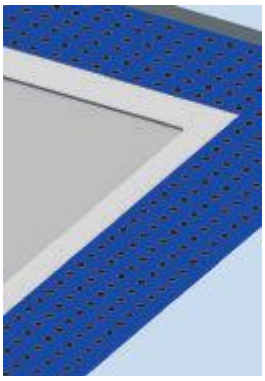


VoglToptec acoustic plaster system panels are perforated ceiling panels with high acoustic performance (exception: Type Reflexio which creates reflecting areas) for on-site lamination of the fleece plaster base (glass fibre fleece) and subsequent final coating with VoglToptec acoustic plaster.

Acoustic fleece or foil lamination backing, four-side sharp-edged with undercut for installation using the quickest and most secure "edge-to-edge" laying principle.
Delivery including VoglToptec screw kit (incl. perforated panel screws SN 3.5 x 30).

Based on standard: EN 14190 "Gypsum plasterboard products from reprocessing"
Fire rating: A2-s1, d0 or B1-s1, d0 (with foil) according to EN 13501-1
Long edge: SK (sharp-edged)
Short edge: SK (sharp-edged)

Illustration	Item number	Description	Details	m²/pallet Pcs./pallet
	7221100010	Acoustic plaster system panel Reflexio Acoustic fleece, black	1,206 x 2,006 x 12.5 mm Perforated area: 0 % Mass: 10.0 kg/m²	60.5 m² 25 pieces
	7221102110	Acoustic plaster system panel 8/18R Acoustic fleece, black	1,194 x 2,004 x 12.5 mm Perforated area: 15.4 % Mass: 8.5 kg/m²	59.8 m² 25 pieces
	7221109110	Acoustic plaster system panel 12/25Q Acoustic fleece, black	1,206 x 2,006 x 12.5 mm Perforated area: 22.9 % Mass: 7.7 kg/m²	60.5 m² 25 pieces
	7231113110	Ultracoustic panel DLV 12/25R Acoustic fleece, black	1,232.5 x 1,950 x 12.5 mm Perforated area: 33.9 % Mass: 6.5 kg/m²	60.0 m² 25 pieces
	7221109113	Acoustic plaster system panel 12/25Q Acoustic fleece, black **and foil**	1,206 x 2,006 x 12.5 Perforated area: 22.9 % Mass: 7.7 kg/m²	60.5 m² 25 pieces

VoglToptec Ultrakustik Panel

The panel with integrated mounting instruction, thanks to surrounding and transverse screw-fixing and stop bars.
Perfect smoothness and excellent stability despite the very high share of perforation of up to 33.9 %.

Illustration	Item number	Description	Contents	PU PU/pallet
	90501300	Vogl Supergrund primer LF 20l Universal primer, absorbency regulating, free from solvents and softening agents, low-emission, free from active fogging substances	1 canister = 20 litres	1 PU = 1 canister 24 canisters / pallet
	90605000	VoglToptec plaster base fleece Special glass fibre fleece as plaster base for coating with acoustic plaster, non-combustible A2, crack-bridging properties, damp-proof, dimensionally stable, white colour	Roll width = 1,145 mm Roll length = 100 m	1 PU = 1 roll 15 rolls / pallet
	90608000	VoglToptec plaster base fleece, small Special glass fibre fleece as plaster base for coating with acoustic plaster, non-combustible A2, crack-bridging, damp-proof, dimensionally stable, white colour. The plaster base fleece is especially suited for applying wallpaper in the perimeter / wall connection area as well as for custom solutions.	Roll width = 500 mm Roll length = 100 m	1 PU = 1 roll
	90604000	VoglToptec Special Adhesive Ready-to-use, dispersion adhesive, tested for harmful substances, for bonding the plaster base fleece to perforated ceiling panels, free from solvents and softening agents, low-emission, free from active fogging substances, ready-mixed product	1 bucket = 16 kg Consumption: approx. 0.3 kg/m²	1 PU = 1 bucket 24 buckets / pallet
	90602000	VoglToptec Akustik Nano SF Decorative, open-pored, machine-applied acoustic plaster, very fine texture, grain size 0.5 - 0.8 mm, dull matt, high degree of whiteness, ready-mixed product	1 bucket = 18 kg Consumption: 2.7 - 3.0 kg/m²	1 PU = 1 bucket 24 buckets / pallet
	90602100	VoglToptec Akustik Color Nano SF Decorative, open-pored machine-applied acoustic plaster, very fine texture, grain size 0.5 - 0.8 mm, ready-mixed product; please specify colour of choice (RAL etc.) when ordering	1 bucket = 18 kg Consumption: 3.0 - 3.5 kg/m² *	1 PU = 1 bucket 24 buckets / pallet

*Note: Dark or special colour shades may lead to increased consumption. Actual quantities depend on the respective project.

System-inherent reliability!

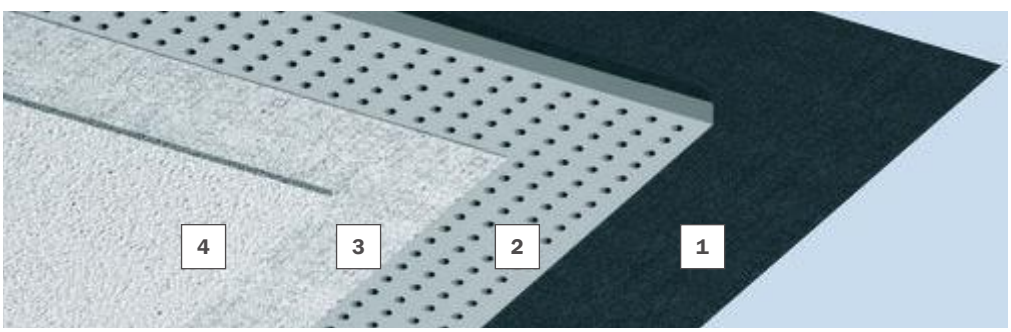
The perfectly harmonised components are system tested and guarantee unparalleled reliability in terms of installation and performance of our acoustic plaster ceilings.

1 Acoustic fleece (and foil, if any) factory-supplied

2 VoglToptec Acoustic Plaster System panels

3 Plaster base fleece installed on-site

4 Acoustic Plaster applied on-site



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The primary profiles are rigidly hung from the structural soffit with suspended brackets using fixing materials approved by the relevant building authorities.
Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/DIN 18181.
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. 100 mm). Joints should generally be staggered.

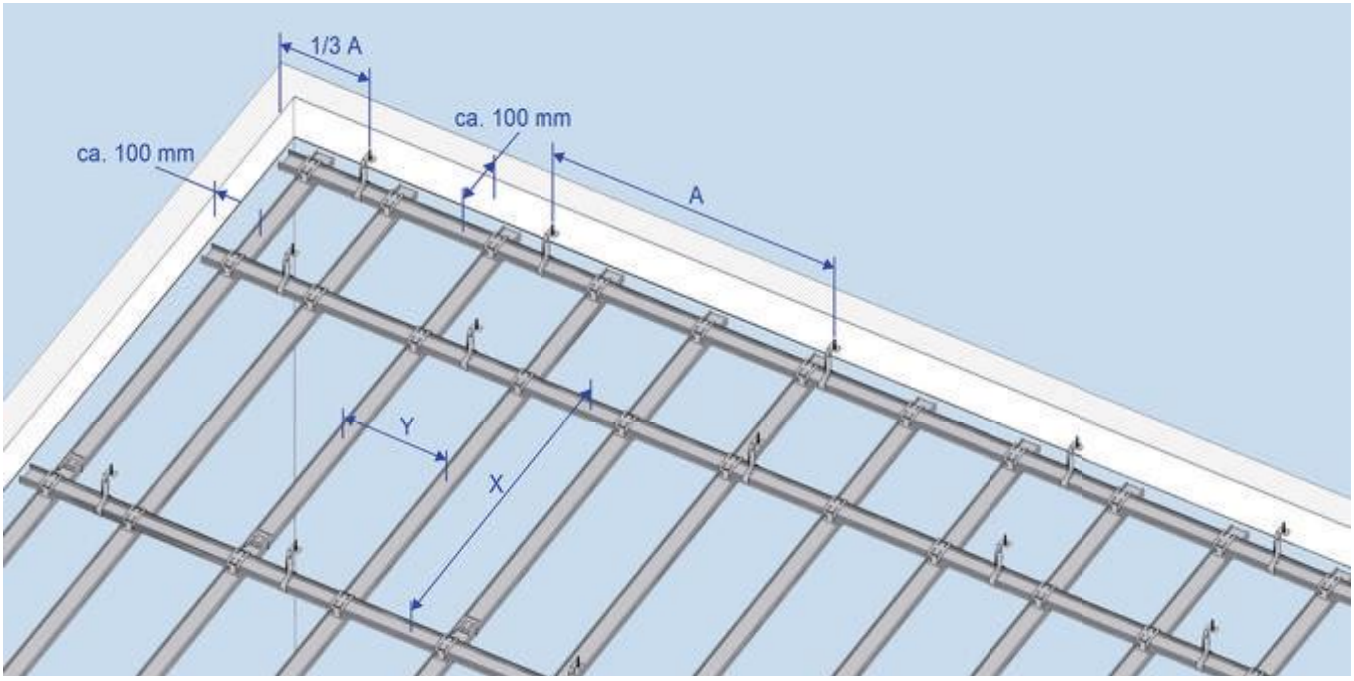
Plasterboards should be installed in accordance with EN 13964/DIN 18181 and manufacturer's guidelines.

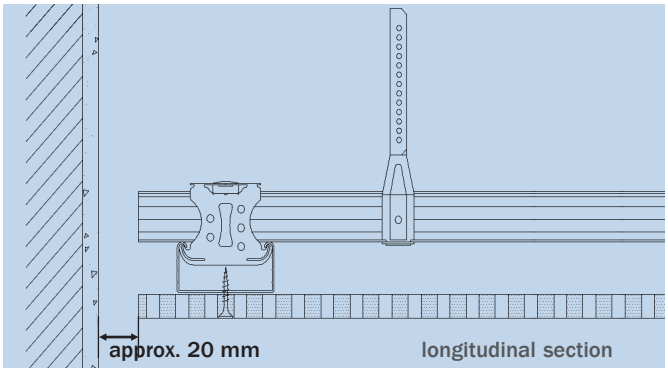
Additional items such as lighting, ventilation, sprinkler systems etc. must be individually suspended.

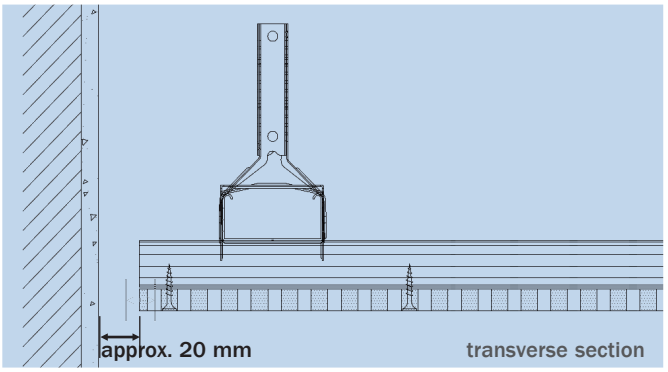
Any changes in framework owing to integrated ceiling components must be considered.

VoglToptec framework								
Technical data	**Unit**	**Perforated panel ceiling**						
Panel thickness	mm	12.5						
Distributed load	kN/m²	≤ 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
VoglToptec **Acoustic Plaster System panels** 8/18R, 12/25Q, Reflexio (smooth)	mm	334
VoglToptec **Ultrakustik Panel** 12/25R DLV	mm	325



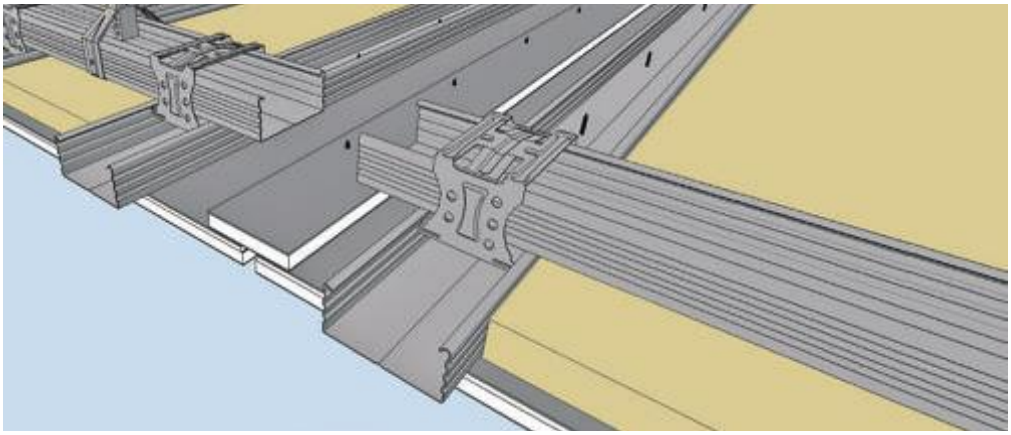




Wall connection:

To avoid different pressure ratios / temperatures between the ceiling void and usable space, we recommend ventilating the ceiling. To do this, we advise you to fit the wall connection with an open shadow gap (approx. 20 mm) in the VoglToptec system.

Please contact us if you require additional standard details concerning the VoglToptec system.



Expansion joints:

To prevent cracking in the ceiling surface, expansion joints have to be provided every 10 linear metres/100 m² of the ceiling area.

The framework must be completely severed (see illustration) and the panel strips above the joint must be screwed down on one side only.

Material required per m² based on a ceiling of 100 m² (10 m x 10 m, not considering loss or waste, approximate values):

Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3
52130000	Perforated panel screw SN 3.5 x 30	piece	22

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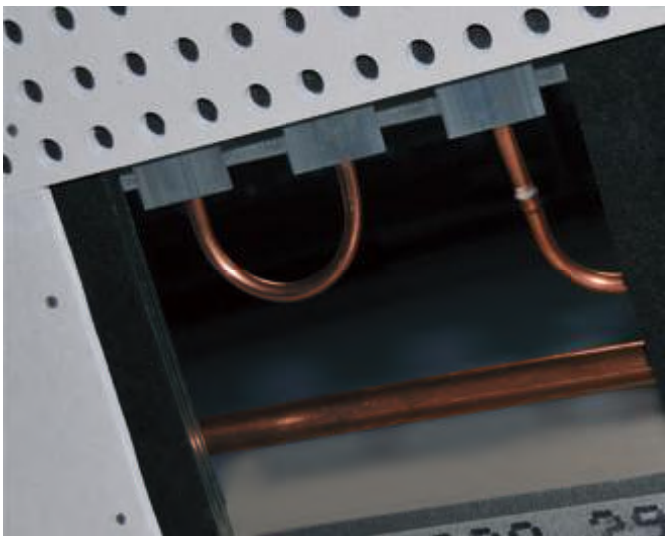
VoglToptec Thermotec

The perfect solution for your acoustic plaster climate control ceiling.

You want your acoustic plaster ceiling to be both visually attractive and provide efficient climate control performance? Then our VoglToptec Thermotec system is just right for your project!

With the perfect combination of 10 mm VoglThermotec panels and the VoglToptec acoustic plaster system, you will get optimum cooling capacity combined with sound absorption and an attractive finished surface. Of course, with integrated result reliability – as all the system components come from the ceiling specialist Vogl Deckensysteme.



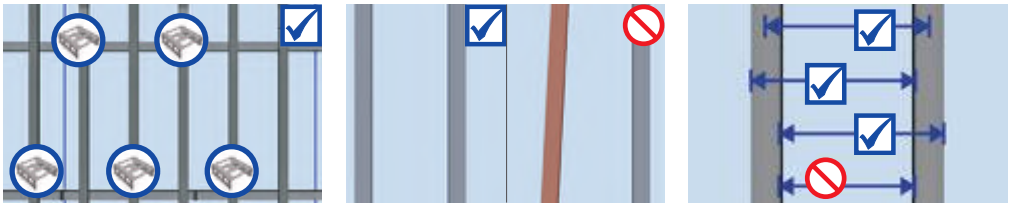
VoglToptec backed with foil

The right choice if you want your ceiling to be impermeable to airflow.

As you surely know, a ventilation system is often required to be installed within the ceiling void to meet air exchange requirements. In many cases, this ventilation is to take place only through the ceiling joints at the perimeters, and the rest of the ceiling surface must be airtight. Now there is a safe and easy-to-use solution for this application in the VoglToptec system. With the foil laminated on the back of the panels, the acoustic plaster ceiling remains impermeable to airflow – but without compromising its acoustic performance. The ideal product if your finished ceiling ever comes “under pressure”.

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

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).

Exception: Ultracoustic panels with inherent screw bars.

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

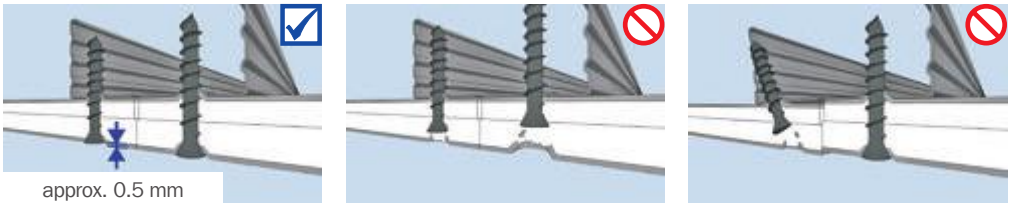
Correct handling of ceiling panels:

- 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

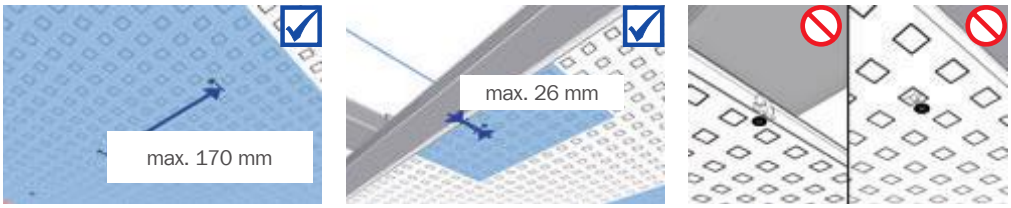
Get panel to correct position on framework using a panel lifter if working alone, or else another worker's help.

Perforation pattern	Centre distance
Acoustic plaster system panel 8/18R, 12/25Q, Reflexio	334 mm
Ultracoustic panel 12/25R DLV	325 mm

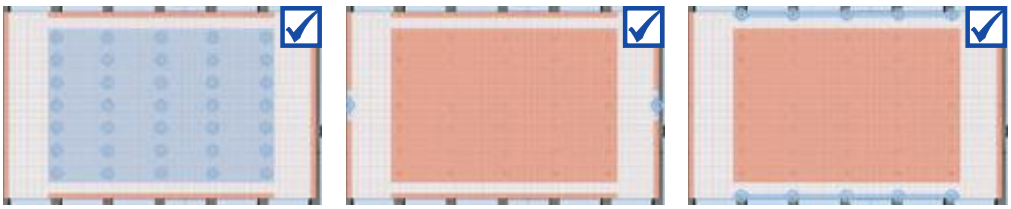
Screws must be put into panel at right angles and countersunk head screwed down to 0.5 mm below visible surface of ceiling panel.



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.



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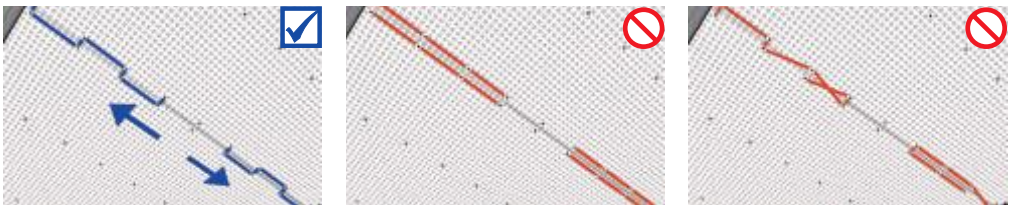
Take note of panel labelling (stamp) and mount in direction of reading (all stamps should point in same direction).

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:

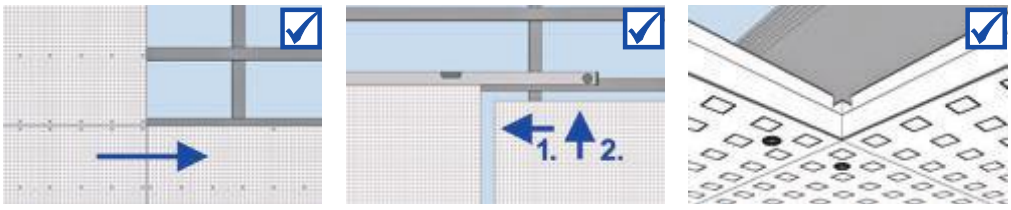
- Take movement joints of building structure into account
- Plan to include expansion joints after approx. every 10 m or approx. 100 m²
- Cardboard layer must not be penetrated by screws, but merely displaced downwards
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Installed ceiling surfaces must not be connected to perimeter walls
- Place any damping (mineral wool layer) 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.

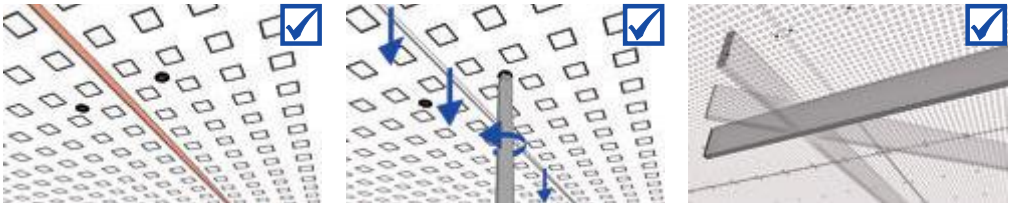


Install ceiling panels first lengthways, then crossways, resulting in cross arrangement on ceiling. Cover remaining areas in same manner, working from centre of room outwards.

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

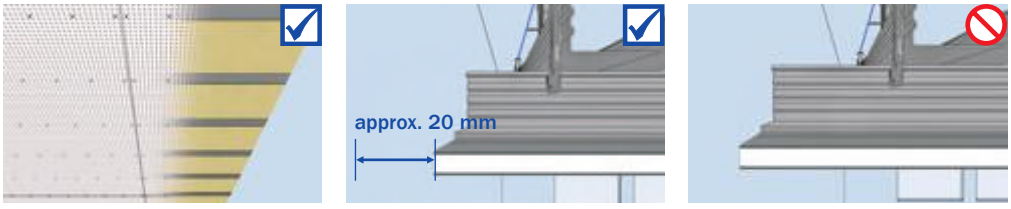


After all panels have been installed, recheck that all joints are level and adjust, if necessary, using a screwdriver. Then check with a straightedge.



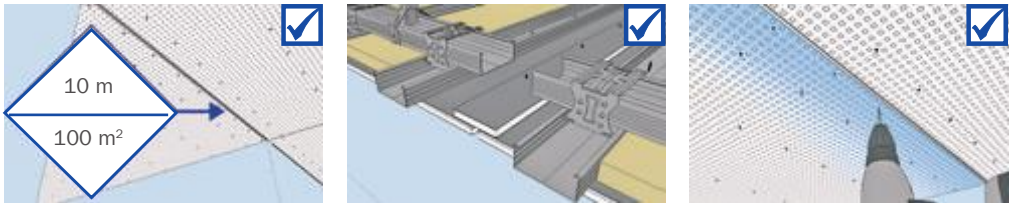
Place any damping layer directly onto back of ceiling panels

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

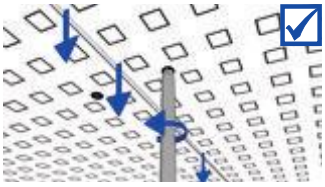


Provide for expansion joint of 5 to 10 mm every 10 linear metres / 100 m².

Additional board strip above joint must be screwed down on one side only.



Check panel joint areas and screw heads and adjust any height discrepancies using a screwdriver.



Prime ceiling surface with Vogl Supergrund LF. Subbase must be dry and free from dirt and separating substances. Apply primer in undiluted state using lambskin roller.

Drying time: 12 h

General site conditions / Manufacturer's instructions:

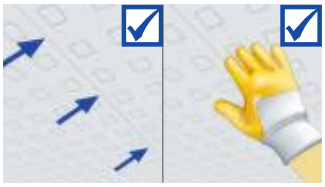
- Store primer, adhesive and acoustic plaster in ** frost-free environment **
- Reclose containers for extended work breaks
- Stir all materials well before use
- Working temperature should be at least +18 °C and job site temperature not below +10 °C
- Relative humidity: 40 - 80 %
- Self-levelling, cement or asphalt screeds must be fully dried – make sure there is no residual moisture
- Avoid shock heating or cooling of rooms during installation or drying times to prevent cracking
- Store away from sun and heat

Apply VoglToptec Special Adhesive generously and evenly using lambskin roller and immediately install plaster base fleece into wet adhesive bed pushing it in with a wallpaper smoother. **Do not** spray-apply adhesive.

While applying fleece, make sure that special adhesive has not started to dry as this can cause bubbles. Place further lengths of plaster base fleece overlapping (5 - 10 cm) and separate using a double cut.

Check surface and joints. There must not be any adhesive on visible face of fleece (light marks).

Drying time: Min. 12 h



Stir VoglToptec Nano SF acoustic plaster slowly before use (2-3 minutes).

VoglToptec Nano SF = ready-mix

Final coating of acoustic plaster - Manufacturer's instructions:

- Machine requirements: Plaster spray system with worm conveyor (e.g. Strobot 204S) or delivery pump (e.g. InoBeam M8) and high-performance compressor
- Spray distance (nozzle to ceiling) approx. 700 - 900 mm
- Air flow 1.5 - 2.0 bar
- Nozzle size 4 - 6 mm (depending on desired texture)
- Application quantities:

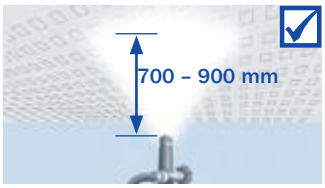
1st spray application approx.	700 g/m²
2nd spray application approx.	900 g/m²
3rd spray application approx.	1,100 g/m²
Total approx.	2,700 g/m²

Optimum speckling pattern must be adjusted depending on job site (using brown cardboard, etc.).

Apply first layer by spraying-on acoustic plaster in circular motion.

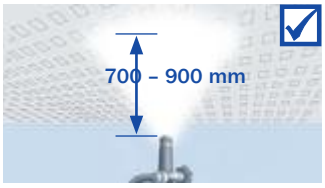
Attention – avoid development of paint mist; holes must remain visible.

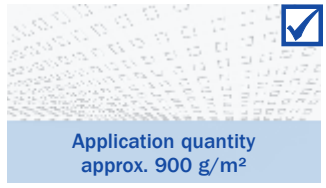
Drying time: 5 h



After drying period, apply 2nd coat to ceiling, also in circular motion; holes still slightly visible.

Drying time: 12 h





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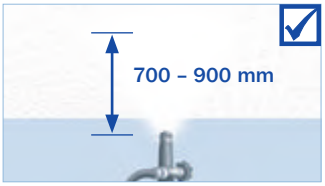
After drying period, apply 3rd coat to ceiling, also in circular motion; holes no longer visible.

Drying time: 12 h

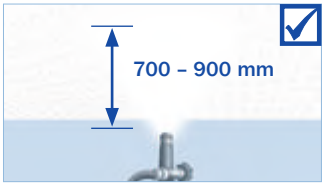


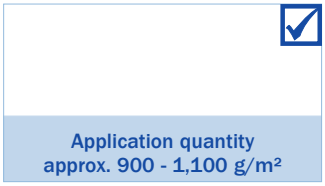
Renovation / renewal of acoustic plaster coating

To remove any soiling, ceiling can be given another machine-applied coating. Before application, sweep ceiling with a fine hair broom.

Attention: Applying paint will affect acoustic properties of ceiling!

With circular motions, apply another coat to ceiling surface. Depending on degree of soiling, application quantity of acoustic plaster can vary.





Quantities required for final coating per m² (not considering loss or waste)

Item number	Item description	Unit	Quantity
90501300	Vogl primer Supergrund LF	l	approx. 0.15
90604000	VoglToptec Special Adhesive	kg	approx. 0.30
90605000	VoglToptec plaster base fleece	m²	approx. 1.00
90602000	VoglToptec Akustik Nano SF	kg	approx. 2.70 - 3.00
90602100	VoglToptec Akustik Color Nano SF	kg	approx. 3.00 - 3.50

Acoustic plaster ceiling – VoglToptec system

Acoustic plaster ceiling as suspended ceiling structure, one side clad with VoglToptec acoustic plaster system panels, backed with acoustic fleece, mounted to a rigid ceiling framework of galvanised metal profiles, hung with flush and horizontally aligned suspended brackets and installed using fixing materials approved by the building authorities, with or without damping layer depending on building physics requirements. Installation in accordance with manufacturer's instructions, including all connection and jointing work as well as connection and fixing materials.

Ceiling system to accommodate an on-site application of machine-applied plaster consisting of VoglToptec plaster base fleece and final coating using VoglToptec acoustic plaster in accordance with manufacturer's instructions.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: 325/334 mm*

Covering:

Acoustic plaster system panels are perforated ceiling panels in accordance with EN 14190, backed with acoustic fleece, one layer 12.5 mm, laid edge-to-edge and fixed to the framework using perforated panel screws SN 30, with screw spacing max. 170 mm. Observe manufacturer's installation guidelines.

Perforation pattern / perforated area / mass per unit area:

- Reflexio / 0.0 % / 10.0 kg/m²*
- 8/18R / 15.4 % / 8.5 kg/m²*
- 12/25Q / 22.9 % / 7.7 kg/m²*
- Ultracoustic 12/25R DLV / 33.9 % / 6.5 kg/m²*

Distributed load:

- less than or equal to 0.15 kN/m²*
- less than or equal to 0.30 kN/m²*

Joint finishing:

VoglToptec system in accordance with manufacturer's instructions, "edge-to-edge" installation principle, filler-free. Sand down area of screw heads and panel joints level, paying attention to leave the screw heads unsanded. No filling required. Observe manufacturer's installation guidelines.

Subbase:

Suspension height:	h = mm
Installation height:	h = mm
Room height:	h = mm
Insulation thickness:	th = mm

Subsequent application: Final coating in VoglToptec system

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

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VoglThermotop

Highly Efficient
in Energy Conservation

Modern heating and cooling from above

The use of cooling and heating ceilings

Today's buildings have to satisfy a wide variety of demands. The focus is always on the users of the building. The building must provide the best possible conditions for them to work efficiently and productively. People can achieve optimum performance only in an optimum environment.
A crucial requirement for pleasant and performance-oriented work is an efficiently designed workplace. A prevalent aspect here is the feel-good factor. It is achieved by maintaining agreeable room temperatures.
This condition is realised by integrating cooling and heating systems with high radiation effect into suspended ceilings. In this process, ventilation is reduced to the absolutely necessary and induced with the lowest possible speed. An excellent way to realise this is to use the VoglThermotop system. Together with our system partner, RiLO Systemtechnik, we support you in your cooling and heating ceiling project from the design through the tendering process to the execution.

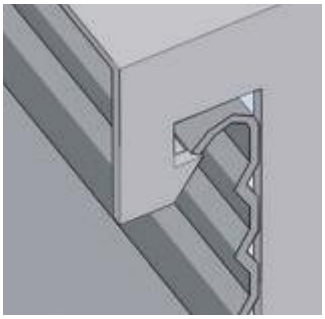
System description, VoglThermotop

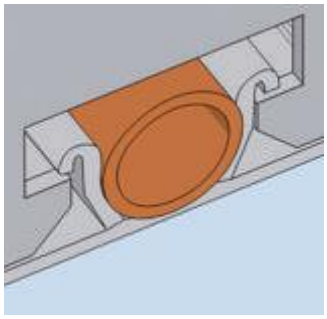
All system components of the VoglThermotop system are perfectly harmonised to ensure optimum application and result reliability.

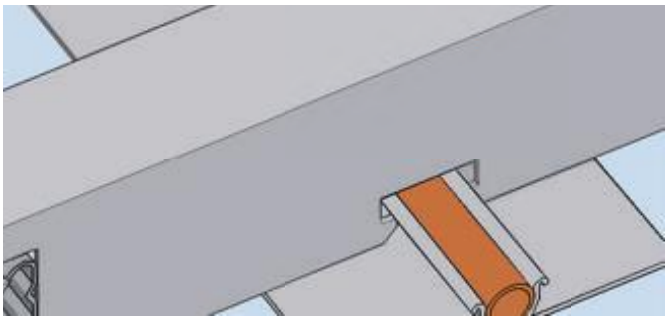
Following the framework installation, GKH system suspenders are used to attach the cooling/heating coils to the framework. The GKH system suspender locks in place in the CD profile audibly. This way of locking the coils ensures their accurate positioning within the framework.

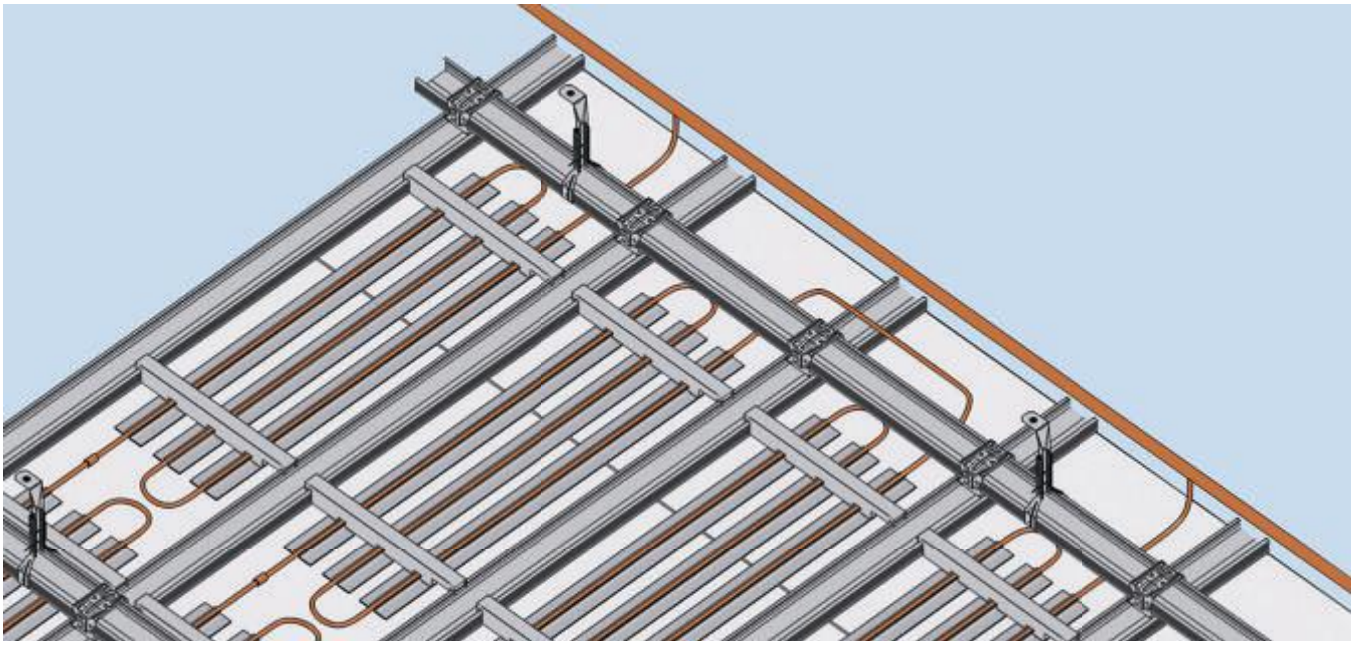
The special "RiLO GKH system suspenders" which hold the copper tube bundle and are locked into bearing framework between the CD profiles are structurally pre-stressed – which ensures the contact between the heat-conducting profiles and the covering panels.

The heat is transmitted by heat conducting profiles shaped in a way to both hold the copper tube and ensure the greatest possible area of contact to the outside of the copper tube.
The heat conducting profiles are located on the straight stretches of the tubing, in between the opposite 180-degree elbows.









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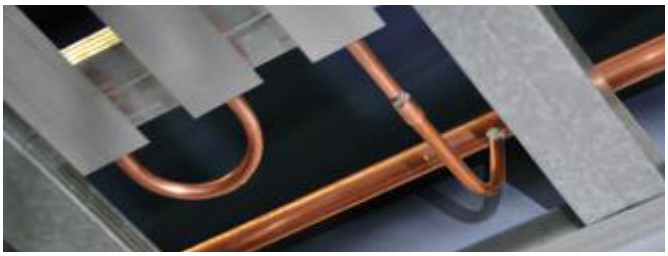
Less energy, more performance

To conserve the fossil resources, it makes good sense to put major energy consumers on a diet. Highly efficient systems are in demand for the heating and cooling of buildings. The VoglThermotop system combines acoustic design ceilings with the additional function of a very effective cooling and heating ceiling. Compared to conventional air handling systems, the operating costs can be reduced by up to 40 %, and, from an aesthetic point of view, the harmonious appearance of the ceiling is not compromised. When in comes to shape and functionality, VoglThermotop offers unlimited freedom of design.

The cooling and heating ceiling for maximum efficiency:

- Perfectly easy to install the pre-assembled units in the finished ceiling framework by simply hooking and snapping them into place
- Tested complete system from one source with integrated result reliability
- Available as smooth cooling and heating ceiling, perforated cooling and heating ceiling, cooling and heating ceiling with acoustic plaster system or floating cooling and heating ceiling
- Individual design and execution to achieve maximum efficiency from the surfaces available for activation
- Low operating costs due to low-maintenance complete system, minimum susceptibility to failure thanks to the use of long-time tested materials
- Highly flexible system for multi-functional expansions – such as lighting, sound and safety systems as well as more building services



Flush level installation

The completely pre-assembled coil units are simply hooked into the bearing grid from above.

Undisrupted flow

All tube ends are protected for transport and intermediate storage. Tube ends free of chips from cutting, with no outer burr or deformation, ensure a perfect permanent bond in the brazing process.

Primary profiles are rigidly hung from structural soffit with suspended brackets using fixing materials approved by the relevant building authorities. Centre distance and number of suspended brackets, as well as fixation, are subject to site requirements and EN 13964/ DIN 18181. CD 60/27 secondary profiles are attached to CD 60/27 primary profiles using cross connectors.

CD 60/27 are extended using straight connectors. For primary grid profiles, always ensure that joint is close to a suspended bracket (max. 100 mm). For primary and secondary profiles, joints are generally offset from each other.

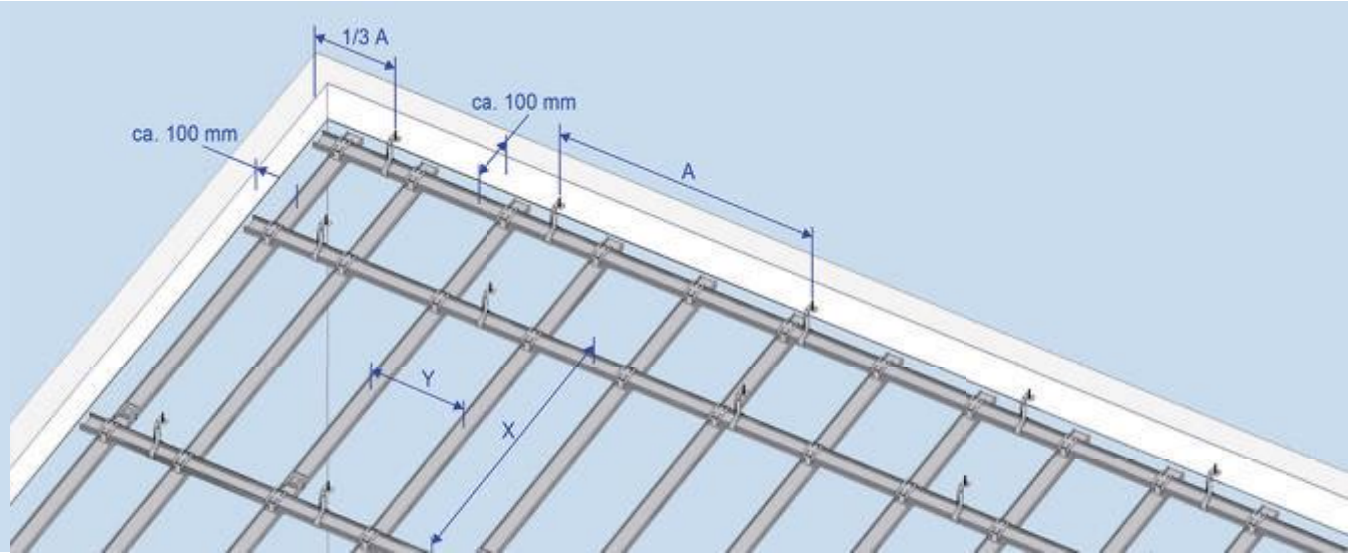
Plasterboards should be installed in accordance with EN 13964/ DIN 18181 and manufacturer's guidelines.

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

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

VoglThermotop framework								
Technical data	**Unit**	**Perforated panel ceiling**						
Panel thickness	mm	10.0						
Distributed load	kN/m²	≤ 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
VoglToptec (Acoustic Plaster System) 8/18R 12/25Q Reflexio (smooth)	mm	334
VoglToptec (Acoustic Plaster System) Ultracoustic panel 12/25R DLV	mm	325



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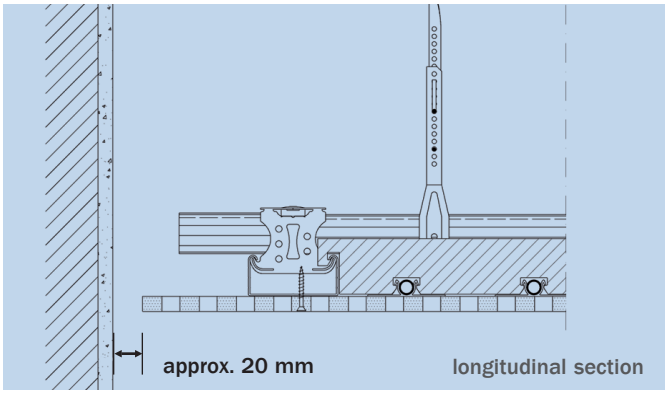
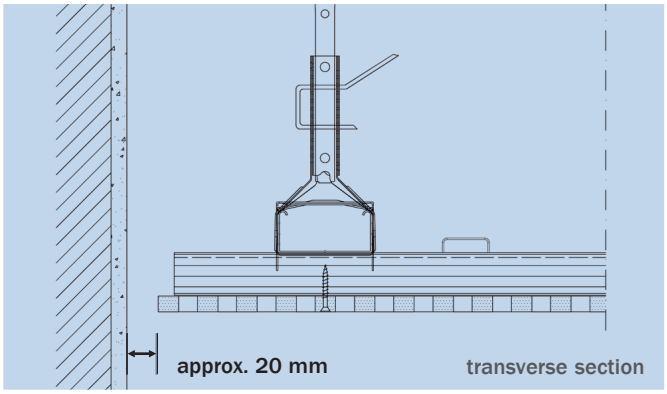
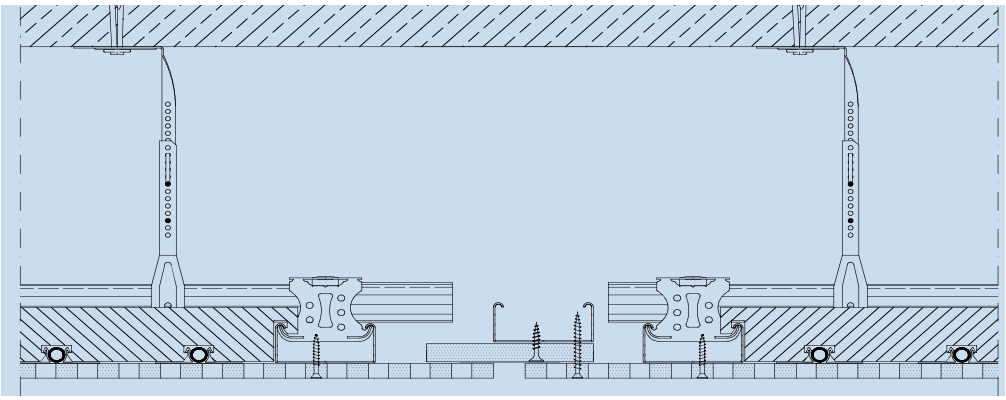




Wall connection:

Due to the thermally induced expansions of the cooling/heating ceiling, we recommend creating wall connections in a way to allow the absorption of movements, for example by providing an open shadow gap (approx. 20 mm).

Please contact us if you require additional standard details concerning the VoglThermotop system.



Expansion joints:

In order to avoid cracking in ceiling surface, provide appropriate expansion joints for cooling ceilings every 10 running metres/100 m² and for combined cooling and heating ceilings even with a side length of 7.5 linear metres.

Framework must be completely severed (see illustration) and panel strips above joint fixed to one side of ceiling structure only.

Material required per m² based on a ceiling of 100 m² (10 m x 10 m, not considering loss or waste, approximate values):

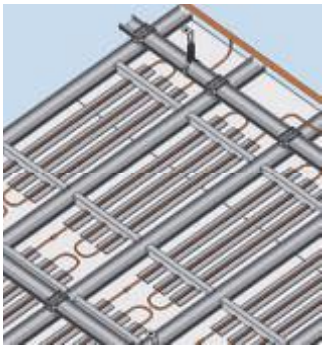
Metal framework, suspended bracket centre distance 1,000 mm, primary profile spacing 900 mm, secondary profile spacing 333 mm			
Item number	**Item description**	**Unit**	**Quantity**
Fixation			
Standard	Safety nail, DN 6 x 35	piece	1.3
52150000	Perforated panel screw, gold, TB 23	piece	22
Suspended brackets			
2016X000	Direct suspended bracket 50/120/200 and	piece	1.3
50809000	Tapping screw LN 3.5 x 9.5	piece	2.6
	or		
20128 / 20151	Vernier hanger / vernier bottom part and	piece	1.3
25501000	Vernier security pin and	piece	1.3
25XXX000	Vernier top part, 200 - 2,000 mm, custom lengths on request	piece	1.3
Profiles and connectors			
100XX000	CD profile 60/27/0.6 rK, l=XXX mm	m	4.1
20159000	Connector, lengthwise, CD 60/27	piece	0.8
20135000	Cross connector, CD 60/27	piece	3.3

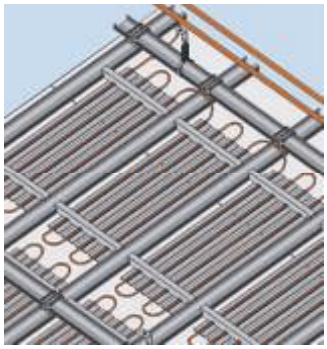
Various designs and surfaces – individually tuned to your project

Whether low, medium or high cooling capacity, whether perforated or smooth surfaces: All options are open to you with the VoglThermotop cooling and heating ceiling. The variations our system offers suit your requirements perfectly and guarantee you a complete solution from one source, ideally tuned to your project.

Maximum efficiency through individual coil configuration per area

Versatility and flexibility are given through the use of three- or four-row cooling coils combined with various widths of heat conducting profiles.

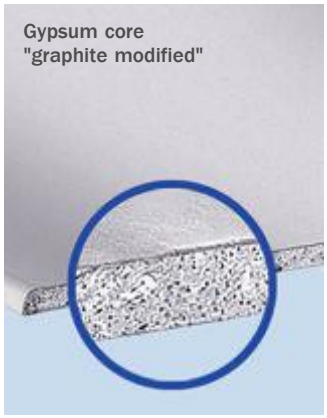




The right type of panel for every demand

When designing your project, you have the choice between two panel types – the VoglThermotec panel or the VoglThermotec panel PLUS. With a panel thickness of 10.0 mm, both panels have an increased thermal conductivity. The VoglThermotec panel PLUS is, moreover, equipped with a graphite-modified gypsum core for enhanced performance.

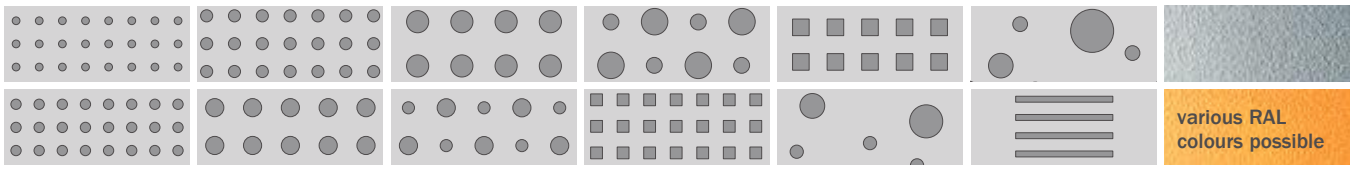
VoglThermotec panel



VoglThermotec panel PLUS

Surface diversity into the bargain

Whether you desire one of our 12 perforation patterns or a finish with VoglToptec Acoustic Plaster System – you have all options open with the VoglThermotop cooling and heating ceiling system. Of course, it is also no problem to have your ceiling finished as a smooth plasterboard ceiling.



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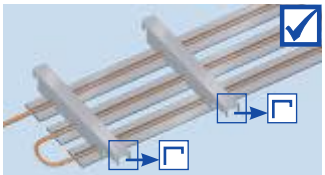
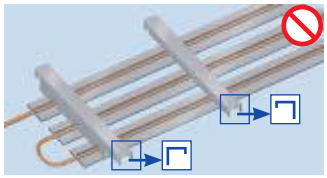
Cooling coils and GKH system suspenders are delivered in separate packaging. GKH system suspenders are installed on site.

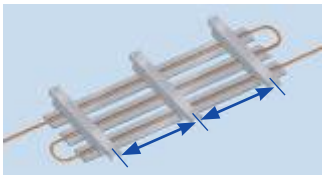
Note:
Observe system specifications by RiLO Systemtechnik when installing tubing and commissioning cooling and heating ceiling system! Furthermore, we refer to the requirements and guidelines of the Federal Registered Association of Surface Heating and Surface Cooling Systems.

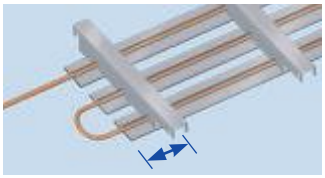
Slip GKH system suspenders onto cooling coils evenly, with cooling coil holders always pointing in same direction.



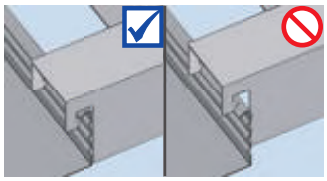


Centre distances of the GKH system suspenders < 900 mm; maximum distance to edge of cooling coil < 100 mm.

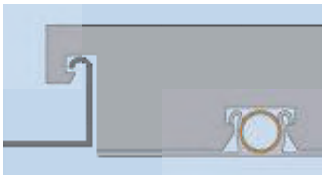




Hook cooling coil into CD secondary profile at an angle while pushing it up evenly and snapping it into place. Check to make sure GKH system suspender has “clicked” into CD profile, otherwise snap it in manually.



Cooling coil is pushed upward minimally during panel installation so as to provide full contact with Thermotec panel.



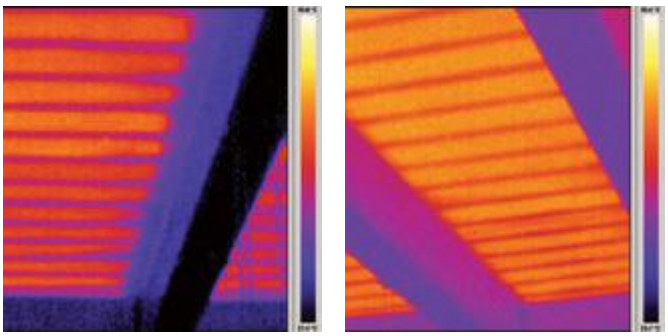
The specified performance values of the VoglThermotop and VoglThermotop PLUS systems are based on the following:

Cooling performance of a room cooling surface

Determination of performance values according to DIN EN 14240:2004-04

The tests in accordance with DIN EN 14240 were carried out by a certified, recognised German testing institute.

(The figure on the right shows a thermographic image when heating)



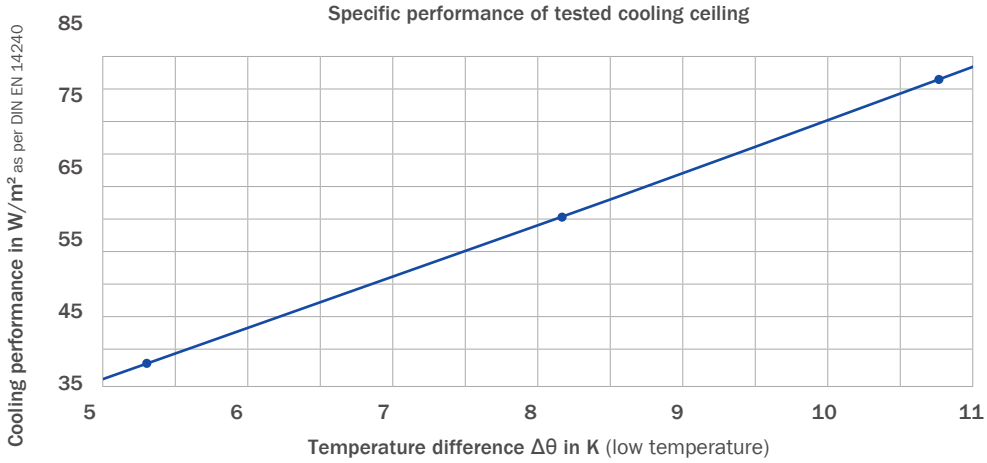
VoglThermotop, smooth, RiLO coil CU50-GK

Type: Non-perforated plasterboards 10 mm with meander elements of heat conducting aluminium profiles with pressed-in meandering copper tube

Cooling performance per m² as per DIN EN 14240

$\Delta\theta_N$ = 8 K ⇨ **59.2 W/m²**

ΔθN = 10 K ⇨ **75.0 W/m²**



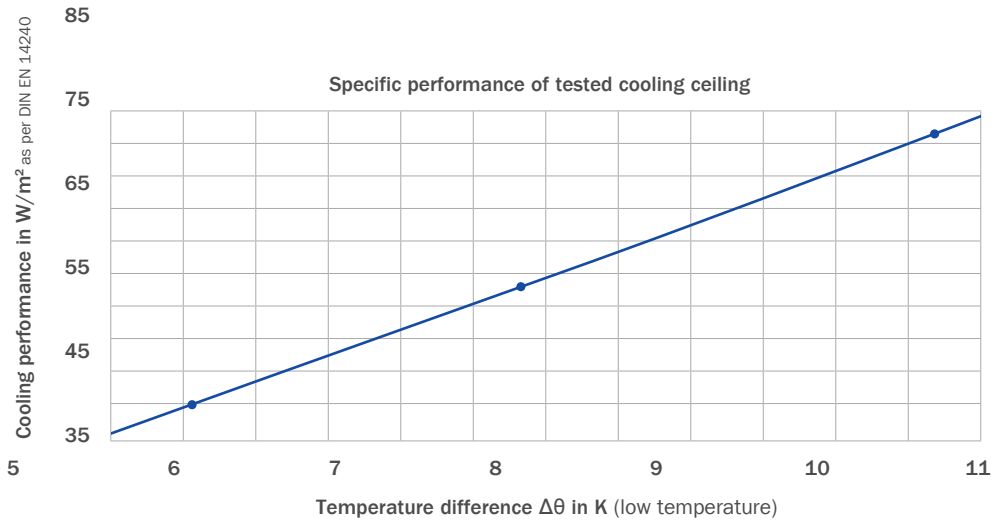
VoglThermotop, perforated, perforation pattern 12/25Q, RiLO coil CU50-GK

Type: Perforated plasterboards 10 mm, perforation 12/25Q, with meander elements of heat conducting aluminium profiles with pressed-in meandering copper tube

Cooling performance per m² as per DIN EN 14240

$\Delta\theta_N$ = 8 K ⇨ **59.2 W/m²**

ΔθN = 10 K ⇨ **75.1 W/m²**



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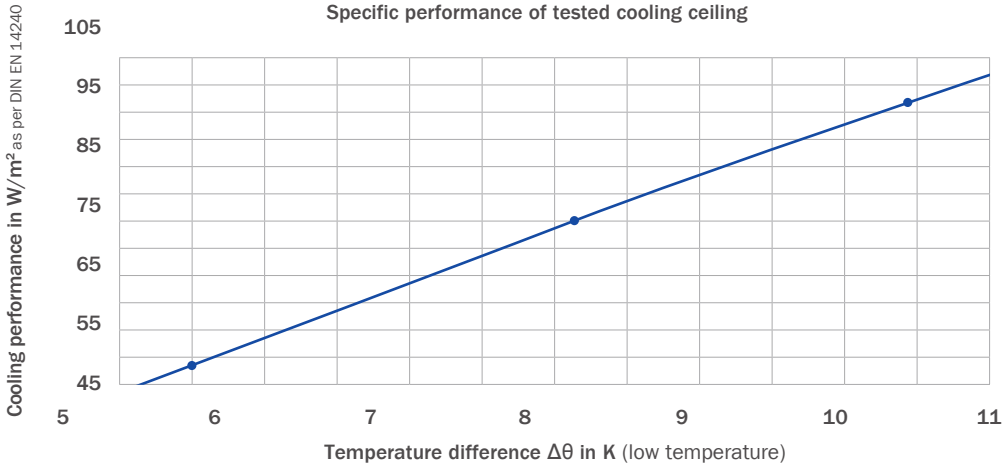
VoglThermotop PLUS, smooth, RiLO coil CU50-GK

Type: Non-perforated plasterboards 10 mm (including share of graphite) with meander elements of heat conducting aluminium profiles with pressed-in meandering copper tube

Cooling performance per m² as per DIN EN 14240

$\Delta\theta_N$ = 8 K ⇨ **72.8 W/m²**

ΔθN = 10 K ⇨ **92.8 W/m²**



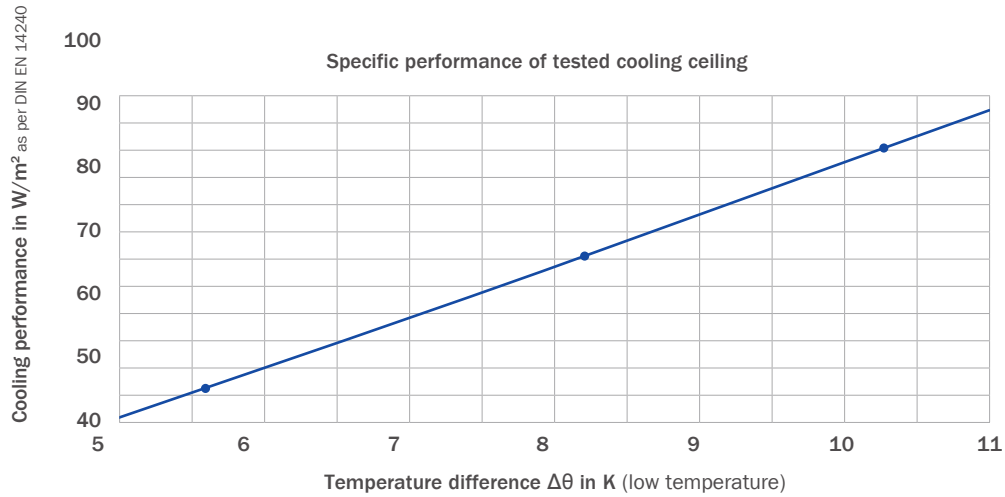
VoglThermotop PLUS, perforated, perforation pattern 12/25Q, RiLO coil CU50-GK

Type: Perforated plasterboards 10 mm (including share of graphite), perforation 12/25Q, with meander elements of heat conducting aluminium profiles with pressed-in meandering copper tube

Cooling performance per m² as per DIN EN 14240

$\Delta\theta_N$ = 8 K ⇨ **68.7 W/m²**

ΔθN = 10 K ⇨ **87.2 W/m²**



Please contact us if you require more performance values of our system, (e. g. calculations of heating performance).

FAQ / Frequently Asked Questions

The performance description of the cooling and heating ceiling refers to 60 % radiation and 40 % convection. What does that mean with respect to the finished object?

The radiation proportion of a cooling ceiling is ideally approx. 60 %. The remaining proportion of 40 % is performed by means of free convection. In this process, the air warmed up by the heat sources rises, i.e. natural buoyancy causes the developed heat not dissipated due to radiation exchange to flow below the ceiling. This is why we generally recommend an open shadow gap of approx. 20 mm for cooling ceilings. The warmed-up air is cooled there and falls back diffusely, mixed with room air, into the occupied zone.

What is the minimum structural height that has to be considered in the design process for installing a cooling and heating ceiling?

At least 65 mm overall height must be available for the installation. Experience has shown that a structural height of approx. 150 - 200 mm is recommendable since the installation of lighting, safety and service equipment as well as access for inspection also have to be considered.

Is a cooling and heating ceiling sufficient for fully air-conditioning a room?

Cooling and heating ceilings contribute essentially to the air-conditioning of modern buildings in an energy-efficient manner. But depending on the project, it may be necessary to combine them with a ventilation system and/or additional cooling and heating surfaces. For this reason, specialist engineers have to be involved in the detailed planning to achieve the best possible result for the end user.

Does the effect of the acoustic ceiling / acoustic plaster ceiling in terms of sound absorption remain unchanged despite the cooling and heating system installed on its back?

The cooling and heating system installed behind the acoustic ceiling (heat conducting profiles resting on the panel and reducing the effect of the acoustic fleece) does have a negative impact on the acoustic performance of the ceiling. We have, therefore, commissioned both TÜV Rheinland and LGA Products GmbH Nuremberg to conduct several echo chamber measurements with and without heat conducting profiles in order to determine the deviation. The tests have revealed that the acoustic performance of the ceiling is reduced by an average of approx. 15 - 20 %.

Does the cooling and heating system at the back of the panel pose an increased risk of cracking?

There is no increased risk of cracking if our manufacturer's instructions for the installation of framework and panels are observed (e.g. expansion joints). However, we generally recommend to use our tested complete systems from Vogl Deckensysteme.

What fire rating class does the finished cooling and heating ceiling system fulfil?

Framework and cooling system can be classified as fire rating A1 in accordance with the EN standards. The acoustic design / Thermotec panels below fulfil fire rating A2,s1,d0 as per EN 13501.

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VoglThermotop system

Plasterboard cooling and heating ceiling system VoglThermotop, for the dissipation of thermal loads through radiation by approx. 60 % and through convection by 40 %. Cooling and heating coils are hooked in between CD secondary profiles using special GKH system suspenders; rigid framework of galvanised metal profiles is hung with horizontally and vertically aligned suspended brackets and installed using materials and fixtures approved by the relevant building authorities, all in compliance with manufacturer's instructions.

System structure

Framework in accordance with DIN 18181:2007-02

Profiles:

Pressure-resistant design made from galvanised sheet steel profiles CD 60/27 as primary and secondary profiles in accordance with EN 14195

Suspended brackets:

- Suspend with vernier systems (top part, vernier hanger)*
- Suspend with vernier systems (top / bottom part)*
- Suspend with direct suspended brackets*
- Use fixing materials approved by the relevant building authorities.

Connection:

For primary-secondary profile connection with cross connectors, use suspended brackets and cross connectors in accordance with EN 13964.

Suspended bracket centre distance: max. 900 mm,
Primary profile centre distance: max. 1,100 mm,
Secondary profile centre distance: _____ mm* (depending on panel type)

Cooling and heating system:

Cooling and heating system in accordance with RiLO processing instructions and technical documentation.

Cooling and heating coils are hooked in between the CD secondary profiles using special GKH system suspenders. The cooling system thus hangs approx. 3 mm below the bottom edge of the secondary profile.

This results in a homogeneous, heat-conducting contact between the RiLO system and the plasterboard panel.

Design of coil: Type CU50-GK* / type CU65-GK*
Design of copper tube: 10 mm* / 12 mm*

Technical data:

- Cooling performance active as per EN 14240: _____ W/m²
- Room temperature:_____ °C
- Cooling water supply: _____ °C
- Cooling water return:_____ °C
- Designed cooling performance with regard to the active surface as per EN 14240: _____ W/m²
- Heating performance as per VDI 4706:___ W/m²
- Room temperature:_____ °C
- Hot water supply: _____ °C
- Hot water return: _____ °C
- Designed heating performance with regard to the active surface as per EN 14240: ___W/m²

Follow-up services:

- Covering with VoglThermotec panels*

Complete system: Vogl Deckensysteme, or equivalent

* Delete as applicable

System Training

Our know-how for your result reliability

Topic:

Acoustic plaster system VoglToptec – Applications and processing

Description

Acoustic plaster ceilings provide homogeneous surfaces and numerous possibilities for designing high-end ceilings. Thanks to the multiple system variations (e.g. in conjunction with climate control ceilings) and the complete assortment of accessories "from one source", the VoglToptec system offers unique application and result reliability. In addition to theoretical fundamentals, our system training offers mainly practical guidelines for the installation work on site.

Topics

- Various systems and special panel types (e.g. Thermotec panels)
- Panel arrangement and sensible space division for installation
- Correct assembly and adjustment of panel joint areas
- Frequent wall connections and how to execute them properly
- Expansion joints in ceiling area /regulations and recommendations
- Integrated ceiling components – fundamentals and problems
- Technical equipment required for reliable workmanship
- Coating work (priming, wallpapering, acoustic plaster)
- How to avoid typical processing errors in acoustic plaster ceilings

Targets

After completion of the seminar, the system training participants shall

- understand and be able to apply current standards and regulations
- recognise and avoid the typical installation errors
- be able to perform the installation and coating of acoustic plaster ceilings

Target group

This system training is equally suited for site and project managers as well as for drywall installers and interior construction workers. Likewise, for painting contractors whose work includes "acoustic plaster coating". Also, technically adept employees in sales or from the building material dealers' can extend their knowledge about the proper installation of ceiling structures.

A registration form is available on page 191. You have any questions in advance? We are glad to assist you! Phone: +49 9104 825-100

Registration is possible by e-mailing info@vogl-ceilingsystems.com directly or by fax to +49 9104 825-280.
You can also find all information on training under www.vogl-ceilingsystems.com

VoglThermal Tiles

Simple and *Modular*

A cooling and heating system for accessible ceiling tiles

Our system partner

The modular Thermal Tile
for modern interior design

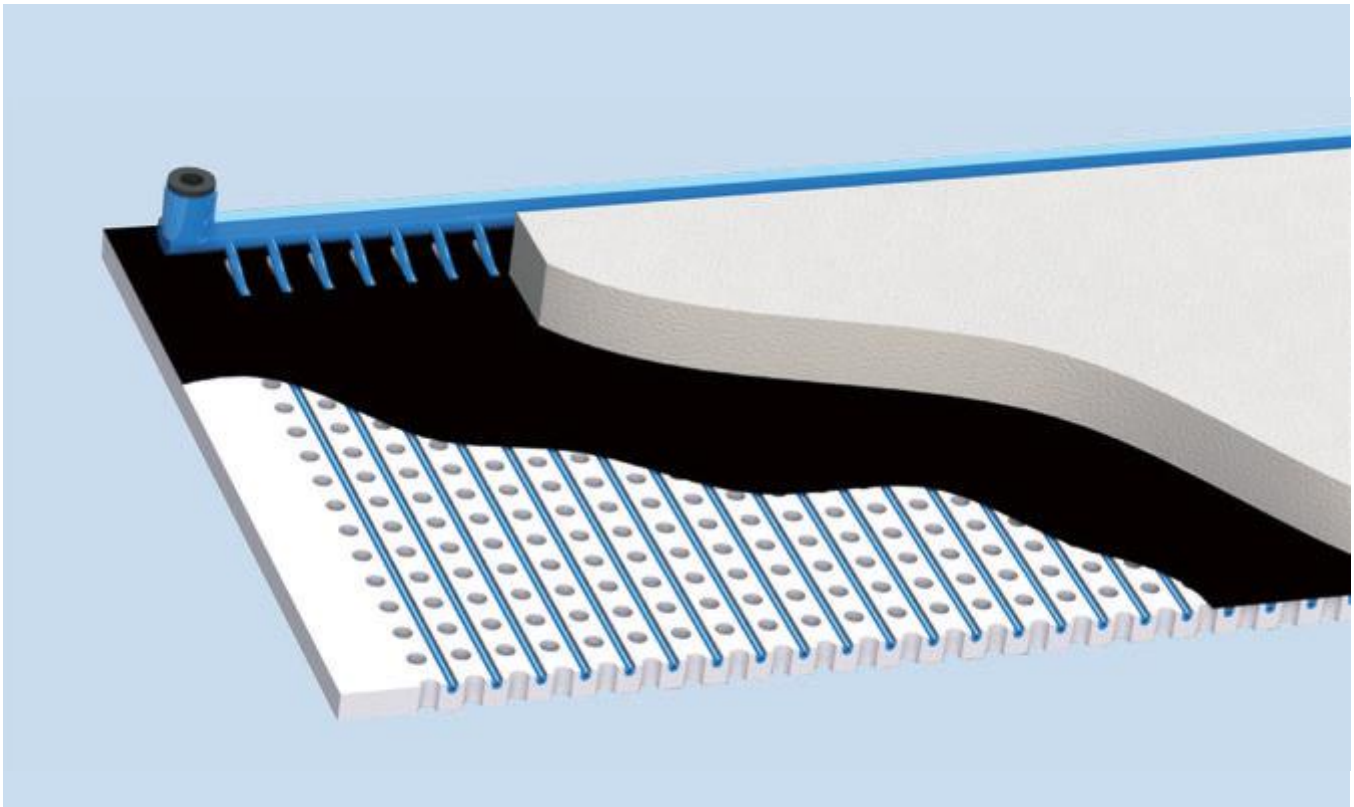
Modern ceiling design entails complex tasks in terms of form, colour and performance. Accessibility in conjunction with integrated cooling and heating function is a frequent issue.

Together with our system partner, Clina Heiz- und Kühlelemente, we have developed a cooling and heating ceiling system that meets these requirements: VoglThermal Tiles.

This product scores not only for its multiple design possibilities, but also for combining a high level of thermal comfort with excellent sound absorption values.

Benefits of VoglThermal Tiles:

- High cooling and heating performance
- Excellent sound absorption values
- Easy-to-install system with plug hoses (included)
- Prefab ceiling manifolds with plug couplings
- Including high-quality acoustic fleece and insulating material lining
- Factory-applied white surface finish
- Various perforation patterns in round and square perforation to choose from
- Also ideal for renovation projects



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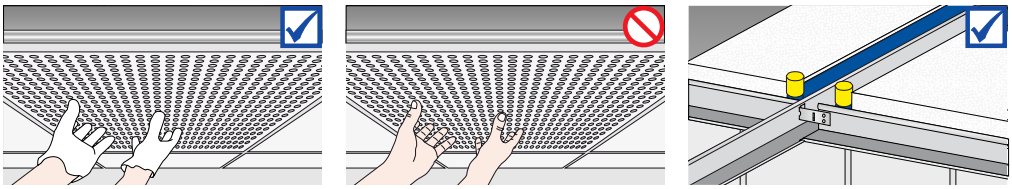
Insert active Thermal Tiles into the T-profile structure.

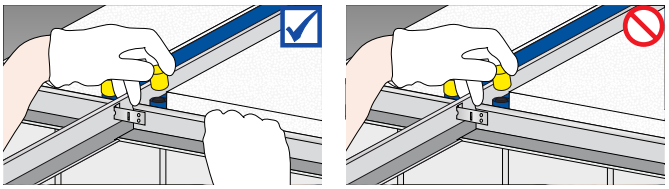
Important: Wear clean fabric gloves!

Connections of capillary tube mats must be side by side.

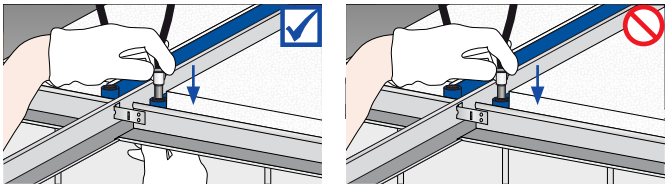


Remove yellow protective cap from capillary tube mats.

To do so, push down tile by hand at T-profile structure.



Plug in connection hoses applying counterpressure with other hand from below (wearing fabric gloves).

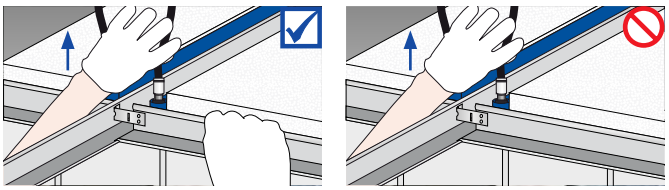


Framework (T-profile system):

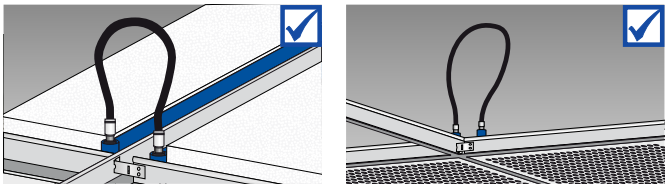
Please observe permissible suspended bracket spacing for mass per unit area of ceiling tiles.

We recommend rigid suspension in vernier system.

Check connection hoses for proper plug-in depth and grip. To do so, push down tile at T-profile and try pulling hose back a little.

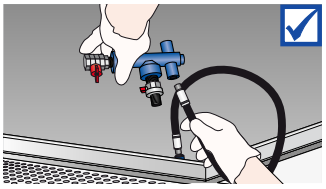


Connection hoses must come to lie in ceiling void neatly, without kinking or twisting.



Hook up to ceiling manifold using flexible hose which can be freely positioned within ceiling void.

Following a pressure test, close ceiling completely using inactive end tiles.

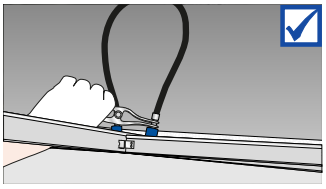


Technical data of capillary tube mats:

Material:	PP-Random-Copolymerisat, colour: blue
Capillary tubes:	4.3 x 0.8 mm; capillary tube spaced 18 or 25 mm apart
Water volume:	approx. 0.4 l/m² mat surface
Test pressure:	20 bar (factory set)

If hoses need to be detached, use special detachment pliers to avoid damage.

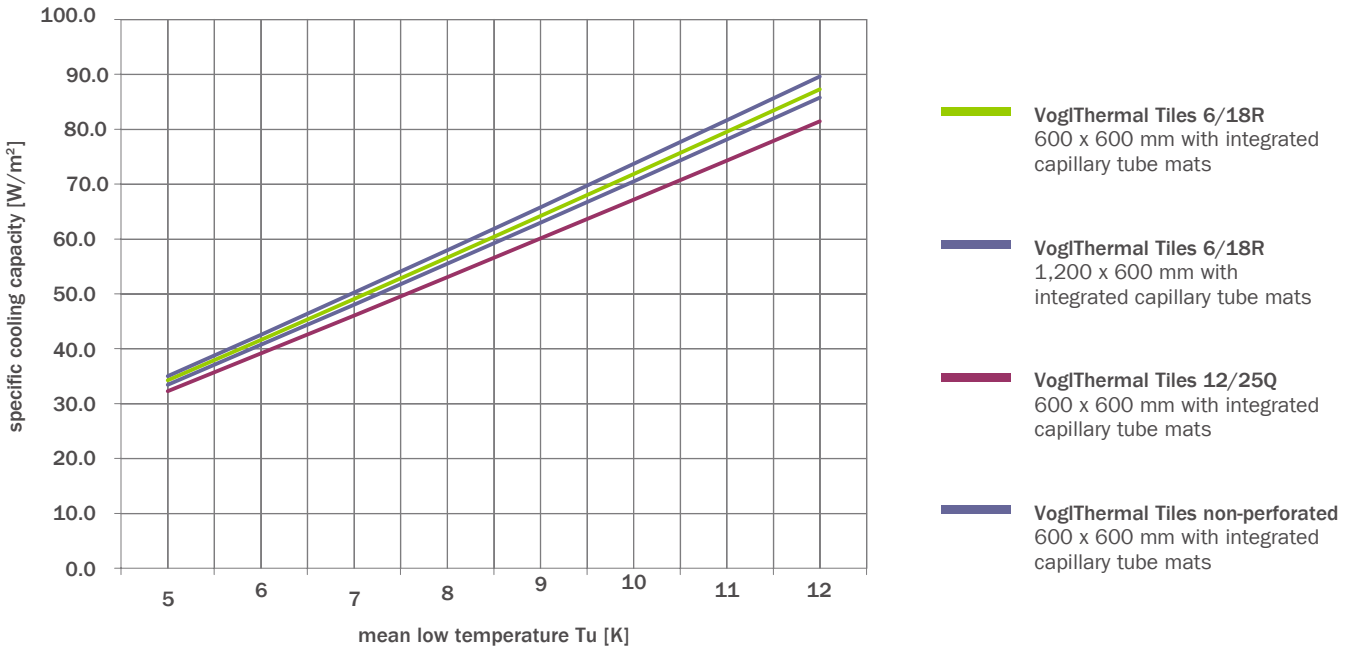
Important: Drain entire ceiling section beforehand.

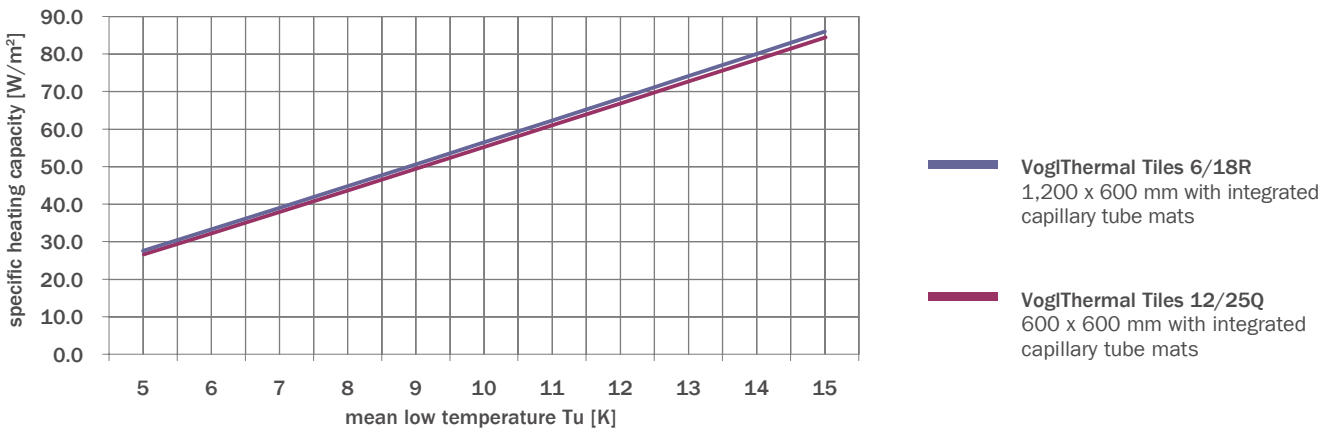


Pressure test requirements:

Conduct pressure test with compressed air (3 bar) observing Clina manufacturer's guidelines, incl. required test report. Further information is available upon request.

	Measurement in compliance with DIN EN 14240		Measurement following DIN EN 13045 - 5 (draft)
	Cooling performance q standard = 8 K with regard to active surface	Cooling performance q standard = 10 K with regard to active surface	Heating performance q standard = 15 K with regard to active surface
VoglThermal Tiles perforated 6/18R 600 x 600 mm with integrated capillary tube mats	56.6	71.8	85.1
VoglThermal Tiles perforated 6/18R 1,200 x 600 mm with integrated capillary tube mats	55.5	70.5	-
VoglThermal Tiles perforated 12/25Q 600 x 600 mm with integrated capillary tube mats	53.0	67.2	-
VoglThermal Tiles non-perforated 600 x 600 mm with integrated capillary tube mats	58.0	73.7	85.5





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System - VoglThermal Tiles

Closed heating/cooling radiation surface in optically sophisticated design for supply/discharge of sensitive thermal load, approx. 60 % through radiation and approx. 40 % through convection, as suspended ceiling tiles in basic system with heating and cooling function, accessible, for insertion mounting in exposed, stove-enamelled metal framework, with factory-mounted insulating material lining layer according to building physics requirements, installation in accordance with manufacturer's instructions, shall be furnished and installed.

VoglThermal Tiles are perforated plasterboards precision manufactured in compliance with EN 14190, th = 12.5 mm, with sharp edges, backed with sound-absorbing fleece and insulating material lining 30 mm (WLG 040), exposed side with factory-applied white finishing coat.

Clina PP capillary tube mats with plug connections for hooking up flexible hoses are factory-integrated into Thermal Tiles invisibly. Owing to their small inner diameter, capillary tubes are self-ventilating. Required, uniform pressure loss within active area must be ensured.

Framework:

Metal framework made of T 15/T 24 rails as main and cross profiles shall be hung from structural soffit with flush and horizontally aligned suspended brackets and installed using fixing materials approved by the building authorities. Install wall connection profile at the perimeter walls flush and horizontally aligned following the ceiling line.

Framework as per DIN EN 13964
Profiles: T 15/T 24 rails as main and cross profiles.

Wall connection profile:

- L-angle, approx. 25/20 mm*
- Step angle, approx. 33/30/15 mm*

Suspended brackets:

- Mount to structural soffit in vernier system
- Use fixing materials approved by relevant building authorities

Profile coating:

Exposed surfaces are factory stove-enamelled. Colour: white

Thermal Tiles consisting of:

Perforated plasterboard
Processed plasterboard as per EN 14190

Dimensions:	600 x 600 mm / 625 x 625 mm / 1,200 x 600 mm / 1,250 x 625 mm*
Perforation:	6/18R, 8/18R, 12/25R, 12/25Q*
Thickness of inlaid tiles:	12.5 mm
Backed with acoustic fleece:	black
Surface:	white finishing coat

Capillary tube mat

Material:	PP-Random-Copolymerisat,
colour:	blue
Capillary tubes:	4.3 x 0.8 mm
Capillary tube spacing:	18 mm / 25 mm
Water volume:	approx. 0.4 l/m² mat surface
Test pressure, factory set:	20 bar

Before completely closing the ceiling, the client shall conduct an initial pressure test (preliminary test) with 3 bar compressed air in accordance with the relevant Clina guideline and prepare a test report.

The main test with 10 bar liquid system medium in compliance with the relevant Clina guideline will be carried out by the system engineering discipline (covered in separate specifications) following the filling and bleeding of the system through the system engineer.

Technical data:

Specific cooling capacity to the room as per DIN:	65 W/m² system panel (delta T 10K)
Specific cooling capacity under design conditions:	58 W/m²
Perceived room temperature:	26 °C
Cooling water supply:	16 °C
Cooling water return:	18 °C
Specific heating capacity to the room as per DIN:	76 W/m² system panel (delta T 15K)
Specific heating capacity under design conditions:	71 W/m²
Perceived room temperature:	20 °C
Heating water supply:	35 °C
Heating water return:	33 °C

Active proportion of entire ceiling: Approx. ..... %

Type:	VoglThermal Tile with integrated Clina capillary tube mat			
Length in mm:	600	625	1,200	1,250*
Width in mm:	600	625	600	625*

Room-side connection, incl. hydraulic hook-up of cooling elements, shall be furnished and installed.

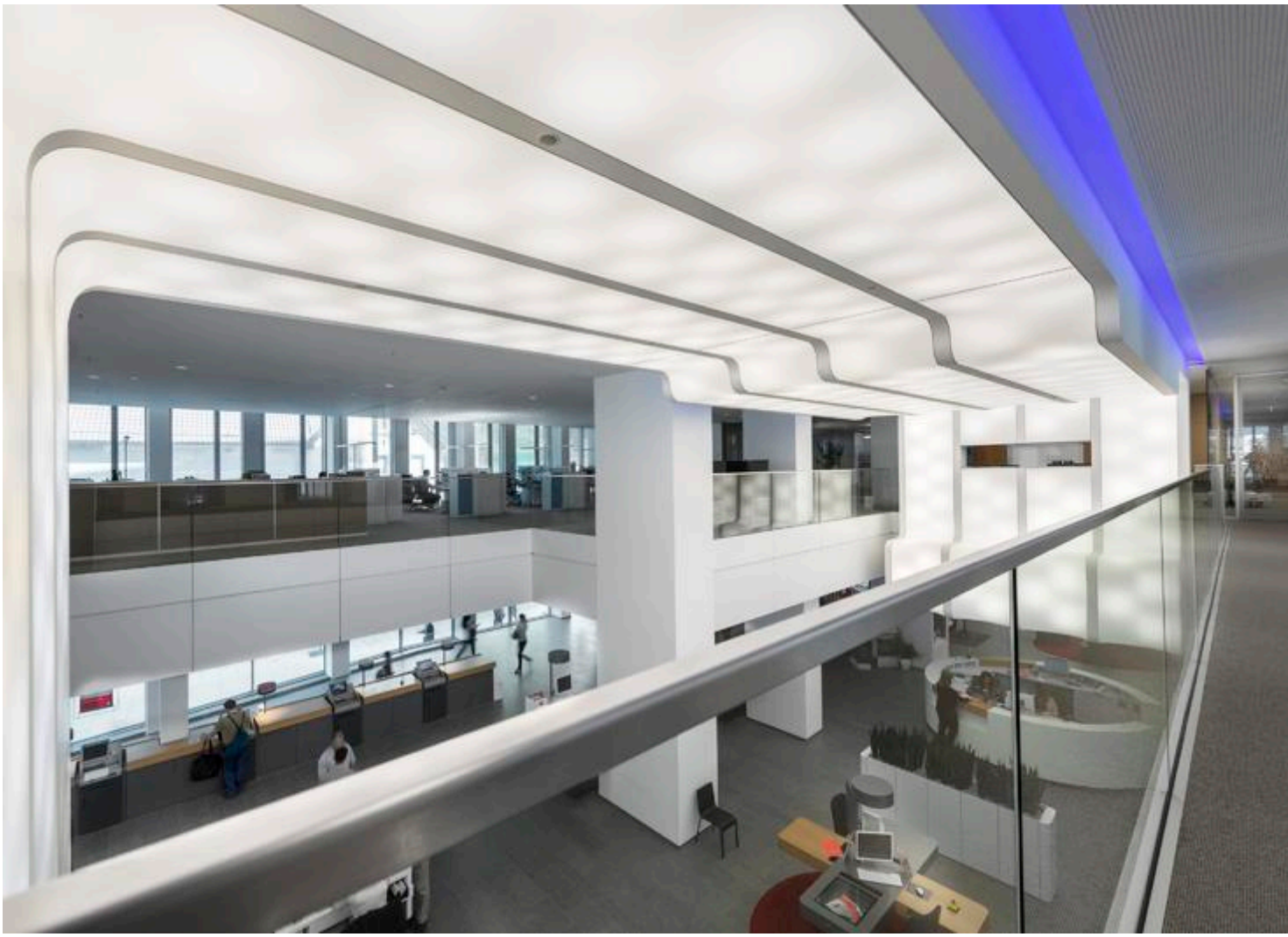
Depending on the pressure loss, flexible plug hoses DN10 l = 800 mm, (type SNY10.800) shall be used for the connection of several tiles in a row to sections. By means of plug connections, these sections will then be hooked up to the Clina ceiling manifolds DN 15 via two equally long connection hoses DN10 l = 5,000 mm (type SNY10.5000) which have to be laid in the ceiling void prior to inserting the ceiling tiles.

Clina ceiling manifolds consist of a main control valve (DN 15), an FE valve and 3 to 7 plug connections for flexible hoses mentioned above.

The following additional services are included:

- Entering tile arrangement in ceiling plan
- Connection to Clina ceiling manifold
- Pressure test with compressed air (3 bar) observing Clina manufacturer's guidelines, incl. required test report
- Closing inactive perimeter areas
- Monitoring system pressure during further drywall work
- Instructing operating personnel
- Inspection documents, documentation of location of active system tiles

* Delete as applicable



Moulded Components

Curved Ceilings
in any Shape or Form

Delivered to the site in perfect shape

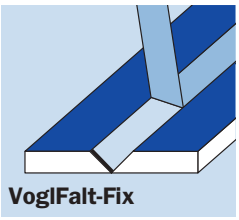
Experience a room through precision

The bending and folding technology offers an abundance of creative design possibilities. An optimum ceiling solution can be realised with linear V-grooves.

In addition to the Vogl Fold Fix, it is the various angles or edges, but also the bent and rounded moulded components that create – depending on customer desire and design – an impressive experience of space.

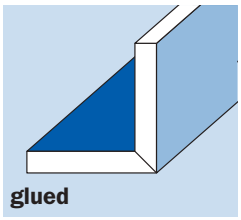
Effective ceiling design can be realized with accurately sized custom-made moulded components, such as quarter shell, half shell, lamella, funnel, dome or vault.

Available V-grooves



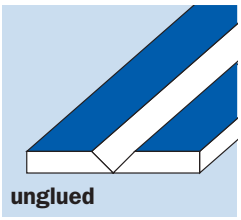
VoglFalt-Fix

Fold Fix moulded components come flat (space-saving) and factory-supplied with VoglFalt-Fix adhesive tape.



glued

Special glued moulded components come ready to install.



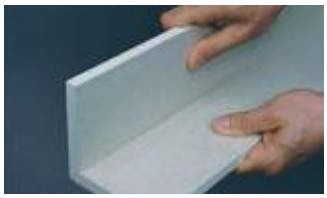
unglued

Special unglued moulded components come flat and must be assembled and glued on-site.

1. Delivered flat

2. Remove cover paper

3. Press limbs firmly together



4. Done!

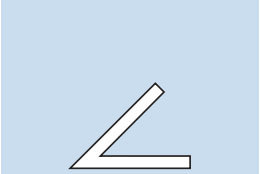
Key advantages:

- Glueless joining of moulded components on site, no priming, no drying times
- Easy on-site handling of moulded components
- High adhesive strength immediately
- Angle adjustment of ± 2° after adhesion
- Delivered flat - less handling damage

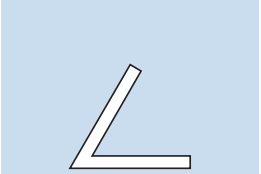
Note:

Vogl Fold Fix moulded components must be installed without any stresses acting upon them.
The free limb must always be fixated.

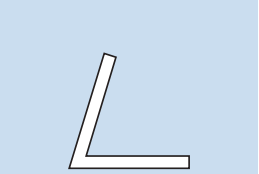
Available angles



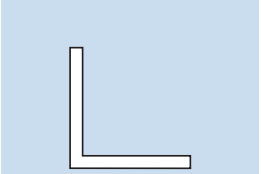
45°



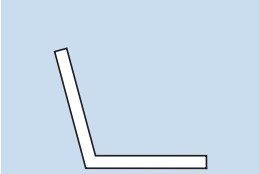
60°



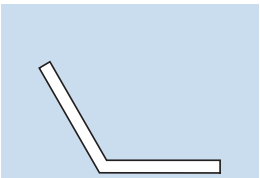
75°



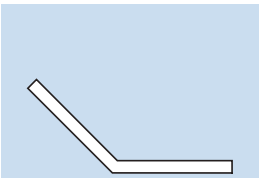
90°



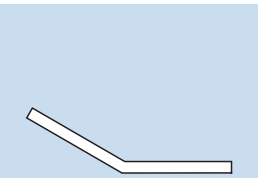
105°



120°



135°



150°

Other angles on request

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Available edge designs (subject to technical feasibility)

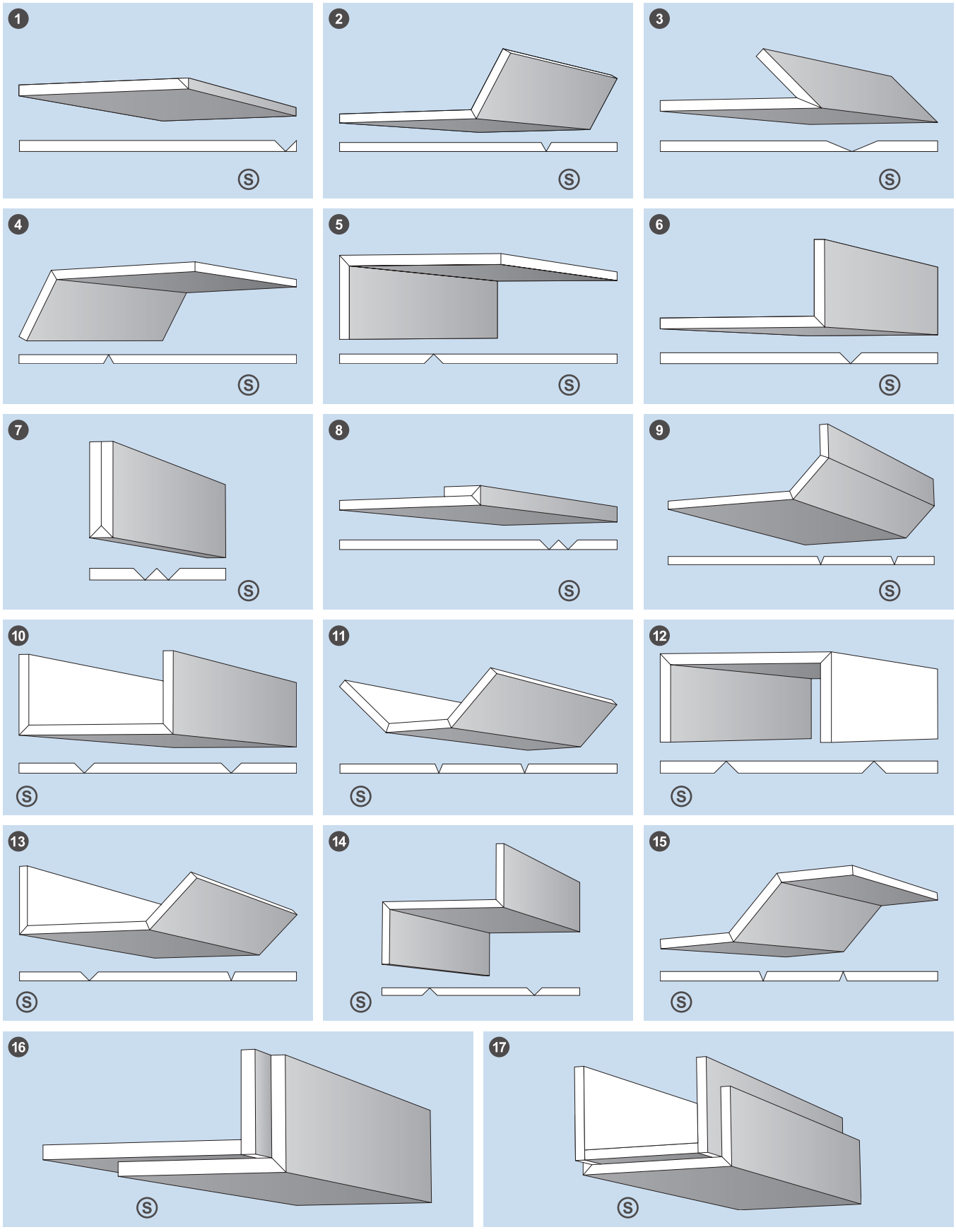
VK	HRAK	AK	RK	FK	SK	PU	KU	lamella
full edge	half-round flattened edge	flattened edge	round edge	chamfered edge	cut edge	paper-clad edge	cardboard-clad edge	lamella edge

Available panel designs / thicknesses

Type	Description	Performance	Thickness in mm
A	Plasterboard type A as per EN 520 Plasterboard type GKB as per DIN 18180	Standard plasterboard Note: Available in 10 mm thickness as Thermotec panel or Thermotec panel PLUS (containing graphite)	6.5 mm 9.5 mm 10.0 mm 12.5 mm
DF	Plasterboard type DF as per EN 520 Plasterboard type GKF as per DIN 18180	Plasterboards with improved fire behaviour	12.5 mm 15.0 mm 18.0 mm 20.0 mm 25.0 mm
DFH2	Plasterboard type DFH2 as per EN 520 Plasterboard type GKFI as per DIN 18180	Plasterboards with reduced water absorption (impregnated)	12.5 mm 15.0 mm 20.0 mm 25.0 mm
GM-FH1I	Plasterboard type GM-FH1I as per DIN EN 15283-1	Waterproofed special panel for use in damp rooms	12.5 mm

V-grooves

Ⓢ = face side



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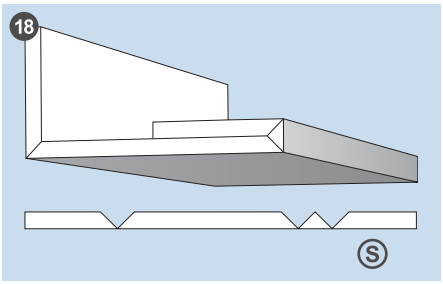
V-grooves

Ⓢ = face side

18


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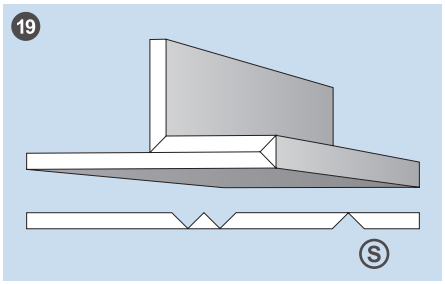

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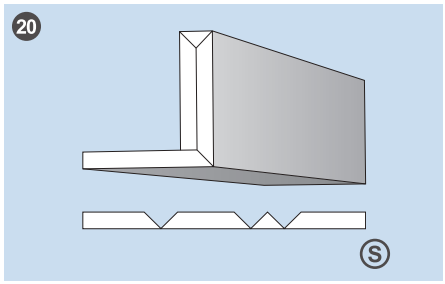

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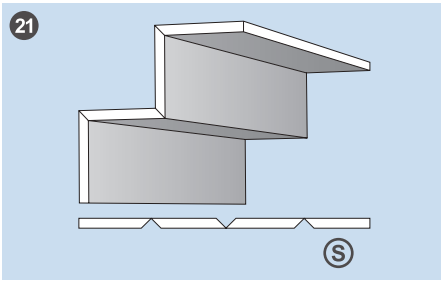

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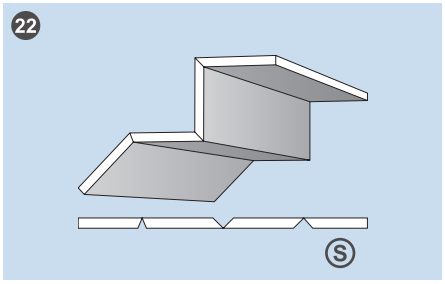

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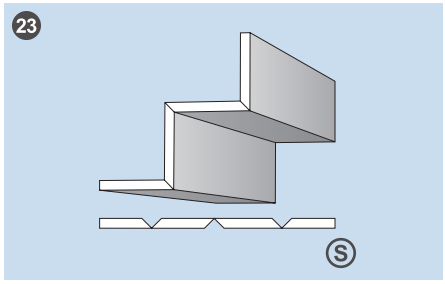

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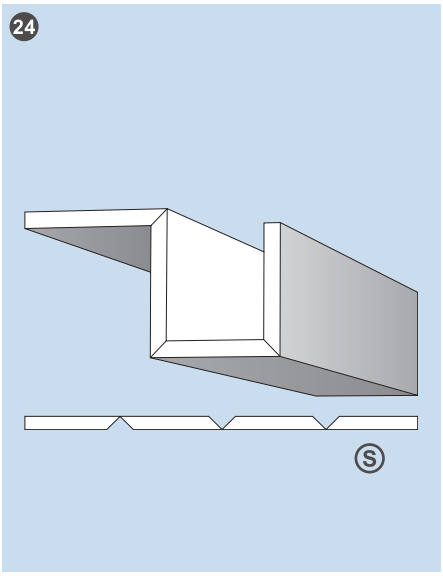

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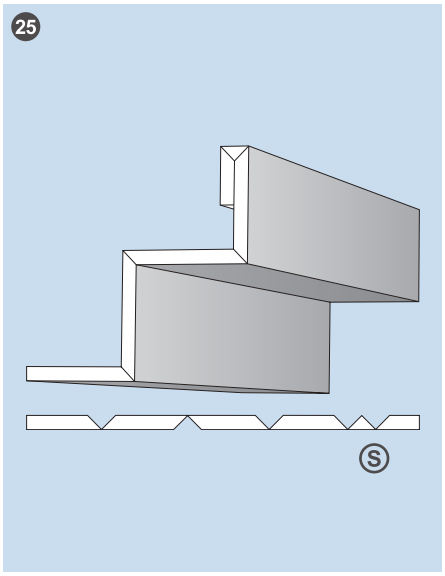

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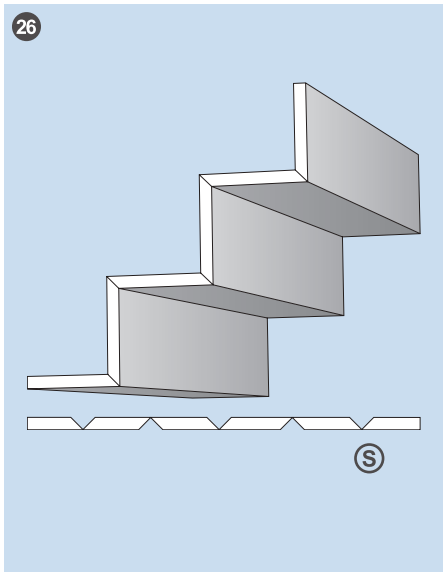

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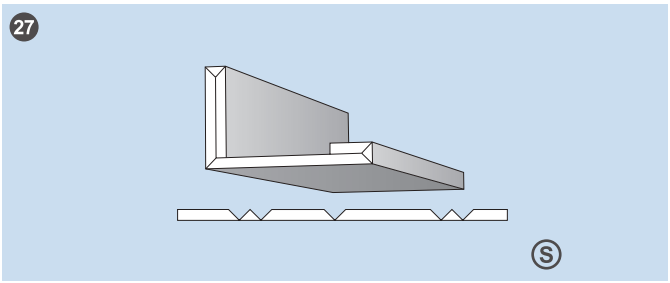

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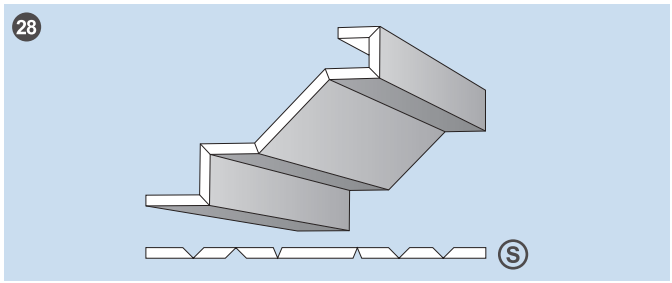

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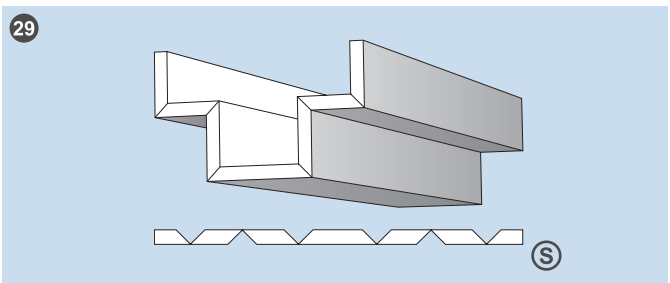

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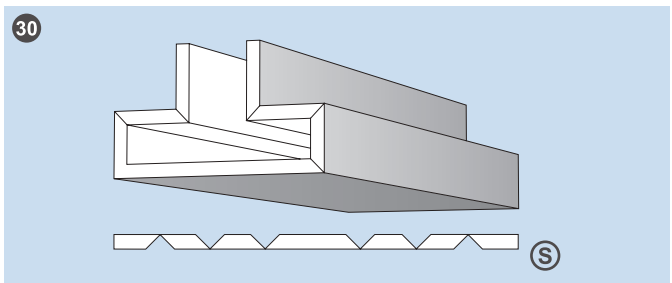
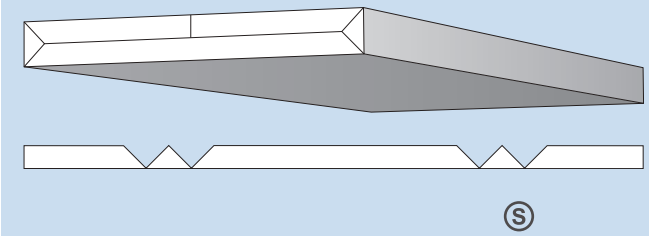


V-grooves

Ⓢ face side

31



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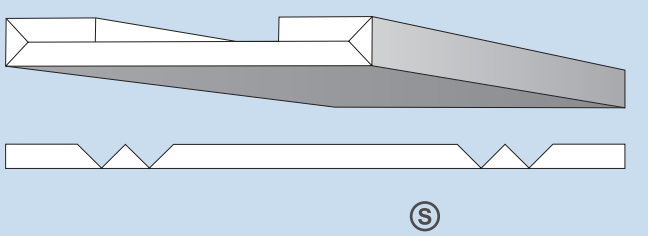

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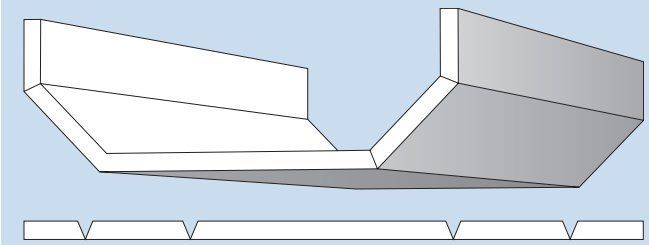

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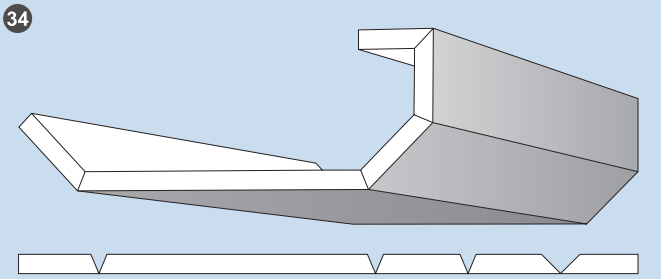

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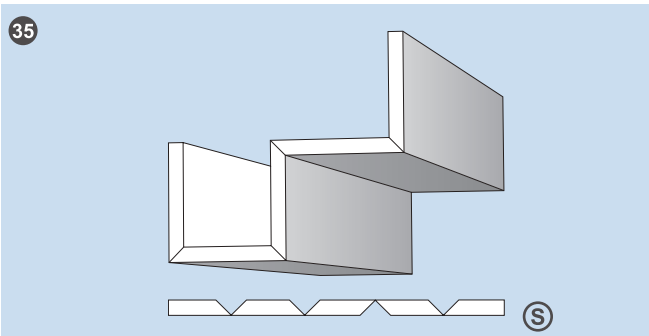

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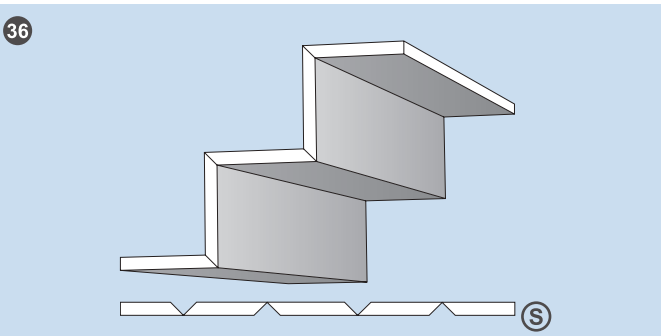

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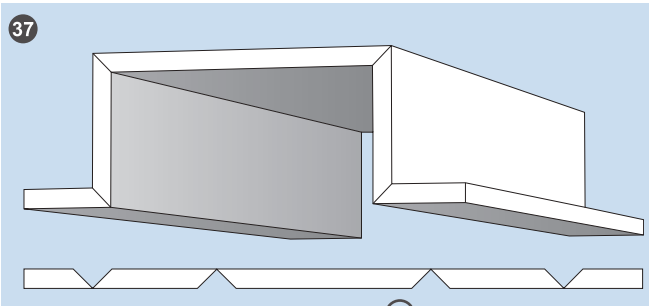

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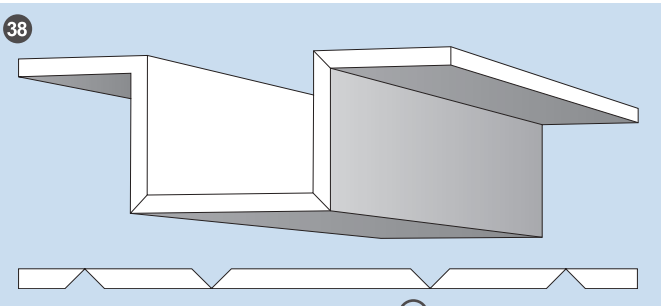

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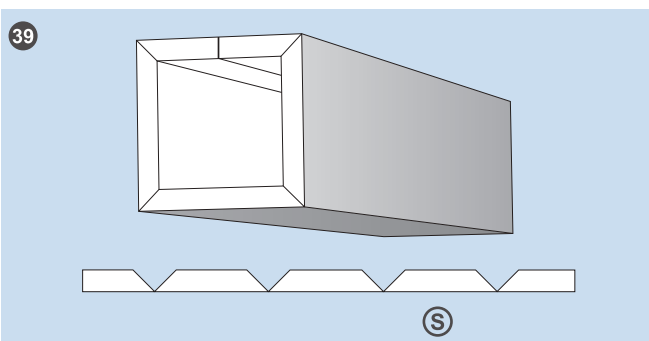

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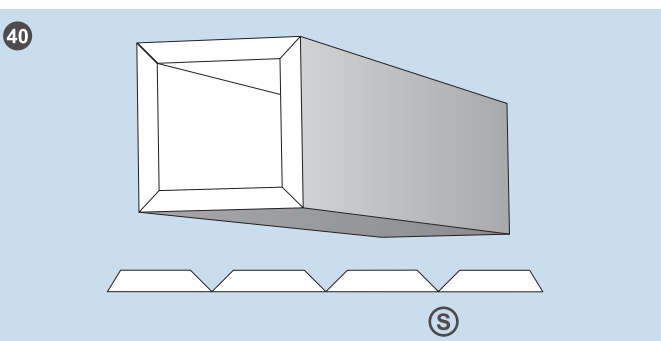

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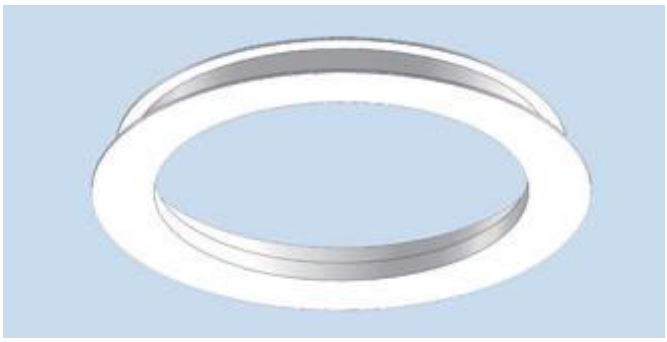
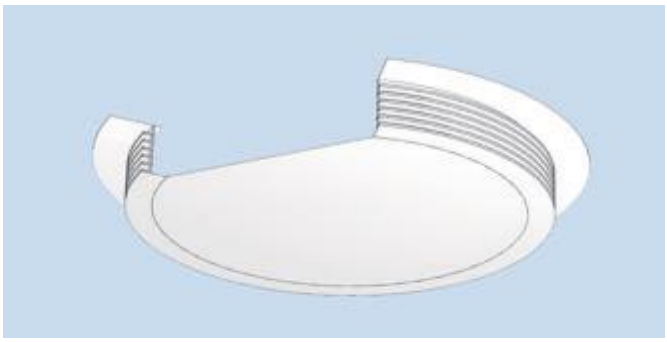
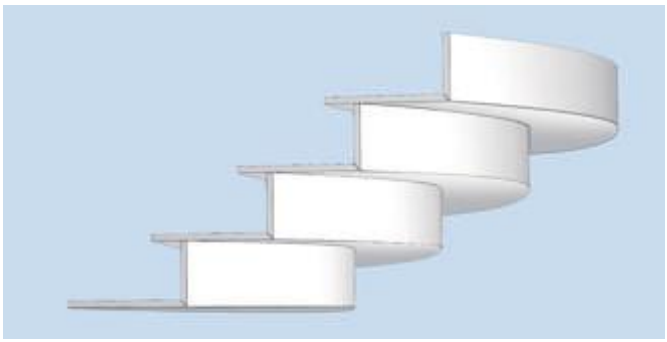
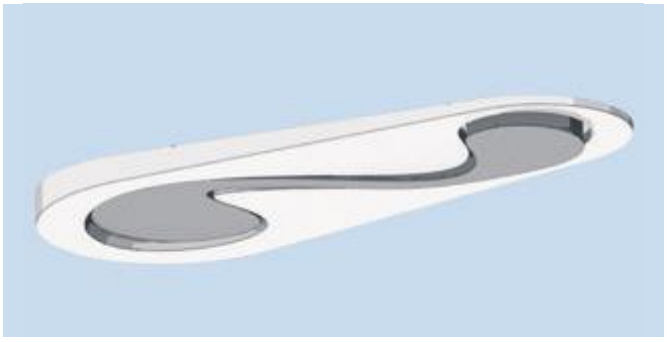
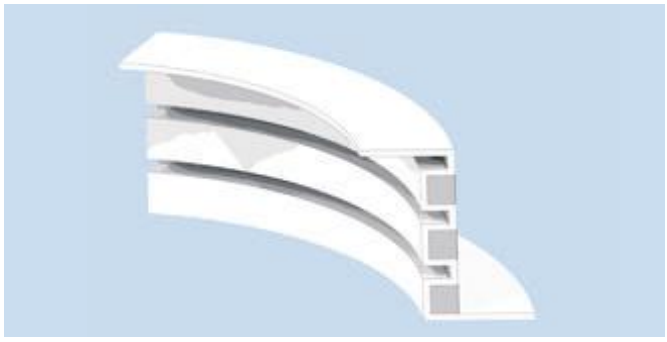
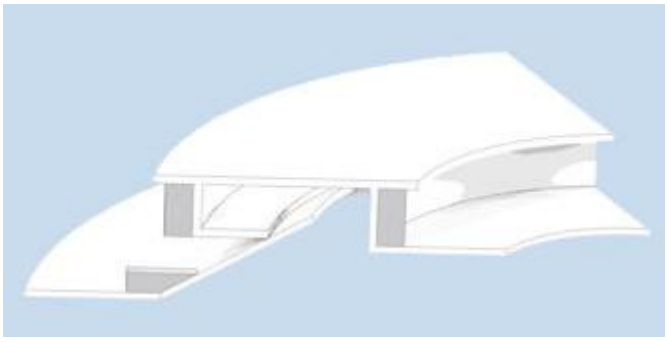
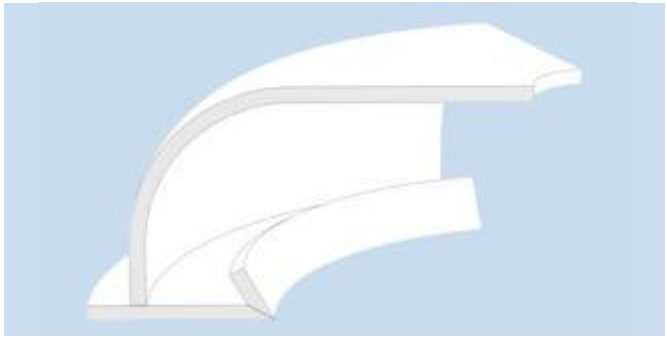
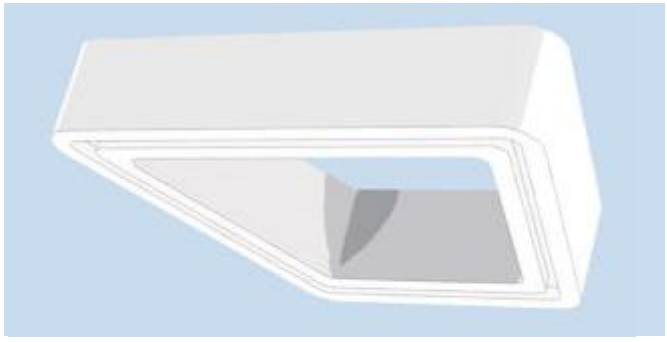
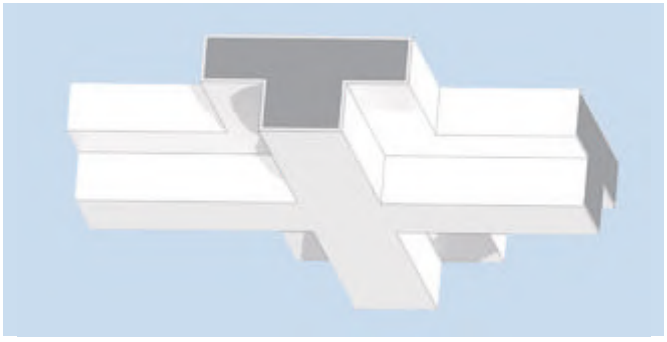
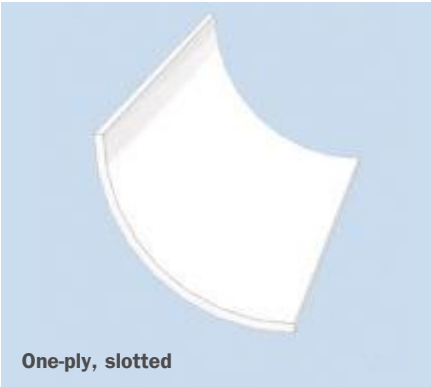
Special elements

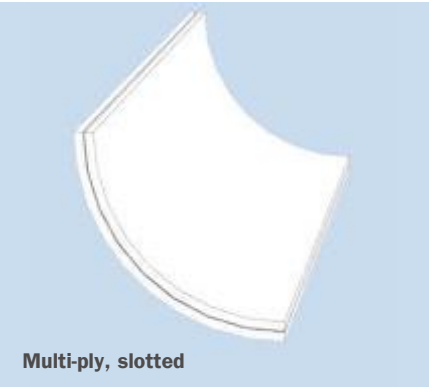








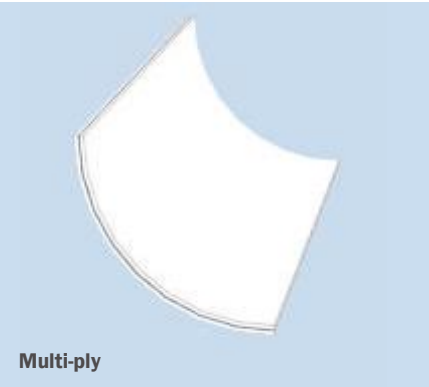
Layered structure of panel



One-ply, slotted



Multi-ply, slotted



Multi-ply

Shapes

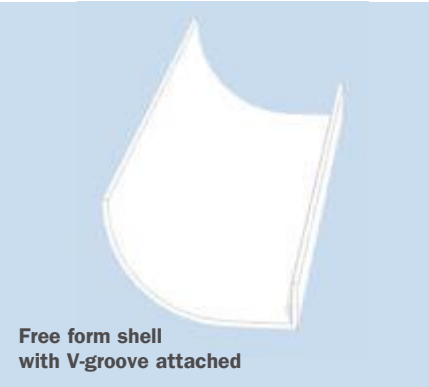
Quarter shell 90°

Half shell 180°

Segmental shell 15° - 180°

Free form shell

Free form shell



Free form shell
with V-groove attached

Start element

One side

Both sides

Offset

Axial

Radial

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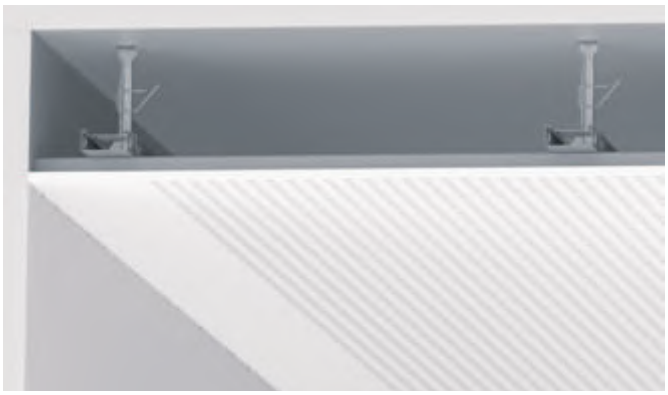
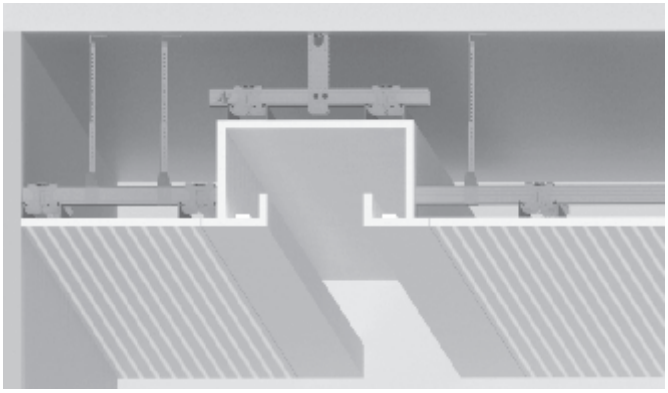
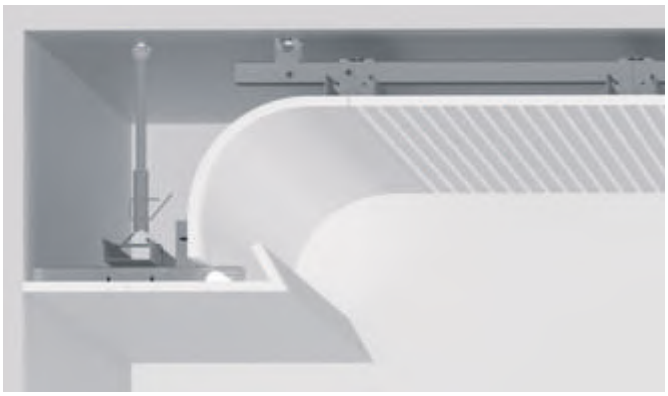
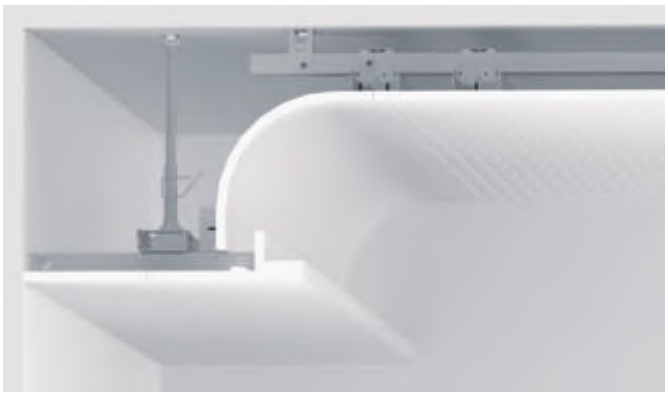
Cuts



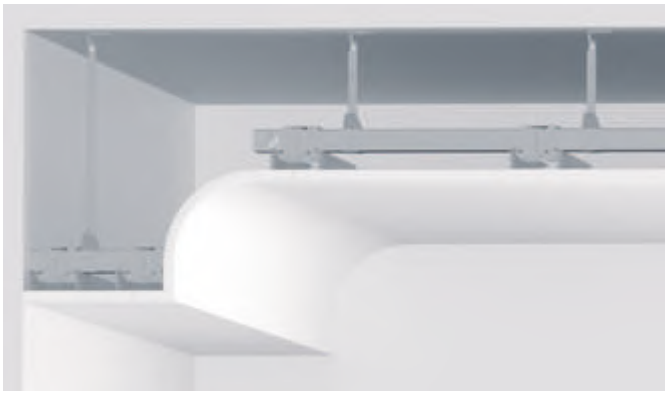
V-grooves

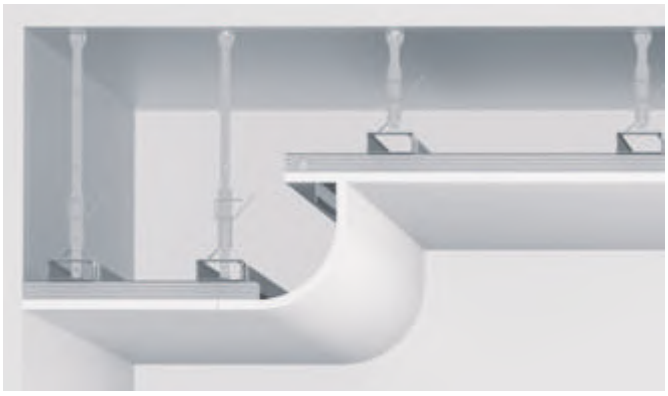






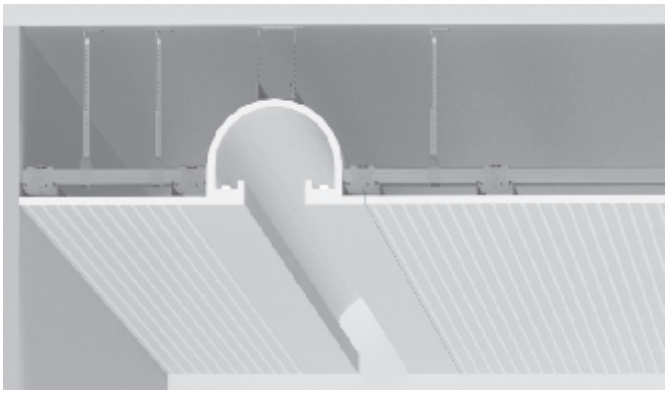
Shells

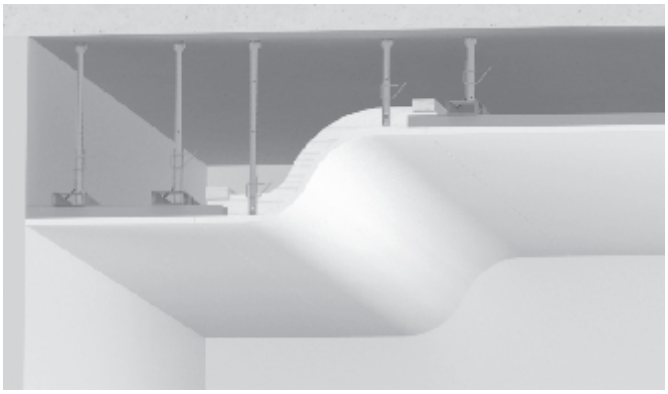




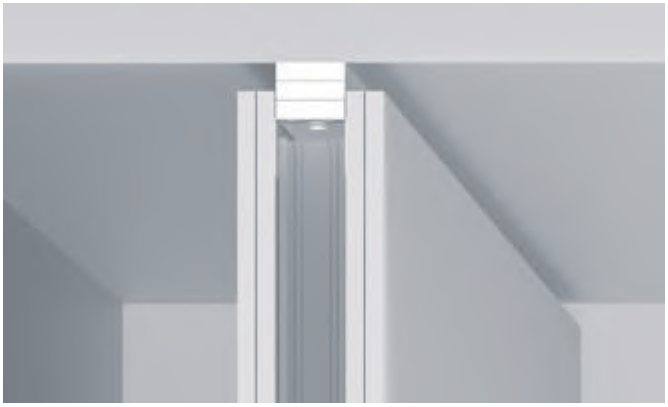
Note: The illustrated moulded components do not show the necessary suspension/framework completely. When planning a project, however, they must be individually considered.

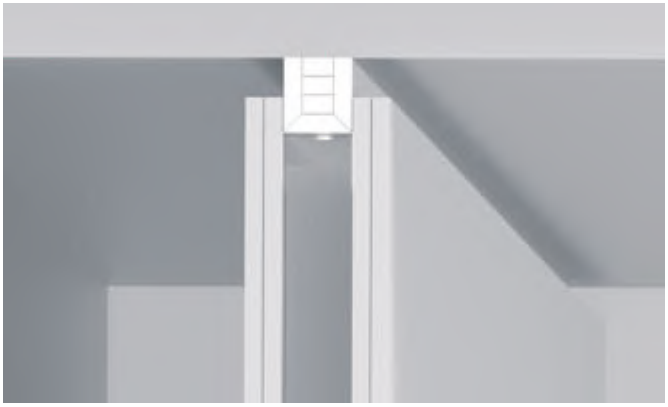
Shells



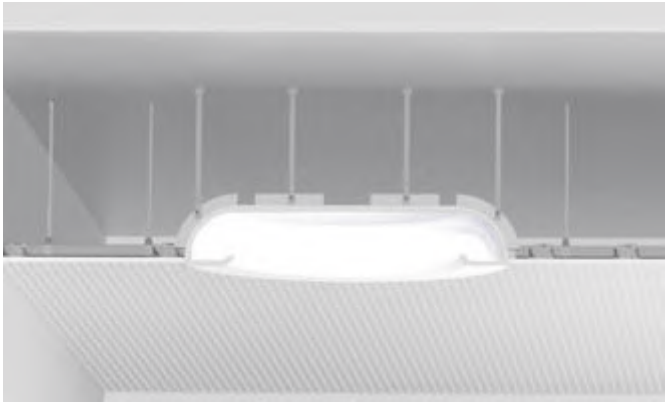


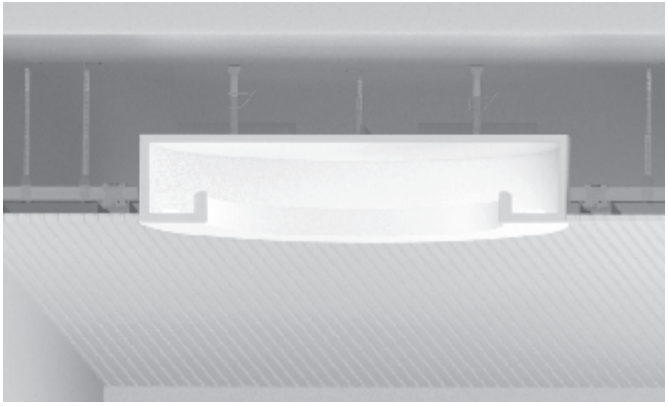
Plasterboard strips





Rounded L-angles





Note: The illustrated moulded components do not show the necessary suspension/framework completely. When planning a project, however, they must be individually considered.

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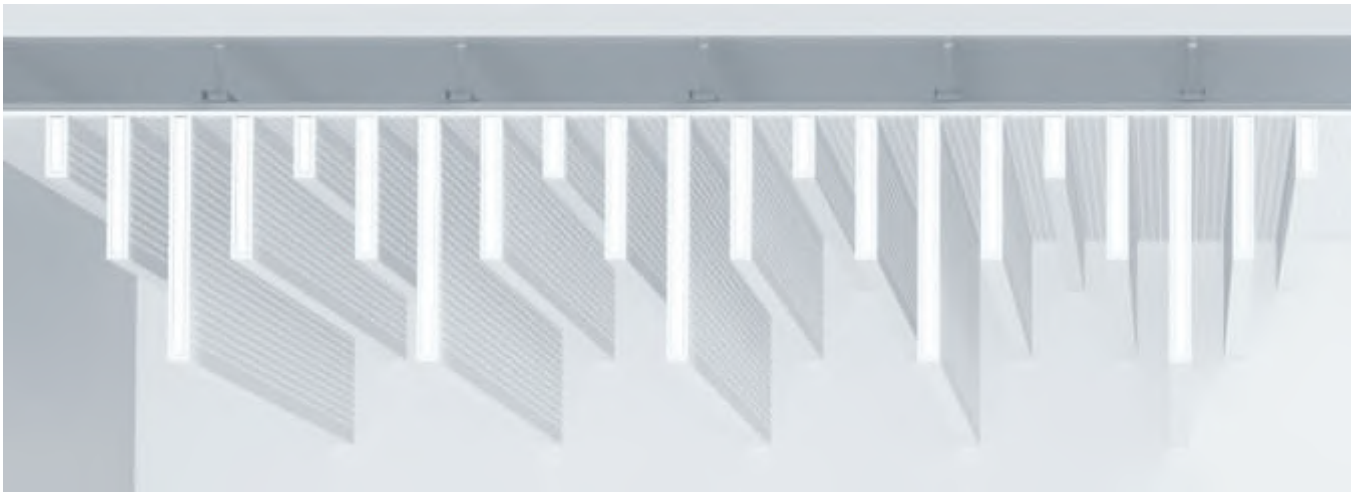
Baffles



Lamellas

Note: The illustrated moulded components do not show the necessary suspension/framework completely. When planning a project, however, they must be individually considered.

3D Design

Absolute Precision
in Every Dimension

The easiest way to get ceilings into swinging shape

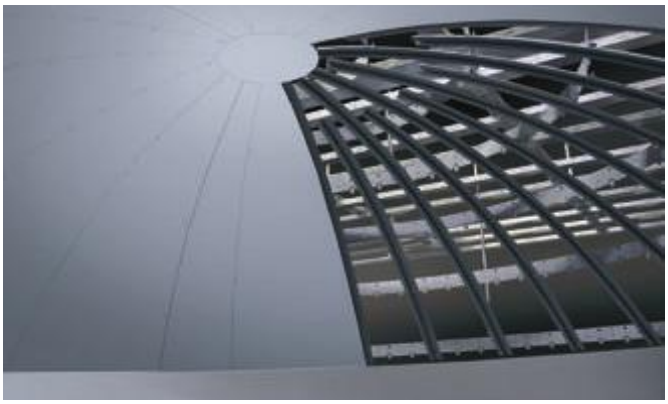
The easiest way to get ceilings into swinging shape

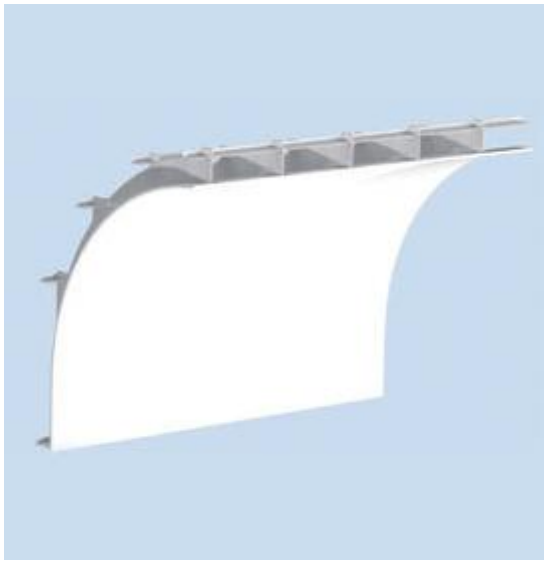
Competence is called for when it comes to the planning and manufacture of vault ceilings, domes or free shapes.

Our long-standing experience and absolute precision in the production of curved moulded components enable us to achieve the complex interaction between the individual components of steel and gypsum. In this process, it is not only the design that counts. Another aspect of great importance to us is the ease of handling during transport and on the job site. So we package the prefabricated moulded elements ready for shipment and deliver them to their destination.

Absolute precision already pre-fabricated:

- Complex two- and three dimensional shapes can be produced
- Economical installation provides an important time advantage and result reliability
- Manageable units for optimal logistics and handling on the job site
- Customised special solutions from lightweight steel construction to individual covering are realised





Benefits of Vogl 3D moulded components:

- Consistent shapes, perfect radii – component by component
- Almost no filling and patching work required
- Economical and clean way of working
- Elegant, practicable system solutions for frameworks
- High level of pre-fabrication = rational construction site handling

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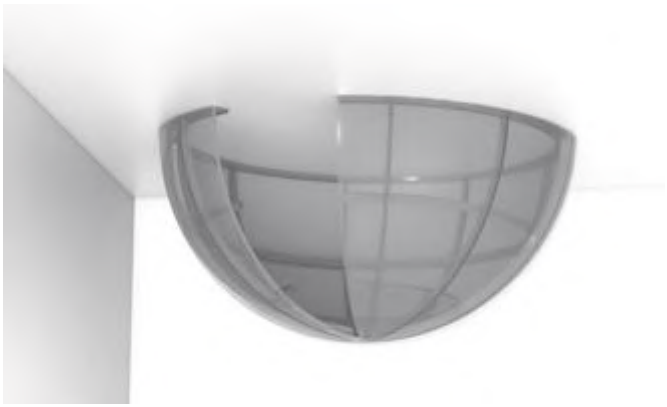
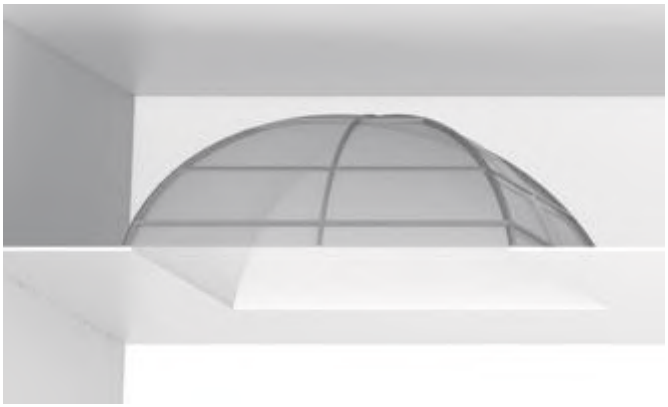
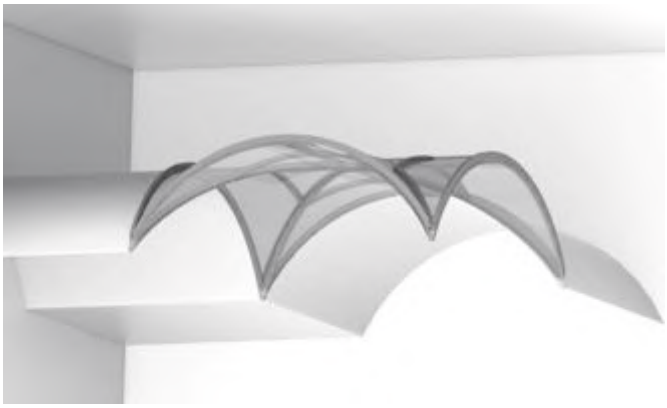
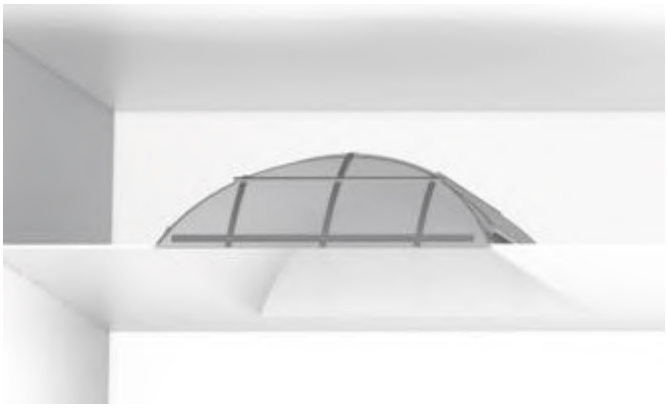
Dome

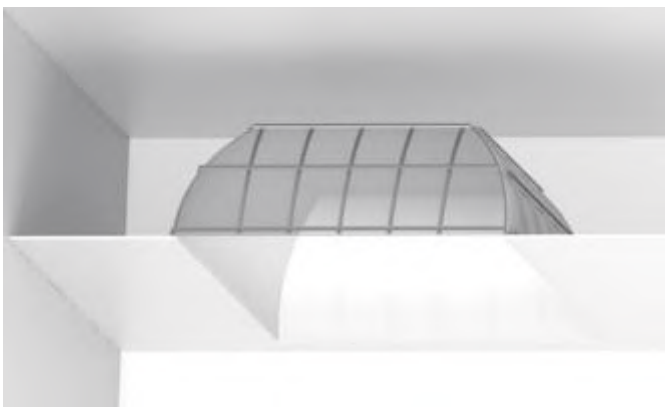


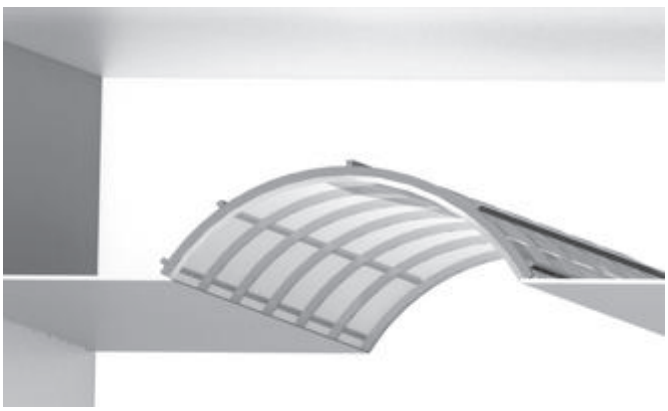
Vault



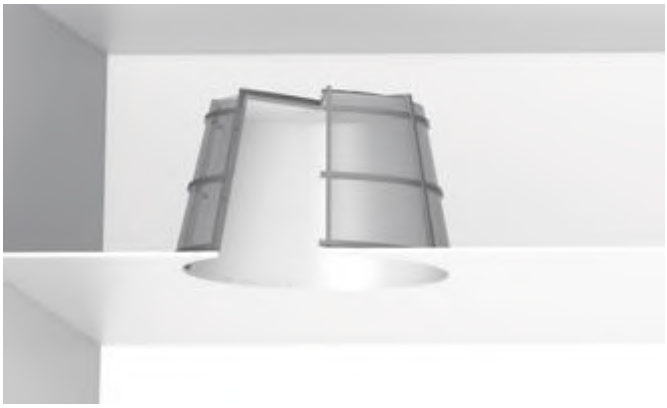


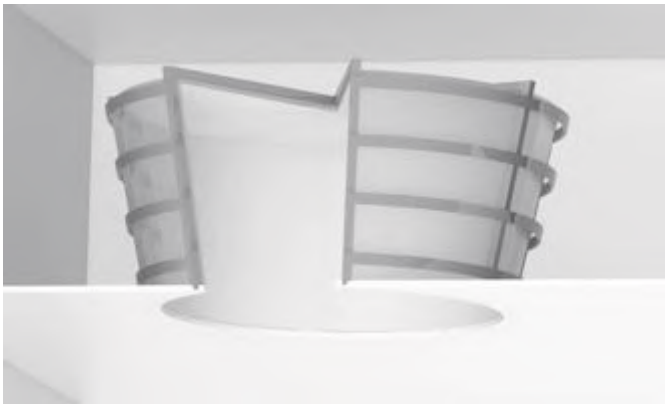




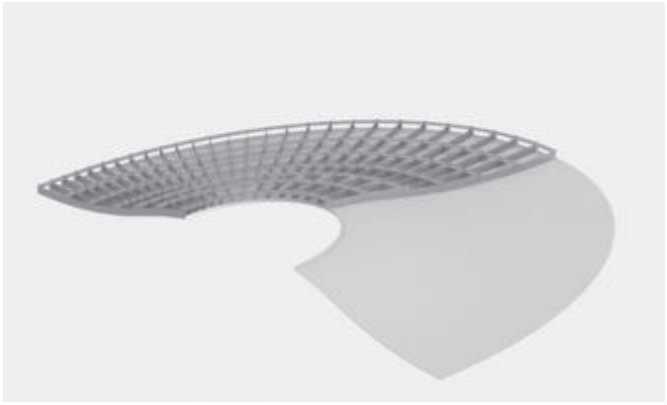


Funnels





Free shapes



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Vogl Access Panels

Quick Access
Whenever Needed

Perfect integration married
with functional handling

Quick access,
homogeneous design

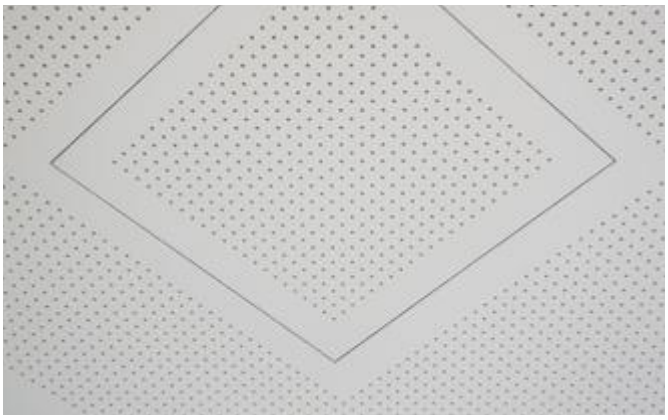
Acoustic ceilings usually have more than one function. The space in the ceiling void must often be used for technical installations such as lighting, climate control, sound and fire protection systems.

Vogl Access Panels are essential to keep these installations accessible for maintenance and repair even after the suspended ceiling has been installed.

Vogl Access Panels offer top performance for easy access while fulfilling all aesthetic requirements at the same time.

The benefits of Vogl Access Panels in detail:

- Available in 10.0/12.5/15.0 mm thickness for various applications
- Sturdy, high-quality aluminium frame for dimensional stability
- Multiple perforation patterns available ex factory
- Consistency in the rows of perforation throughout the ceiling
- Backed with acoustic fleece for high acoustic performance
- Sturdy catch mechanism (for panels > 300 mm) keeps the plasterboard insert from falling down while being opened
- Customised special designs can be realised



The standard catch mechanism (for Vogl Access Panels > 300 mm) prevents the access panel insert from falling out accidentally while being opened. For work in the ceiling void, the plasterboard insert can be conveniently detached and removed.

The factory-installed perforated panel insert makes for easy integration into the ceiling surface.
Exception: Random perforation panels should always be fitted into place at the job site.

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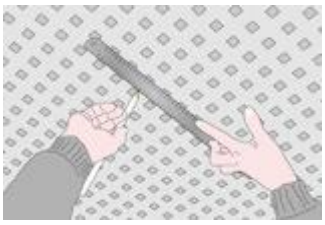
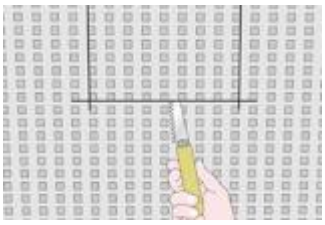
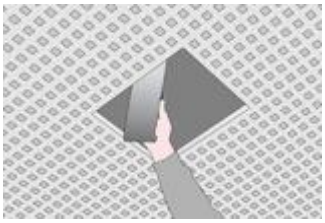
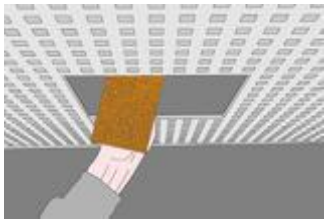
Vogl Access Panels - Installation

Mark intended position of access panels on ceiling, considering that cutout has to be 4 mm larger than Vogl Access Panel / clear passage size. Then cut out marked section, making sure there are no panel joints within area of cutout.

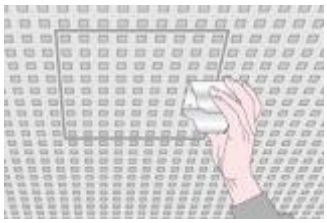
Note:
- Install trimmers of CD profiles in accordance with dimensions of access panel
- Observe distances between cutout and trimmer of min. 30 mm and max. 50 mm
- Mount 4 additional suspended brackets in corner areas of access panels
- It may be necessary to include additional suspended brackets so as not to exceed maximum bracket spacing

The way to achieve the most accurate dimensions of the cutout is to use a plasterboard plane and/or sandpaper / abrasive mesh for the precision work.

Chamfer visible side of acoustic design panel slightly to facilitate filling of joints later on.
Then insert frame of Vogl Access Panel and hold it in place by means of a mounting aid matching perforation pattern.

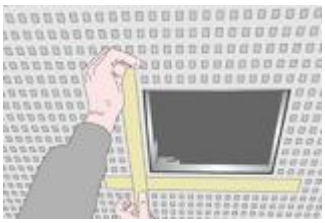




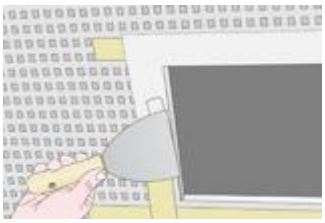
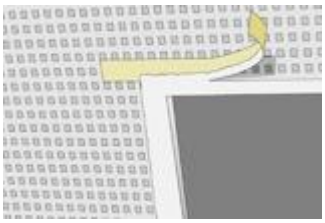
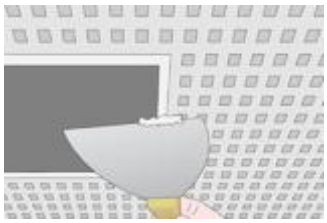
Predrill Vogl Access Panel frame with metal drill and fasten it with perforated panel screws SN.


Be sure to use at least 2 screws per frame side for panel size < 500 x 500 mm and at least 3 screws per frame side for panel size > 500 x 500 mm.

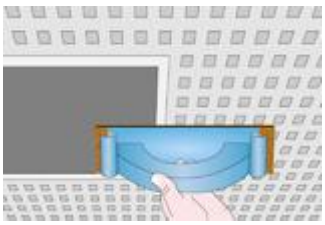
Then insert lid and check closing function. Cover row of perforation directly adjacent to access panel with masking tape.

Now apply filling compound to access opening, remove masking tape right afterwards and knock away any excess filler to make it flush with ceiling surface. Observe relevant filler manufacturer's instructions.

After filler has dried, sand any edges or protruding material.



Note:
- Our "Painting Instructions" are applicable for final coating
- Take out access panel lid and paint it separately to prevent paint from getting into narrow joint between frame and plasterboard insert
- Clean outer and inner frame thoroughly after coating
- Exception: With acoustic plaster ceilings, plasterboard insert should remain in ceiling surface in order to obtain uniform spray pattern. In this case make sure to clean joint between frame and lid after every spray application.

VoglModu

Light to the site – ready to go

The creation of light strategies used to be a job for specialists.

With the VoglModu illumination modules, the industry receives factory made light modules for the first time. They provide freedom of design and the additional advantage of easy installation. Whether for integration in suspended ceilings or as tailored illumination modules for floating ceilings:

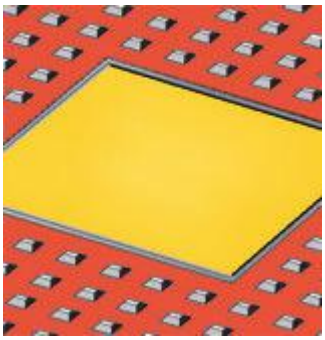
They offer diversity and multi-purpose use. The round or square design of the illumination modules harmonises ideally with the respective perforation patterns of the perforated panel ceilings. VoglModu is equally suitable as a functional eye-catcher for the design of smooth or plastered surfaces, whether wall or ceiling.

The modular illumination system ready for installation:

- The fantastic effects of a light module with unexpected ease of assembly
- Prefabricated modules for simple wall and ceiling installation
- For integration in suspended perforated ceilings, plaster ceilings and smooth ceilings or as integration in floating ceilings to complement existing surfaces
- Perfectly flush and levelled perimeters in the finished areas
- Available in various types of shape, format and technical equipment
- Apart from the standard design, a dimmable or a DALI-compatible design with colour combinations is available
- Innovative colour design by simply covering the fluorescent lamps with coloured foils

Prefabricated for delivery to the job site:

The light module is installed into the ceiling structure accurately fitting, which results in perfectly flush and levelled perimeters in the finished areas.

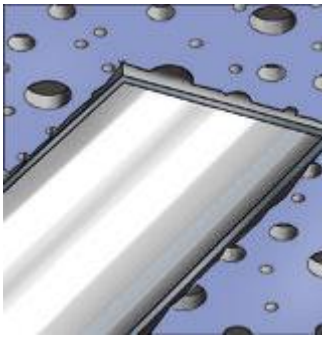


Benefits of VoglModu:

- Fits in perfectly with the ceiling appearance
- Perfectly easy to install in suspended ceilings or to integrate into prefabricated floating ceilings
- No special skills required
- Install large-area and coloured lighting
- As fast as lightning
- Can be used as a "stand-alone" light module

Illumination in just a few steps:

After connection to the building services and fitting of the fluorescent tubes, the frame which is already covered with a matt foil can be installed – done!



Disadvantages of conventional ceiling lighting:

- No homogeneous integration into the existing ceiling design
- Intricate installation procedures
- Very limited illumination performance

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Vogl Stretch Ceilings

Impressive play between form, colour and light

The spectrum of design possibilities has been significantly expanded with acoustic design ceilings. Using colour, light and degrees of gloss, the elegant integration of stretch ceiling surfaces in acoustic design ceilings makes for a striking aesthetic appearance and, in its function as an illuminated ceiling, provides a gentle surface lighting with variable colour mix. The superb diversity of both colours and shapes is imposing!

Clear geometric surfaces or freely defined shapes, combining various perforation patterns of the acoustic design panels, result in ceiling areas which are rich in contrast and can be level or stepped for 3D accentuation. In addition, Vogl's renowned economical, quick and reliable processing provides confidence in the final product.

Vogl Stretch Ceilings offer almost unlimited freedom of design with:

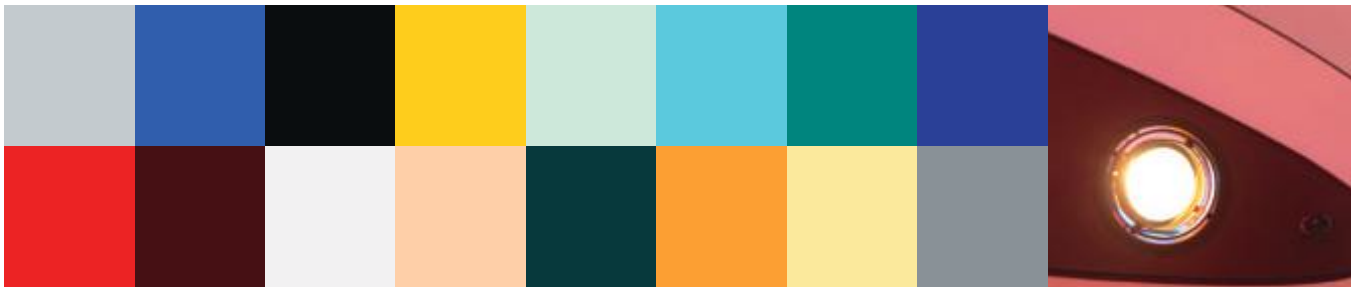
- exciting surfaces and three-dimensional shapes
- contrasts between colours and degrees of gloss
- accentuated interaction of light and illumination
- more corporate design by using printed foils
- ideal combination possibilities with Vogl acoustic design ceilings in form, colour and performance

Great when renovating:

- Minimal production and business down times
- No generation of dust and moisture
- Buildings generally remain operable
- No removal and disposal of existing ceilings
- No expensive new installations

Great in wet environments:

- Suitable for spa areas through foil colours or colour-controlled illuminated ceilings
- Completely moisture-resistant foils and profiles
- Splash protection for ceiling installations such as light and sound systems
- Reduction in the reverb time



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VoglDouble Layer Fleece

On One Level
in Spite of Differences

The multitalent for your acoustic design ceiling

Evenness easier than ever

This is what drywall construction has waited for: Evenness between perforated and smooth gypsum boards used to be achieved by tedious spackling.

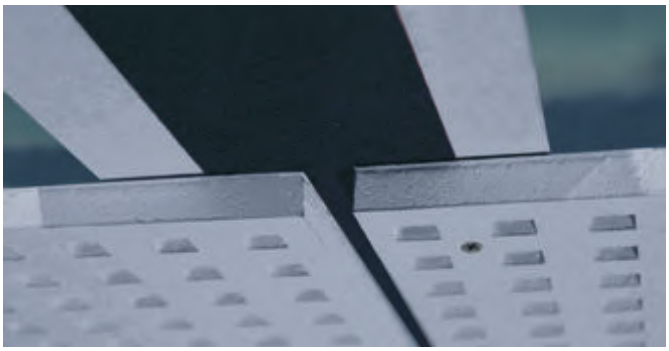
It required a tremendous effort to equalize the small difference in height caused by the fleece laminated on the back of the perforated panels.

The idea for achieving evenness in record time is brilliantly simple: VoglDouble Layer Fleece, which is self-adhesive and comes on rolls, ready for use, makes the levelling of height differences easier than ever.

Brilliantly simple realisation of shadow gaps in contrasting colour for the perfectly designed ceiling. Optically appealing design of expansion joints by backing them in black or white.

Benefits of the VoglDouble Layer Fleece system:

- Faster and more economical installation due to self-adhesive rolled material
- Tedious, time-consuming spackling is now a thing of the past
- Practical helper for many transition and connection issues
- Homogeneous material for perfect connection to fleece-laminated perforated panels
- Available in various tape widths for single or double application
- Available in white or black fleece colour



Expansion joints

For the coloured design of expansion joints in the ceiling.

Your advantages when using VoglDouble Layer Fleece:

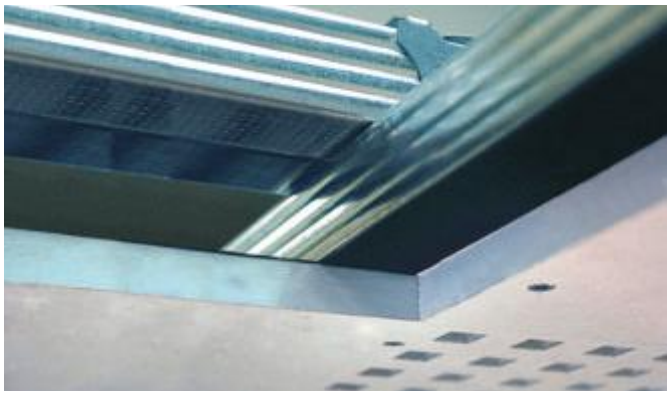
- Clean workmanship (no need to use a brush)
- Available in black or white
- Tape on rolls is applied quickly and easily

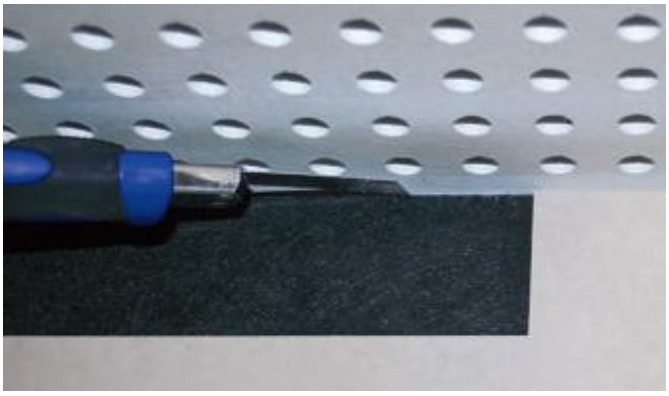
Panel connections

Flush panel connections between perforated panels and smooth plasterboards.

Your advantages when using VoglDouble Layer Fleece:

- Quick installation with self-adhesive roll material
- No filling work – connection between perforated panels and smooth plasterboards possible with VoglFriestape 20 mm
- Available in various tape widths
- Single-layer or multi-layer application possible (depending on height difference)





Wall connections

Perfect wall connections in various designs. Whether as filled joint or as wall connection with shadow gap.

Your advantages when using VoglDouble Layer Fleece:

- Functions as separating tape for a filled joint
- Colour of shadow gap available in white or black
- One product only for a variety of joint and connection applications

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VoglDouble Layer Fleece		
Item number	**Item description**	**Dimensions**
90310000	VoglDouble Layer Fleece VAD 32 black Self-adhesive fleece, black	Roll width 32 mm Roll length 200 m
90320000	VoglDouble Layer Fleece VAD 62 black Self-adhesive fleece, black	Roll width 62 mm Roll length 200 m
90311000	VoglDouble Layer Fleece VAD 32 white Self-adhesive fleece, white	Roll width 32 mm Roll length 200 m
90321000	VoglDouble Layer Fleece VAD 62 white Self-adhesive fleece, white	Roll width 62 mm Roll length 200 m

Extra: Non-perforated frieze area, frieze areas w= _____mm of smooth plasterboards.

Create frieze areas of smooth plasterboards, th=12.5 mm, transition from frieze area to perforated panel ceiling made with VoglDouble Layer Fleece (height compensation) and VoglFriestape 20 mm. Installation in accordance with manufacturer's instructions.

Extra: Expansion joint for ceiling structure.

Integrate expansion joints in aforementioned ceiling system. In this area, separate framework completely from the rest. Back expansion joint with a strip of plasterboard coloured with VoglDouble Layer Fleece in black*/white*. Screw down backing strip of plasterboard on one side only. Width of joint >5 mm. Insert edge protection profile, if required.

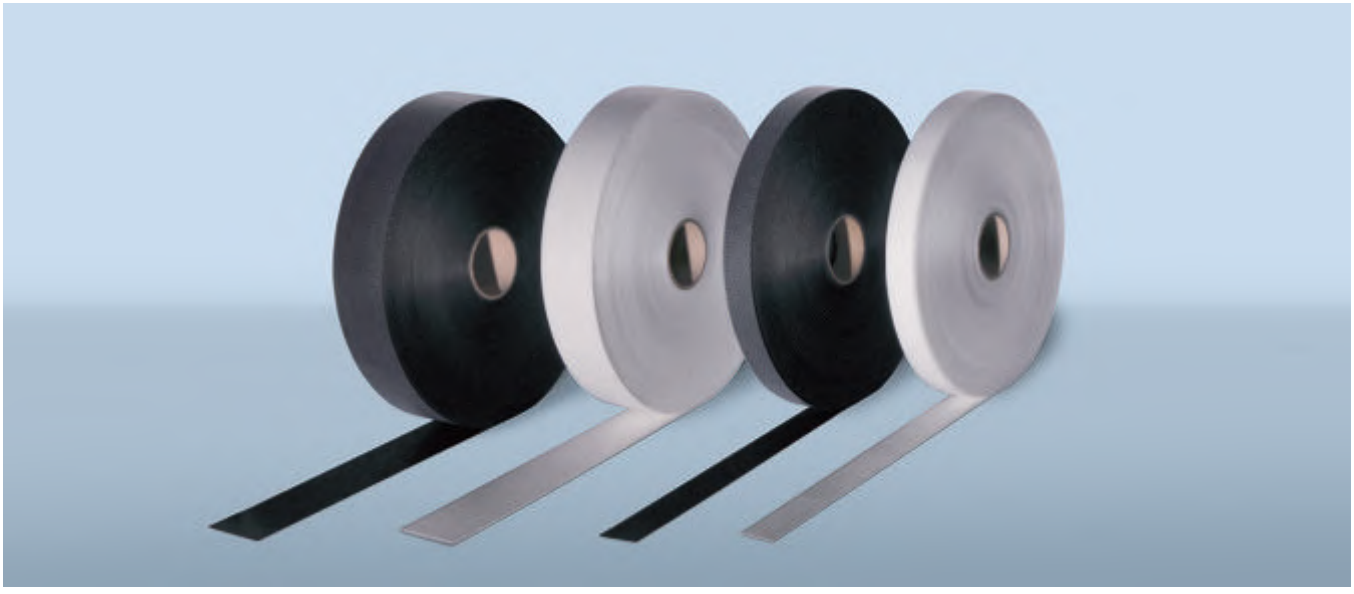
Extra: Wall connection, with coloured shadow gap.

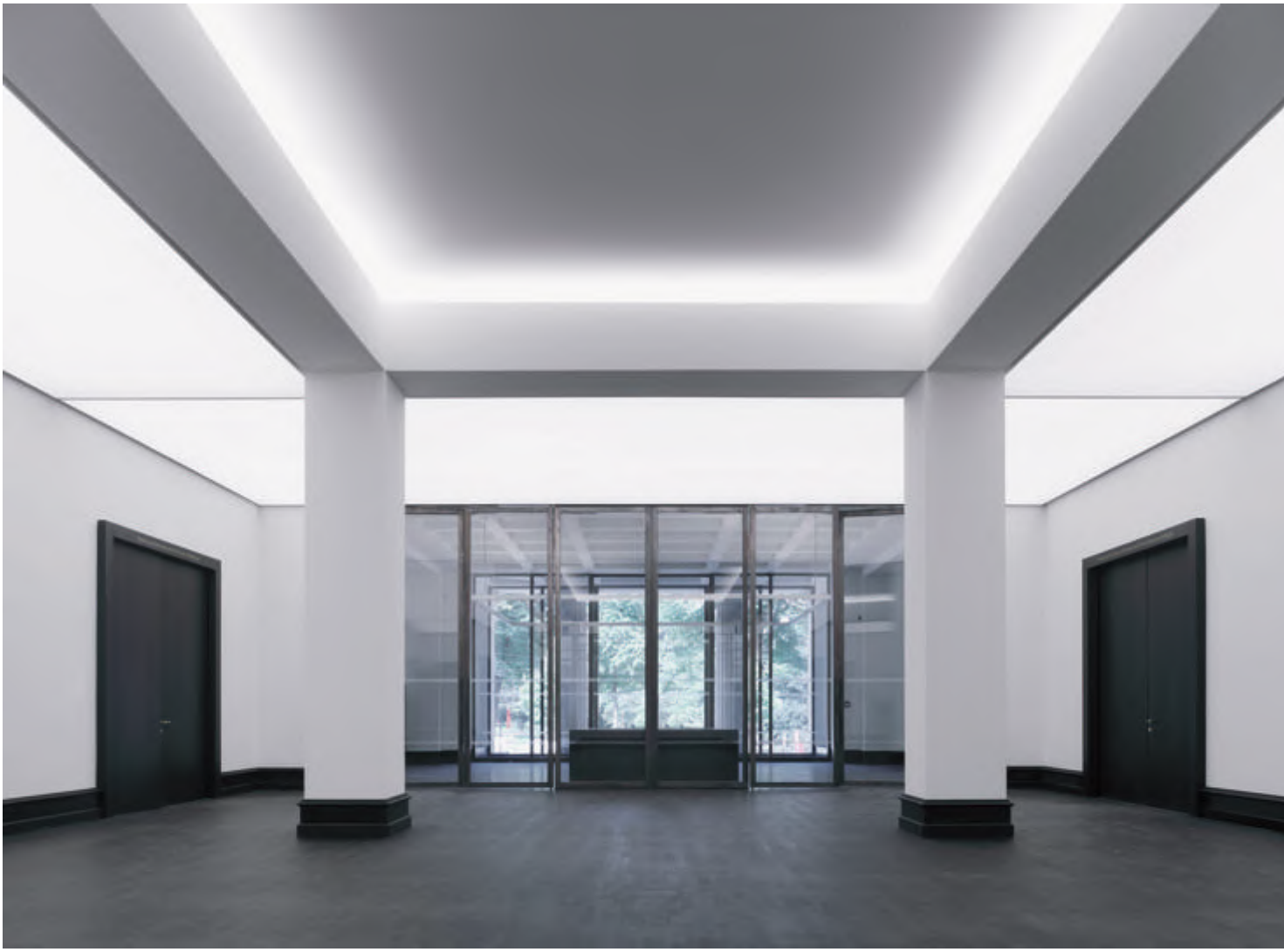
Wall connection by means of a shadow gap (approx. 15 - 20 mm), coloured in black*/white* using VoglDouble Layer Fleece in accordance with manufacturer's instructions.

Extra: Wall connection, with filled joint.

Wall connection by means of filled joint using VoglDouble Layer Fleece as separating tape in accordance with manufacturer's instructions.

* Delete as applicable





VoglFriestape-Set

Perfect Borders and Perimeters

Straight from the Roll

Perfectly simple frieze solutions

Ceiling friezes in record time

There are various ways of creating plain borders and perimeters for perforated plasterboard ceilings. They typically require intensive pre-planning and tedious time consuming work on site. Now there is an efficient, clean and safe solution: The VoglFriestape-Set. With this method, non-perforated frieze areas can be produced quickly and economically, saving a great deal of time and hassle.
The VoglFriestape-Set includes all accessories needed at the job site for making a frieze of any width. Just a few simple steps can produce a neat perimeter or border.

Benefits of the VoglFriestape-Set system:

The unique workmanship provides key advantages when creating frieze areas

- Quick, safe and clean workmanship
- No generation of dirt and dust
- Active sound absorption even with the frieze area
- Holes can be re-opened if required
- Filler cannot sink in, nor holes re-emerge

The VoglFriestape-Set includes the required material, tools and a detailed assembly instruction to ensure top quality workmanship and reliable results.

The right tools at the right time in exactly the right place.

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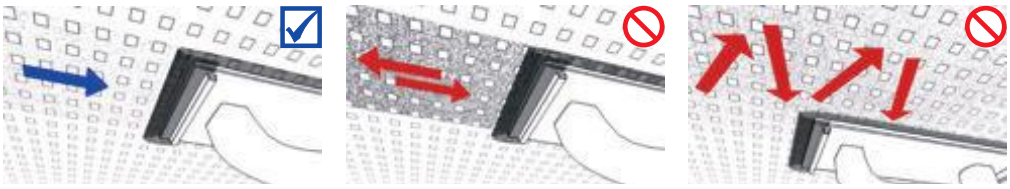
Note: On cardboard surfaces of special types of plasterboard (waterproofed, impregnated, with graphite content, with white pre-coating, etc.), test the suitability of the VoglFriestape-Set on site. Owing to the reduced absorption capacity of these cardboard bases, the VoglFriestape-Set may otherwise cause holes to show or bubbles to form.

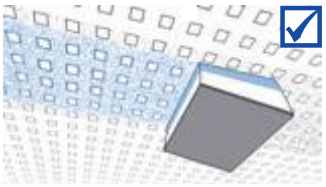
Check cardboard area; sand panel joints and screw holes!

Important! Failure to observe this may cause holes to show!

Unpack tape (remove foil bag) approx. 24 h prior to installation to allow special paper to acclimatise.

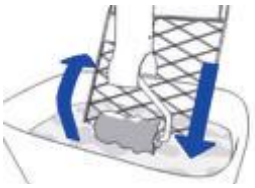


After sanding, wipe joint area with damp sponge to remove any dust or swarf.



Load lambskin roller with liquid glue and roll it downward over paint grid.

Vogl Liquid Glue = ready mix



General site conditions / Manufacturer's instructions:

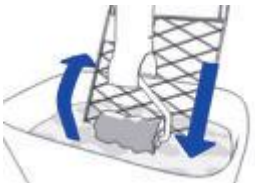
- Always store liquid glue in ** frost free environment **
- Unpack tape (remove foil bag) approx. 24 h prior to installation to allow special paper to acclimatise.
- Stir liquid glue well before use!
- Working temperature should be at least +10 °C and job site temperature not below +5 °C
- Avoid sudden heating and cooling of rooms
- Relative humidity: 50 - 70 %
- Self-levelling, cement or asphalt screeds must be fully dried – no residual moisture
- Apply tape edge-to-edge only, i.e. no overlapping
- Use liquid glue only undiluted

Roll liquid glue onto frieze area, then apply tape (making sure perforation is completely covered) and press it down with lambskin roller. Once tape has dried, open any half-open holes and then close them with joint compound.

Different widths of tape can be combined without difficulty. However, make sure to lay tapes edge-to-edge. Under no circumstances should tapes be overlapped!

Re-load lambskin roller with liquid glue and roll it downwards over paint grid.

Vogl Liquid Glue = ready mix

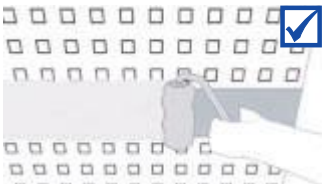


Surface treatment for painters (in accordance with ATV painting work DIN 18363):

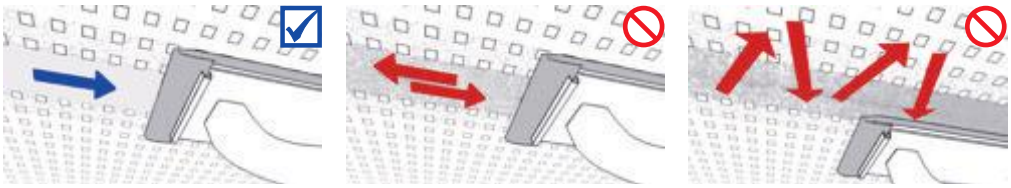
- Only apply coating by roller; spray application is not permitted!
- Prior to application of paint coat, a primer should generally be applied in accordance with manufacturer's specifications
- Manufacturer's recommended drying times for both primer and finishing coat must be strictly observed
- Alkaline coatings are unsuitable for plasterboards
- 3 coats of paint must be applied (1 prime coat + 2 finishing coats), and recommended drying times adhered to
- Always consult system manufacturer‘s technical data sheets for primers and finishing coats

Apply another coat of liquid glue on frieze area, always working "wet on wet".

Drying time: Min. 12 h



If necessary, smooth glue texture on tape‘s visible surface by gently sanding – **do not cross sand**!



Once fully dry, any holes covered with tape can be re-opened using a sharp blade anytime.

Scope of delivery, VoglFriestape-Set:

Vogl Liquid Glue, Vogl Tape, stirring paddle, paint grid, lambskin roller, abrasive mesh, sanding paper, sponge.
VoglFriestape-Set is available in various tape widths (20 mm, 50 mm, 75 mm, 100 mm, 150 mm).

Note: VoglFriestape-Set is only recommended for hole sizes up to max. 20 mm.

VoglFriestape-Set		
Item number	**Item description**	**Tape dimensions in linear metres**
90005324	VoglFriestape-Set 20 mm tape width 20 mm	2 rolls of tape 20 mm = 200 linm
90005325	VoglFriestape-Set 50 mm tape width 50 mm	3 rolls of tape 50 mm = 150 linm
90005326	VoglFriestape-Set 75 mm tape width 75 mm	2 rolls of tape 75 mm = 100 linm
90005327	VoglFriestape-Set 100 mm tape width 100 mm	1 roll of tape 100 mm = 50 linm
90005328	VoglFriestape-Set 150 mm tape width 150 mm	1 roll of tape 150 mm = 50 linm

Illustration shows item 90005325

Extra: Creation of frieze area using VoglFriestape

For extra, create frieze area using VoglFriestape in VoglFriestape-Set, in accordance with manufacturer's instructions.

Frieze width:_____ mm

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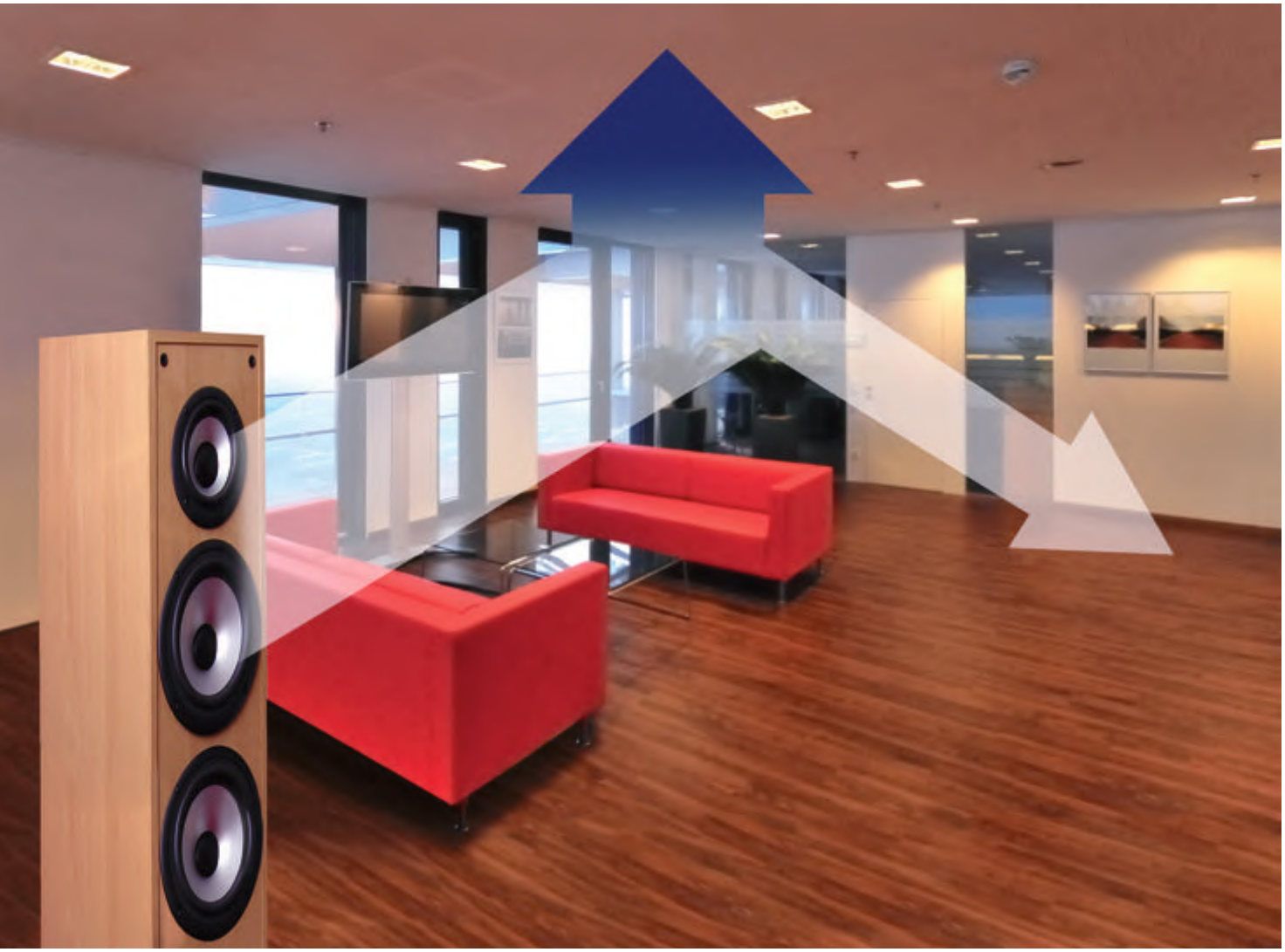
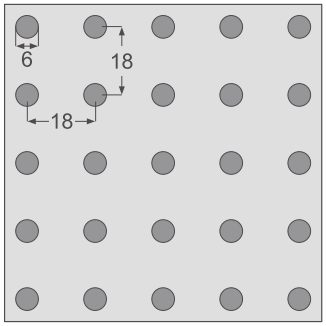
Acoustics and Sound Absorption



Design and Acoustics
Brought into Harmony

Sound absorption values

Acoustic Design Panel 6/18R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

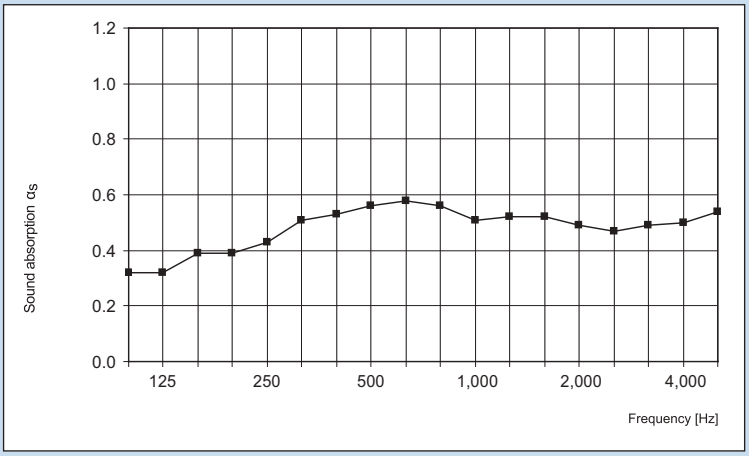
Panel thickness:	th = 12.5 mm
Mass per unit area:	9.10 kg/m²
Perforated area:	8.7 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.55**
Sound absorption class **D**
(absorbing)

Single number rating as per ASTM C 423: SAA = 0.51
Classification as per ASTM E 1264: NRC = 0.50

Air gap: 200 mm



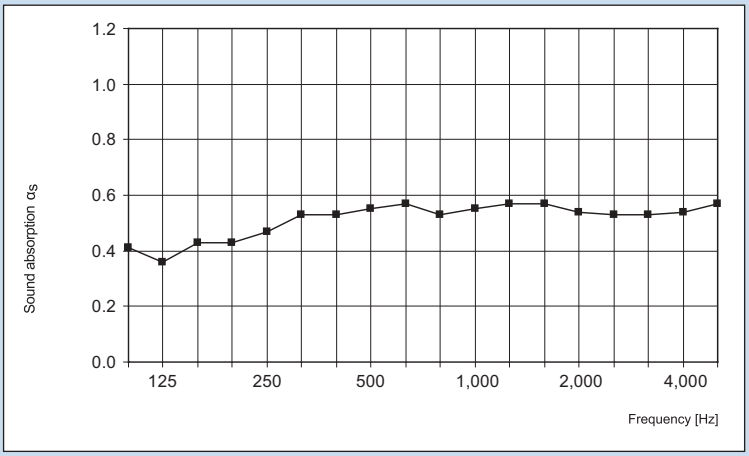
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.45	0.55	0.55	0.50	0.50

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.55**
Sound absorption class **D**
(absorbing)

Single number rating as per ASTM C 423: SAA = 0.53
Classification as per ASTM E 1264: NRC = 0.55

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.50	0.55	0.55	0.55	0.55

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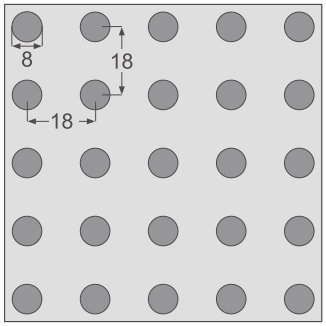
Acoustic Design Panel 8/18R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

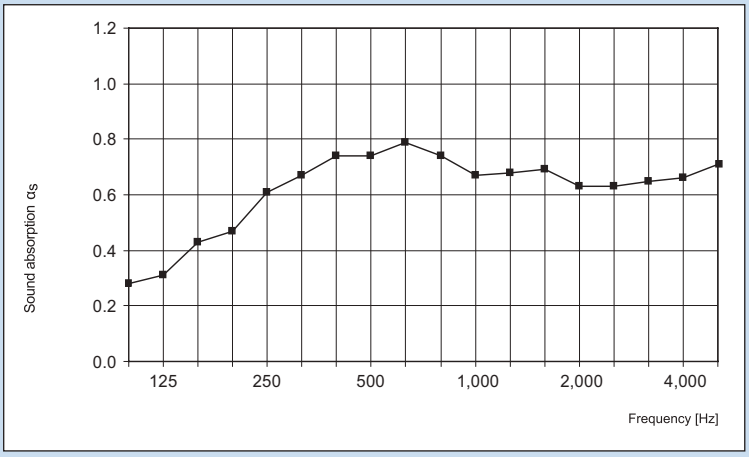
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.50 kg/m²
Perforated area:	15.5 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.67
Classification as per ASTM E 1264: NRC = 0.65

Air gap: 200 mm



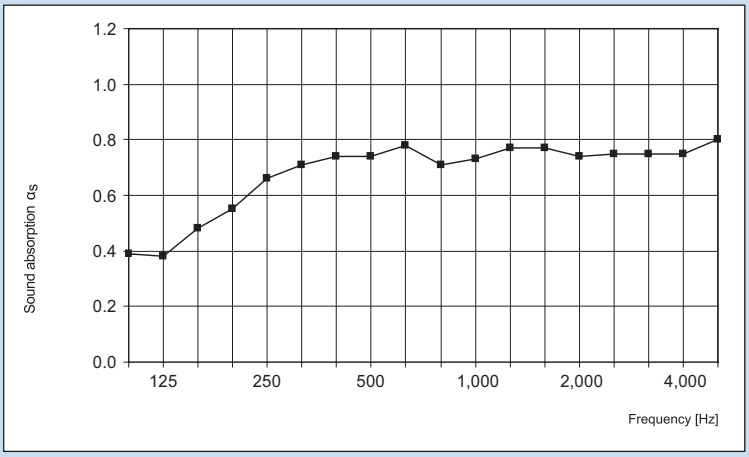
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.60	0.75	0.70	0.65	0.65

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.75**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.72
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.65	0.75	0.75	0.75	0.75

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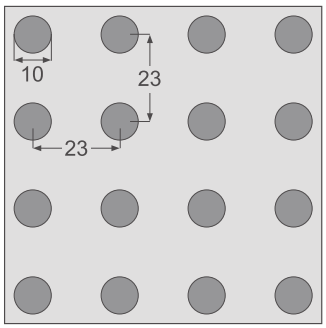
Acoustic Design Panel 10/23R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

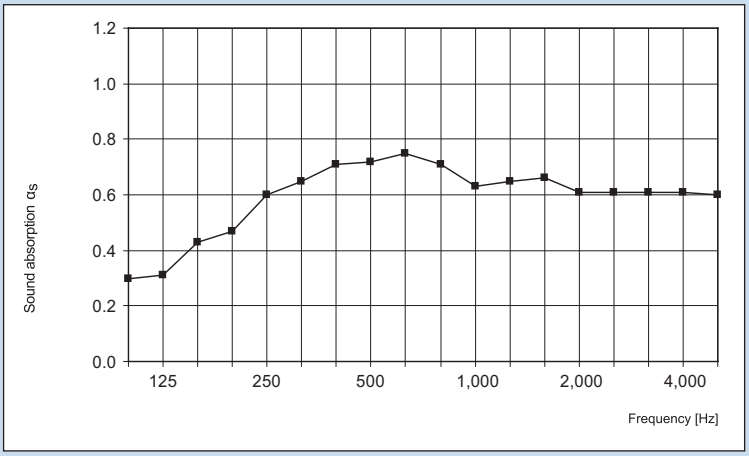
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.50 kg/m²
Perforated area:	14.8 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.65
Classification as per ASTM E 1264: NRC = 0.65

Air gap: 200 mm



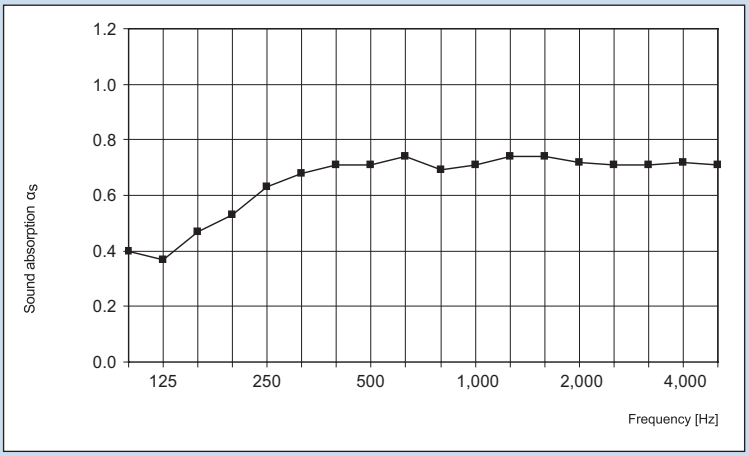
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.55	0.75	0.65	0.65	0.60

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.69
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.60	0.70	0.70	0.70	0.70

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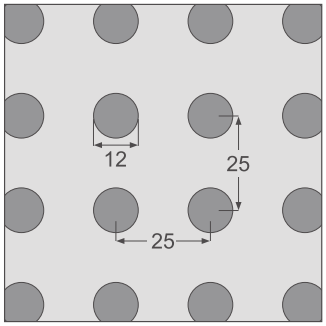
Acoustic Design Panel 12/25R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

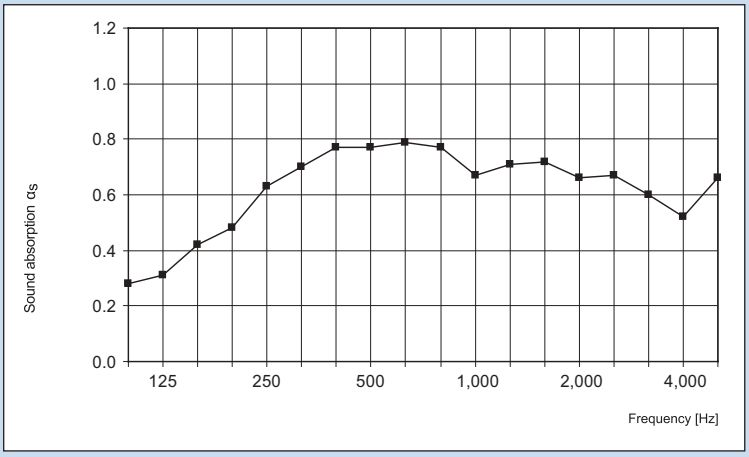
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.20 kg/m²
Perforated area:	18.1 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.69
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



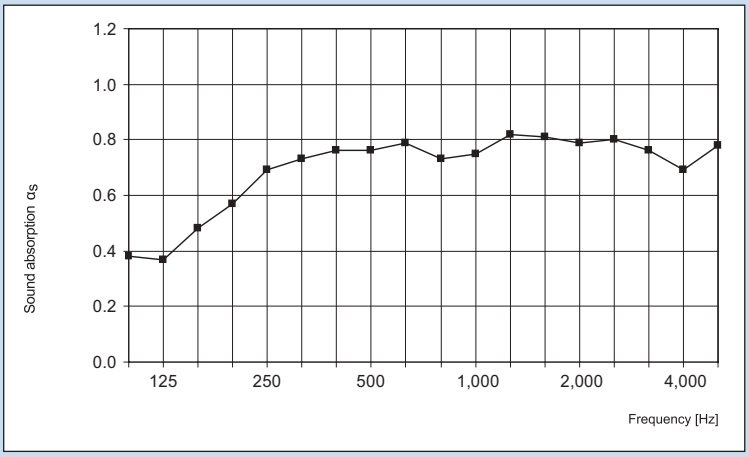
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.60	0.80	0.70	0.70	0.60

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.80**
Sound absorption class **B**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.75
Classification as per ASTM E 1264: NRC = 0.75

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.65	0.75	0.75	0.80	0.75

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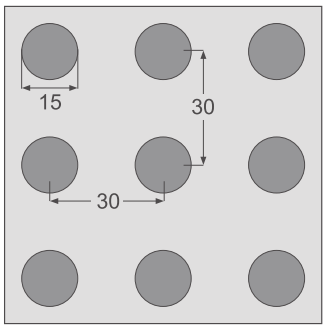
Acoustic Design Panel 15/30R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

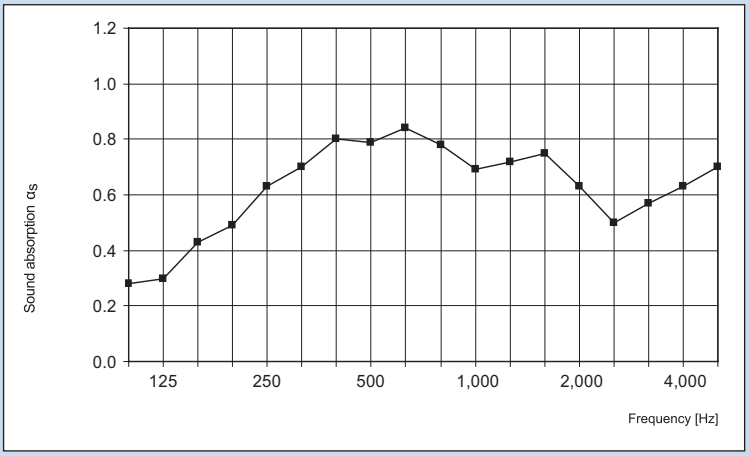
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.00 kg/m²
Perforated area:	19.6 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.75**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.69
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



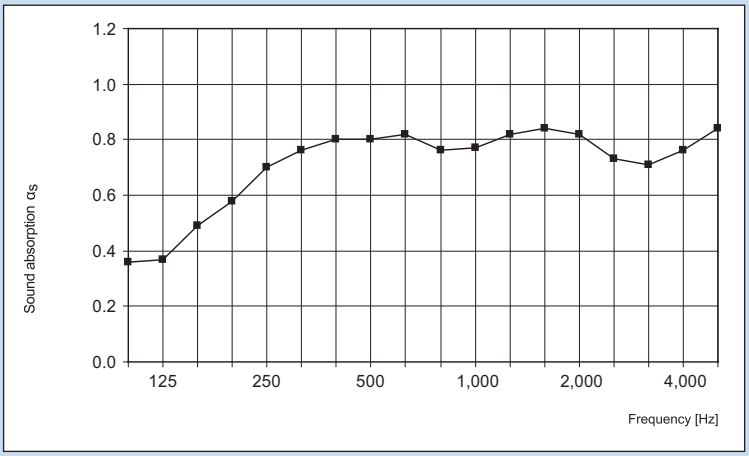
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.60	0.80	0.75	0.65	0.65

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.80**
Sound absorption class **B**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.77
Classification as per ASTM E 1264: NRC = 0.75

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.70	0.80	0.80	0.80	0.75

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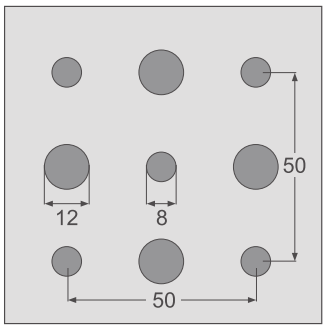
Acoustic Design Panel 8/12/50R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

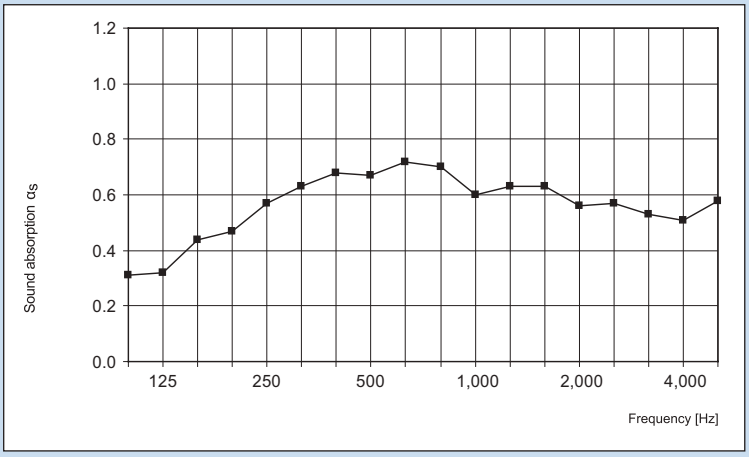
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.70 kg/m²
Perforated area:	13.1 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.65**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.62
Classification as per ASTM E 1264: NRC = 0.60

Air gap: 200 mm



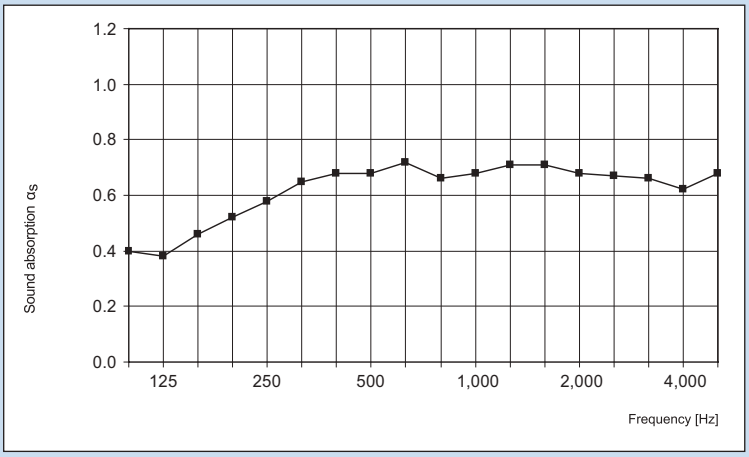
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.55	0.70	0.65	0.60	0.55

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.66
Classification as per ASTM E 1264: NRC = 0.65

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.60	0.70	0.70	0.70	0.65

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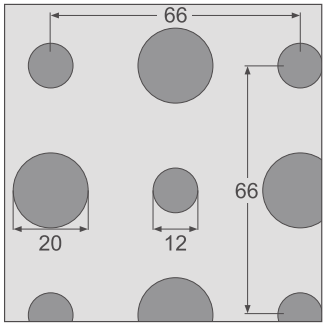
Acoustic Design Panel 12/20/66R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

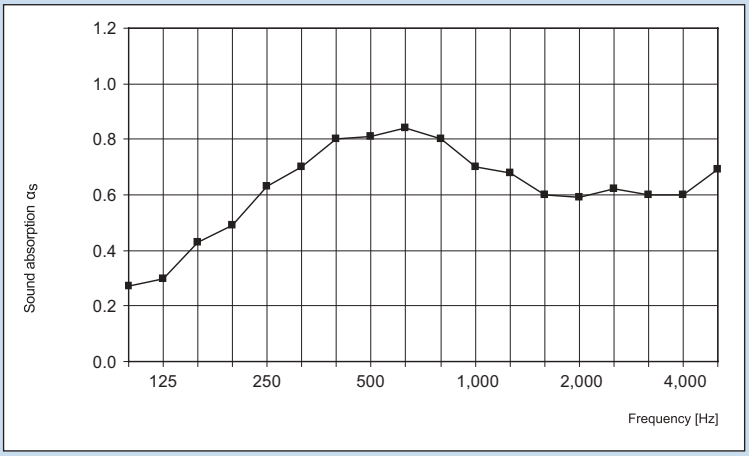
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.00 kg/m²
Perforated area:	19.6 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.70**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.69
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



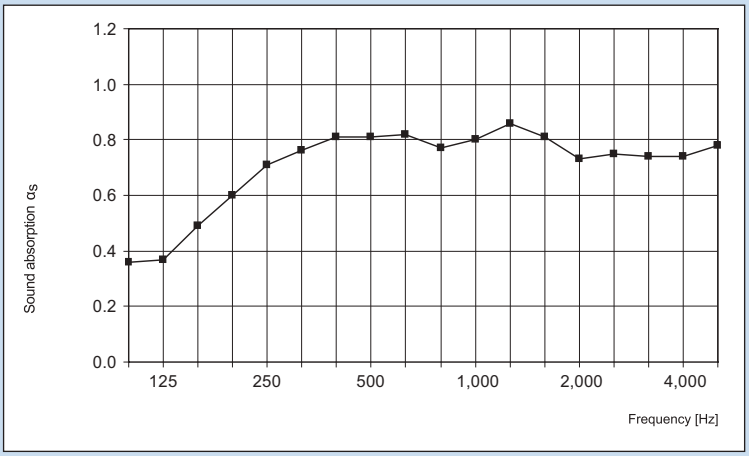
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.60	0.80	0.75	0.60	0.65

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.80**
Sound absorption class **B**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.77
Classification as per ASTM E 1264: NRC = 0.75

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.70	0.80	0.80	0.75	0.75

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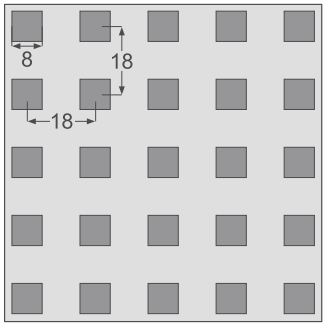
Acoustic Design Panel 8/18Q



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

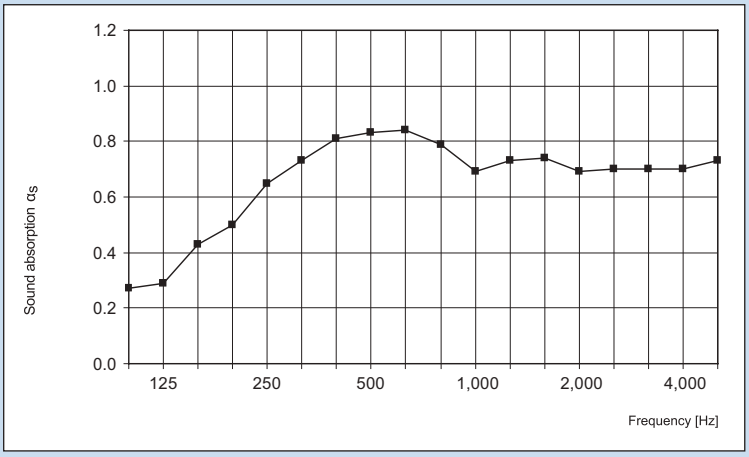
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.00 kg/m²
Perforated area:	19.8 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.75**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.72
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



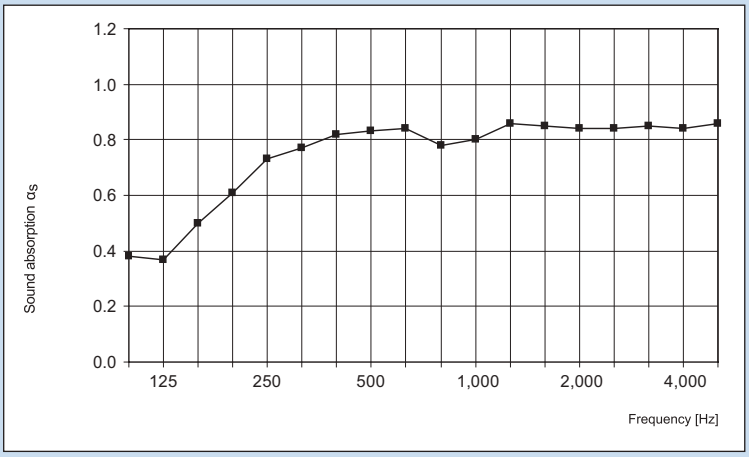
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.65	0.85	0.75	0.70	0.70

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.85**
Sound absorption class **B**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.80
Classification as per ASTM E 1264: NRC = 0.80

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.70	0.85	0.80	0.85	0.85

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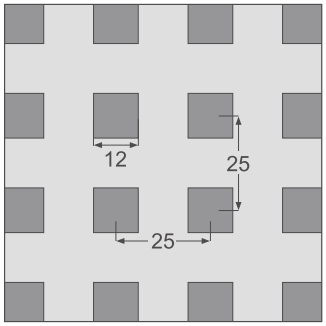
Acoustic Design Panel 12/25Q



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

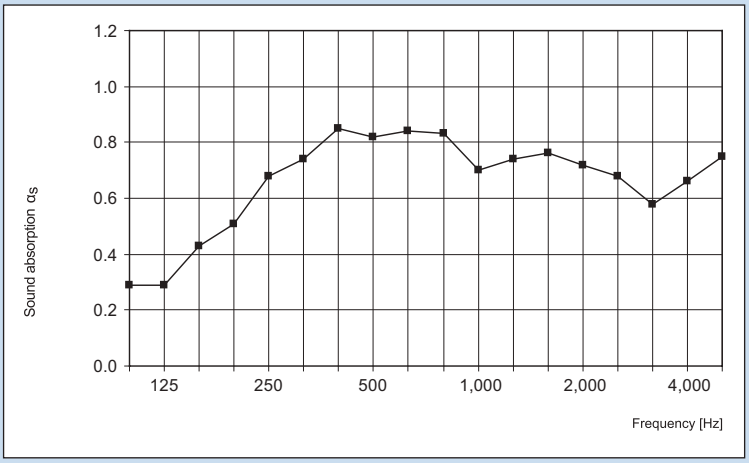
Panel thickness:	th = 12.5 mm
Mass per unit area:	7.70 kg/m²
Perforated area:	23.0 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient **α_w = 0.75**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.74
Classification as per ASTM E 1264: NRC = 0.75

Air gap: 200 mm



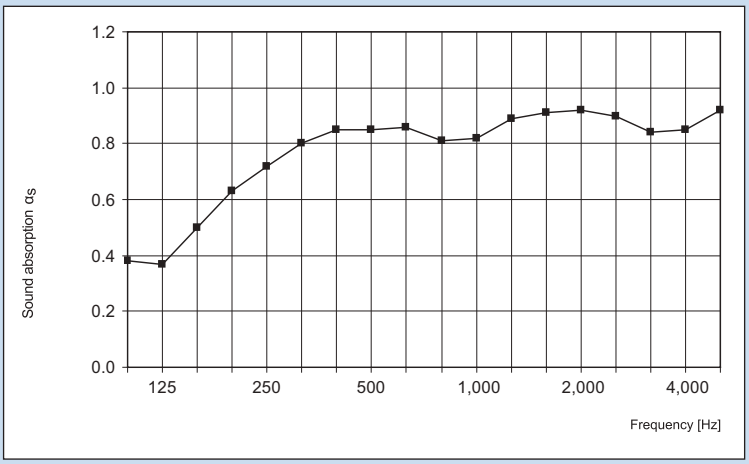
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.65	0.85	0.75	0.70	0.65

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient **α_w = 0.90**
Sound absorption class **A**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.83
Classification as per ASTM E 1264: NRC = 0.85

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.70	0.85	0.85	0.90	0.85

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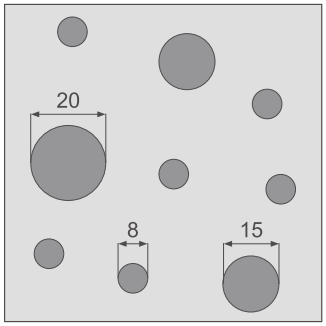
Acoustic Design Panel 8/15/20R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

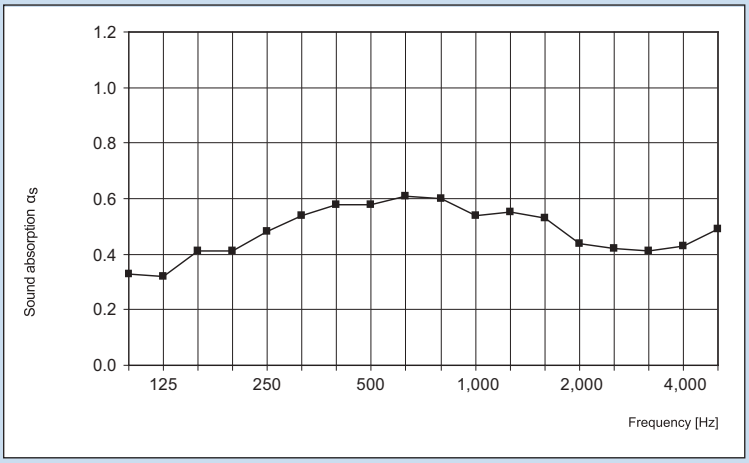
Panel thickness:	th = 12.5 mm
Mass per unit area:	9.10 kg/m²
Perforated area:	9.5 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.55**
Sound absorption class **D**
(absorbing)

Single number rating as per ASTM C 423: SAA = 0.52
Classification as per ASTM E 1264: NRC = 0.50

Air gap: 200 mm



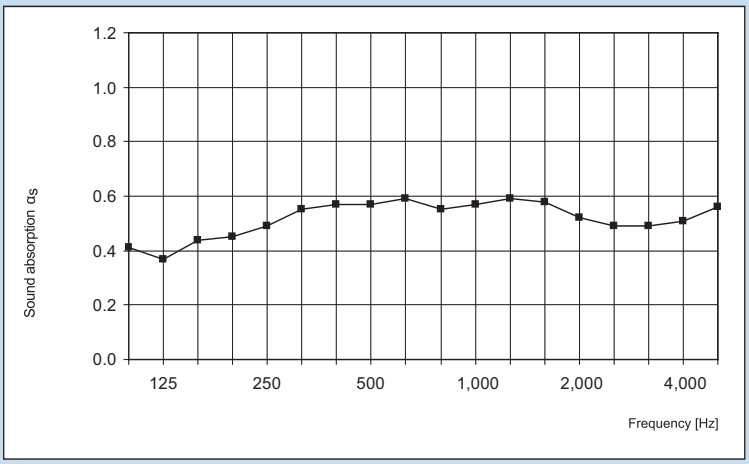
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.50	0.60	0.55	0.45	0.45

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.60**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.54
Classification as per ASTM E 1264: NRC = 0.55

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.50	0.60	0.55	0.55	0.50

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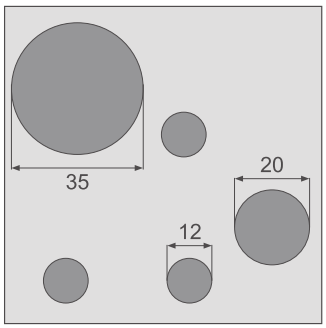
Acoustic Design Panel 12/20/35R



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

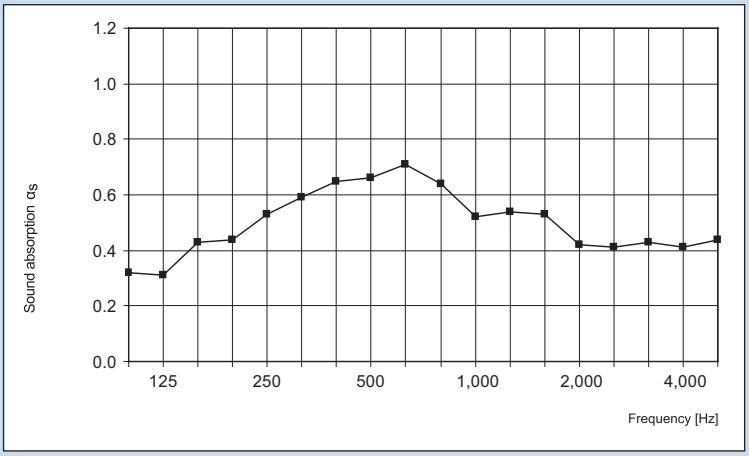
Panel thickness:	th = 12.5 mm
Mass per unit area:	8.90 kg/m²
Perforated area:	11.0 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient **α_w = 0.55**
Sound absorption class **D**
(absorbing)

Single number rating as per ASTM C 423: SAA = 0.55
Classification as per ASTM E 1264: NRC = 0.55

Air gap: 200 mm



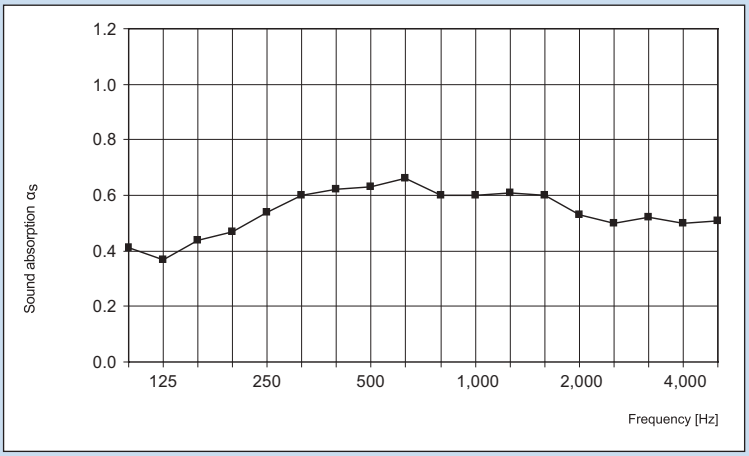
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.50	0.65	0.55	0.45	0.45

Back of panel laminated with
acoustic fleece AV 2010
backed with glass wool
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient **α_w = 0.60**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.58
Classification as per ASTM E 1264: NRC = 0.55

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.40	0.55	0.65	0.60	0.55	0.50

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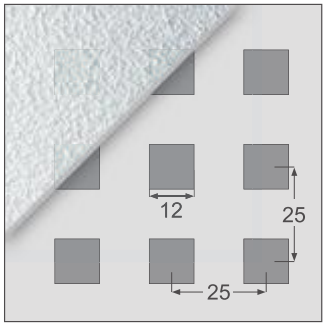
Acoustic Plaster System Panel 12/25Q



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

Panel thickness:	th = 12.5 mm
Mass per unit area:	7.7 kg/m²
Perforated area:	22.9 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

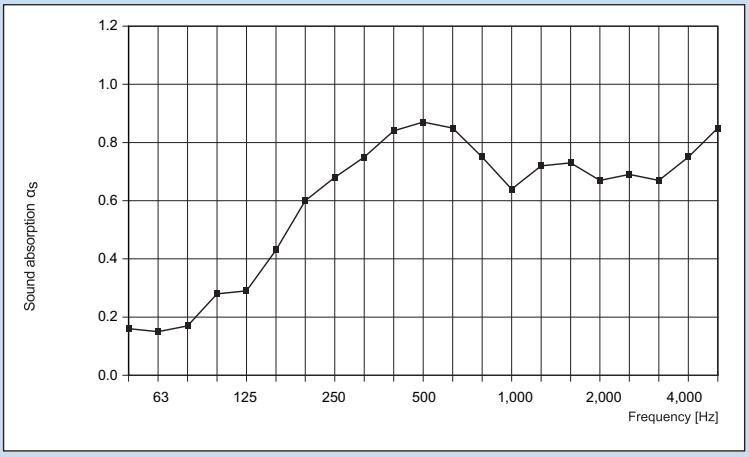
System structure: Wallpapered with plaster base fleece on site and finished with VoglToptec acoustic plaster Nano SF

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.75**
Sound absorption class **C**
(highly absorbing)

Single number rating as per ASTM C 423: SAA = 0.73
Classification as per ASTM E 1264: NRC = 0.70

Air gap: 200 mm



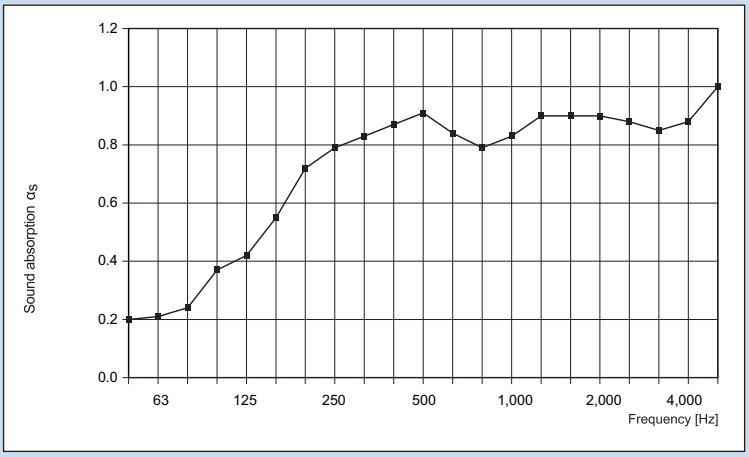
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.35	0.70	0.85	0.70	0.70	0.75

Back of panel laminated with
acoustic fleece AV 2010+
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.90**
Sound absorption class **A**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.85
Classification as per ASTM E 1264: NRC = 0.85

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.80	0.85	0.85	0.90	0.90

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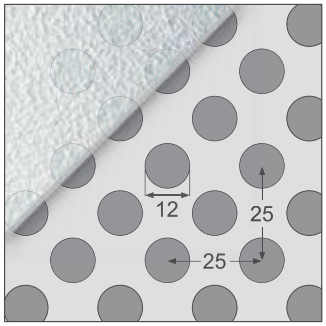
Ultracoustic Panel 12/25R DLV



- Determination of sound absorption coefficient as per DIN EN ISO 354
- Rating of sound absorption coefficient as per DIN EN ISO 11654

Panel thickness:	th = 12.5 mm
Mass per unit area:	6.5 kg/m²
Perforated area:	35.3 %
Fire rating as per DIN 4102:	A2, "non-flammable"
Fire behaviour as per DIN EN 13501-1:	A2-s1, d0

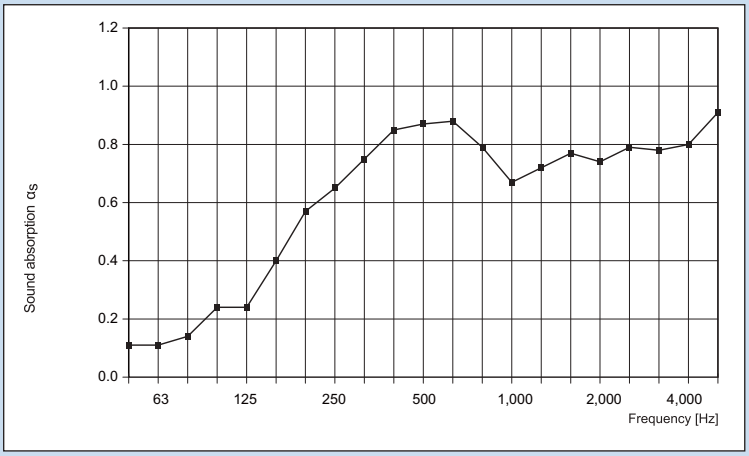
System structure: Wallpapered with plaster base fleece on site and finished with VoglToptec acoustic plaster Nano SF

Back of panel laminated with
acoustic fleece AV 2010

Rated sound absorption coefficient α_w **= 0.80**
Sound absorption class **B**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.75
Classification as per ASTM E 1264: NRC = 0.75

Air gap: 200 mm



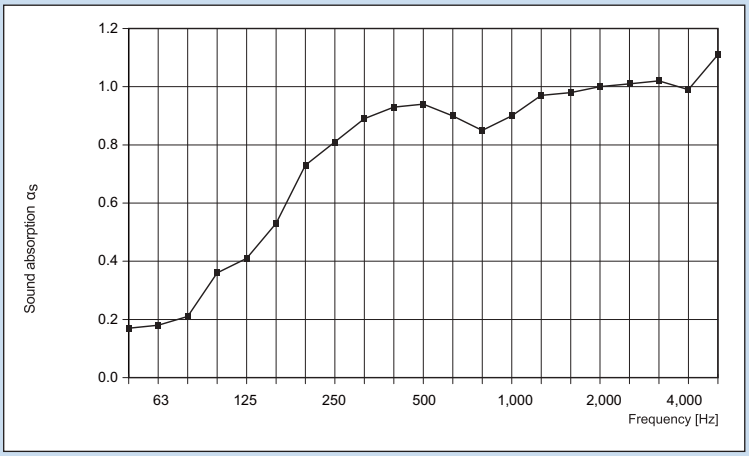
Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.30	0.65	0.85	0.75	0.75	0.85

Back of panel laminated with
acoustic fleece AV 2010+
Mineral wool panel SSP 1, 30 mm

Rated sound absorption coefficient α_w **= 0.95**
Sound absorption class **A**
(extremely absorbing)

Single number rating as per ASTM C 423: SAA = 0.91
Classification as per ASTM E 1264: NRC = 0.90

Air gap: 200 mm



Octave centre frequency [Hz]	125	250	500	1,000	2,000	4,000
Sound absorption coefficient α_p	0.45	0.80	0.90	0.90	1.00	1.00

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☐ **Acoustic plaster system VoglToptec – Applications and processing**

☐ **Framework for acoustic design ceilings ("perforated ceilings")**

☐ **Installation of acoustic design ceilings – Various joint systems**

☐ **Others** _____

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☐ Some more colleagues / customers are interested. I expect to come with ..... people.

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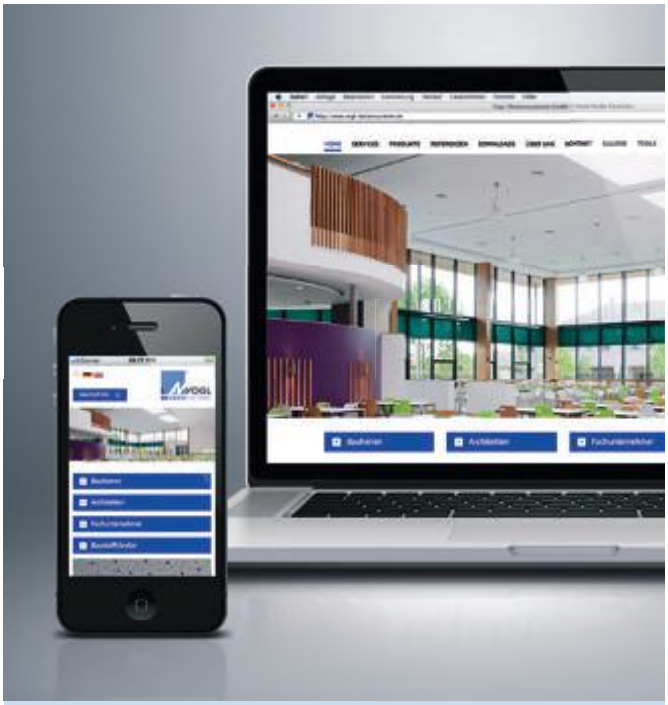

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General Terms and Conditions

§ 1 General

All contracts, deliveries and services are regulated exclusively by our following General Terms and Conditions. They apply with regard to merchants and companies as well as for all future business relationships without the need for explicit repeated reference thereto. Any contradictory General Terms and Conditions, in particular the customer's Conditions of Purchase, are only valid if confirmed by us.

§ 2 Offer and Acceptance, Service Description

Our offers are non-binding. The acceptance of a still valid offer leads to a binding order only if and when confirmed by us in writing. Our written confirmation of the order is exclusively relevant for the terms of the contract. Technical data and descriptions in our product information or marketing materials do not constitute a guaranty of quality or durability and particularly do not guarantee any specific properties. In case of sample-based sales, the Purchaser shall inspect the Goods immediately and report any complaints within a period of five days in writing. After this period has expired, the sample or specimen is deemed to be accepted and the desired contractual relationship comes into effect. Customised orders are only realised when the technical requirements put forth by the Purchaser are unambiguous and feasible and are confirmed by us in writing. Models and tools remain our property, even when the customer has paid for their construction.

§ 3 Prices, Terms of Payment and Default

The prices specified in the respective contract, particularly in the order form or the order confirmation, are valid plus statutory VAT (value added tax). If a price is not explicitly defined, our respective price lists at the time of the contract are valid. The weights and quantities defined by us determine the calculation of the prices unless the Purchaser objects immediately upon receipt of the Goods and proves the contrary. Packaging and transportation costs, and any costs of transportation insurance, are charged in addition.

Unless otherwise agreed, our invoices are payable within 14 days of receipt. After this period has expired, the Purchaser is automatically in default and has to pay interest from then on in the amount of currently five percentage points above the base rate of the European Central Bank.

Discounts are only given if separately agreed upon. The final invoice amount minus shipping costs, packaging costs and pallet value is discountable. If circumstances become known that give rise to justifiable doubt about the Purchaser's ability to pay, we have the right to freely choose to either withdraw from the contract or to demand prepayments or securities for receivables due or not yet due from the entire business relationship, and to make the obligation to deliver dependent on the provision of such securities.

§ 4 Transportation, Transfer of Risk, Place of Fulfilment

Place of fulfilment is our business location in Emskirchen, Germany. Unless otherwise agreed upon, delivery will be made in accordance with Incoterms 2010 EXW Emskirchen. The transfer of risk takes place as soon as the Goods have been provided ready for loading and collection, or, in case of collection, as soon as we have expressed readiness for dispatch in writing. However, not prior to the delivery date agreed upon. Transportation of goods takes place exclusively and in all cases at the Purchaser's risk, even if the delivery is carried out by us, be it with one of our own lorries or freight carriers or other commissioned third parties.

§ 5 Packaging

We charge for the pallets used for shipping. If the pallets are returned carriage paid in undamaged condition, we will accredit the same amount. If the goods are packaged in a different way than the usual standard based on the customer's wishes, these packaging costs will be charged separately.

§ 6 Time of Delivery and Performance

Specific delivery dates are generally not stipulated. Delivery dates indicated serve for orientation only. If in an individual case, a specific delivery date is stipulated, it shall be binding only subject to the timely receipt of the necessary materials and the functioning free of any defects of the finished product in quality control. In case of force majeure, we are relieved from our obligation of delivery until the force majeure has ended. We shall immediately inform the customer of such an event. The impossibility of sufficient delivery with raw materials, the impossibility of obtaining means of transportation as well as strikes and lockouts shall be equated with force majeure. Both partners will determine by mutual consent whether an additional delivery should be effected after the force majeure has ceased to compensate for the deliveries not fulfilled during the force majeure event. We generally do our best to meet agreed delivery dates, with the notification of readiness for dispatch qualifying as fulfilment of the delivery date. In case of force majeure and other unforeseeable circumstances beyond our control, particularly operational disruptions through fire, water and damage to production facilities and machinery caused thereby, non-delivery by our suppliers, disruptions due to lack of raw materials, power failure, strikes or lockouts, traffic disruptions or interventions by the authorities, the delivery time will be extended appropriately. If the delivery is postponed by more than a month, both we and the Purchaser have the right to withdraw from the contract with any claims for damages being excluded. In case of a performance default caused by us, the Purchaser has the right to withdraw if the delivery of Goods fails to take place within a reasonable grace period. In the event of delayed delivery, the Purchaser is entitled to claim compensation in the amount of 1 % of the delivery price per full week of delay, however a maximum of 15 % of the delivery price. Further claims for damages resulting from delay cannot be made.

§ 7 Purchaser Rights and Obligations, Retention of Ownership and Prohibition of Assignment

The Purchaser undertakes to collect the Goods declared ready for dispatch immediately and to pay within the term of payment in compliance with article 3. The Purchaser undertakes to immediately check the Goods for defects and to report any defects detected. The delivered Goods remain our property up to the full payment of all invoices currently due under the business relationship and shall thus be treated with care by the Purchaser and shall be sufficiently insured at replacement value, particularly against loss, damage and destruction as well as against theft, at the Purchaser's expense. The Purchaser assigns any claims arising from insurance policies to us, and we accept this assignment. For enforcing these claims, the Purchaser has to provide address and membership number for the respective insurance. The Purchaser is not permitted to pledge the Goods in our ownership nor to transfer title to the Goods by way of security. Processing of the Goods prior to payment is only allowed upon our express prior consent. Any claims resulting from a resale of the Goods delivered by us are assigned to us, and we accept this assignment. For enforcing these claims, the Purchaser has to provide name and address of his customer. Attachments and any other third-party interventions shall be brought to our attention immediately so that we can exercise our rights arising from the reservation of title. Even through processing, Goods under our retention of title do not become the property or the co-property of the Purchaser. The conclusion of a contract shall by no means constitute our renunciation of any trademark rights and industrial property rights we may have.

§ 8 Warranty and Compensation

We are obligated by the contract to provide the Goods free from material defects and defects of title. The Goods are free from defects when they possess the agreed quality or are suitable for common use and have a quality that is usual amongst goods of the same nature and that can be expected by the Purchaser from this type of goods. Minor deviations in the product properties, in particular minor differences in colour and texture as well as insignificant deviations in length, width and thickness of the material delivered, are not considered defects. If the Goods do not have these properties, the Purchaser can expect subsequent fulfilment within the warranty period, provided that he has complied with his obligation of immediate inspection and notification of defects. It is our decision whether we remedy or deliver replacement Goods. If this is impossible or too expensive, i.e. possible only on the basis of disproportionately high costs, we can refuse subsequent fulfilment. In this case, the Purchaser may withdraw from the contract or, if he keeps the defective Goods, demand an appropriate price discount. Here, the value of the Goods in a state free of defects and the significance of the defect for the fulfilment of the contractually intended results need to be specifically taken into consideration. If the Purchaser withdraws from the contract without any justifying cause, he has to pay lump-sum damages of 30 % of the value of the Goods due to breach of contract unless the Purchaser can prove a minor damage. If our damage is verifiably greater, we may demand higher compensation of damages. The warranty period is one year, or five years in the case of a building and for a product that was used in conformity with its customary manner of utilization and was the cause of the building's defectiveness.

§ 9 Liability

Compensation claims for damages and expenses of the Purchaser are excluded regardless of their legal basis, but especially on account of breach of responsibilities deriving from the contractual obligation or from impermissible acts. This does not apply in the case of acceptance of a guarantee or a procurement risk. Nor does this apply where liability is legally mandated, such as under the Product Liability Act, in cases of premeditation or gross negligence, due to injury to life, body or health, or violation of essential contractual obligations. However, a damage claim for a breach of material contractual duties shall be limited to foreseeable damages typical of the contract, unless gross negligence exists, or the liability covers injury to life, body or health. The above rulings do not constitute any change in the burden of proof to the disadvantage of the Purchaser.

§ 10 Instruction / Product Surveillance

The Purchaser is obliged to carefully observe the product instructions issued by us and to forward them to any downstream users and/or customers with a special advice note. If the Purchaser fails to comply with this obligation, and if this failure leads to product or producer liability claims against us, he shall indemnify us from any such claims by internal arrangement; if circumstances for which we are responsible have been contributory, the indemnification shall be proportionate to the cause. The Purchaser is obliged to observe the products furnished and their practical application. This shall also apply after effected resale. The obligation to product observation shall in particular relate to destructive characteristics of the product which are still unknown, or in relation to use or consequences of use which might impact damages. We must be informed immediately of any knowledge gained.

§ 11 Component Suppliers

We are entitled to appoint third parties for the fulfilment of the contract. If the delivery contains merchandise from third parties, we are not obliged to inspect this merchandise above and beyond the normal incoming goods inspection. We shall not be held responsible for any fault on behalf of the merchandise manufacturer. Any third-party advertising promises do not constitute a quality agreement.

§ 12 Time of Limitation for Claims

Purchaser claims due to services rendered in breach of our duty, including compensation claims and claims for replacement of futile expenditures, expire a year after delivery. Exempted from this are claims for damages according to the product liability law and damages in context with the lack of assured properties; these claims expire three years after delivery.

§ 13 Place of Jurisdiction, Applicable Law

Exclusive place of jurisdiction for all claims resulting from the contractual agreement is the court in charge of our company's headquarters. The law of the Federal Republic of Germany is exclusively applicable; the regulations about the international purchase of Goods (CISG) and of international civil law are expressly excluded.

§ 14 Technical Consulting, Information, Training

Our technical information, suggestions and consultative services are only binding if they are carried out in relation to a specific project and in writing. Furthermore, our specifications and guidelines related to the technical implementations apply.

§ 15 Final Clause, Severability Clause

Additional oral agreements besides the written contracts have not been made. Any changes and amendments require the written form. In case single provisions of these general terms and conditions should be invalid as a whole or in part, the validity of the remaining provisions are not affected. The parties undertake to replace the ineffective provision or provision requiring supplementation or interpretation with a new provision which best corresponds to the intended economic purpose.

Status: 11/2015

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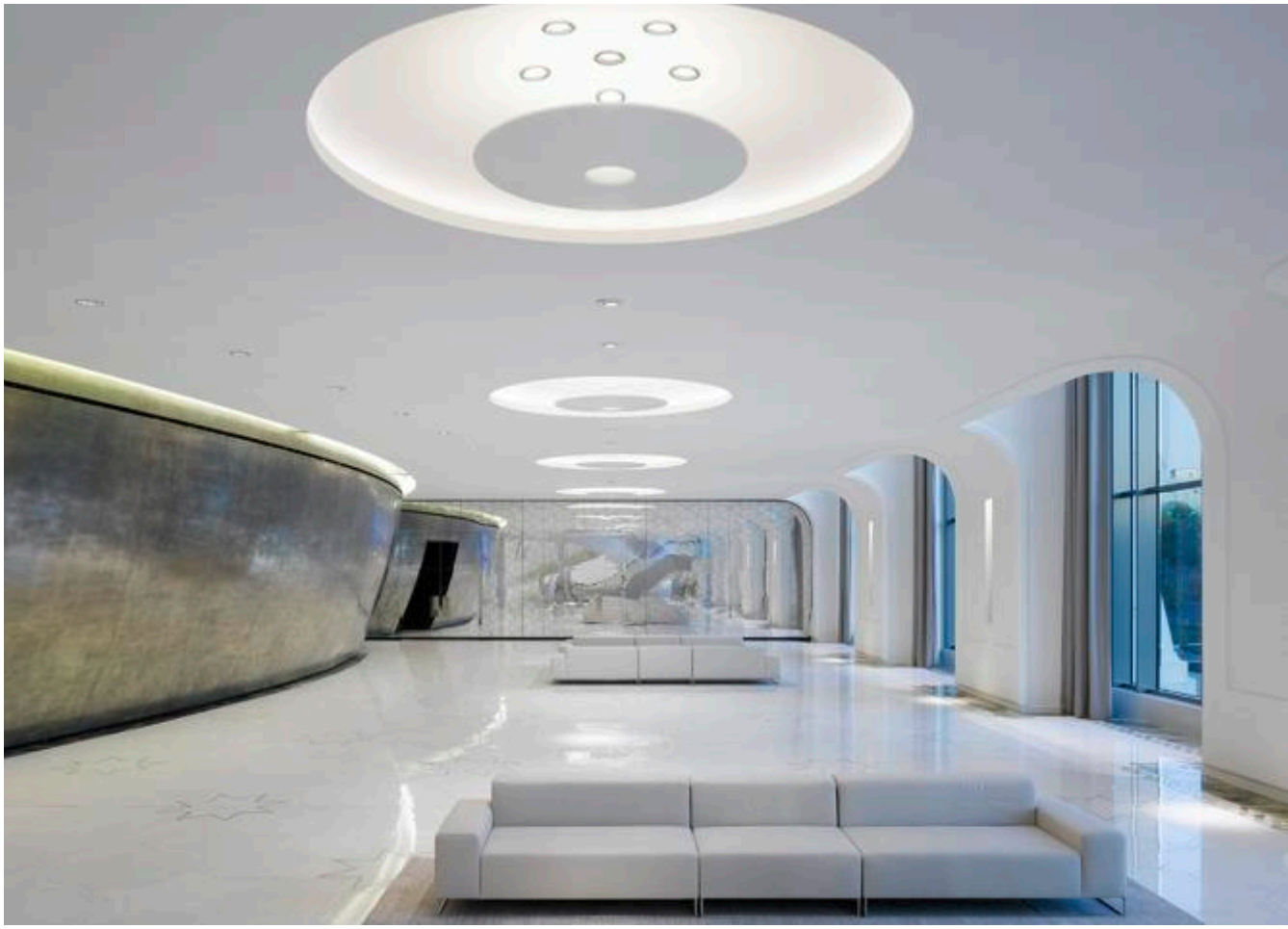

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