

DESIGN

TROLDTEKT®
ACOUSTIC
SOLUTIONS

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Designed for flexibility

We spend by far the majority of our time indoors. In office buildings, schools, sports centres, restaurants, cultural centres and our homes. It is therefore important that our indoor environments are comfortable for our eyes, ears and health. Architects therefore need the freedom required to unite form and function when designing rooms and spaces.

Troldtekt design solutions allow you to combine superior acoustics and a healthy indoor climate with expression and character. You can design your own patterns and rhythms – and vary and scale the various design solutions to create a very cohesive sense of harmony on ceilings or walls. In a nutshell, it's not about the panel, but the surface.

The series of design solutions marks a new chapter in Troldtekt's history. We began in 1935 with industrial acoustic panels, but in recent years we have been developing acoustic solutions for modern architecture. We have added exciting designs along the way, which have won international awards. We have now taken our design solutions to the next level, and launched a whole series which is suitable for mass-production using modern technology, and which is being marketed at competitive prices. All Troldtekt design solutions – both in natural wood/natural grey and painted in our standard colours – have achieved Cradle to Cradle certification at Gold level. The distinctive solutions are thus a natural choice in buildings that are documented as being sustainable.

In this brochure you will find inspiration and facts about the flexible design solutions. The product range is wide, with countless possible combinations to give your projects an individual look. See how some of the solutions are used in practice, and read an interview with the architect behind the design solutions.

Enjoy your reading!

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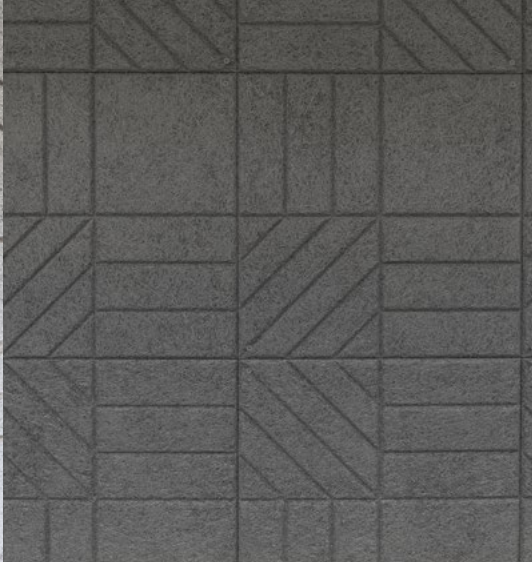
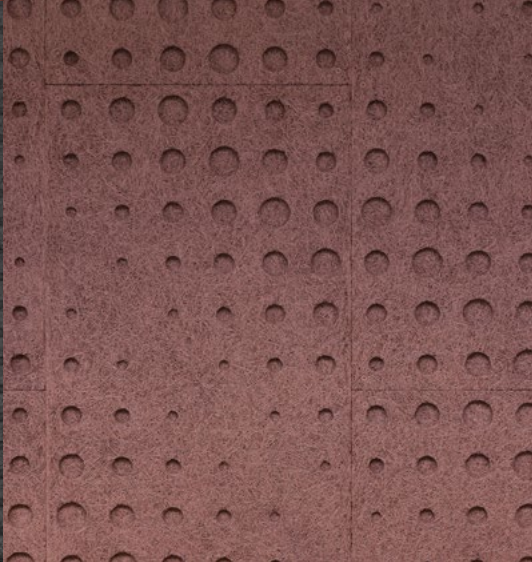
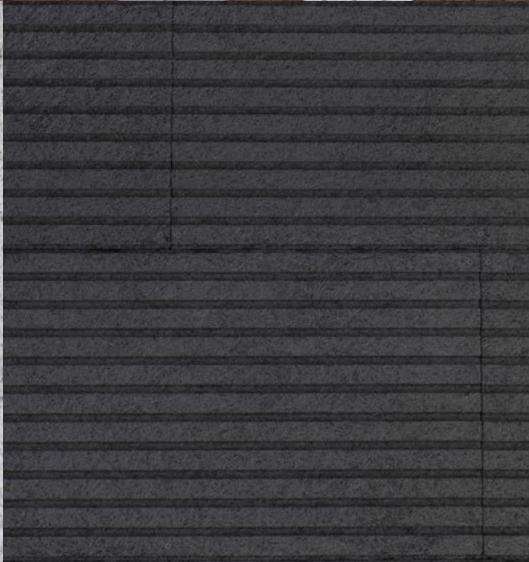
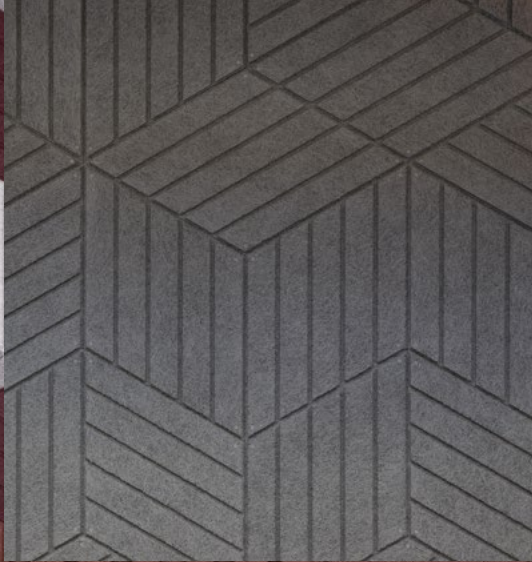
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The content of this brochure reflects Troldtekt's product range, certifications and approvals at the time of publication. We are subject to any errors and changes.





**GERMAN
DESIGN
AWARD
WINNER
2020**



**DETAIL
PRODUCT AWARD
NOMINEE 2020**



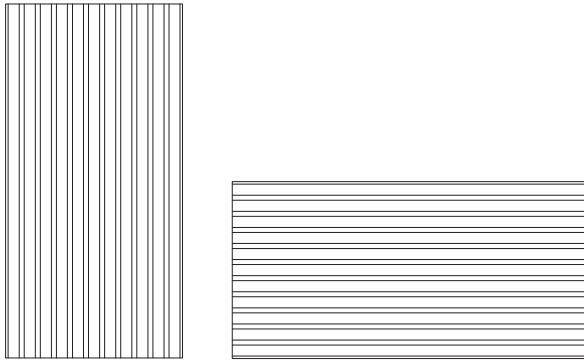
Troldtekt® line

Troldtekt line provides an elegant, uniform ceiling surface with no visible joints, and the peaceful look characteristic of timber batten ceilings.

Troldtekt line acoustic panels have lengthwise surface grooves. Each panel has ten evenly spaced grooves.

When the acoustic panels are joined together, the grooves are continuous along the entire surface, offering a seamless look. Each long side of the panel has a half groove, so that an extra groove is formed where panels are joined on the wall or ceiling.

Troldtekt®
line



Troldtekt line installed vertically



Troldtekt line installed horizontally





Intimate restaurant experience with Troldekt® line

At Restaurant Strandtangen in the Danish town of Skive, honest Nordic food goes hand in hand with an elegant and stylish interior. The centre-piece is the black acoustic ceilings with milled grooves, which create a very special atmosphere.



Project: Restaurant Strandtangen in Skive, Denmark
Architect: Interior design in collaboration with designer Søren Vester

Troldtekt products:

Ceiling and wall panels: Troldtekt line

Colour: Black

Structure: Ultrafine (1.0 mm wood wool)

Installation: With Troldtekt screws

The smell of the sea. An elegant and timeless interior. The taste of food made from excellent ingredients. That is what you can expect when you visit Restaurant Strandtangen in Skive. The restaurant lies beside the fjord, and offers gastronomic experiences featuring the best Danish cuisine, in a beautiful setting.

"We prepare food without bells and whistles. It is Nordic style, with all the good, local ingredients that entails," explains restaurant manager Maria Nørgaard, who leases the premises together with her husband Halldor Asmundsson.

Received some TLC

Halldor, who is originally from Iceland, has worked as a chef at a string of restaurants. He needed no time for reflection back in 2014 when he took over Restaurant Strandtangen. However, after a number of years, the site needed a breath of fresh air, and the restaurant was transformed into a fine example of Danish design during a holiday period.

"The restaurant needed some TLC. We wanted it to be a more inviting setting for social interaction, while allowing guests to enjoy scenic views and good food," says Maria. The couple therefore contacted designer Søren Vester.



The result of the partnership is an intimate restaurant with dark oak floors and black Troldekt acoustic panels on ceilings and walls, giving it an exclusive, elegant look.

Design with lines and shadow play

Despite the restaurant's simplicity, it is clear that every detail in the interior design has been carefully considered. For example, the black leather sofa has been elegantly built into the wall. The Troldekt acoustic panels are also a key element, and the design solution Troldekt line was chosen.

"The black acoustic panels with milled lengthwise grooves are the focal point. They create a lovely shadow play, and a spatial experience that allows guests to immerse themselves in the food, the conversation and the beautiful view," says designer Søren Vester.

"The stylish look can be seen everywhere. For example, serving staff wear rustic leather aprons that complement the interiors superbly.

A restaurant with personality

Together with Maria and Halldor, Søren Vester has also sought to ensure that the interior design reflects the restaurant menu and the personality of the owners.

"When you enter the restaurant, you immediately feel welcome. This is largely due to Maria and Halldor's great hospitality, which is underscored by the interior," says Søren Vester.

Examples of this include the warm fire in the fireplace, the subdued lighting and the large glass-walled wine room, which creates an atmosphere of elegance and exclusivity. The menu at Restaurant Strandtangen is also subtly reflected in the interior design.

"The fjord plays a major role at the restaurant – as the scenic backdrop and in the menu. If you look closely you can also see it in the interior, which has a maritime look and beautiful pictures of Limfjord landscapes," says Søren Vester.



Interview: Why the designer chose Troldekt

Søren Vester feels strongly about choosing sustainable materials, and is also very excited about the design solution Troldekt line which transforms the surface into a whole.

Why did you choose the design solution Troldekt line for Restaurant Strandtangen?

"I think it's great to see how Troldekt has challenged and developed its core product in a new design solution. It's made of the same simple material, but Troldekt has experimented with the acoustic panels and used them to create an exciting new look. Troldekt line removes the boundaries between acoustic panels, making the surface a seamless whole. It's quite brilliant in my view."

What does it mean for you that Troldekt works with sustainability?

"As a designer, my job is to create new things. But I want to make people aware that we must all contribute more than we take away. This can be difficult in our consumer society, but I can take an important step by choosing

sustainable solutions, and Troldekt is a reliable choice in this respect. If you want to change the interior design one day, the acoustic panels can be easily dismantled. And it is an affordable solution. This is very appealing as a professional designer looking for the right materials.

Why is it important to look at acoustics as part of interior design?

"All rooms are for people, so when I start working on a new interior design I look at how I can cater for human senses. One of these is hearing, and acoustic improvements are therefore always part of my solutions. Rooms that you cannot talk in are rooms that you cannot live in. As I often say, 'happy people are noisy people', and a good sound environment is therefore very important. Acoustic solutions must never be add-ons to the room, but must be thought-out and integrated solutions on walls and ceilings."

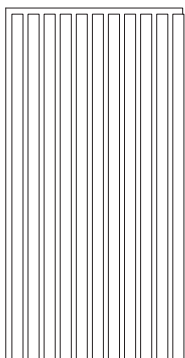
Troldtekt® line design

Troldtekt line design has milled grooves in the surface and overlapping edges on all sides.

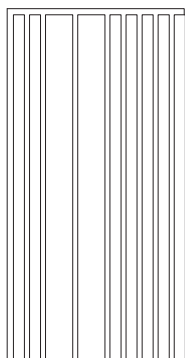
When you join the panels, the result is continuous grooves with a seamless look and invisible joints. You perceive the surface pattern as a whole, and it is difficult to detect where the panels meet.

The solution is available in four variants, which can be freely combined. You can choose to have equal or varying intervals between the grooves, determining the rhythm of the resulting look.

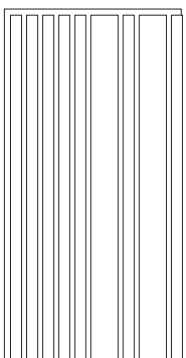
Troldtekt®
line design 11



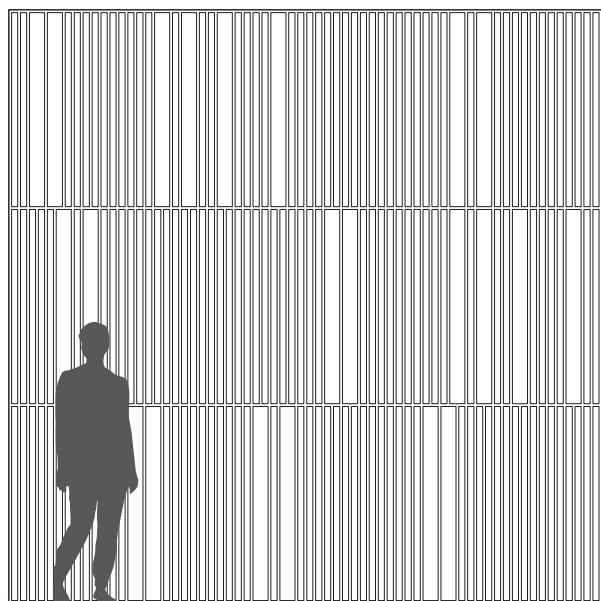
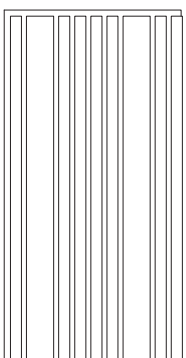
Troldtekt®
line design 11 4/6



Troldtekt®
line design 11 7/10



Troldtekt®
line design 11 3/9



Troldtekt line design installed vertically



Troldtekt line design installed horizontally



Greater freedom for architects

The series of Trolldtekt design solutions came into being out of a wish on the one hand and a rule on the other. Our wish is to give architects the greatest possible flexibility when designing ceilings and walls for superior acoustics. The rule is that the solutions must be industrially produced. Hear what the architect behind the design solutions has to say.

It was a task out of the ordinary when Trolldtekt's in-house architect, Michael Christensen, was asked to design a range of new acoustic panels. "Come up with ten new design solutions, and we'll choose the top three," read the brief. A little over six months later, almost all of the original proposals had been realised as a brand new design series. Later, two more designs were added, so that the series now counts 12 different solutions.

"During the process, we realised that we actually felt like launching a broader range of solutions to offer the greatest possible architectural freedom. The aim of the design series is to appeal to architects who want the chance to design out-of-the-ordinary interiors, but who also have to keep within a reasonable budget," says Michael Christensen.

About Michael Christensen

- Graduated as an architect, MAA, from the School of Architecture in Aarhus in 2002.
- Became involved with Trolldtekt A/S in 2003, as an external consultant preparing drawings and BIM objects for architects.
- He now holds a permanent position at Trolldtekt, working with product development, technical advice and documentation for architects.
- He has previously worked for the Ginneruparkitekter A/S and RUM design studios.
- He completed training as a DGNB consultant in 2018.





It's all about the planar surface

The various design solutions in the series have two primary features in common: First, they are mass-produced and therefore competitively priced. Second, they are designed to give ceiling and wall surfaces a seamless look.

"The designer Søren Vester dropped by, and something he said ended up inspiring my work with the various designs. 'It's not about the panel, but about the planar surface,' he said, and this sums up the new line nicely. Each solution is intended to form a complete acoustic surface, whether large or small," says Michael Christensen.

"We have also made a conscious effort to ensure the solutions are flexible, so the panels can be combined in ways that offer great variation in the design," he adds.

Based on CNC technology

As the first step in the development of the new solutions, Michael Christensen and his colleague Bjarne Mortensen attended a course on CNC technology.

"We learned about the possibilities offered by CNC machining and about programming, which we could carry over to our machine in production. Since then, we have spent many long evenings working and having fun with prototypes on the CNC milling machine and other types of milling machines," says Michael Christensen.

While he is the one who drew up all the new designs, he stresses that the new solutions are the result of teamwork. In addition to input from Bjarne Mortensen, a product developer, a large design group from sales and the Troldekt management team have helped refine the product series along the way.

From Nordic to expressive

His architectural background and experience from design studios have equipped Michael Christensen well for his work on the new designs.

"As an architect, it is a classic discipline to use standard products to design something unique or with special character. This is the challenge our new design series attempts to meet," he says.

"We've sought to create a marriage of form and function in a wide range of products. Some of the solutions dovetail perfectly with Nordic design – with straight lines and angles – while others are more expressive."

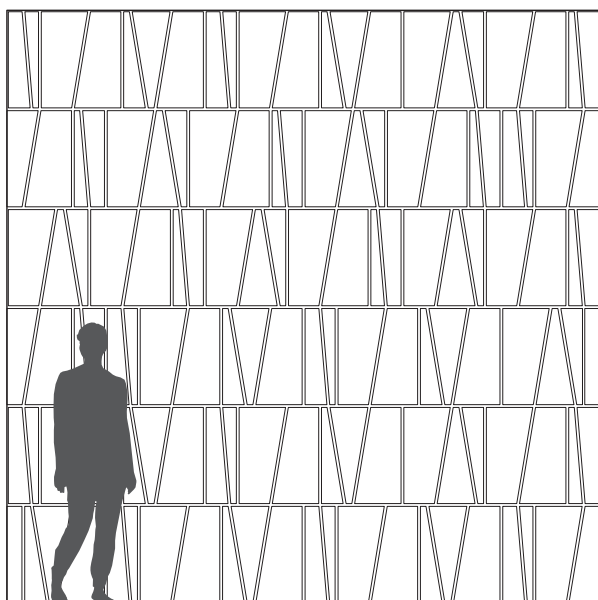
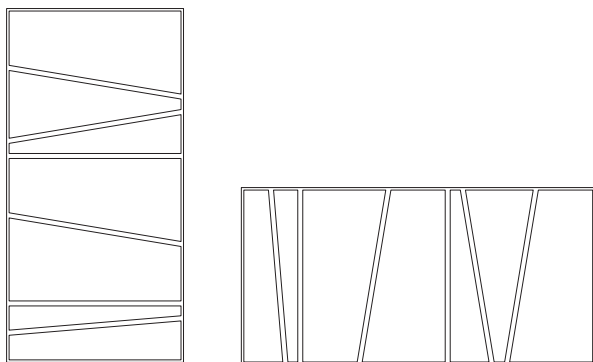
Michael Christensen reveals that the simple, modular design variants – Troldekt line, Troldekt line design, Troldekt v-line and Troldekt tiles – are his personal favourites.

Troldtekt® tilt line

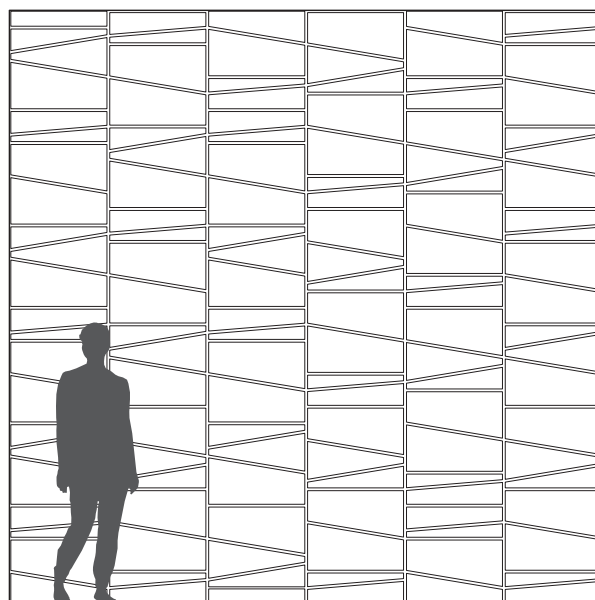
This solution results in a multifaceted surface. Each acoustic panel has six angled grooves, and milled half grooves along the outer edges. This results in continuous straight grooves at the joints between panels, and an elegant combination of angled and straight grooves.

If the panels are installed in offset rows, you can choose to have some of the angled grooves continue between rows. You can also freely vary the offset, or turn some panels 180 degrees, to give the design a different rhythm.

Troldtekt®
tilt line 7



Troldtekt tilt line installed horizontally



Troldtekt tilt line installed vertically

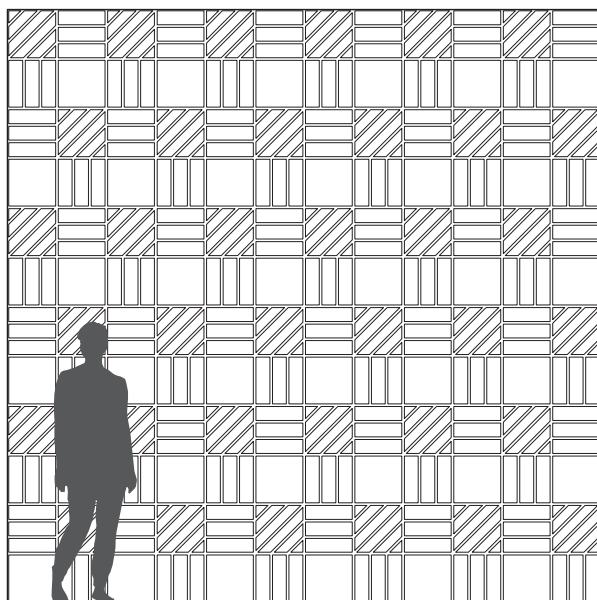
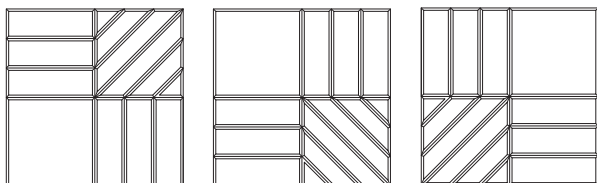


Troldtekt® puzzle

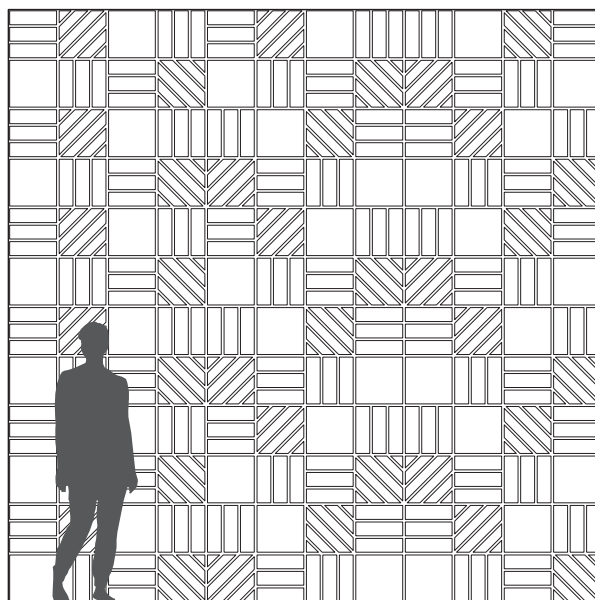
This solution gives you the freedom to create a surface with repetitive or random patterns. Troldtekt puzzle is made up of square acoustic panels with four equal sections. Three of the four sections have diagonal, vertical or horizontal grooves cut.

You can continue the pattern from panel to panel, and vary the effect by offsetting the rows or turning some panels 90, 180 or 270 degrees. It is entirely up to you which 'puzzle' is presented on the surface.

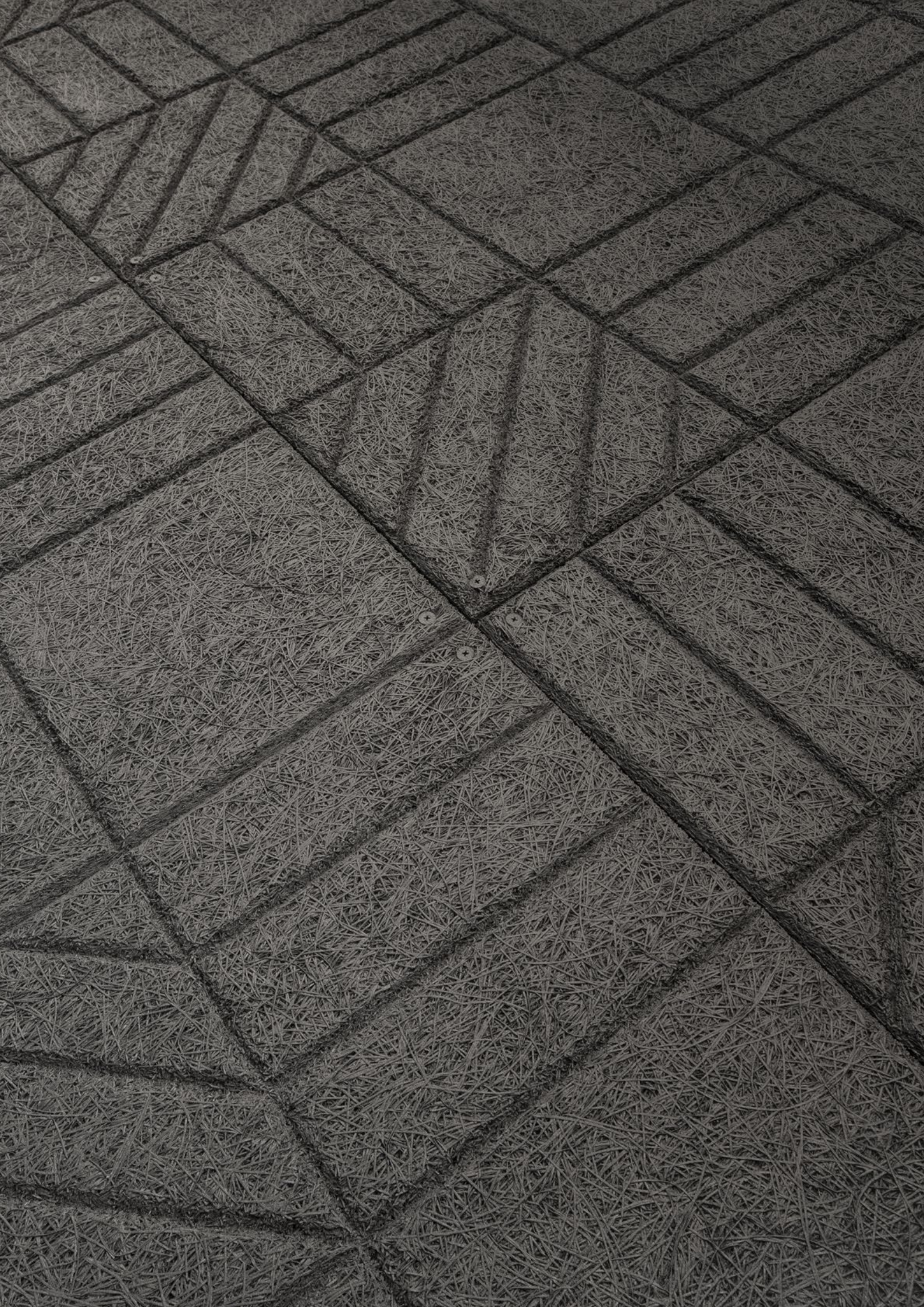
Troldtekt®
puzzle



Troldtekt puzzle installed in classic pattern



Troldtekt puzzle randomly installed

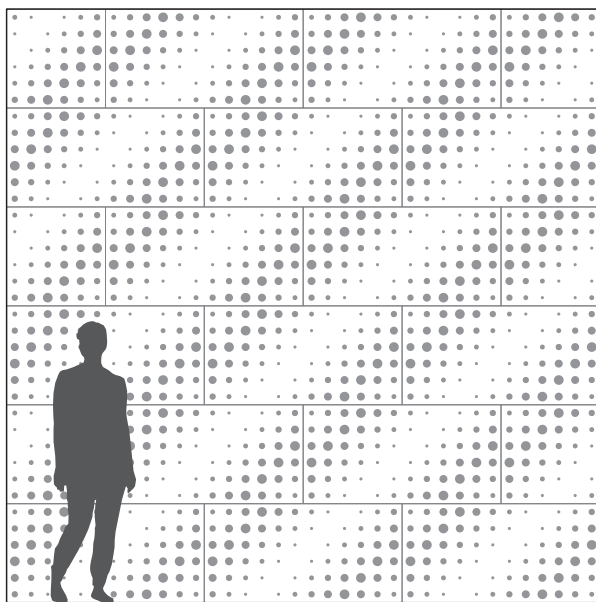
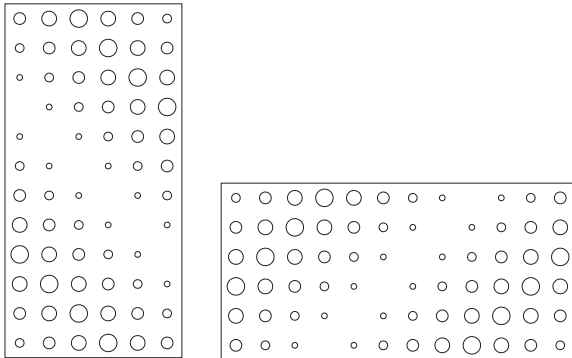


Troldtekt® dots

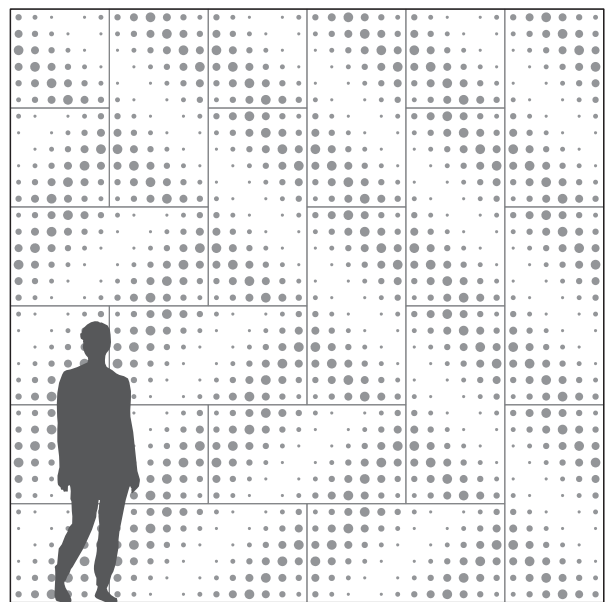
If you want a cohesive surface with a dynamic pattern of circular elements, choose Troldtekt dots. The surface of each acoustic panel features 66 round indentations, varying in size from 20 to 60 millimetres in diameter.

The size of the indentations increases and decreases in a pattern across each panel – and this pattern is reflected in the entire surface when the panels are installed in stretcher bond.

Troldtekt®
dots



Troldtekt dots installed in horizontal stretcher bond



Troldtekt dots installed in an alternative pattern



Troldtekt® curves

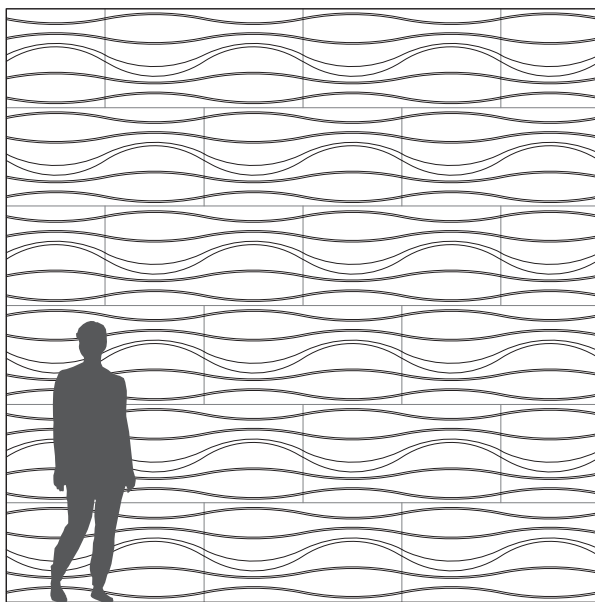
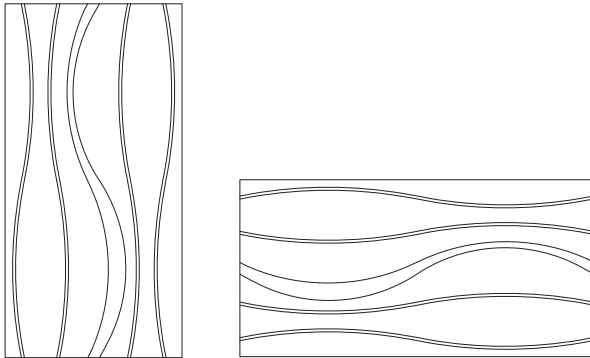
Join the elegant design wave by choosing Troldtekt curves. This design protected solution consists of acoustic panels with curved grooves. Each panel has four narrow curved grooves alongside a wider groove cut in the centre of the panel.

Troldtekt curves offers a seamless surface, with a length-wise pattern of repetitive, soft curves. All the grooves

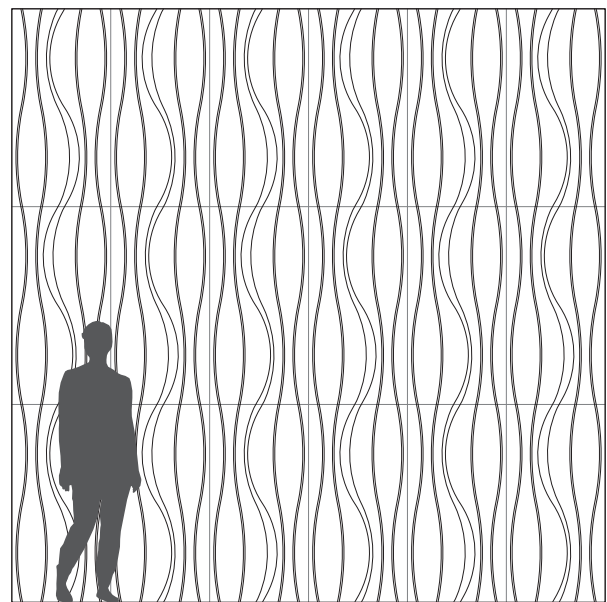
match up on the short sides, so you can turn panels 180 degrees during installation without problem.

Troldtekt curves is design protected and has Registered Community Design no. RCD 006303343.

Troldtekt®
curves



Troldtekt curves installed in horizontal stretcher bond



Troldtekt curves installed in vertical stack bond



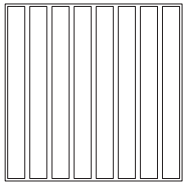
Troldtekt® tiles

Troldtekt tiles results in a design with a pattern of rectangles which can vary in size. The solution consists of quadratic acoustic panels with milled parallel grooves in the surface.

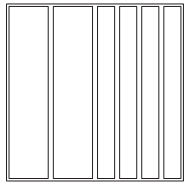
A half groove has been cut on all sides of each panel, so that an extra groove of the same size is formed where two panels join.

The panels are available in five variants, which can be freely combined. Panels can also be rotated 90 degrees, resulting in a broken and more varied look in the surface.

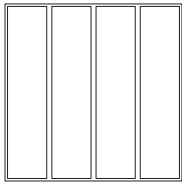
Troldtekt® tiles 4+4



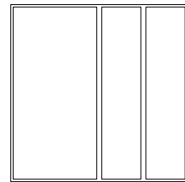
Troldtekt® tiles 2+4



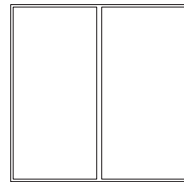
Troldtekt® tiles 2+2



Troldtekt® tiles 1+2



Troldtekt® tiles 1+1



Troldtekt tiles installed in an alternative pattern



Troldtekt tiles randomly installed



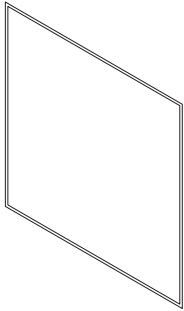
Troldtekt® rhomb

Create a surface with a scalable three-dimensional pattern by combining rhombus-shaped acoustic panels. The sides of each panel are parallel in pairs, and all sides have a half groove cut, resulting in a groove at the joints. If three panels are combined, they form a hexagon.

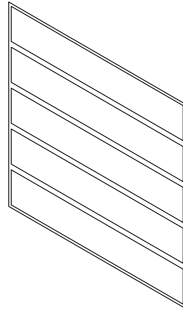
If you choose the Troldtekt rhomb hatch variant, each panel has four milled grooves that match the width of groove formed at the joints.

You can combine the rhombuses in repetitive or random patterns, producing the exact design you want.

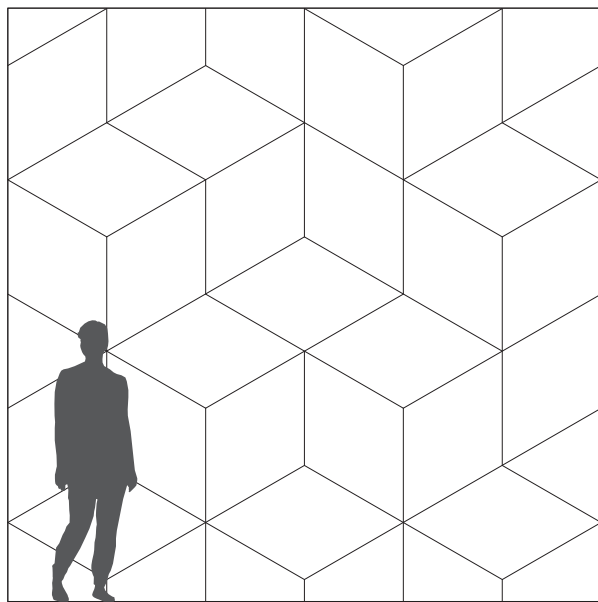
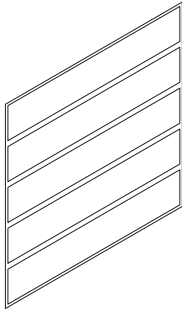
Troldtekt®
rhomb



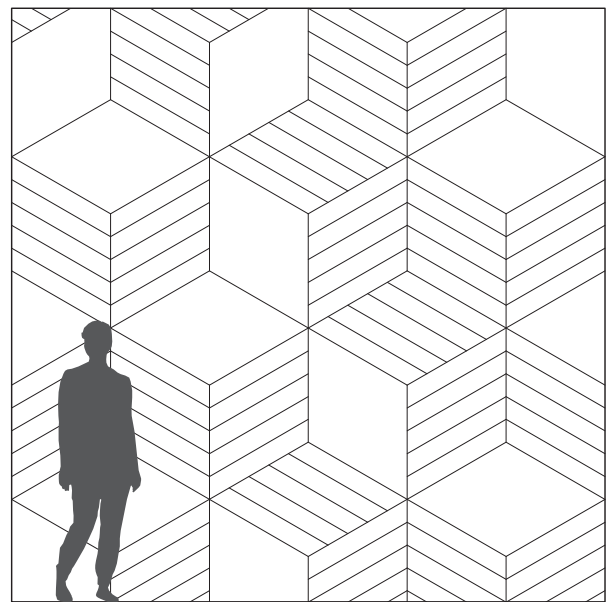
Troldtekt®
rhomb hatch left



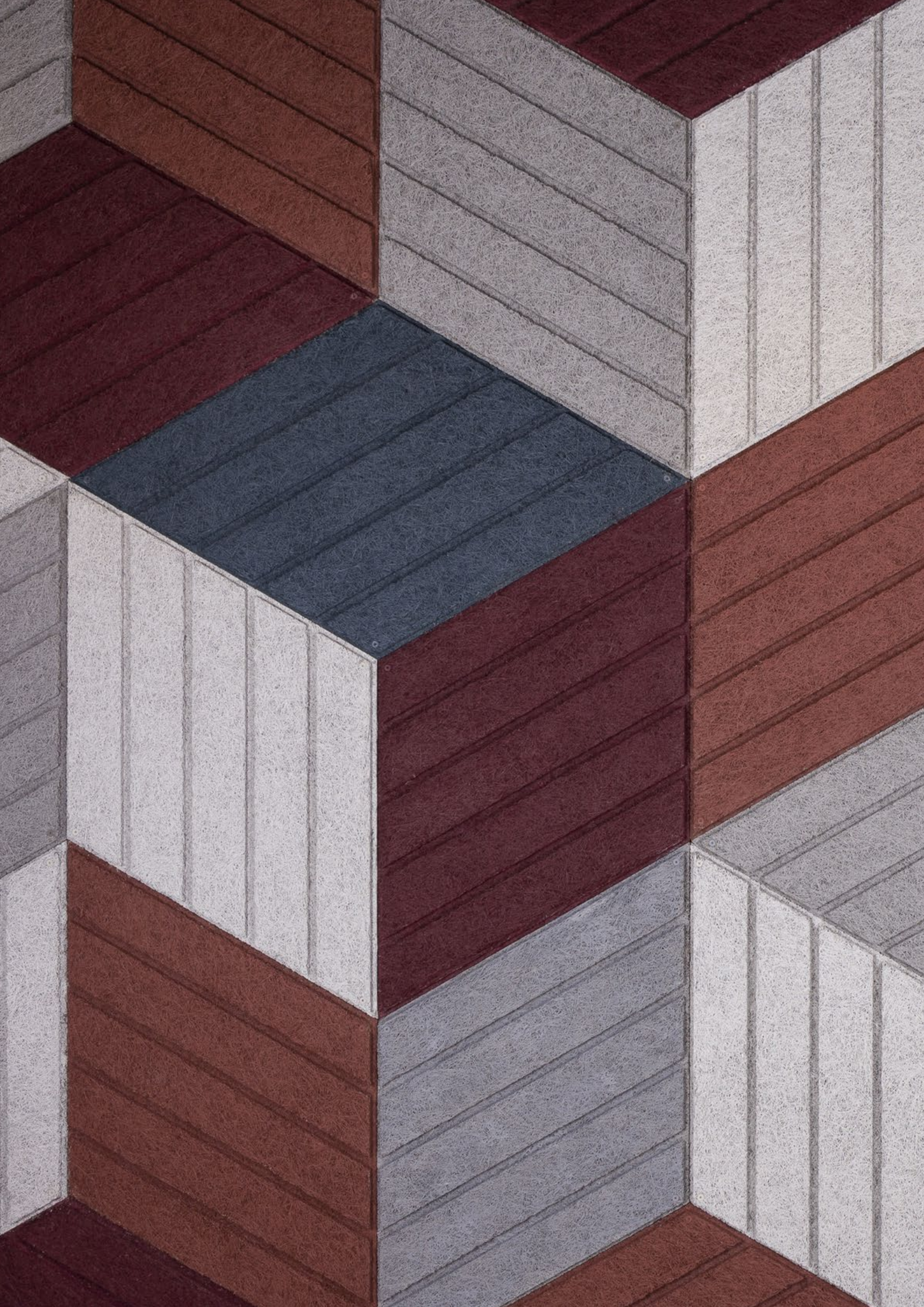
Troldtekt®
rhomb hatch right



Troldtekt rhomb randomly installed



Troldtekt rhomb hatch + rhomb installed in a mix



An atmosphere borne by ingenious design

The Sticks'n'Sushi restaurant in Tivoli Gardens, Copenhagen, is the chain's most Japanese eatery to date in terms of the design and layout, which were created in partnership with OEO Studio.

Classic Japanese patterns adorn the restaurant towards the kitchen, at the centre of the large room. The room is completely transparent due to all the windows, which offer clear views of the Pantomime Theatre in the gardens and the bustling city life on Bernstorffsgade.

The style is a mixture of Japanese and Nordic, the keywords being simplicity and minimalism. The materials include oak planks, and the ceramic floor tiles feature a fish scale-inspired pattern.

Rhomboid harmony

Anne-Marie Buemann from OEO Studio says that the priority was to create an intimate atmosphere with superior acoustics. The ceiling is clad with a grey variant of the Trolldtekt rhomb design solution, which ensures pleasant acoustics and an inviting atmosphere with its soft material-

ity and visual pattern. The ceiling is also reminiscent of Japan, and adds further to the overall experience and feeling of openness in the room.

Project: Restaurant Sticks'n'Sushi, Tivoli Gardens, Copenhagen

Architect: Interior design in collaboration with OEO Studio

Trolldtekt products:

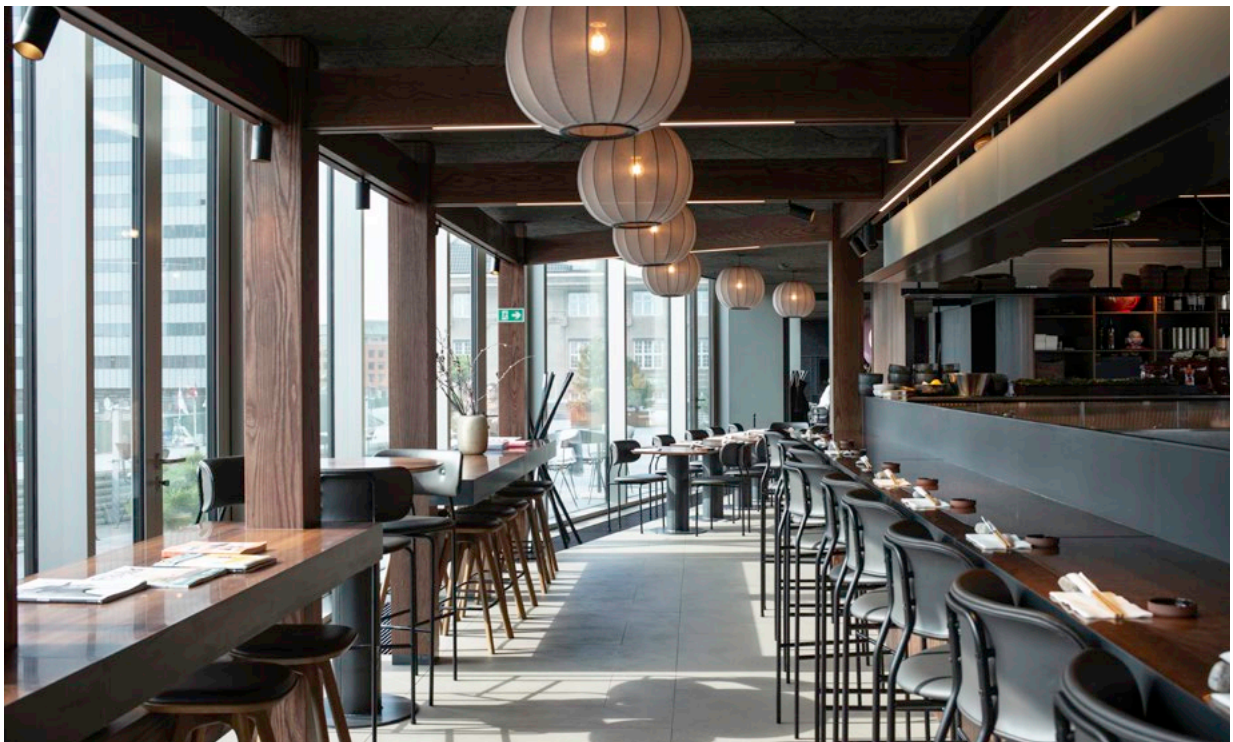
Ceiling panels: Trolldtekt rhomb

Colour: Special colour RAL 7022

Structure: Ultrafine (1.0 mm wood wool)

Edge design: 5 mm bevelled edges, K5

Installation: Trolldtekt C-60 profile system





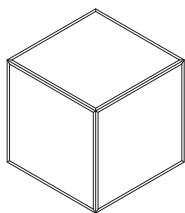
Troldtekt® rhomb mini

Like Troldtekt rhomb, this mini version can be used to create a three-dimensional pattern. The solution consists of hexagon-shaped acoustic panels that are half the size of the hexagon formed by joining three classic Troldtekt rhomb panels. The three rhombuses on the hexagon panel are bounded by grooves.

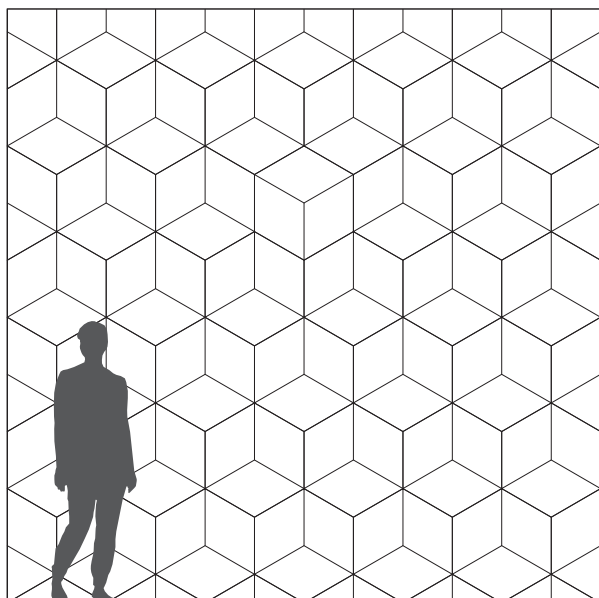
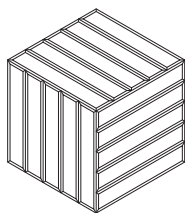
If you choose the Troldtekt rhomb hatch mini variant, each rhombus will also contain four parallel grooves (12 grooves per acoustic panel).

The panels have grooves cut on the edges, and by rotating the panels you can vary the pattern so that the three-dimensional effect is even more pronounced.

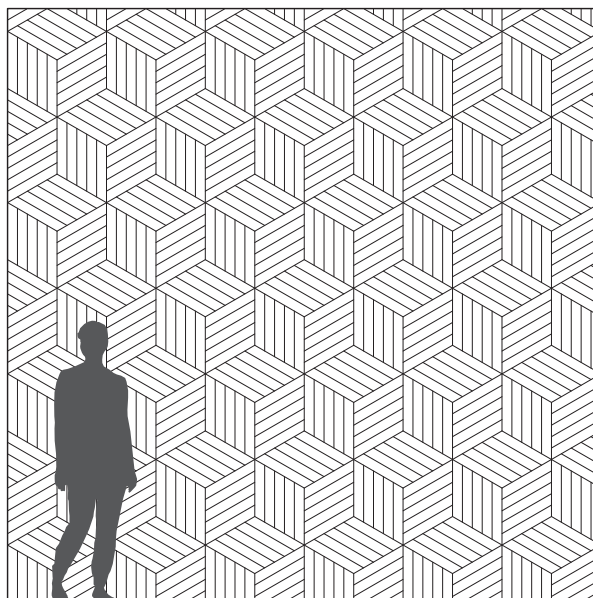
Troldtekt®
rhomb mini



Troldtekt®
rhomb hatch mini



Troldtekt rhomb mini installed in classic pattern



Troldtekt rhomb hatch mini installed in classic pattern



Troldtekt® v-line 1way

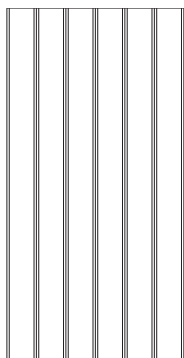
Troldtekt v-line 1way gives you a ceiling with discreet longitudinal v-shaped grooves cut into the surface. The solution adds a distinctive look to the interior design – for example in private homes and offices.

Half v-shaped grooves cut into the panel's longitudinal edges create an extra v-shaped groove when two panels are installed side by side. The ends of the panels are square-edged, and therefore flush when installed for a clean, smooth finish.

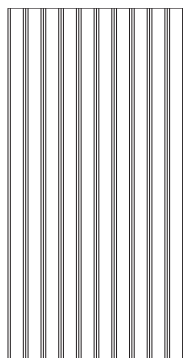
Troldtekt v-line is 25 mm thick, unlike the other Troldtekt design solutions, which measure 35 mm. The panels are available with six or ten milled grooves.

If greater flexibility is needed during installation, or if you want a nice clean finish along the walls, you can combine Troldtekt v-line 1way panels with the panel type Troldtekt v-line blank. The v-line blank panel has exactly the same dimensions and edge design, but without any v-shaped grooves on the actual panel surface.

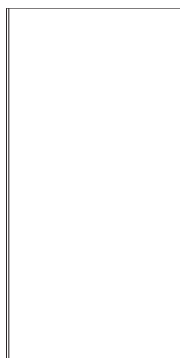
Troldtekt
v-line 1way 6



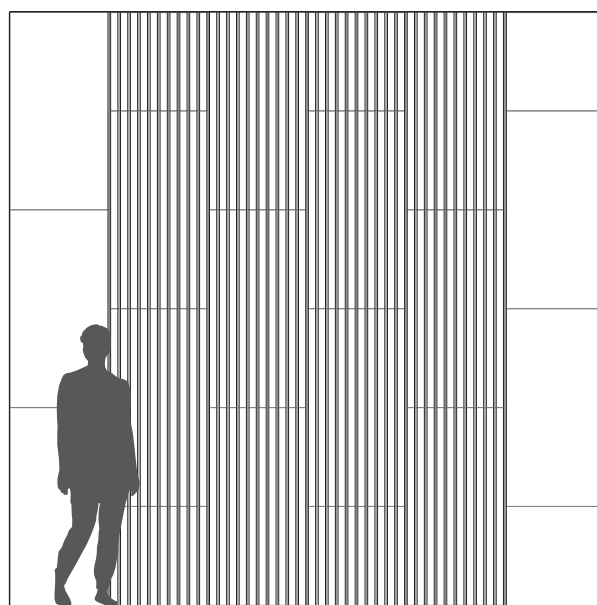
Troldtekt
v-line 1way 10



Troldtekt
v-line 1way blank



Troldtekt v-line 1way 6 installed in horizontal brick pattern.



Troldtekt v-line 1way 10 installed in horizontal brick pattern with Troldtekt v-line 1way blank around the sides.



Troldtekt® v-line 2way

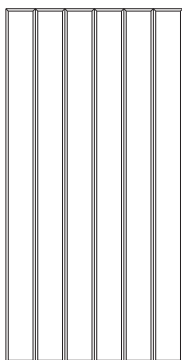
Troldtekt v-line 2way gives you a ceiling surface with discreet longitudinal grooves supplemented with transverse grooves where the panel ends meet. The solution adds a characterful pattern to the interior design – for example in private homes and offices.

Half grooves are milled into all four edges of each panel so that extra v-shaped grooves are created when two panels are installed side by side. It creates a contiguous surface with a pattern which stands out – especially when white or natural-coloured panels are chosen.

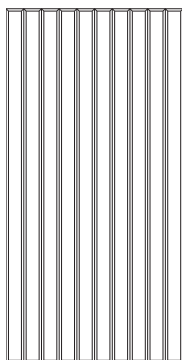
Troldtekt v-line is 25 mm thick, unlike the other Troldtekt design solutions, which measure 35 mm. The panels are available with six or ten milled grooves.

If greater flexibility is needed during installation, or if you want a nice clean finish along the walls, you can combine Troldtekt v-line 2way panels with the panel type Troldtekt v-line blank. The v-line blank panel has exactly the same dimensions and edge design, but without any v-shaped grooves on the actual panel surface.

Troldtekt
V-line 2way 6



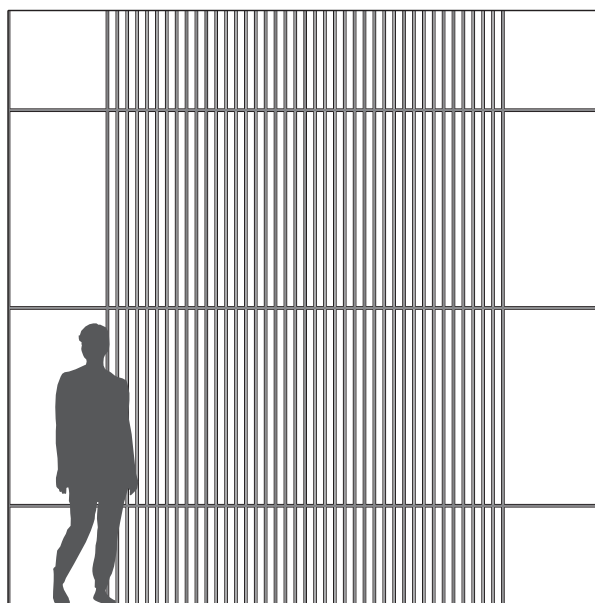
Troldtekt
V-line 2way 10



Troldtekt
V-line 2way blank



Troldtekt v-line 2way 6 installed in horizontal stack bond.



Troldtekt v-line 2way 10 installed in horizontal stack bond with Troldtekt v-line 2way blank around the sides.



From rubber and prams to exclusive interior design

In a former rubber and pram factory on Amager, Copenhagen, BrandsCPH has fitted out an exclusive showroom in a raw design. For the various rooms, different Troldekt products have been chosen – including the design solution Troldekt line.

The former industrial building on Amager Strandvej, which dates back to 1950, was previously a pram and rubber factory. Now it houses, among other things, the BrandsCPH showroom, which opened in November 2021. The showroom is run by Nicolai Rubani Højgaard and his wife, Anne Sofie Rubani Højgaard.

Extensive renovation was required before the 600-square-metre combined showroom, studio and shop could open. The premises were renovated over a six-month period in collaboration with the owner, with Nicolai and Anne Sofie Rubani Højgaard assuming responsibility for the overall design.





Project: BrandsCPH furniture, interior design and art store in Copenhagen, Denmark

Troldtekt products:

Ceiling panels: Troldtekt acoustic and Troldtekt line

Colour: Natural grey, black, and custom colour

Structure: Ultrafine (1.0 mm wood wool)

Text: Publico

Photo: Tommy Kosior



Walls were demolished, and holes were created in parts of the concrete deck to add height. The showroom is designed as an apartment with a bathroom and toilet, bedroom, living room and dining room as well as an office and meeting room.

"The showroom gives visitors a much better experience of our products compared to walking into a regular store. We only exhibit five brands at a time – distributed between the different rooms – and we hand-pick selected products

so as not to dilute the experience," says Nicolai Rubani Højgaard.

In addition to the showroom, BrandsCPH is also a workplace for architects and designers, who can book time in the studio and work in the inspiring surroundings.

Selects items that stand out

Anne Sofie Rubani Højgaard is responsible for the visual aspects, i.e. video and pictures, while Nicolai looks after



customer contact and collaboration. From the beginning they have been inspired by a raw style and robust materials.

"Our showroom is in an old factory building, and we shouldn't try to hide that. These days, everything always looks extremely nice and neat when you look at home interiors magazines and traditional Danish design. But we're not into that – we prefer a raw and exclusive style that stands out, and which is still of a high quality with a designer finish."

"We usually go for objects that add character to a home. You wouldn't put one of our sofas in a corner somewhere, but in a prominent position so that it stands out as a special object, and creates a wow effect," says Nicolai Rubani Højgaard. BrandsCPH sells to both private and business customers.

Different Trolldtekt solutions

Nicolai Rubani Højgaard has chosen Trolldtekt acoustic panels in three different designs to highlight the inherent quality of each room:

"Many customers are not aware that Trolldtekt has such a wide product range until they see the solutions here – and it often leaves them feeling positively surprised."

In the room where the concrete deck has been opened up, the choice fell on black-painted Trolldtekt line, which can also be found on the walls of the office. The kitchen

has been fitted with classic Trolldtekt acoustic panels in the custom colour burgundy to add a touch of colour.

In the bedroom and living room, Trolldtekt acoustic panels in natural grey have been installed.

"The acoustics have been significantly improved, as all the hard materials such as concrete and the large windows posed considerable challenges. In addition, it's a big plus for me that Trolldtekt is manufactured in Denmark and from natural raw materials. In fact, the other two tenants here have also chosen to have Trolldtekt installed," says Nicolai Rubani Højgaard.

BrandsCPH

Visit BrandsCPH, and pick up some inspiration for exclusive acoustic solutions. You will find BrandsCPH at Amager Strandvej 124B, 2300 Copenhagen S.

Open by appointment.

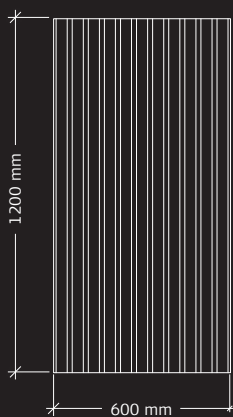
> www.brandscph.com

Design overview

These solutions come in 35 mm panel thickness and with ultrafine structure (1.0 mm wood wool).

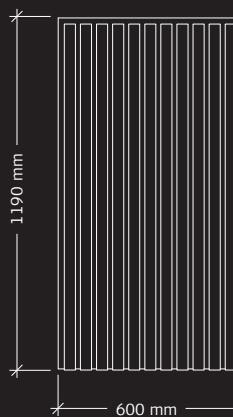
Troldtekt® line

Troldtekt®
line

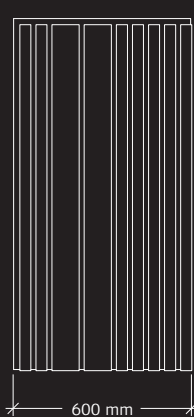


Troldtekt® line design

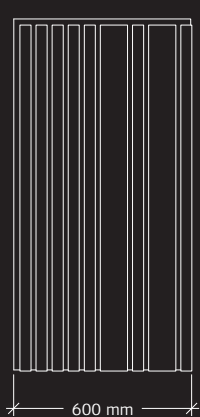
Troldtekt®
line design 11



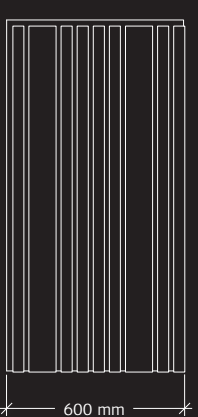
Troldtekt®
line design 11 4/6



Troldtekt®
line design 11 7/10

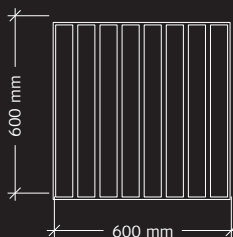


Troldtekt®
line design 11 3/9

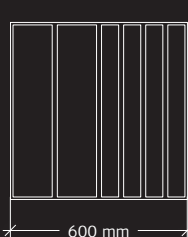


Troldtekt® tiles

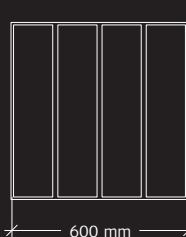
Troldtekt®
tiles 4+4



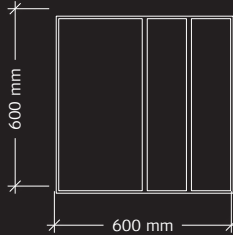
Troldtekt®
tiles 2+4



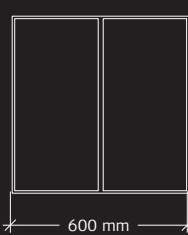
Troldtekt®
tiles 2+2



Troldtekt®
tiles 1+2

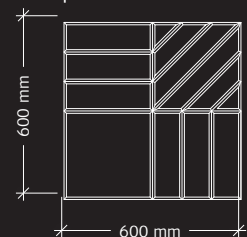


Troldtekt®
tiles 1+1



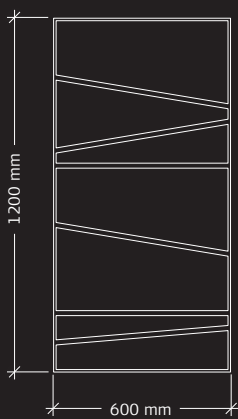
Troldtekt® puzzle

Troldtekt®
puzzle



Troldtekt® tilt line

Troldtekt®
tilt line 7



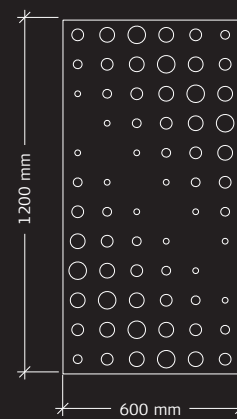
Troldtekt® curves

Troldtekt®
curves



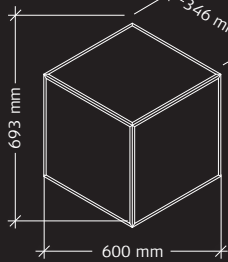
Troldtekt® dots

Troldtekt®
dots

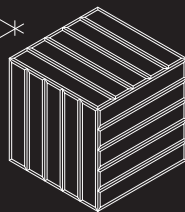


Troldtekt® rhomb mini

Troldtekt®
rhomb mini

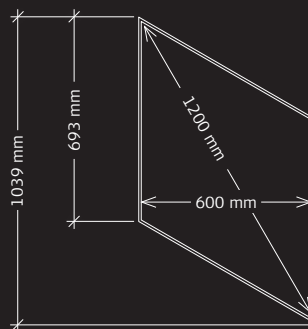


Troldtekt®
rhomb hatch mini

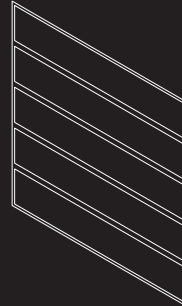


Troldtekt® rhomb

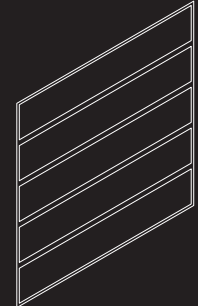
Troldtekt®
rhomb



Troldtekt®
rhomb hatch left



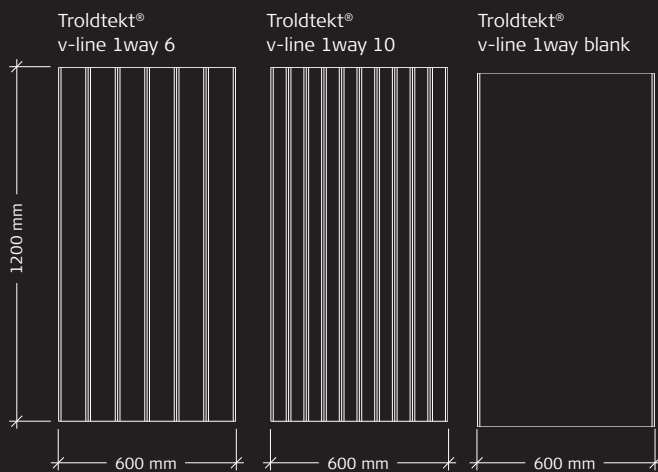
Troldtekt®
rhomb hatch right



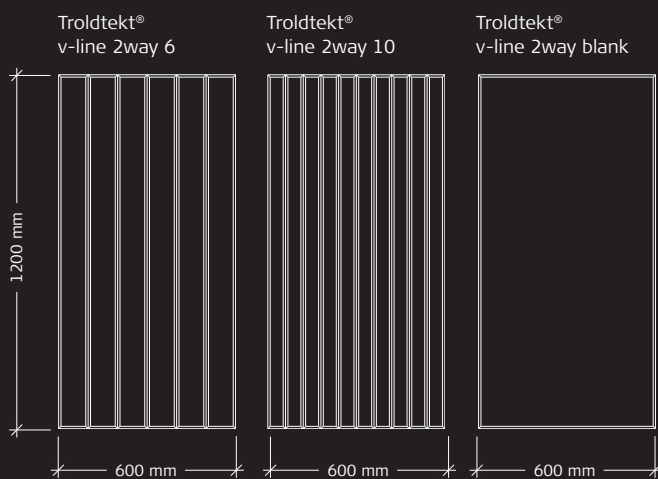
v-line

These solutions come in 25 mm panel thickness and with ultrafine structure (1.0 mm wood wool).

Troldtekt® v-line 1way



Troldtekt® v-line 2way





Project: Conference room, CEBRA

Troldtekt products:

Ceiling panels: Troldtekt v-line

Colour: Natural grey (FUTURECEM)

Structure: Ultrafine (1.0 mm wood wool)

Photo: Tommy Kosior

Natural raw materials

Troldtekt acoustic panels are made of wood, a natural material, and cement extracted from Danish mineral resources.



Wood



Cement



Cement-bonded wood wool

Six good reasons for choosing Troldtekt

Troldtekt design solutions have the same excellent properties and certifications as classic Troldtekt acoustic panels.

Superior acoustics

The combination of wood and cement gives Troldtekt acoustic panels a unique surface structure which effectively absorbs sound and reduces reverberation time in a room. Troldtekt is a great choice for everything from office buildings and schools to cultural centres, restaurants and private homes.

Healthy indoor climate

Troldtekt panels are a natural, breathable material which can absorb and release moisture. The acoustic panels are hypo-allergenic and have achieved leading Danish and international indoor climate certifications.

Documented sustainability

Troldtekt seeks to incorporate sustainability into the entire product life cycle. The acoustic panels are made of the natural material wood and cement extracted from



Danish mineral resources, and are produced under environmentally friendly conditions. All Troldtekt design solutions – both in natural wood/natural grey and painted in our standard colours – have achieved Cradle to Cradle certification at Gold level. The acoustic panels are documented as being free of harmful substances, and can therefore be safely returned to the biological cycle. Additionally, waste from the production of Troldtekt acoustic panels is returned to the technical cycle and used as a resource in new cement by Aalborg Portland.

Effective fire protection

Troldtekt panels are made from wood and cement. Wood is an organic and flammable material, but every single wood fibre in a Troldtekt panel is encapsulated and protected by cement.

Troldtekt panels therefore have low flammability and only emit low heat during a fire, and almost no smoke.

Natural strength

Troldtekt panels combine the strength of cement with the flexibility of wood, and have a lifetime of at least 75 years. Troldtekt panels are a rugged, durable material, even when subject to moisture or ball impacts. The cement gives the acoustic panels their stable shape and moisture tolerance.

Flexible design options

A range of colours, textures, designs, edge designs and suspension systems offer great flexibility in designing custom acoustic solutions. Special functions can also be integrated into Troldtekt ceilings, such as lighting, speakers and ventilation.

New type of cement – even more advantages

Troldtekt has launched acoustic panels based on the cement type FUTURECEM™. This makes it possible to choose classic Troldtekt acoustic panels and Troldtekt design solutions with a reduced carbon footprint.



Troldtekt has developed acoustic panels in which the cement has been replaced with the carbon-reduced cement type FUTURECEM™. Thus, it is now possible to choose classic Troldtekt acoustic panels as well as our range of design solutions with a reduced carbon footprint.

FUTURECEM exploits the synergies between calcined clay and limestone filler. This means that much of the fired clinker in the cement can be replaced, reducing its carbon footprint by approx. 30 per cent.

The life cycle analysis on which Troldtekt's environmental product declarations (EPDs) are based documents that Troldtekt acoustic panels based on FUTURECEM have a carbon footprint over their entire life cycle which is:

- 26 per cent lower than that of Troldtekt based on grey cement
- 38 per cent lower than that of Troldtekt based on white cement.



Troldtekt based on FUTURECEM is – like the other Troldtekt cement-bonded wood wool panels – Cradle to Cradle-certified at Gold level. Using this new type of cement, it is thus possible to look after the climate while preserving all the well-known advantages of Troldtekt acoustic panels.



A warm welcome with decorative design

Mandrup architects and engineers in Viborg welcome you with Trolldtekt acoustic panels based on the carbon-reduced FUTURECEM™ cement type.

The new premises that Mandrup's employees moved into had remarkably poor acoustics in the otherwise beautiful and bright rooms. The company was perfectly familiar with Trolldtekt, and decided to use Trolldtekt acoustic panels to solve the problem. In a passage, Trolldtekt line design was installed with a painted grey surface. A product that is also very popular in modern homes.

In the entrance and meeting room, framed sections of Trolldtekt curves in natural grey have been used. A recog-

nisable Trolldtekt product, yet at the same time one that is completely new, as the panel is based on the cement type FUTURECEM™, which has an approx. 30 per cent lower carbon footprint than traditional cement.

In the high-ceilinged meeting room, a particularly elegant solution features two large, framed surfaces with Trolldtekt curves (3.0 x 4.8 m and 3.6 x 3.6 m).

A warmer hue

The solution has improved the acoustics as desired. The new acoustic panels are made with FUTURECEM, which exploits the synergies between calcined clay and limestone filler. The calcined clay gives the raw panels a brownish tinge, which directly testifies to a more environmentally friendly product.

In the entrance and in the meeting room at Mandrup's offices, the warmer hue of the panels creates a more inviting feel. The precisely milled curves are also emphasised by the shimmering look of the panels.

Project:

New office, Mandrup Architects in Viborg

Trolldtekt products:

Ceiling panels: Trolldtekt curves

Colour: Natural grey (FUTURECEM)

Structure: Ultrafine (1.0 mm wood wool)

Text: Helene Høyer Mikkelsen, arkitekt MAA

Photo: Helene Høyer Mikkelsen, arkitekt MAA

HEALTHY INDOOR CLIMATE SINCE 1935

Troldtekt A/S has been designing, developing and manufacturing Troldtekt acoustic panels since 1935 – from locally sourced natural materials and under state-of-the-art conditions with minimal environmental impact. Our products are developed and manufactured in Denmark and distributed in numerous countries around the world.

We are trendsetting

Our vision is to be a trendsetter within intelligent acoustic solutions that focus on a sustainable indoor climate. We therefore develop new solutions in close collaboration with industry experts, architects, and other building consultants.

We take responsibility

It is important for us to play a responsible role in society – also for our own sake. We believe companies do well by doing good. We have therefore systematised our social responsibility efforts by committing to the UN Global Compact – the world's largest voluntary corporate social responsibility initiative.

We create added value

The sustainable Cradle to Cradle design concept is a key part of our business strategy. The concept focuses on ensuring that materials add value for the environment, for society and for our business. Through our collaboration with international research and advisory institute EPEA, we ensure that our activities are in line with the international Cradle to Cradle principles.

We are part of a group with ambitious climate goals

Since 2022, Troldtekt has been part of the Kingspan Group, a listed Irish building materials company with operations in more than 70 countries. With its Planet Passionate programme, Kingspan is setting ambitious climate goals that are very much in line with Troldtekt's Cradle to Cradle strategy. Kingspan's ambitious targets include zero waste to landfill and net zero carbon manufacturing in 2030.

Visit Troldtekt online for more inspiration:



#troldtekt

#goodacoustics



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The printed matter is Cradle to Cradle-certified, which is one of the world's strictest environmental certifications. The certification is your guarantee that the paper and inks are produced without chemicals or heavy metals.

The printed matter also carries the Nordic Swan Ecolabel – the official ecolabel throughout the Nordic region. The label makes it easy to choose the best products for the environment.

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