

INSPIRATION

| INSPIRATION MAGAZINE

Trolldtekt® design

Good acoustics and design in one solution.

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ACOUSTIC
SOLUTIONS
SINCE 1935

We spend by far the majority of our time indoors so it is very 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.

In this magazine, you can experience a number of buildings where architects have united superior acoustics and a healthy indoor climate with characterful design. They have achieved this using different products in the award-winning series of Trolldtekt® design solutions for ceilings and walls.

With Trolldtekt design solutions, you can design your own patterns and rhythms – and vary and scale the individual solutions to create the experience of large cohesive ceiling or wall surfaces. It's not about the panel, but the surface. The architects behind the projects featured in this magazine have embraced these possibilities with considerable elegance.

1st edition

Publisher:

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Interior design inspired by water



Boasting a long list of affiliated businesses, DTU Science Park in Hørsholm is Denmark's leading growth and development environment. DHI is one of the businesses that has been part of DTU Science Park for the past 50 years.





→ ARCNordic, a firm of architects and engineers, has headed up the project to renovate and modernise DHI's former premises following the company's move to a new domicile in DTU Science Park. The brief for the project was to create attractive facilities for future tenants in the old farm. One of the areas is a wing with different-sized meeting rooms with kitchenettes and lounge areas.

The history of the building presented some challenges, which have been transformed into a charming architectural expression. The interior is characterised by a graphic style with white walls and black frames in the glass sec-

tions delineating the meeting rooms. The contrasts have been softened by light blue curtains, upholstered furniture in the meeting rooms and warm colours in the café area.

Curves and waves

The right environment for meeting and lounge facilities requires good acoustics and thus sound absorption. ARCNordic has chosen the Trolldtekt curves design solution in a dark custom colour for the ceilings, which creates a nice sense of visual coherence between the rooms separated by the glass walls. At the same time, it is a Trolldtekt panel with a unique curved pattern of four narrow grooves surrounding a wider groove.



As the former tenant, DHI, conducts water and environmental research, the wavy pattern of the Trolldtekt curves panels goes well with the history of the house and the water theme. The curved pattern is associated with flowing water, causing the panels to appear to be intertwining.

In the small meeting rooms, the Trolldtekt curves panels do not extend all the way to the walls, but have been combined with a smooth panel to create a frieze along the walls, thus turning the ceiling design into a simple decoration. In addition, the ceiling has built-in spots with black fixtures to avoid disturbing the harmonious feel of the ceiling surfaces.



Project: DTU Science Park in Hørsholm, Denmark
Architect: ARCNordic Arkitekter & ingeniører
Builder: DTU Science Park a/s
Design solutions: Trolldtekt curves

A new direction in the warehouse

Flying Tiger's administrative offices are housed in a listed warehouse, where on the top floor the ceiling panels and lighting have been replaced to give the space an entirely new character.

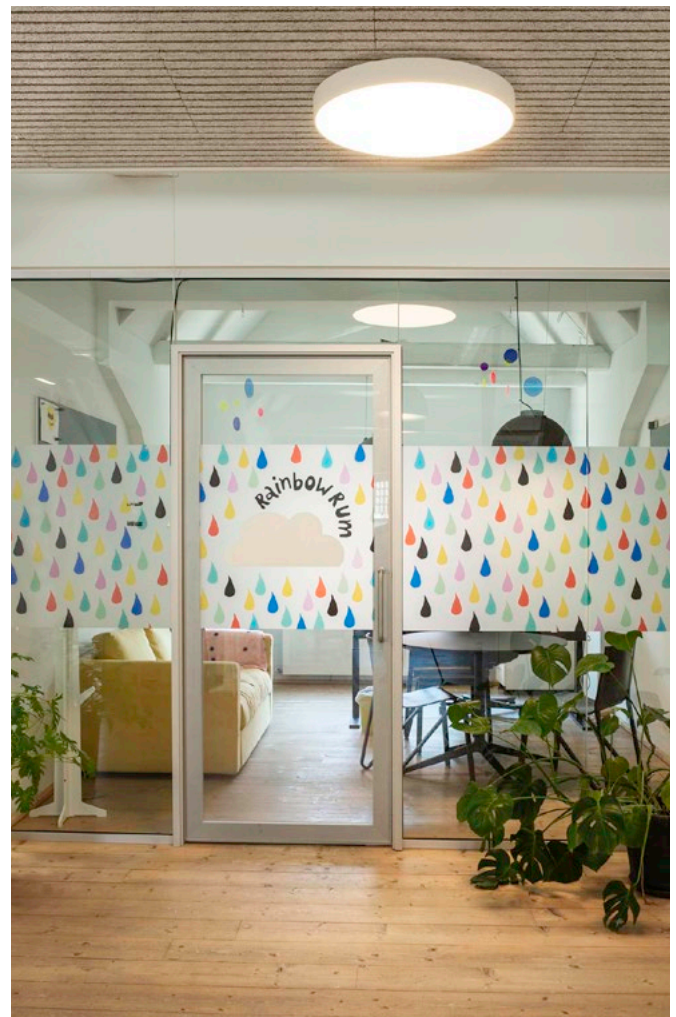
The 1791 building in the Christianshavn district in Copenhagen has an amazing waterfront location and offers plenty of historical charm and fascinating detail. This is especially apparent beneath the ceiling, where natural light enters from bay and roof windows between the wooden beams. Right under the gable roof, meeting rooms have been created.

OVER BYEN Arkitekter is responsible for the renovation of the space, where a lighting ceiling was to be replaced

with better lighting and improved acoustics. OVER BYEN Arkitekter often works with the renovation and conversion of existing buildings, including preservation-worthy and listed properties.

Improved harmony

Flying Tiger's ceiling was clad in white Trolldtekt line acoustic panels, with the grooves oriented in the direction of the building. The ceiling has become a distinct and cohesive bright surface as well as delinea-





ting the space and the building's length and character. Troldekt's textural surface is also an elegant response to the wooden structures in the historic building. At the same time, the room has obtained additional ceiling height and better acoustics.

The new basic lighting solution is composed of XAL line fixtures mounted perpendicular to the Troldekt panels. Round fixtures are used in some transition zones. The ceiling creates an elegant coherence and sense of calm in a dynamic workplace.

—
Project: Flying Tiger's administrative offices in Copenhagen, Denmark

Architect: OVER BYEN Arkitekter

Builder: Flying Tiger

Design solution: Troldekt line





New work environment at Rainvilleterrasse Campus

gmp Architekten, which operates worldwide, has expanded their office space on the site of the old Hamburg Nautical College and added an elegant solution for the high ceiling with Troldekt acoustic panels.





In his day, Adjutant César Lubin Claude de Rainville opened the Hanseatic city's first restaurant on the ground floor of the building on Rainvilleterrasse, having bought and converted the former residential building on the banks of the Elbe in 1799. In the 1930s, the Altona Maritime School was built on the site, based on designs by the architect Hans Meyer, which later merged with the Hamburg Nautical College and eventually closed down in 2005. The listed building, constructed in the style of the Neues Bauen movement, is an icon on the Altona coastline. It is an oblong, cubic structure divided into four storeys by ribbon windows, with cantilevered balconies on the eastern side.

Conversion to Rainvilleterrasse Campus

The gmp Foundation gently renovated and modernised the building over several years to create the Rainvilleterrasse Campus. It houses the Academy for Architectural Culture (aac), the Brand Academy and the Design Factory International.

For the past five years, gmp Architekten, whose original head office is in Hamburg, have rented space on the third floor of the old Maritime School. Parts of the former restaurant business on the ground floor were recently converted into additional office space and a staff restaurant.





Less is more

The designers focused on a few materials that they deployed strategically for the conversion. The result of combining the listed historical parquet flooring with reduced, uncluttered furnishings is a uniquely bright, spacious and multifunctional office space. As the space spans 160 square metres, acoustics were a top priority. To this end, the designers opted for a simple yet extremely sophisticated solution for the high ceilings: Trolldtekt line acoustic panels.

Project: Neue Arbeitswelt am Campus Rainvilleterrasse, Germany

Architect: gmp Architekten von Gerkan, Marg und Partner; Hamburg

Builder: gmp Architekten von Gerkan, Marg und Partner; Hamburg

Design solution: Trolldtekt line



The designer's opinion:

I'm overwhelmed by the creativity

The architects have embraced the range of Trolldtekt design solutions – and added their own layer of innovation with combinations and colour choices. The designer behind the solutions believes the range has captured a northern European trend towards more expressive design choices. And he himself has experimented with shapes and colours at Trolldtekt's own head office.

Using Trolldtekt's design range, architects have a set of flexible acoustic solutions that they can adapt to their own individual projects. They have seized that opportunity. In many northern European buildings, the design solutions have evolved into distinctive interior design elements.

"It's overwhelming to see how the solutions are being used in so many places. Many architects use the freedom offered by the design range to produce completely new, creative expressions. That was the ultimate goal for this range, and it has largely been accomplished," says Michael Christensen, in-house architect at Trolldtekt A/S and the main designer behind the solutions in the range.

Surfaces with wild dynamics

Michael Christensen notes two positive surprises that he had not foreseen at the launch of the design range. First, several of the design solutions that were primarily intended for wall surfaces are also used as ceiling panels in large project buildings. Secondly, many clients and architects have added an extra innovative layer by using the design solutions in very distinctive colours.

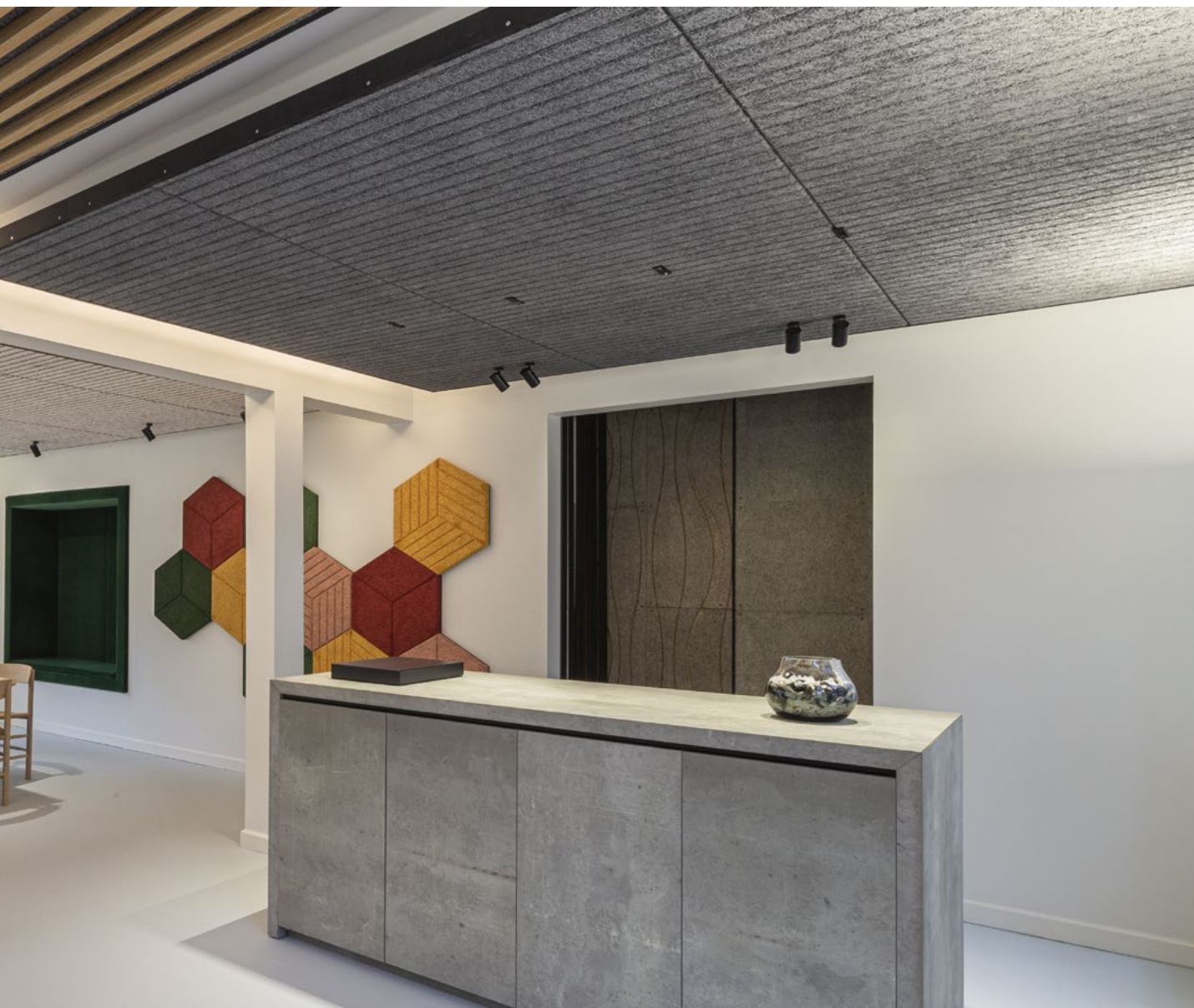
"Some of the solutions in the range are in line with the classic Nordic way of thinking about interiors and surfaces. This applies, for example, to Trolldtekt line, Trolldtekt line design and Trolldtekt v-line, with straight tracks for rigorous styling. On the other hand, you can get wild dynamics for ceilings by choosing the more expressive designs such as Trolldtekt curves and Trolldtekt tilt line," says Michael Christensen.

"At the same time, we're seeing strong demand for design solutions painted in custom colours. When the architects add strong colour tones, this brings out a completely different character and personality. There has been a trend for us northern Europeans, too, to be daring in decorating with pops of colours. I think our range fits in well here," he continues.



“ Some of the solutions in the range are in line with the classic Nordic way of thinking about interiors and surfaces. This applies, for example, to Troldekt line, Troldekt line design and Troldekt v-line, with straight tracks for rigorous styling.

Michael Christensen, architect at Troldekt A/S.





About Michael Christensen

- Graduated as an architect MAA, from the School of Architecture in Aarhus in 2002.
- Became involved with Troldekt A/S in 2003, as an external consultant preparing drawings and BIM objects for architects.
- He now holds a permanent position at Troldekt, 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.

Working showroom at head office

The many expressive examples have given Michael Christensen inspiration to play with shapes and colours in the interior design of Troldekt's own head office in southern Aarhus. Here, the entire building has become a 'working showroom' with both classic Troldekt acoustic panels and the new design solutions.

When visitors arrive through the main entrance, they come into the actual showroom, which is divided into quiet zones, each with their own Troldekt acoustic solutions on ceilings and walls. In the large arrival area, there are also floor-to-ceiling swivel panels with a painted design solution on each side, which can be experienced in different light using both spots and daylight.

The walls in the office workstation areas on the first floor of the building are adorned with decorative design elements.

"We've created varied environments with design solutions in two fresh colour spectra: one is green and bluish, and the other is in warmer shades of red and orange. In some places, mosaics using Troldekt rhomb are mounted, protruding on glass walls, almost like a floating element in the room. Elsewhere, we've put up zones with a black border, so the solutions look like a big picture on the wall," says Michael Christensen.

Innovation based on the key design

The range of design solutions was launched in 2019 and in 2022, another two designs were added: Troldekt v-line 1way and 2way with discreet v-shaped grooves in the surface. Troldekt v-line is based on the classic 25 mm Troldekt acoustic panels, while all the other solutions in the design range are based on 35 mm panels.

Just as Michael Christensen himself has been inspired by using Troldekt design solutions in a new way, he hopes that architects will continue to inspire one another to create new types of distinctive acoustic surfaces based on the key designs of the range.

"After the launch, we visited a number of design studios in Copenhagen, among other places. Here, we had a set of 3D-printed pieces that represent the individual design solutions, which you can put on a table in front of you. The architects immediately started creating their own patterns and pushing the pieces around, and I could tell this design range has hit on something that appeals to architects. This experience has been further confirmed by the many well-considered, well-designed, beautiful projects we see around us," he says.

Since its launch, the Troldekt design solutions range has won accolades and achieved honours at a number of award ceremonies.

ICONIC Awards 2019

Troldekt design solutions were named as winner of the ICONIC Awards 2019 in the category 'Innovative Architecture'. The German Design Council presents the award together with the German Design Award.



GERMAN DESIGN AWARD WINNER 2020

German Design Award 2020

The design series was named winner of the prestigious award. German Design Award is given to projects and products that make a ground-breaking new contribution to the German and international design landscape.

The best wall design 2021 for restaurants and bars

The series of Troldekt® design solutions has been named the best wall design of the year in the 'buildings and interiors' category for restaurants and bars. The German publisher Callwey organises the awards together with, among others, the Association of German Interior Architects/Designers and the German Hotel and Restaurant Association (DEHOGA).



The most captivating solutions for residential buildings

Troldekt's design solutions series took the Solution of the Year award at the Callwey 'Wohnbauten des Jahres 2022' award show in Munich in the Ceilings, Walls & Flooring category. The prize went to Troldekt on the basis of a vote and a jury's assessment.

German Design Award 2023

Troldekt v-line 1way and 2way, the latest two design solutions in Troldekt's design range, are among the winners of the prestigious German Design Award. The distinctive acoustic panels with discreet v-shaped grooves received the award in the Excellent Product Design – Building and Elements category.





A 'cosy industrial' atmosphere at Trolldtekt in Malmö

Trolldtekt has opened a combination office and showroom in Malmö, designed by jkab Arkitekter. Read the interview with the architect to learn more about the underlying design considerations.

Trolldtekt AB has opened the doors on a 200 m² combination office and showroom on Höjdrodergatan in Malmö, featuring a wide selection of distinctive acoustic solutions designed by jkab Arkitekter:

"Our goal was to create a showroom for Trolldtekt that distinctively displayed their products in a variety of ways: on walls, ceilings and even their ventilation options. This point of departure enabled us to create a 'cosy industrial'



office in different subdued hues," says Oscar Selemba, Architect, SAR/MSA, jkab Arkitekter.

Creating a whole

The combination office and showroom displays a wide variety of solutions from the award-winning Troldekt design series. It features everything from ceilings with longitudinal grooves in the surface to rhombus-shaped acoustic panels on the walls.

Many of the solutions are kept in dark hues, which helps create the right atmosphere, exclusivity and intimacy – seasoned with several materials that clearly stand out, says Oscar Selemba:

"To bring out this 'cosy industrial' atmosphere, we not only used various iterations of Troldekt's own products, but industrial style glass partitions, microcement around columns/centre sections and a customised lighting solution that focuses on the showroom in various ways. This

evoked an overall atmosphere that we are immensely proud of. The icing on the cake was to clad the walls in a variety of Troldekt panels in stimulating patterns."

Customers engage directly with the design

Going forward, we will see more examples of companies – such as Troldekt – who choose to combine office and showroom in large and small projects, says Oscar Selemba.

"When designing a showroom, it's crucial that anyone stepping through the door immediately has a good feeling about the place. You have to create a space that prospective customers feel comfortable in and which stimulates their desire to see the options available to them. That's why we placed the showroom right by the entrance, so visitors are immediately surrounded by the products. The furnishings are then arranged so you can settle down, make yourself at home and take in the products on display," he concludes.

Five surprises for the designer

Here, Michael Christensen highlights five specific projects where he has been pleasantly surprised by the architects' approach to Trolldtekt design solutions.



Above:

Solgaven nursing home in Valby (Denmark)

"Trolldtekt rhomb has been used elegantly as a distinctive graphic wall element in shimmering colours. Each floor has its own colour palette, which is repeated on floors, ceilings and the rhomb wall. So, the design has been actively used to create distinctive features for the specific areas of a building."

Left:

Delivery Hero in Berlin (Germany)

"For this project, we really went all out in pursuit of an expressive design! We used a combination of Trolldtekt line and Trolldtekt rhomb mini and offset them in striking custom colours. The office space also demonstrates that our designs work well in the form of suspended floating acoustic clouds, which are a popular acoustic solution in Germany."



Right:

Paracelsus Therme wellness complex in Bad Liebenzell (Germany)

"This project is all about wellness, and you can completely immerse yourself in the magnificent views of the landscape. The ceiling panels – Troldekt curves in dark grey – harmonise very well with the various visual allusions to water in the spa. The combination of wood, green plants on the walls, and the ceiling panels create a calm atmosphere."



Left:

Golfpark Kurpfalz in Limburgerhof

The restaurant is very inviting thanks to the wooden structure, the abundance of daylight and the pleasant artificial lighting afforded by spherical lamps. The ceilings are clad with black Troldekt panels, forming a kind of faceted saddle roof. Troldekt curves in natural grey have been fitted to the two gables. The CNC milling in the grey natural panels ensures an appealing interplay of colours: the naturally grey surface of the acoustic panels and the warm tone of the wood in the undulatory grooves.



Right:

Office complex, Dortheavej in Copenhagen NV (Denmark)

"They have Troldekt rhomb mini on the walls from floor to ceiling, in a warm shade of yellow. Combined with the dark ceilings, this creates a very special atmosphere. At the same time, something as anonymous as a stairwell takes on the appearance of a distinctive monolith here, covered in grey Troldekt puzzle."



Acoustically optimised open-plan office

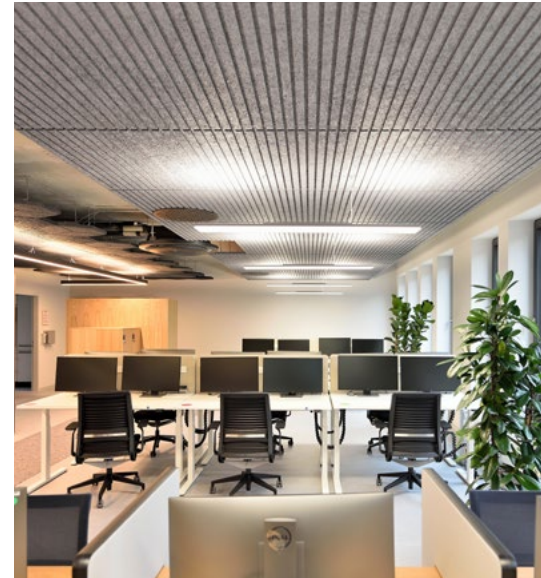
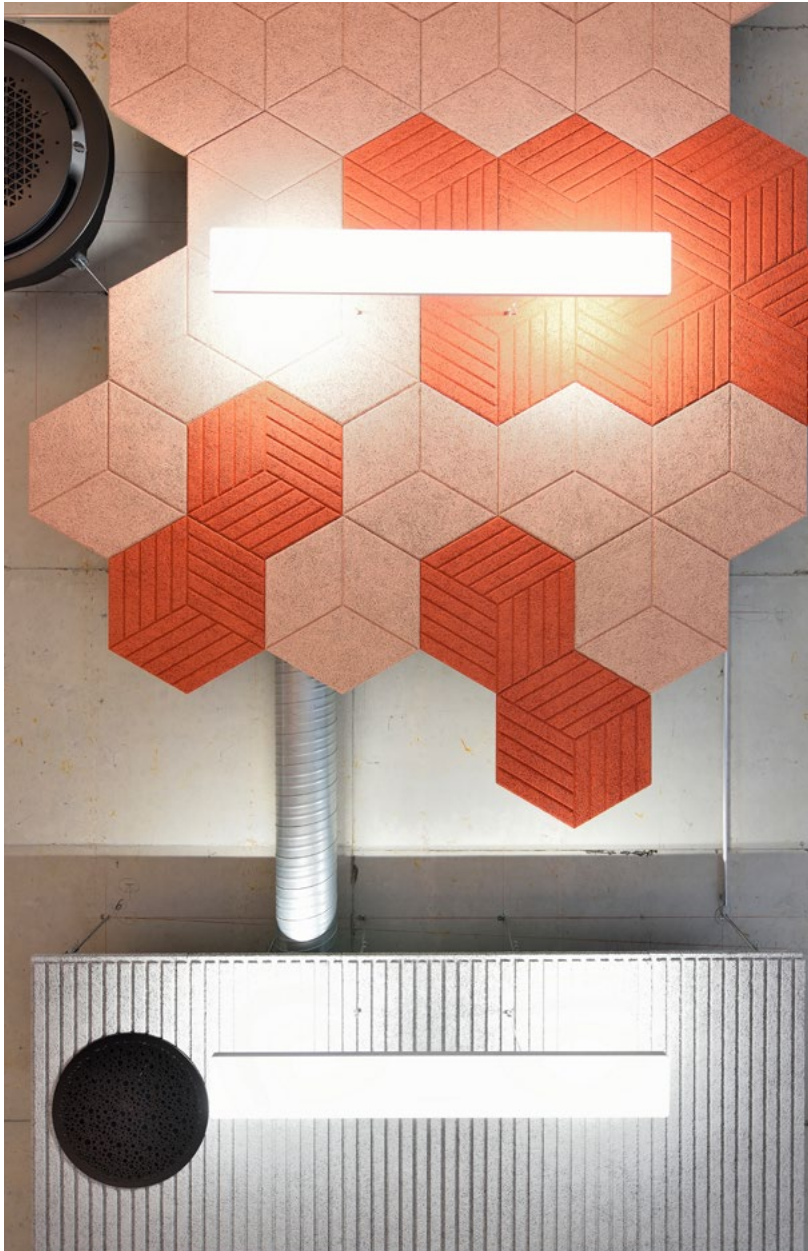
The colourful acoustic panels mounted on the office ceiling of Delivery Hero, the online food delivery service in the heart of Berlin, are a key design feature.

For several years now, work has been underway on one of Berlin's largest construction projects in the district of Berlin-Mitte. Located between Oranienburger Straße, Tucholskystraße, Monbijoupark and Museum Island, the Forum on Museum Island is being created from ten buildings, the majority of which are listed. The building ensemble opened as a residential, work, restaurant and event space in end of 2021.

The former telephone exchange, dating from the 1920s, is located on the western aspect, on Tucholskystraße.

Delivery Hero has been using this building, built in the Art Deco style in 1926-27, for several years now.

Delivery Hero, established in 2011, operates online food delivery services in 14 countries under various company and brand names. It has over 12,000 employees worldwide, of which about 1,000 employees are based at the company headquarters in Berlin. To be able to continue serving this growing market in the future, employees have been using the premises designed to meet the company's requirements in the five-storey Torhaus Ost since the end of 2020.



The new office space

While there are open-plan offices on the second, third and fourth floors, a spacious lounge area for employees is being created on the top floor. The office floors offer sufficient space for around 40 screen-based workstations across an area of approximately 300 square metres. In addition, there are meeting spaces, washroom facilities with disabled access, and a pantry on each floor.

Particular attention was paid to the acoustically and aesthetically optimised design of the ceilings in the open-plan offices. Based on an industrial design, only two-thirds of the rough formwork concrete ceilings (with a headroom of 3.0 metres) were equipped with suspended acoustic panels. The ventilation lines and outlets as well as the suspension of the ceiling system are still visible. The power to the workstations is mainly supplied via cable ducts installed in the false floor.

Various cement-bonded wood wool panels were installed on the three upper floors as acoustic elements, which are arranged as ceiling islands. The Trolldtekt acoustic panels vary not only in colour but also in their surface design. The new design series provided three attractive solutions.

Project: Delivery Hero, Ausbau Torhaus Ost, Berlin, Germany

Planner: neotares Consult GmbH, Frankfurt am Main

Specialist contractor: BBS Bau GmbH, Berlin

Design solutions: Trolldtekt line and Trolldtekt rhomb mini

Colour: Grey 202 and various RAL and NCS shades







A sense of history

Olav de Linde property development has just expanded its headquarters in the Frichsparken business park in Aarhus, formerly a site where locomotives and other iron structures were produced.

Olav de Linde has a lot of irons in the fire, and so more office space was needed in Aarhus. The project included modernisation of the whole office to include improved acoustics in the meeting rooms.

Troldekt line design acoustic panels in varying patterns of horizontal grooves were chosen for a coherent ceiling and wall solution. The acoustic solution adds auditory and visual calm to the meeting room, while constituting an elegant upgrade of the room. As an additional refinement, a light source was added behind the panels to accentuate the fact that the Troldekt panels are detached from the walls and stand out a piece of furniture in the room. Variations in the form of 'interruptions' to the otherwise continuous lines of Troldekt line design panels are accentuated by luminaires parallel to the lines.

Classic Olav de Linde

Troldekt acoustic panels were also used in all other office spaces and corridors, with luminaires built into the ceilings in a very well-designed way. The Troldekt panels

are a classic feature of Olav de Linde's conversions of industrial buildings; in Frichsparken, they are detached from the walls and clearly serve as additions to the space.

Throughout the office you see numerous examples of the recycling of materials in the form of windows, sheets of iron, lamps and furniture. Wherever the original history of the building can be exposed or communicated, this has become part of the décor. The property development company is known for having a keen focus on durable, sustainable solutions, and also for its sense of curiosity about innovative ways of using materials.



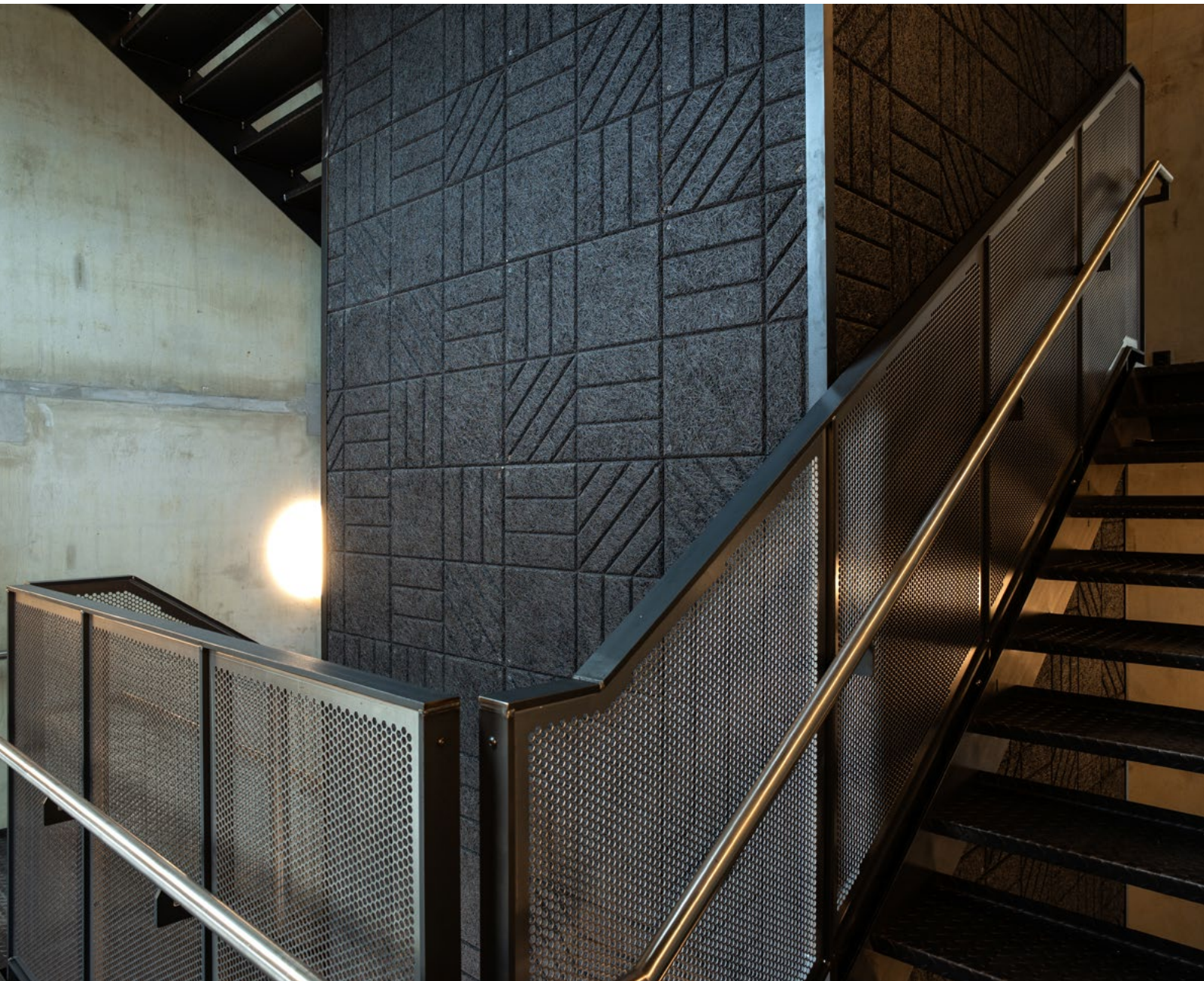
Project: Olav de Linde property development, Frichsparken, Åbyhøj, near Aarhus, Denmark
Builder: Olav de Linde property development
Design solution: Troldekt line design





Renewal and tradition under one roof

The Nordvest district of Copenhagen is home to old workshops and small factories, and new offices are now being built to match this unique urban environment. A good example is the new DGNB-certified office complex at Dortheavej.



Old bricks and homogeneous façades with large windows are an interpretation of the industrial culture at Dortheavej in north-west Copenhagen. The complex consists of two buildings along the street with a square-like space between them leading to an area with a mix of small businesses.

The buildings have 3 and 3½ floors and are thereby scaled to match most of the surrounding buildings. The interiors of the buildings are also inspired by industrial architecture in the form of raw concrete walls and exposed installations. Edge-on parquet and deep window niches clad in wood are obviously robust, but also a fitting contrast to the raw walls.

The ceilings in all the offices are covered with black Troldekt acoustic panels, which act as a unifying 'back-drop' behind many ventilation system pipes. The offices have high ceilings and large windows letting in daylight from several directions, and with the black ceilings accentuating the brightness and airiness of the rooms.



Modern acoustic solutions

At the entrance to both buildings, a staircase leads to the upper floors around a stair tower clad in black Troldekt puzzle on all four sides. The patterned panels add discreet decoration and emphasise the lift as a unifying element in the stairwell. Troldekt puzzle is a square panel that can be combined into careful patterns or used to create a more random look as in this case.

In the canteen, a textural and unique look has been created using yellow rhomb shapes on the interior walls. Troldekt rhomb mini creates a three-dimensional effect and thus serves both as a stylish decorative element and as an effective sound absorber – which can be quite important in a canteen.

Project: Office complex Dortheavej in Copenhagen, Denmark
Architect: SWECO (Kant Arkitekter)
Builder: AKF Holding A/S
Design solution: Troldekt akustik Plus, Troldekt puzzle, Troldekt rhomb mini







16-storey office building as part of new harbour milieu

In Stuveriet – a new office building, which is part of the Masthuggskajen waterfront development in Gothenburg – businesses can now rent office space with sea views. The design is inspired by the surroundings, and Trolldtekt has been selected in a distinctive custom colour for the lower, public areas.

Stuveriet is Gothenburg's new 16-storey office building located at Masthuggskajen. In the 1800s, this working port was teeming with life, but as the shipping industry shifted away from the city centre port areas, the area gradually went into decline. As part of an ongoing urban redevelopment project, Masthuggskajen is now being transformed into a modern district of offices, homes and restaurants.

Stuveriet is owned by Stena Fastigheter AB, and Erdegard Arkitekter was in charge of the design from start to finish. 7,600 square metres of office space are rented out to businesses, in addition to which Stuveriet also encompasses a shared reception area, café and bistro, sports lounge, meeting and conference facilities, an orangery on the 14th floor and a roof terrace.





Design reflecting the area

The rounded facade of the building takes account of the weather in Gothenburg, reducing the impact of onshore winds and rain, Charlotte Erdegard, architect MSA from Erdegard Architects explains. She continues:

"The facade and roof of the building consist of a single, thunder-blue material in bands of metal cladding with sophisticated details. The large floor-to-ceiling windows offer harbour and sea views as well as overlooking the street and so connecting the workplace with life on the plaza below."

Troldtekt throughout

The lower floors are public areas, and Troldtekt acoustic solutions feature prominently in the styling. A red custom colour of Troldtekt line has been chosen for the ceiling and, unusually, the panels continue some distance down the wall, contributing even better acoustics as well as distinctive styling to the premises.

The Troldtekt solution is reiterated in the lobby, lift zones and the café but at twice the height. The colour should be seen as a tribute to the original harbour milieu, explains Ida Modin, an architect with Erdegard Arkitekter, who worked on the interior design concept for Stuveriet:

"Red is festive, but the colour is also associated with the harbour's rusty cranes and the characteristic red tin roofs of the district. Troldtekt line, which is a natural material, gave precisely the effect we wanted – slightly rough, yet exclusive. On the walls, the panels act as acoustic materials, while also framing the high-ceilinged room. The special brass fittings uplift the room even more through the contrasting of shiny and matte surfaces."

Project: Stuveriet, Gothenburg, Sweden

Builder: Stena Fastigheter AB

Design solution: Troldtekt line,
Red custom colour

Certification: The building is seeking to achieve LEED Platinum certification, LEED's top certification for eco-buildings in Sweden.







A warm welcome with decorative design

Mandrup Arkitekt | Ingeniør in Viborg welcome you with Trolldtekt acoustic panels based on the CO₂-reduced FUTU-RECEM 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 with Trolldtekt curves in natural grey have been used. On the one hand, a recognisable Trolldtekt product



Acoustic panels with reduced carbon footprint

Troldtekt has developed acoustic panels in which the cement has been replaced with the new, CO₂-reduced cement type FUTURECEM™. FUTURECEM is a patented cement product which exploits the synergies between calcined clay and limestone filler. This means that much of the fired clinker in the cement can be replaced, resulting in a 30 per cent smaller carbon footprint.

– yet at the same time completely new, as the panel is produced with FUTURECEM, which has a 30 per cent lower CO₂ footprint than traditional cement.

Maximum benefit

In the high-ceilinged meeting room, the solution is particularly elegant with two large, framed surfaces with Troldtekt curves (3.0 x 4.8 m and 3.6 x 3.6 m). The solution has improved the acoustics as desired. The new Troldtekt curves panels are based on FUTURECEM, a composite consisting of 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, 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.

The new Troldtekt panel is made of wood and FUTURECEM, and renewable energy is used in the actual production of the panels in Troldhede.

Troldtekt acoustic panels based on FUTURECEM have a carbon footprint over the entire product life cycle that is 26 per cent lower than that of Troldtekt based on grey cement.

It nevertheless shares the same benefits as classic Troldtekt panel in terms of acoustics, strength and fire-proofing properties.



Troldtekt based on FUTURECEM has carbon footprints that are 26 and 38 per cent lower, respectively, than those of Troldtekt based on grey and white cement, measured throughout the entire life cycle of the acoustic panels. Almost all the energy consumed at Troldtekt's own factory comes from renewable sources (97.8 per cent in 2021).

Troldtekt based on FUTURECEM is – like the other Troldtekt cement-bonded wood wool panels – Cradle to Cradle-certified at Gold level. Both the classic Troldtekt acoustic panels and the series of Troldtekt design solutions are available based on FUTURECEM.

Project: New offices for the firm Mandrup Arkitekt | Ingeniør in Viborg, Denmark
Architect: Mandrup Arkitekt | Ingeniør
Builder: Mandrup Arkitekt | Ingeniør
Design solution: Troldtekt curves (FUTURECEM)



Architects' new drawing office

CEBRA has refurbished its own studio in Aarhus, selecting the Trolldtekt v-line design solution. Better still, the variant they chose has a lower carbon footprint than classic Trolldtekt acoustic panels.



break-out zones and spaces for quiet concentration.

Calm surfaces with Trolldtekt

In connection with the refurbishment, the architects chose Trolldtekt's latest design solution, Trolldtekt v-line.

"We went for Trolldtekt because of the acoustic properties, as the panels ensure a comfortable reverberation time in the different work zones, and because the longitudinal v-groove design goes well with the new interiors," says Carsten Primdahl, one of the four partners at CEBRA.

Trolldtekt v-line – in this case 1way in natural grey – has been installed on the ceilings and on selected wall surfaces.

"Trolldtekt v-line has a refined and simple look. The panel joints are discreet, and the longitudinal lines create a coherent and calm surface," says Carsten Primdahl.

The acoustic panels in CEBRA's studio are based on the cement type FUTURECEM, which has an approximately 30 per cent lower carbon footprint than traditional

cement. Trolldtekt acoustic panels based on FUTURECEM have a carbon footprint over the entire product life cycle that is 26 per cent lower than that of Trolldtekt based on grey cement.

"As consultants to the construction industry, we're very aware of our duty to help reduce the industry's carbon footprint. As a result, we're keen to explore materials with a lower climate impact." Both for projects we're undertaking for clients, but also at our own offices," says Carsten Primdahl.

CEBRA undertakes commissions worldwide for residential housing, urban development, education, business and cultural settings. The drawing office has been involved in a string of high-profile projects, including the Nye residential development in northern Aarhus, Experimentarium in Copenhagen and the Al Hosn Masterplan in Abu Dhabi.

The drawing office occupies an old industrial building in central Aarhus which oozes charm and character. However, as the architects were in need of more of a multipurpose office environment, more meeting rooms were added as well as



Project: Refurbishment of drawing office
for CEBRA, Aarhus, Denmark
Architect: CEBRA
Builder: CEBRA
Design solution: Troldekt v-line 1way,
(FUTURECEM)



Elegant contrasts

The head office of Jensen & Nielsen Gruppen A/S is situated at the top of a newly built office building in Kolding. Boasting fantastic views, the penthouse office is flooded in an abundance of natural light, which the interior design underscores.

Jensen & Nielsen Gruppen A/S, a development and construction company, wanted the narrow office space to combine a good working environment with a homely atmosphere.

Local designers Reinholdt // Rud have expertly combined tactile materials and beautiful design to strike just the right balance.



The ambience is inviting and friendly, yet the office exudes a cool elegance borne by smoked oak and glass walls. The wall colours, curtains and carpets all help to accentuate the changing natural lighting. The building is sited on the banks of a river, and two managerial offices at the far end overlook the point where the river flows into Kolding Fjord.

Graphic effects

Black Trolldtekt line panels were installed on all the ceilings. The grooves in the surface and the integrated lighting emphasise the building's elongated shape and direction parallel to the river.

A very elegant, visual solution that binds the rest of the interior together. The black ceilings contrast with the

large sections of glass, adding intimacy to the rooms. Jensen & Nielsen Gruppen A/S values good acoustics – in their own offices and in the projects they are involved in.

The concrete design floors are also a theme throughout. Like the ceiling, they underscore the fact the office essentially occupies a single large space.

Project: Penthouse JN Group A/S in Kolding, Denmark

Architect: Arkitema

Builder: Jensen & Nielsen Gruppen A/S

Design solution: Trolldtekt line





New Job Centre with a dynamic, uplifting atmosphere

This contemporary project, which was commissioned by a Berlin employment agency, demonstrates that open-plan offices for public services do not automatically make for a noisy, dreary environment.

The Berlin borough of Treptow-Köpenick in the south-eastern part of the city is not only the capital's largest borough by area, but also its most scenic. Bodies of water, forests, parks, nature and landscape conservation areas account for about 70 percent of the borough's area. It is also home to Berlin's largest lake, the Müggelsee.

In addition, the borough has a strong social base and is a significant and internationally renowned economic location due to its innovation and technology centre in Adlershof. With a robust labour market, the borough enjoys an above-average employment rate. Nevertheless, people for whom a visit to the Job Centre in Treptow-Köpen- →

→ ick is unavoidable will now find a modern, open, customer-friendly and inviting space with a dynamic, uplifting ambience.

Dynamically curved benches and two large reception desks in the reception area, as well as brightly coloured floors in blue and turquoise set against light-coloured walls, lend the entire space a friendly feel. The room features niches with vending machines and a hand sanitising station. A play corner for children, painted in a sunny yellow colour, is furnished with round stools of

different heights in white, dark grey and yellow to form additional colourful highlights.

Lighting and acoustics in the Job Centre

The ceiling pendants in the spaciouly designed consultation area are also yellow and round. To help users of the Job Centre find their way quickly and easily, the pendants are each marked with a large number to direct visitors to the correct advice station. The pendants form part of the interior design, which centres around two key considerations: customer orientation and er-



gonomics for the benefit of the Job Centre employees. To create the best possible working environment, all areas feature a carefully conceived lighting design with a mix of various direct and indirect sources of light.

Harmonising with this design and to ensure optimal acoustics in the daily working environment, Troldekt acoustic panels were installed on the ceilings and on some walls. The panels, in a natural wood tone, harmonise with the design of the other fittings and form a calm and aesthetically pleasing contrast with the bold blue flooring.

Project: Job Centre, Köpenick, Berlin, Germany
Interior-Design: IONDESIGN GmbH, Berlin
Builder: Agentur für Arbeit Berlin Mitte
Design solution: Troldekt line





Stylish design in the courtroom

Acoustic elements from Trolldtekt's tilt line design solution have been installed in Wuppertal's district court building.

The impressive neoclassical district court building in Wuppertal (North Rhine-Westphalia, Germany), built around an inner courtyard and completed in 1854, is one of Germany's oldest court buildings. Planned by Carl Ferdinand Busse, a student of the influential architect Carl Friedrich Schinkel and director of the Bauakademie Berlin, the building's architecture was designed to reflect the transparency and openness of the judiciary.

At the beginning of the 20th century, a district court building was added to the complex, which is located on what is known as 'Court Island' on the Wupper river, followed by a six-storey new build in 2005.

The courtroom

One of the main rooms in the district court building – not least because of its size – is the courtroom. It was completely gutted by fire in 1943 following bomb attacks on



the court building and was reconstructed in the postwar period, as was the entire courthouse. Further reconstruction and renovation work was carried out in 1971, and another extensive renovation took place in 2003 and 2004.

Tilt line as a design element

Since 1955 one of the most striking features in the modernised courtroom – which now meets all of the latest safety and media technology requirements – has been the large mosaic depicting The Judgement of Solomon by Wuppertal artist Adelheid Horschik, which hangs prominently on the white wall behind the judge’s bench. Acoustic elements from the tilt line design solution have been installed along the side walls of the courtroom to

create the optical effect of simulated spines of file folders. The natural-coloured elements artfully frame the brown doors and some of the flat screens. The matching radiators are discreetly set in small covers in the wall covering, which adds creative flair and style to the linear elements which structure the design of the room.



Project: Schwurgerichtssaal am Landgericht Wuppertal, Germany
Architect: Martin Hebgen, Architektur & Denkmalpflege, Duisburg
Bauherr: Land NRW v. d. d Ministerium der Justiz, Düsseldorf
Design solution: Trolldtekt tilt line




Landgericht Wuppertal
Schwurgerichtssaal L147


Landgericht Wuppertal



Landgericht Wuppertal
Schwurgerichtssaal L147



Soft sights and sounds for software company

Massive Design architects were engaged by software giant, Oracle, to design their latest offices in Warsaw. The design pairs elegance and materiality with modern technology, a truly representative space for the global IT company's latest location.

With over 20 years' experience in corporate design, Massive Design was able to provide Oracle with the best solutions available. It meets the challenge to create an interesting interior that will maintain the timeless values of functionality and aesthetics and will serve employees and builders for a long time.

Designed with a wide range use of high-quality natural finishes, the final selection of materials was not only led by eco-friendly and less-waste solutions but also with great attention to acoustics. This was the reason why Trolldtekt's cement-bonded wood wool acoustic tiles are used to help overcome common problems with open offi-





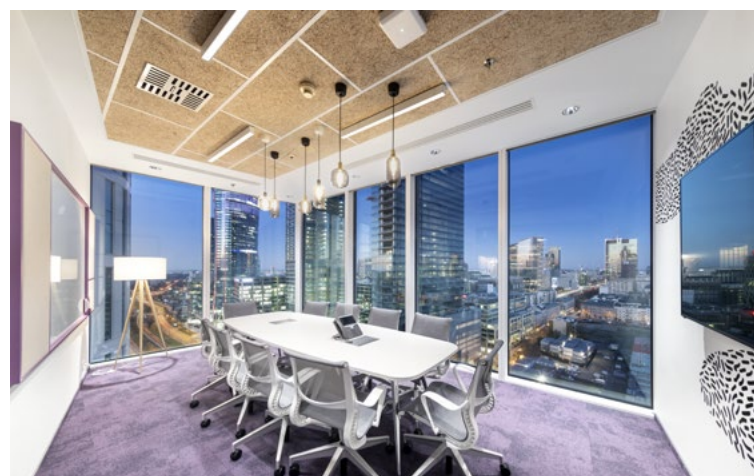
ce areas, where there is insufficient sound absorbers or barriers.

The acoustic tiles were used as both ceiling and wall cladding in the colours natural wood and black and in an ultrafine finish. Ceilings are clad with Trolldtekt acoustic panels, while selected walls have been decorated with hexagon formed rhomb mini and rhomb hatch panels, which are part of Trolldtekt's award-winning design solutions collection. The rhomb panels create an interesting surface with a three-dimensional pattern.

Conscious design decisions during the early stages improved the comfort of the final space. During workshops, many different solutions were recognised and implemented for more focused, collaborative work. The employees are now able to transfer easily between brainstorming open collaborations to the soft seating, informal solo work points as well as from the standard sit-stand desks straight to the communication booths or enclosed meeting areas. Every single piece of movable or built-in furniture within these areas helps employees work more effectively. In other words, the entire office was designed to maximise the comfort and productivity of its users.

Despite the classic division of guest and employee areas, the design does not distinguish between two different standards of finish. In the office part of the interior, an important role is given to mixed use connect and social areas because at the time the new Warsaw HQ was combining two independent offices.

Different ways of integration were also developed in consultation with Oracle representatives from individual



departments. These included spaces dedicated to integration and relaxation, fitted out with comfortable soft seating, play tables and even a yoga room.

The centrally located cafeteria also brings the amazing downtown Warsaw panorama view to all employees. The same view can be enjoyed by Oracle Builders while entering the reception area along with the fantastic display of the well-known Oracle logo hanging above.

Project: Oracle office in Warszawa HUB, Poland

Architect: Massive Design

Builder: Oracle

Design solutions: Trolldtekt rhomb mini, Trolldtekt rhomb



Horisont Arkitekter in historic factory building

The fully refurbished former industrial building Trikåfabriken in Malmö has become a popular office environment for the city's creative businesses. Horisont Arkitekter has moved in, and Troldekt is part of the architects' own office design.



Horisont Arkitekter moved into its new Malmö office in September 2022, located at Trikåfabriken – the former industrial building fully refurbished by Stena Fastigheter and FOJAB. Here, the first phase is rented out to both new and established businesses in the creative industry.

Horisont Arkitekter undertook its own new office design, streamlined with the rest of the office landscape in the building – but with a twist, and adapted to their needs.

In terms of design, preserving the original details has been nicely balanced with a modern office landscape.

Among other things, the old windows have been preserved – though retrofitted with insulation – and so are the sloping beams on the long side of the office, which stretches 28 metres. In addition, certain installations and pipes remain visible, helping to preserve the industrial styling.

Wavy wall

Two different Troldekt acoustic solutions have been selected for ceilings and walls. The ceiling surface is classic white acoustic panels with integrated lighting. As a partition between office spaces and a kitchenette, a 'wavy' →



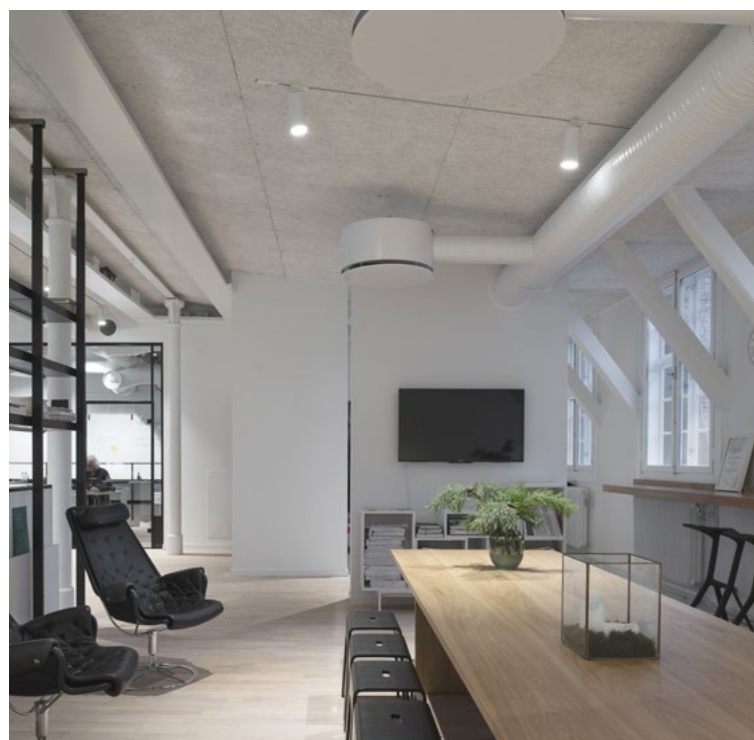
wall has been built, clad with Trolldtekt tiles design solution, also in white.

"Since the kitchenette is located in the middle of the office landscape, we set out to create a good soundscape and ensure a good acoustic working environment; in other words, function without compromising on design. We designed a wavy wall covered with acoustic panels to separate the kitchenette from the workstations. Having a rounded wall was important to our design concept, so we wanted acoustic panels that could be bent. Trolldtekt acoustic panels quickly came into play because of the sustainable materials and the great way of combining form and function," says Kristina Forsler Sjögren, architect SAR/MSA, Horisont Arkitekter.

Trolldtekt tiles – a unifying effect

Trolldtekt tiles produce a design with a pattern of rectangles of various sizes. The solution consists of square 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.

"We're delighted with the result! The office has a pleasant soundscape, and the grooves in the panels create a vibrant surface that produces a beautiful interplay of shadows. We've combined five different pattern variants with rectangular fields of different sizes. The milled lines make the surface seem continuous, making the panel joints disappear as if by magic," says Kristina Forsler Sjögren.



Both Troldekt solutions help to ensure pleasant acoustics for the architects and the designs work together with the overall light-coloured styling, interspersed with black wooden fixtures.

A burgeoning business area

Stena Fastigheter began the development of parts of the old Trikåfabriken, in the heart of Malmö, at the beginning of 2020. The goal was to preserve the character and soul of the building, now transformed into a modern workplace with flexible office solutions.




Project: Office, Horisont Arkitekter, Malmö, Sweden

Architects: Horisont Arkitekter AB

Builder: Stena Fastigheter Malmö AB

Design solution: Troldekt tiles





Exclusive longhouse in the heart of the countryside

In woodlands south of Randers in East Jutland sits a home in a class of its own. In The Nordic Barnhouse Project, a great deal of care has gone into the floor plan and the choice of materials.





Project: Nordic Barn House,
Randers, Denmark
Architect: Bruno Jakobsen
Builder: Bruno Jakobsen
Design solution: Troldekt line



→ A newly built longhouse in exclusive materials, in the new Nordic style and with untamed nature extending all the way up to the patio. This is where the designer and architect Bruno Jakobsen lives with his family. Bruno Jakobsen designed the house himself, and channelled his energies into creating the perfect floor plan, a wealth of fine details and an interesting interplay between the various materials.

On the site there are three structures – a 180-square-metre house, a 56-square-metre design studio and a 128-square-metre workshop. There is also an orangery.

Designer's hallmark

Bruno Jakobsen terms the style 'new Nordic', which is stringent and modern, yet still warm and personal. He always works with three or four key materials throughout the house.

Bruno Jakobsen has chosen Italian natural stone tiles for the floor, as they last forever – and never go out of fashion. The walls are made of Douglas fir, and fixtures are integrated as part of the house.

The last recurring material is the black Trolldtekt acoustic panels. The choice fell on the design solution Trolldtekt line which, with its longitudinal grooves extending across the entire ceiling surface, adds a visually calm look. As the house is more than six metres tall and has many hard materials such as glass and concrete, effective sound absorption was paramount.





Stunning surface designs for wall and ceilings

HSB is a large Dutch construction company that specialises in new construction, renovations and subcontracting. Based in Volendam, the company employs over 336 people and is well known for its CSR strategy and sustainable building techniques

The renovation of its own headquarters in the Slobbe-land, offered a great opportunity for the company to demonstrate its own high-end design credentials and top-quality finishing.

New ceilings and flooring were installed as part of the makeover together with the replacement of the ageing central oak staircase with a modern version. In addition,

new HVAC systems were installed to provide heating and cooling while also enhancing energy efficiency.

From the warm and friendly reception area to the stylish and elegantly finished meeting rooms, HSB chose a sleek black finish in Troldekt line design with its perfectly symmetrical vertical lines. These acoustic panels help combat the problems of reverberated sound coming from



all the new hard surfaces and also add tactile and visual appeal. The panels running through the rooms, corridors and break-out areas add a sense of uniformity across the whole building and offset the light wood of the herringbone flooring and interior paint scheme.

The milled grooves which run across the ceilings offer an additional sophisticated and interesting architectural fea-

ture. Combining panels generates continuous grooves with a seamless look and invisible joints. This means viewers perceive the surface pattern as a whole because it is difficult to detect where the panels meet.

→



Project: HQ HSB Bouw - Reception and conference rooms, the Netherlands
Architect: HQ HSB Bouw
Builder: HQ HSB Bouw
Design solution: Trolldtekt line





Modern and refined science wing

Espergærde Gymnasium has a new large extension – representing an elegant reinterpretation of the original architecture while at the same time setting a new direction.



In the late 1970s, the original Helsingør Gymnasium, whose history dated back to 1439, had outgrown its premises, and a decision was therefore made to move the college to nearby Espergærde, changing its name to Espergærde Gymnasium in the process. Espergærde Gymnasium thus goes back an incredibly long way, while the buildings very much reflect the era in which they were built.

The firm of architects Mangor & Nagel designed the first Espergærde Gymnasium – and is also behind the latest extension. The architectural cohesion between the buildings is ensured through a consistent focus on material robustness and the rhythm of the facade elements. The new extension, which is connected to the main school building, overlooks the playing fields and houses four science classrooms and an auditorium.

Beautifully balanced materials

The classrooms are placed at the front, while the auditorium is located at the heart of the extension. The walls are

predominantly made of raw concrete, which is accentuated by large, white windows. Some of the walls in the auditorium are clad in wooden strips while others are simply white, which gives the room its own distinct identity.

Troldekt line design in natural wood is used throughout and also in the auditorium. The dynamic feel of the ceiling and the wood colour contrast beautifully with the concrete.

The precision of the lines and the varying patterns are also ideally suited to counterbalance the raw walls. Another nice touch is the use of Troldekt in the auditorium, where Troldekt line design is used on both the walls and ceilings, and gives the room a warm and friendly atmosphere.

Project: Espergærde Gymnasium & HF, Denmark

Architect: Mangor & Nagel Arkitekter

Builder: Espergærde Gymnasium

Design solution: Troldekt line design



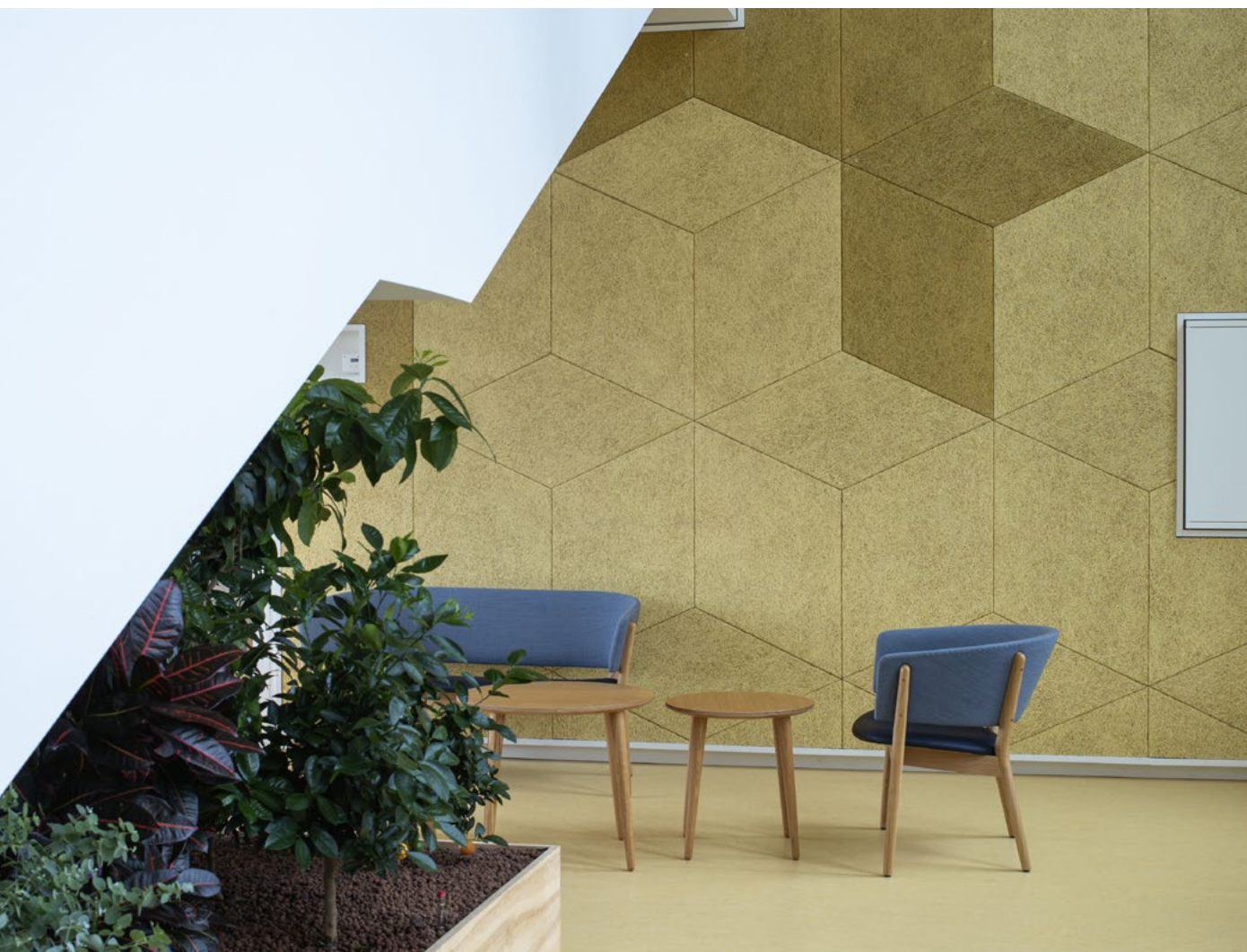


Sensory orangeries at Solgaven

Solgaven in Valby, Copenhagen, is a residential care facility specifically for blind and visually impaired residents. The architecture and interiors of the complex are therefore designed to support residents in their daily lives, making sure they feel at home in the building and can easily find their way around.

Each care facility unit comprises 25-34 apartments across two floors. This is reflected in the colour scheme. Thus, the ground floor is sand-coloured, the next two floors have green walls, doors and floors, then follow two yellow floors and two blue floors. The colours are meant to imitate the outdoors, representing sand, grass, sun and sky.

Double-height rooms connect the same-coloured floors, which contributes to a strong sense of cohesion and spatiality in the building. A staircase connects the two floors and is also intended to be used by blind and visually impaired residents to practise walking on stairs.





The three double-height rooms have been arranged like orangeries featuring plants in raised beds by the stairs and growing on the double-height wall with wooden strips. High windows ensure pleasant natural light conditions in the communal area as well as views of the city to the north and south.

Graphic wall

One wall is clad in wooden strips to create a vertical garden and the opposite wall in Troldekt rhombs in hues to match the colour scheme of the respective floors.

Thus, the blue Troldekt rhomb wall is composed of several shades of blue to produce a decorative graphic element that can be experienced from both floors. At the same time, the Troldekt rhombs, along with the long curtains, ensure acoustic regulation, making the orangeries comfortable rooms to be in.

For the two architectural firms involved, CUBO and Force4, wayfinding has been a unifying principle of the interior design and has been incorporated into e.g. the use of colours and materials in a way that activates all the senses.



Project: Solgaven, residential care facility in Valby, Denmark

Architect: CUBO and Force4

Builder: City of Copenhagen

Design solution: Troldekt rhomb

Time out from everyday life with a view of the Nagold valley

Located in the centre of the spacious spa gardens around the spa town of Bad Liebenzell, the renovated Paracelsus thermal baths and Pinea sauna offer unadulterated rest and relaxation.



The modern thermal spa, which opened in 1968 with an indoor swimming pool and has been evolving ever since, features a wide range of indoor and outdoor baths and is nestled in the picturesque Nagold valley.

A wide range of leisure and sauna facilities

Besides an outdoor pool with whirlpool cove and waterfall, an aroma island, a sun terrace overlooking Liebenzell Castle and salt water inhalation, guests can also avail themselves of a wide range of saunas. For example, visi-



tors can sweat and relax in the rocky steam grotto, in the panoramic sauna with breathtaking views, in the open-air log cabin saunas or the relaxation and bio saunas and then cool off in the plunge pool.

An oasis of tranquility close to nature

Architect Markus Beyer from Bad Liebenzell has impressively managed to create a true oasis of tranquility for sauna guests. The sleek design of the Natur & Paracelsus relaxation room on the third floor offers a sublime view over the natural landscape of the Nagold valley through the large windows and exudes a cosy, feel-good ambience.

Guests spending the day here can snuggle up on rocking or heated loungers, get comfortable on cosy cocoon lounge beds or big round lounges and unwind from the stress of the daily routine in reader's corner by the fire

or in a rocking chair. A hanging forest of preserved plants suspended from the ceiling and a moss-covered wall not only set the scene but also create an excellent ambience.

Ceiling panels as a design element

A brown, wood-effect floor, other wooden furnishings and furniture in shades of green and brown as well as a water feature accentuate the natural, calming atmosphere. Troldekt curves ceiling panels are perfectly coordinated with the sophisticated approach to the overall design, in both shape and colour.

Project: Paracelsus thermal baths, Bad Liebenzell, Germany

Architect: Markus Beyer Architekt, Bad Liebenzell

Builder: Freizeit und Tourismus Bad Liebenzell GmbH

Design solution: Troldekt curves →



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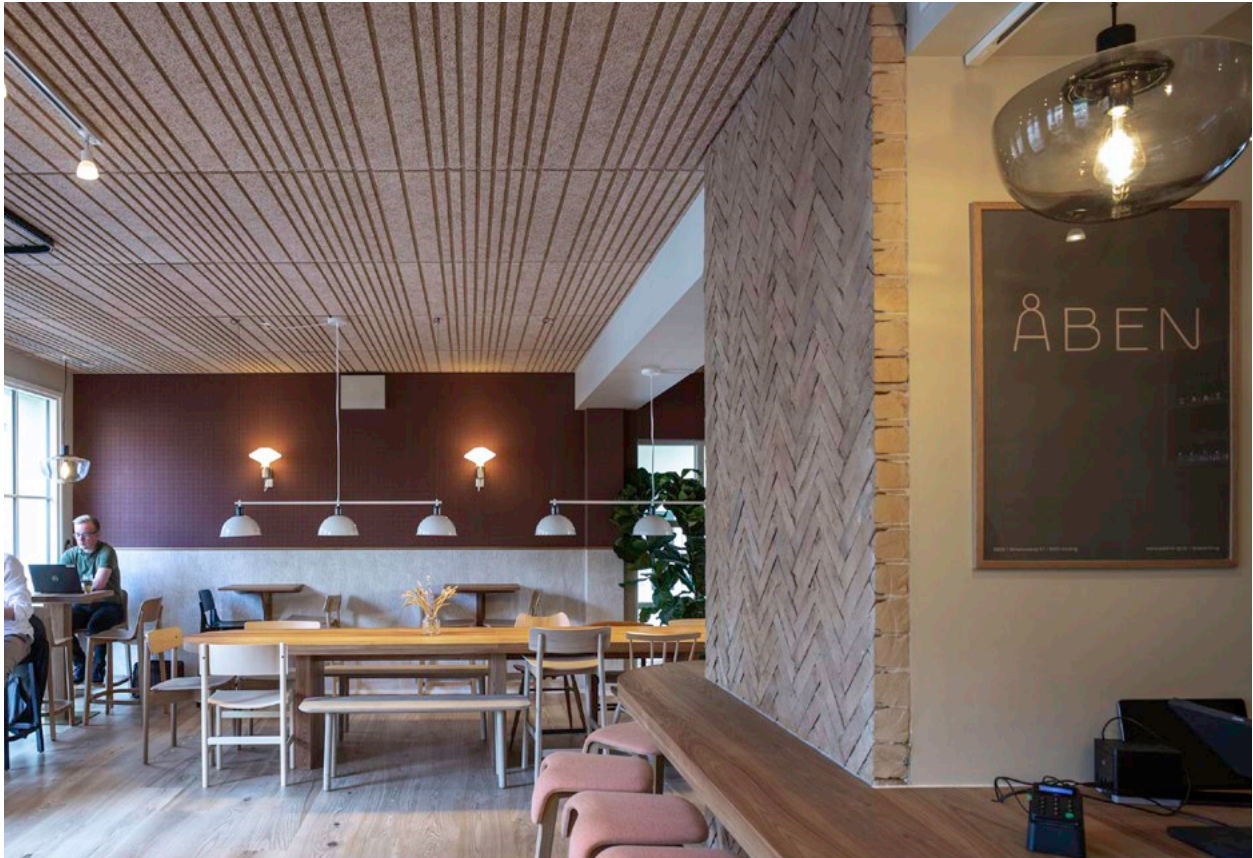
At Restaurant Strandtangen in Skive, high-quality raw ingredients and a stylish interior create memorable dining experiences. Black Troldekt line with milled grooves create an intimate atmosphere and a beautiful play of light and shadows.

Award-winning design ensures intimacy and elegance

Troldekt design solutions combine superior acoustics with distinctive aesthetics. These are two key elements when giving restaurant-goers memorable experiences. In 2021, the entire design series was among the winners at the 'Die schönsten Restaurants & Bars' awards.

Interiors, lighting, furniture and surfaces all contribute to creating the right ambience and mood at a bar or restaurant. Architects and designers have realised that Troldekt's design solutions give them a free hand to create distinctive ceiling and wall surfaces – while at the same time solving the acoustic challenges that can otherwise spoil a visit to a crowded restaurant. Troldekt design solutions have been installed in intimate sushi restaurants and elegant restaurant by a golf course as well as a wide range of more classic restaurants.

The design solutions make it possible to combine distinctive and characterful design with superior acoustics. Each solution can be varied and scaled to make large surfaces appear visually coherent. And architects have a range of solutions to choose from depending on their taste – from a Nordic design with straight lines to more expressive and colourful options.



Troldekt line design in natural wood were selected for the charming ÅBEN beer bar in Aarhus. The design solution underscores the warm atmosphere and provides a precise shape that pulls the room together. The interior design and elements exude quality and careful attention, as does the high standard of the beer itself. Read more about the ÅBEN beer bar on the next page.

The most beautiful wall design

In 2021, the design solutions were in the limelight at the 'Die schönsten Restaurants & Bars' awards, which celebrate beautiful design. Here, Troldekt design solutions won an award in the Wanddesign für Ausbau und Interior (interior design, lighting and furniture) category.

"It was a great honour for us to be among the award-winners. Restaurants and bars are places where our design solutions can make a big difference to both the acoustics and the ambience," says Jesper Kvist, Country & Business Development Manager at Troldekt GmbH.

More awards since launch

The 'Die schönsten Restaurants & Bars' awards are presented by the publisher Callwey in collaboration with a number of partners. They include the Association of German Interior Architects/Designers and the German Hotel and Restaurant Association (DEHOGA). All the winning entries are featured in a beautiful book published by Callwey.

Troldekt design solutions also won a German Design Award in 2020 and an ICONIC Award in 2019.

FACTS: 'Die schönsten Restaurants & Bars 2021'

- The awards honour restaurants, bars, bistros and cafés. Architects, planners and restaurateurs in Germany, Austria and Switzerland were invited to enter their best projects.
- In addition, 13 companies were honoured in 2021 for this year's solutions, including Troldekt GmbH in the wall design category.
- The publisher Callwey organises the awards in collaboration with the Association of German Interior Architects/Designers and the German Hotel and Restaurant Association (DEHOGA Bundesverband), INTERN-ORGA, Leitmesse für Gastronomie and media partners AHGZ Allgemeine Hotel- und Gastronomiezeitung, SALON and Architekturmagazin Bau-meister.
- All the winners are featured in the yearbook Die schönsten Restaurants & Bars 2021.





Charm on tap

Aarhus now has a new and entirely unique beer bar. Here, the beer takes a backseat to the place itself, which enjoys a very central location on cobblestoned Rosensgade with a view of Aarhus Cathedral.





It's called ÅBEN (OPEN), and it primarily serves the ÅBEN brewery's own beer, as well as cider and kombucha. The brewery was founded in 2017 in Kolding, Denmark, and was named microbrewery of the year in 2019.

ÅBEN literally represents an openness to new types of beer production, new people, new collaborations. When you arrive at ÅBEN in Rosensgade, the door is open and you feel very welcome.

The interior design reflects the identity of the place. It's a place to meet friends, have fun and enjoy the beer to-

gether. The beer bar's design and elements exude quality and careful attention, as does the high standard of the beer itself. There are many types of furniture and surfaces, but everything is elegantly connected in a harmonious unity with a focus on nature and the tactile.

Troldtekt line design acoustic panels in 'natural wood' colour were selected for the ceilings, underscoring the warm atmosphere and providing a precise shape that pulls the room together.

Natural materials

ÅBEN is a place that invites you to relax, as you would in a living room. Visually, beer is not the centre of attention, but it is served fresh on draught from a strip of 24 taps. Chilled and delivered straight from the brewery in Kolding, as if it were milk. The interior design also features references to grain, flowers and other ingredients that go into making the beer.

One aspect of ÅBEN beer bar's holistic approach is its comfortable acoustics, which is essential to creating a pleasant atmosphere. Troldtekt contributes to the good acoustics in the bar, but also in the space on the lower floor, where larger groups can be accommodated.

Project: ÅBEN beer bar in Aarhus, Denmark

Architect: ATM Design

Builder: ÅBEN ølbar in Aarhus

Design solution: Troldtekt line design



Natural and welcoming by day and by night

Stepping into Eydes, you step into a modern and atmospheric café environment which gradually comes to life before your eyes. The newly redesigned interior is welcoming to all types of guests, as has always been the hallmark of Eydes.

Eydes is a café, eatery and bar rolled into one and is situated on the pedestrian shopping street in the Danish town of Odense on the island of Funen. It is extremely popular and following its recent makeover has attracted the curiosity of even more locals as well as people from further afield on Funen.

KAKI Spaces has been in charge of the new interior design, and has been able to draw on its extensive knowledge of the special Eydes DNA from prior interior design work. Inspired by the strong popular appeal of the place, the aim of the new decor has been to create a modern venue using natural materials for a sensuous experience.



A lot of wood, tiles, plastered walls and fabrics have been used, all of which are very tactile materials. Plants and superior acoustics enhance the atmosphere and the strong sense of presence you cannot but feel at Eydes.

Ceiling adds rhythm

Coming through the doors, you are welcomed by smiling staff, and you can choose to sit either at the front near the windows, or retreat to the restaurant zone towards the back, which is also where the bar is situated.

KAKI Spaces sees the two zones as representing Eydes' daytime consciousness and nighttime consciousness. At the front, Troldekt line has been installed on the ceilings, which – quite apart from ensuring superior acoustics – highlights the depth of the room and directs the attention towards the buffet at the back of the re-

staurant, which also features a Troldekt line acoustic ceiling in the colour natural wood.

In a room with many layers of furniture, decorative features and lighting, the ceiling holds everything together beautifully, while at the same time adding a distinctly exclusive touch. Black Troldekt has been chosen for the more high-ceilinged middle section around the bar to mark a break or pause, which after all is exactly what a bar is for.

Project: Restaurant Eydes in Odense, Denmark

Architect: KAKI Spaces (Design), Ambiente (Production & Refurbishment)

Builder: Restaurant Eydes in Odense

Design solution: Troldekt line







Wellness and pampering on the banks of the Lahn river

4a Architekten, which also designed the adjacent Emser thermal baths in Bad Ems (Rhineland-Palatinate), have created an impressive 4-star hotel that offers guests an unimpeded view of the River Lahn.



The elongated, five-storey structure boasts large windows and a façade with various projections and recesses, yet despite its size, it fits perfectly into the natural environment and presents itself as an open and transparent part of the townscape. 4a Architekten opted for a rounded, smooth-ground river flint as the key design element – as was also chosen for the thermal baths.

View to the south

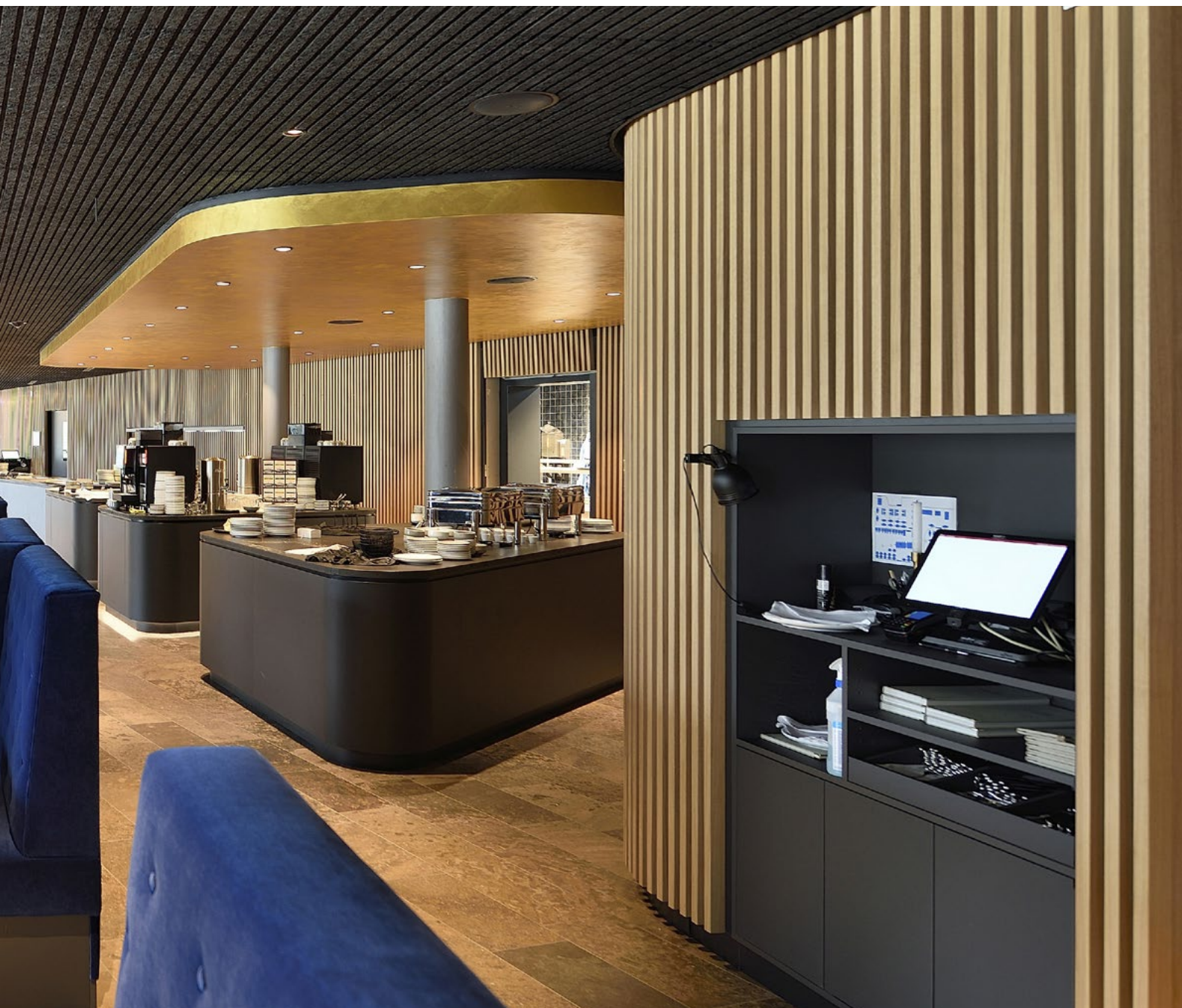
There are 84 double rooms, all facing south with a wonderful view of the River Lahn, on a gross floor area of over 7000 m². Guests also have an unimpeded view of the water and natural landscape from the se-

minar rooms, the restaurant and the impressive Sky-Lounge on the top floor. The thermal baths next door can also be conveniently reached via a private walkway on the first floor.

The covered car park opposite is also spacious and practical. It has intentionally been designed without annoying pillars, does not use a pay-and-display system and has enough space for 277 vehicles.

Stylish, elegant furnishings

The inviting lounge and meeting areas as well as the restaurant and bar boast a stylish, elegant interior. The foyer features brown leather sofas combined with dark



→ green designer chairs. These are skilfully contrasted with the light floor and the black and yellow-gold walls, giving the room a modern yet cosy feel.

The contemporary design continues in the seminar rooms with dark tables and chairs, where the light wooden floors are combined with upholstered dark green wall elements as well as ornamental wallpaper and light curtains on the floor-to-ceiling windows.

Dark ceiling panels accentuate the warm atmosphere

In the bar and restaurant area, royal blue furniture adds a stylish touch to the large, light-flooded rooms. The light wooden floors together with light walls with a vertical linear pattern create a unique, warm atmosphere, which is accentuated by the black acoustic ceiling panels with their grooved surface. The large-scale, curved elements in elegant gold which are embedded in the panels – some of which are indirectly illuminated – add a sophisticated touch, lending the rooms a special character.



Project: Emser Thermenhotel, Bad Ems, Germany
Architect: 4a Architekten GmbH, Stuttgart
Builder: Emser Therme GmbH
Design solution: Trolldtekt line



Elegant conference room at Semrén & Månsson

Semrén & Månsson architects have a conference room fitted with Troldekt acoustic panels at their office in central Malmö.



In 2019, Semrén & Månsson architects opened their office in Malmö, centrally located on Stortorget. The office conference room here has been given a loving touch.

The room looks bright and organic, with green plants, dark green curtains and plenty of daylight from the windows. For the ceiling, the architects have chosen the Troldekt rhomb design solution in white, and for the walls, natural wood. The panels contribute to good acoustics as well as a healthy indoor climate, and the pattern formed by the panels adds design edge.



The Troldekt rhomb surface creates a three-dimensional effect by juxtaposing the diamond-shaped acoustic panels. The four sides of each panel are parallel pairs, and all sides have a half groove cut, creating a full groove at the joints.

"Before, we couldn't have meetings in the room, but now it's a subdued and incredibly good acoustic environment. Troldekt was recommended because of the acoustic challenge – but also to take account of our uncompromising aesthetic requirements. It was important for the ceiling to be discreet, not competing with stucco and other elements of the old, existing building, but still contributing to a powerful overall experience," says Michael Westerlund, architect, Regional BIM Manager, Semrén & Månsson.

Semrén & Månsson also opted for integrated lighting in the acoustic ceiling.

Project: Conference room at Semrén & Månsson in Malmö Sweden

Architects: Semrén & Månsson

Builder: Semrén & Månsson

Design solution: Troldekt rhomb





Children's rooms en suite

Børnehuset Egedammen has been designed as an inviting environment for children characterised by a great deal of spatial variation. The result is an exciting childcare institution.

Buildings for pre-school children are usually tightly structured into group rooms, corridors and secondary rooms. At Egedammen, the rooms are beautifully linked together, and with more or less pronounced shifts in width, height, lighting, colour, acoustics and materials. A number of smaller spaces in the form of recessed window niches have been created within the larger rooms. Larger communal rooms are situated in

the building's main wing, where the ventilation system is located in the roof space to free up space at ground level.

This solution also provides extra ceiling height for the cloakrooms and the communal room, as the ventilation does not occupy the entire roof space. In most rooms, Troldekt line has been installed on the ceilings, ensuring good acoustics

in both the double-height rooms and the group rooms with normal-height ceilings. Troldekt has been approved for use in Nordic Swan Ecolabelled buildings such as Egedammen.

Sustainable through and through

The Municipality of Gladsaxe has a policy that newly built childcare institutions must live up to the requirements of the Nordic Swan Ecolabel which, among other things, requires that they have a low energy consumption and a healthy indoor climate. Furthermore, they are required to use sustainably certified wood in their construction and promote resource efficiency. BBP arkitekter has fully met these requirements, helped by the fact that the architectural practice always works to minimise the carbon impact of its projects.

The buildings are made of cross-laminated timber elements with recycled brick facades combined with new bricks in high-load areas. The use of cement-free lime mortar means that less CO₂ (cement) has been used, and the bricks can be separated after use. Moreover, wood has been used on the interior walls in different pastel colours, which results in sturdy surfaces. Architecturally, the institution is reminiscent of a farm, and is helping to revitalise the local area, rather like a jigsaw puzzle piece you didn't know was missing.

Facts: Troldekt is registered in the Nordic Swan Ecolabel database of materials for use in Nordic Swan Ecolabelled construction.



Project: Børnehuset Egedammen

Architects: BBP arkitekter

Builder: Municipality of Gladsaxe, Children's and Education Committee

Design solution: Troldekt line





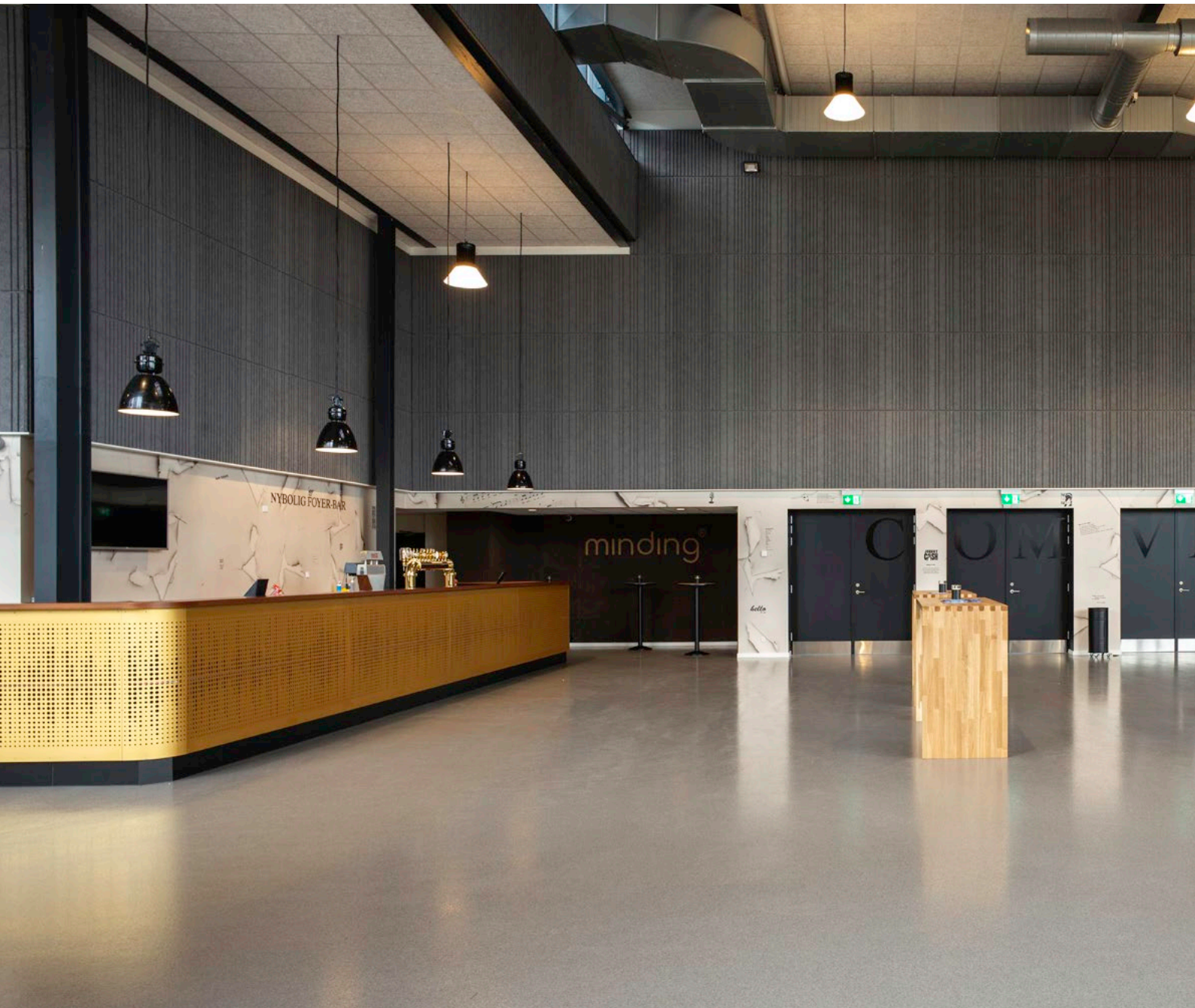
More experiences in Viborg

Tinghallen in Viborg has undergone a major modernisation and expansion, adding to the quality of event experiences held in the building.



NYBOLIG FOYER-BAR





→ Starting with the attractive arrival area outside the building, visitors are greeted by pleasant materials and modern design. The foyer has been doubled in size to make room for a spacious bar and a large lounge area. A large and inviting space that is airy and bright. The focus has been on honest materials and especially cohesive, peaceful surfaces which, like Troldekt, have a living materiality.

Troldekt acoustic panels have been chosen, with a combination of white ceilings and grey wall cladding to above door level. The walls are clad with Troldekt line design in grey ultrafine – an elegant and precise wall solution that flows together into a cohesive whole and particularly frames the bar area.

Troldekt provides acoustic properties as well as an architecturally interesting surface. The inviting foyer leads the audience to the large hall, which has been made even larger and is suitable for a variety of events. Black Troldekt acoustic ceilings have been installed inside the hall.

The palette embraces the guests

The Tinghallen foyer also provides access to a brand new, smaller hall, which houses the Paletten music venue. The aim here was to create a contrast to the neat and timeless foyer. With the help of Morten Varano, who specialises in interior design for venues and bars, this has been eminently successful.



The room design uses materials and colours that embrace visitors and immediately set the mood. Bottle green is the dominant colour, together with a warm wood tone. Geometric elements such as circles and areas with Troldekt rhomb in three shades have been added, creating a three-dimensional effect. Troldekt rhomb has been used on both walls and ceiling in the bar area, resulting in a unique cave effect.

The acoustics have obviously been important in the interior design of this room, and large wall surfaces clad with black Troldekt panels are part of the solution. The room also features exquisite lighting – one of Morten Varano's specialties.

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- Project:** Tinghallen Viborg
 - Architect:** Mangor & Nagel Arkitekter A/S
 - Interior design:** Paletten Morten Varano
 - Builder:** Municipality of Viborg
 - Design solutions:** Troldekt acoustic panels, Troldekt line, Troldekt line design, Troldekt rhomb



NYBOLIG FOYER-BAR



HEALTHY INDOOR CLIMATE SINCE 1935

Troldtekt A/S has been designing, developing and manufacturing Troldtekt acoustic panels in Denmark since 1935 – from locally sourced materials and under modern conditions with minimal environmental impact. Our products are sold in a wide range of countries worldwide.

We are trendsetting

It is our vision 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. Examples are the Troldtekt design solutions, which combine superior acoustics and a healthy indoor climate with stylish interior design.

We take responsibility

It is important to us to take responsibility for society around us – in part for our own sake. We believe companies do well by doing good. We have therefore systematised our 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. This concept has a focus on materials creating added value for the environment, society and our business. We work with Vugge til Vugge Danmark to ensure that our initiatives are in line with international Cradle to Cradle principles.

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 pursuing 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 in 2030 and net zero carbon manufacturing in 2030.



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