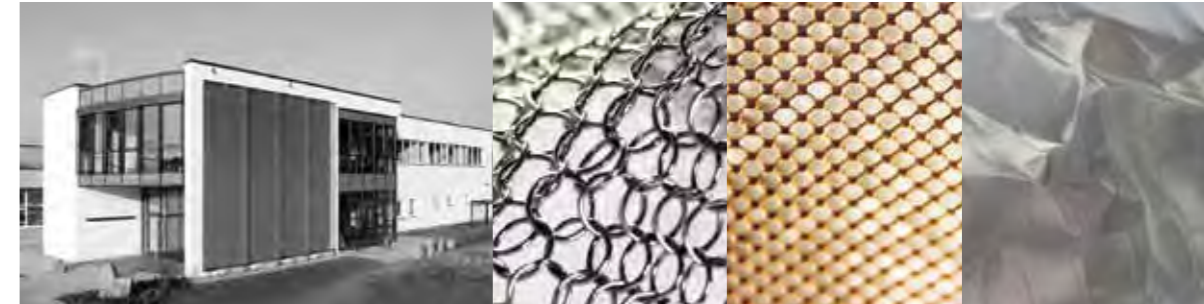


RING  
MESH  
SCALE  
MESH  
FABRICS

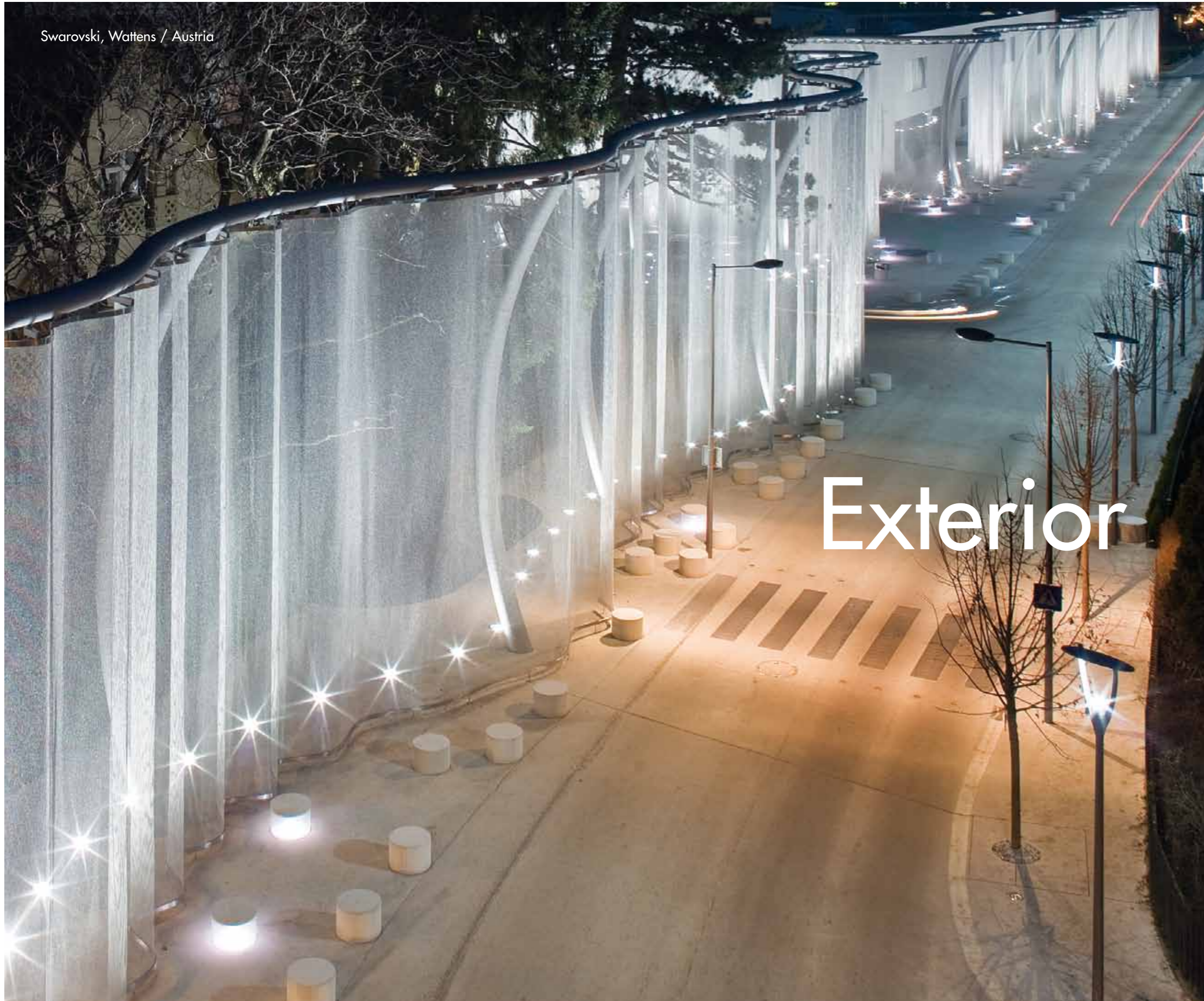
**alphamesh**  
innovative mesh design

# About us



promesh GmbH has been producing and developing ring mesh and scale mesh for architectural applications since 2006. The claim to quality, function and design that is unique to alphamesh of constantly realising new ideas for application with visionary force. As a new original material, alphamesh fascinates today in the most diverse architectural and design application areas, from very small to very large. Since size is what makes alphamesh unique worldwide. This is made possible thanks to a special manufacturing process, which enables almost unlimited dimensions and therefore unimaginable scope.

As a facade cladding in building dimensions, as a light shell structure or as an interior design element, alphamesh always impresses with its option of redefining the term space, as the transition from flat two-dimensionality into a shaping 3rd dimension is natural for the flexible material. Alphamesh uses light and water as a stage for its own presentation, with reflections here and the modulation of flowing dynamics there. And because alphamesh's range of application is as diverse as the ideas that architects and planners associate with it, alphamesh is not just a product but rather an unlimited creative design process.



# Exterior

Whether as sun or visual protection or decorative facade element – alphamesh’s highly flexible, corrosion-resistant and strong ring mesh made of stainless steel or bronze can be used in various ways in the exterior.

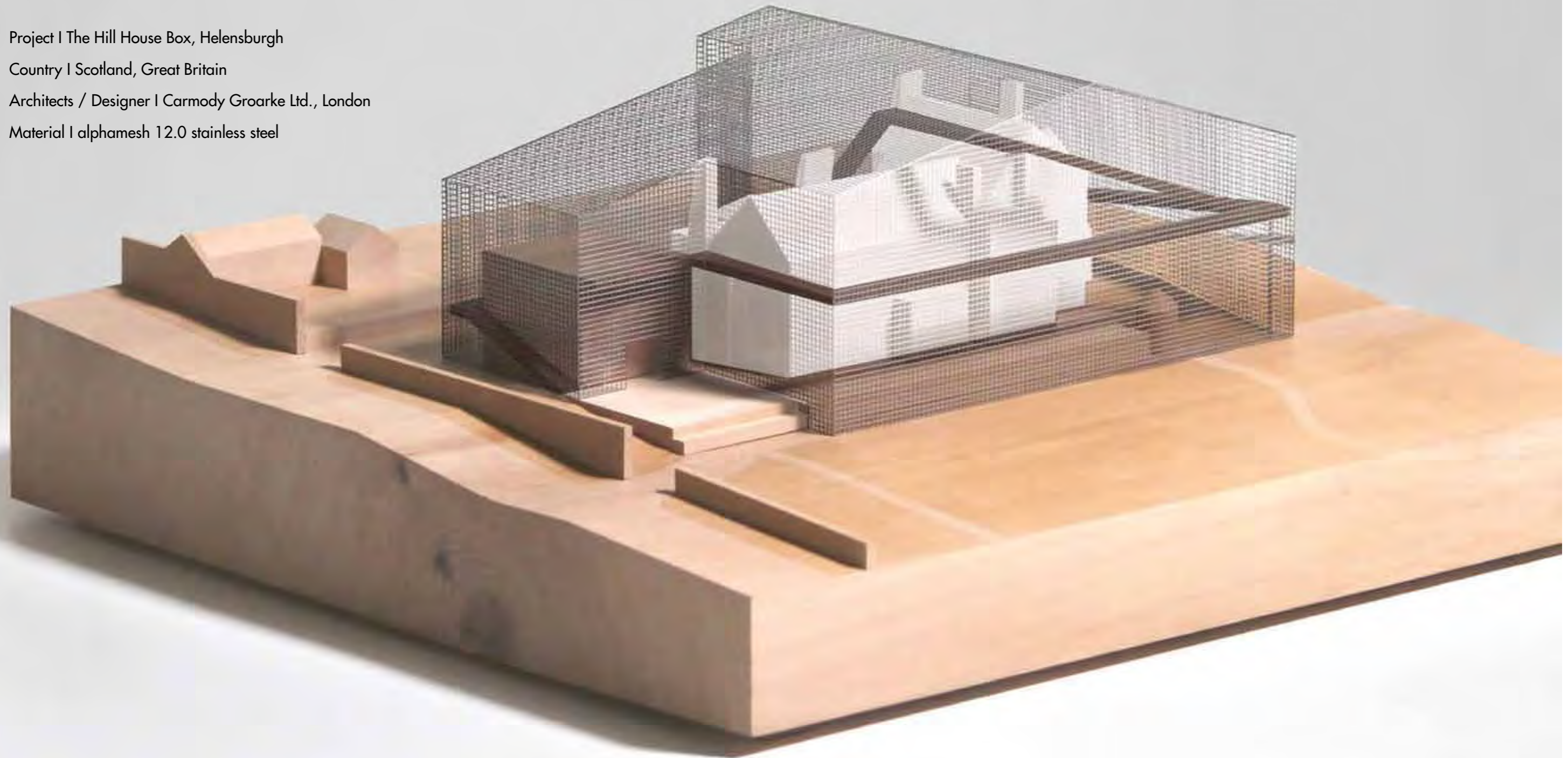
# Hill House Box, Scotland

Project | The Hill House Box, Helensburgh

Country | Scotland, Great Britain

Architects / Designer | Carmody Groarke Ltd., London

Material | alphamesh 12.0 stainless steel





When the architect Charles Rennie Mackintosh built the Hill House as tower house in 1902 in Helensburgh, Scotland, 30 kilometres west from Glasgow, he was already way ahead of his time with its revolutionary layout. Today, the house is threatened by decay due to water damages. Therefore, a major conservation project was created in order to dry and rescue it with an estimated 15 years of renovation work.

Rather than incarcerating the house from the public, the architect proposed a 'big-box temporary museum' to contain and protect the Hill House as an artefact, whilst also maintaining access to the house for visitors.

The architectural concept of the new museum is kind of a huge garden pavilion with a steel frame extending over and along the complete Hill House. Its walls are made of alphamesh 12.0 stainless steel chain-mesh which spans a surface of 2.700 square metres. This semi-permanent enclosure protects the house from further moisture and at the same time renovation work can be carried out without interrupting the view to the house from outside.

This makes the project not only the biggest current chain-mail project around the world, but also the biggest project alphamesh has ever realised so far. That revolutionary approach would surely have pleased Charles Renni Mackintosh, too.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
 1.4404 / AISI 316L  
 Ring Diameter: 12.00 mm  
 Wire Gauge: 1.10 mm  
 Weight: c. 3.06 kg/m<sup>2</sup>  
 Tensile Strength: 53 kN/m



A close-up photograph of a building's facade. The image shows a blue mesh material, likely stainless steel, with vertical metal strips or louvers. The mesh has a fine, repeating pattern. The lighting creates shadows and highlights on the mesh and the metal strips, giving it a three-dimensional appearance. The background is a clear blue sky.

# Bligh Street, Sydney

Project | Bligh Street, Sydney

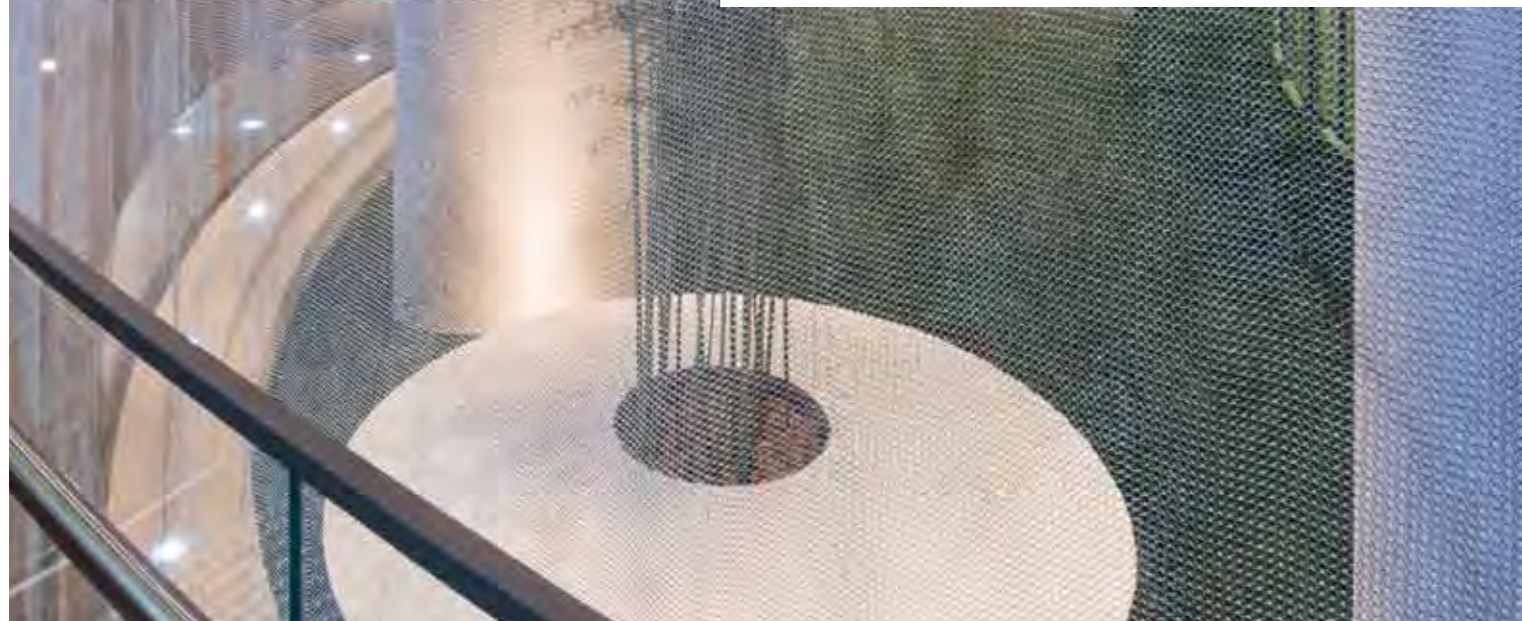
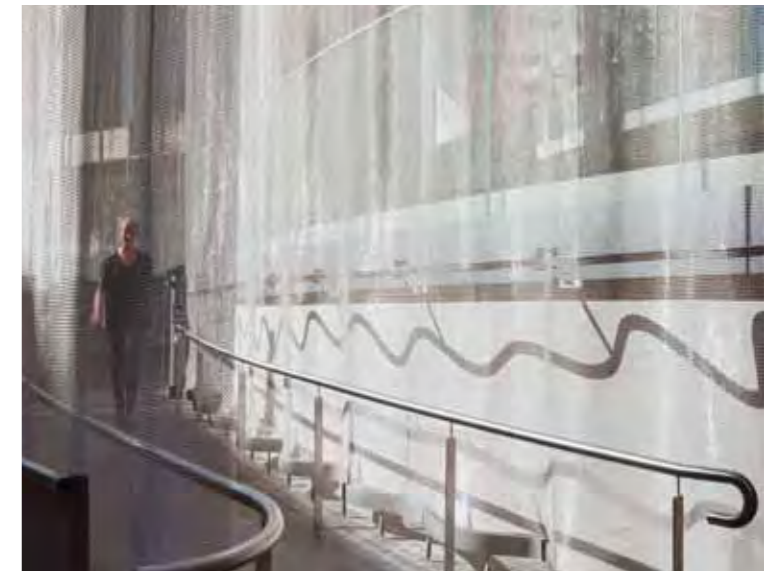
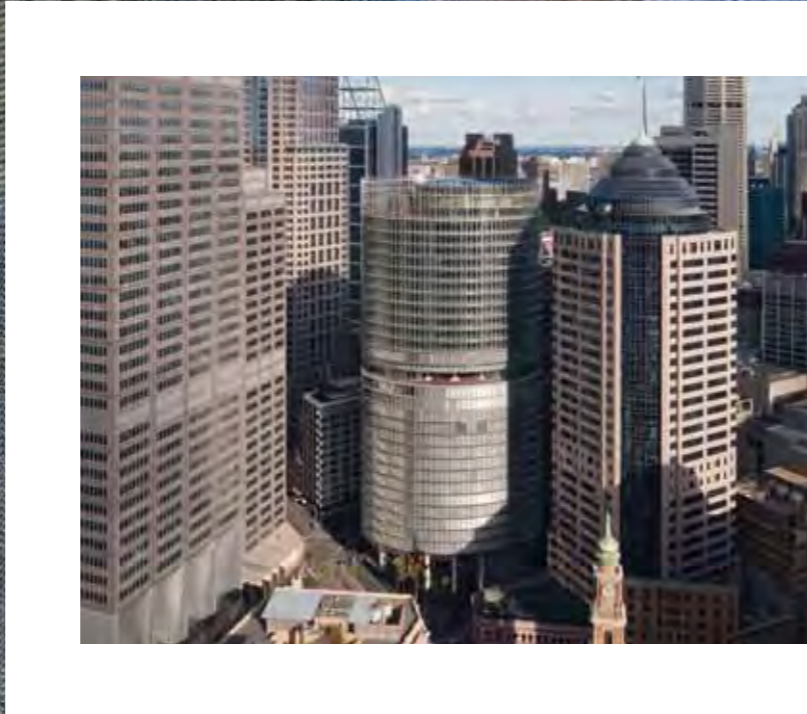
Country | Australia

Architects | ingenhoven architects, Düsseldorf / Germany

Material | alphamesh 12.0 stainless steel



The office building on 1 Bligh Street in Sydney stretches 139m into the sky. But it isn't the height of the building in the Sydney harbour skyline that makes it unique. Number 1 Bligh Street, the building with an unobstructed view of the harbour and the opera house, is unique as it is the first ever building in Australia to be honoured with the „6 Star/World Leadership“ certificate from the Australian „Green Star“ environmental standards agency. Number 1 Bligh Street is the perfect symbiosis of design, technology and sustainability; virtues which are also evident in the alphamesh 12.0 curtain on the ground floor of the building. The 17 m high and 90 m long transparent mesh surrounds the outdoor area of the building's kindergarten and defines a space that offers the highest possible degree of visual freedom and fall protection.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00mm  
Wire Gauge: 1.10mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m





# Swarovski, Wattens

Project | Swarovski, Wattens

Country | Austria

Architects | ingenhoven architects, Düsseldorf / Germany

Designstudio Regina Dahmen-Ingenhoven, Düsseldorf / Germany

Material | alphamesh 12.0 stainless steel





**alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m



The alphamesh curtain is composed of more than 26 million individual welded rings and encloses the premises like a work of art. With a height of 10m, the curtain meanders along a total length of 250m and plays tricks on those who look at it over its entire length. Apparently cloaking yet open like a transparent door at the same time. What lies behind the curtain can only be guessed at and never unveiled. As soon as it becomes dark, the curtain changes into a 2,500m<sup>2</sup> stage on which continuously changing coloured lights are displayed. The curtain that was made for Swarovski in 2008 is proof that it is possible to create alphamesh in almost any dimension and that it can also be designed and constructed so that it appears to coat.

# Hilti Academy, Kaufering

Project | Hilti Academy, Kaufering

Country | Germany

Architects | Dobler GmbH & Co. KG Planungsbüro, Kaufbeuren / Germany

Material | alphamesh 12.0 stainless steel



In the summer of 2017 the Hilti Academy has been finished bringing a modern touch to the site in Kaufering with an open and light-flooded architecture.

In front of the building's upper window row the superimposed ring mesh facade strikes the eye. Composed of alphamesh 12.0 polished stainless steel welded ring mesh panels, it spans an area of 650m<sup>2</sup>. The ring mesh facade functions as a transparent curtain offering not only visual but also sun protection.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m



A long, narrow walkway on a bridge, viewed from a low angle. The walkway is illuminated by a series of recessed ceiling lights, creating a rhythmic pattern of light and shadow on the floor. The railing is made of a dark, perforated metal mesh, which is the focus of the close-up on the left. The ceiling is also made of a similar material, and the overall atmosphere is modern and industrial.

# Bridge, Vierschach

Project | Bridge, Vierschach

Country | Italy

Architects | Studio totonic, Vahrn / Italy

Material | alphamesh 12.0 stainless steel



In 2016, a new pedestrian bridge was built in Vierschach, Italy, in order to connect the local train station with the village and the adjacent ski resort. In order to integrate the bridge into the landscape, the design of the bridge contains some relations to the area's old agricultural utility buildings, which are characterised by simple and clear constructive rules.

On top of the bridge's steel columns, the main girder is attached carrying the pedestrian walkway. The walkway is comprised by wooden beams while the bridge superstructure is designed in an open-ended way.

The sides of the bridge are secured by alphamesh's air-permeable 12.0mm stainless steel ring mesh – extending over 875 m<sup>2</sup>. Like a filigree and translucent veil, it prevents objects from falling down.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00mm  
Wire Gauge: 1.10mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m



# iki, Siauliai

Project | iki, Siaulai

Country | Lithuania

Architects | UAB Architektūros Atelje, Vilnius / Lithuania

Material | alphamesh 12.0 stainless steel





#### **alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m

For the renovation works on the iki Shopping Centre in Siauliai, Lithuania, the architects and planners implemented a holistic approach. Internally to the structure, the adaptation to changing customer needs stood foremost whereas the outside of the freestanding building complex was required to portray independent and immediately recognisable landmark traits by means of an expressively gripping facade design.

In its original form, the two-storey building had been constructed with a neutrally functional glass panel facade. Since this was impossible to change, the architects opted for a decorative, stainless steel facade curtain, entirely constructed in the alphamesh 12.0 ring mesh. The alphamesh covering runs across the entire top storey of the building's front section, with a total area amounting to slightly over 500m<sup>2</sup>. The ring mesh draping across the top floor forms a striking contrast with the ground door's glass panel facade.

Right above the central entrance, the facade shows of the ring mesh's three-dimensional shaping capabilities, attracting the shopping centre visitors to the elongated building structure's entrance area. The eye-catching effect obtained by reducing the radii of the ring mesh so that it gathers into a ripple works to accentuate, without breaking, the sweep of the overall facade design.

During daytime hours, the daylight rays play with mirroring and reflecting themselves of the surface of the scores of thousands of individual, stainless steel rings. Here the light entrance and incidence angles, the intensity of the light rays and the perspective it is actually viewed from, provide a continuously changing perception of the facade.

With the onset of dusk, the plays of light are taken over by the integrated LED technology, providing light colour changes transforming the ring mesh into a highly visible light curtain which is regarded both as an architectural landmark as well as the Shopping Centre's hallmark.



Bosco Verticale, Milano / Italy

# Interior

The scope of application of alphamesh's ring and scale mesh as well as fabrics for the interiors range from classic wall and ceiling designs, partitioning systems for visual protection, to illuminated veils as design or lighting element or for the use as water wall.



# Hyatt-Center, Chicago

Project | Hyatt Center 71 South Wacker, Chicago

Country | USA

Architects | JAMES CARPENTER DESIGN ASSOCIATES INC., New York / USA

Material | alphamesh 12.0 stainless steel





With an extraordinary installation, artist and designer James Carpenter has illuminated the two lobbies and entrances of 71 South Wacker Drive (Hyatt Center) in Chicago. The James Carpenter Design Associates Inc. is recognized for its lighting concepts with distinctive use of natural light. The result is an installation of two diaphanous, curving light sculptures titled "Suspended Light Veils", hanging from the atrium skylight grid into each lobby. The light veils are made of polished stainless steel ring mesh. Depending on the time of day, the steel rings of reflective mesh respond differently to the natural light coming from the skylight. The sculpture is also illuminated by spotlights from above and LED lights from within the veil. With a width of 9 feet in diameter and a height of 29 feet, the veils float approximately 13 feet above the floor. Additionally, vitrines have been placed at each lobby entry with a series of five, freestanding luminous light screens. The light screens are of the same ring mesh material used in the light sculptures and serve as blinds as well as lighting element.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
 Ring Diameter: 12.00mm  
 Wire Gauge: 1.10mm  
 Weight: c. 3.06 kg/m<sup>2</sup>  
 Tensile Strength: 53 kN/m  
 Open Area: c. 63 %





# Bosco Verticale, Milano

Project | Bosco Verticale, Milano

Country | Italy

Architects | Stefano Boeri Architeti, Milano / Italy

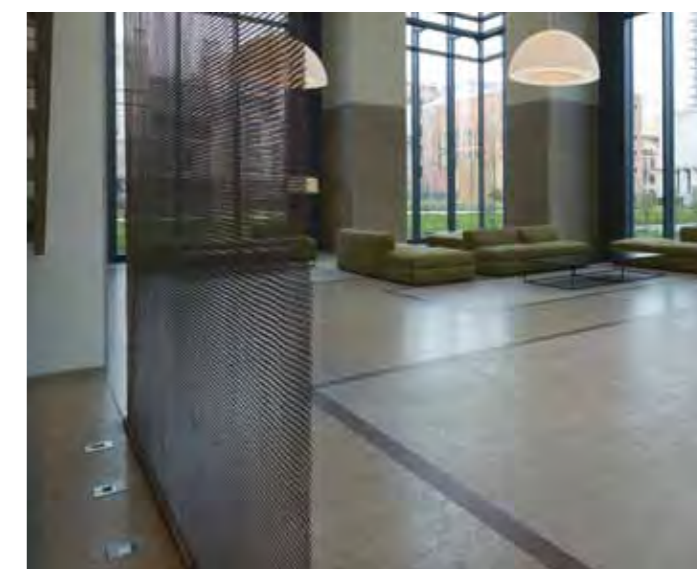
Material | alphamesh 12.0 bronze matt



**alphamesh 12.0  
bronze matt**

Material: bronze CuSn6  
 Ring Diameter: 12.00mm  
 Wire Gauge: 1.10mm  
 Weight: c. 3.45 kg/m<sup>2</sup>  
 Tensile Strength: 33 kN/m  
 Open Area: c. 63 %

The Bosco Verticale (i.e. the vertical forest) transforms Milan's city centre skyline: with trees and shrubs designed to grow in a vertical arrangement from the ground, up to the topmost floor of two tower blocks, the tallest reaching a dizzying height of 119m. A total of 800 trees and 20,000 shrubs on just under 9,000m<sup>2</sup> of vertical terrace surface area making the equivalent of a hectare of forest. And all this at the heart of the Italian metropolis. At a mere 65m<sup>2</sup>, the quantity of alphamesh bronze ring mesh in use for the Bosco Verticale is significantly more modest, although definitely no less striking. When entering the lobby, one's attention is immediately captured by the alphamesh 12.0 bronze ring mesh curtains stretching from door to ceiling. Smartly illuminated by ceiling spotlights, the mesh curtains allow for perfect structuring of the highly translucent spatial partitioning effects, the mesh filigree providing a mere 37 percent coverage per each square metre of its surface. The ring mesh effect thus efficiently works to preserve overall spatial integrity, whilst remaining functionally perceptible. For visual and personal privacy when positioned to screen a row of wall-mounted lockers, or as a safety screen when positioned along the ceiling-high staircase leading to the first floor. Alphamesh - why? In reply, the interior designers in charge of the Bosco Verticale relay as follows: Firstly, because the ring mesh is a freshly innovative material featuring outstanding eco-balance levels. Secondly, because the matt, bronze ring mesh works for effective partitioning without risking spatial disarticulation and lastly, but not least importantly, because the technical look-and-feel of the ring mesh provides the interior with a clear-cut style, as do the trees and shrubs for the outer facades.



# Swarovski, Wattens

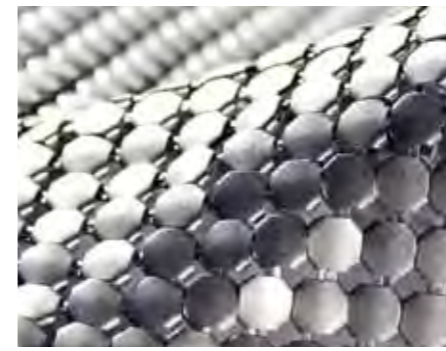
Project | Swarovski, Wattens

Country | Austria

Architects | Snøhetta, Oslo / Norway

Material | alphamesh 5.8 scale mesh





**alphamesh scale 5.8 aluminium**

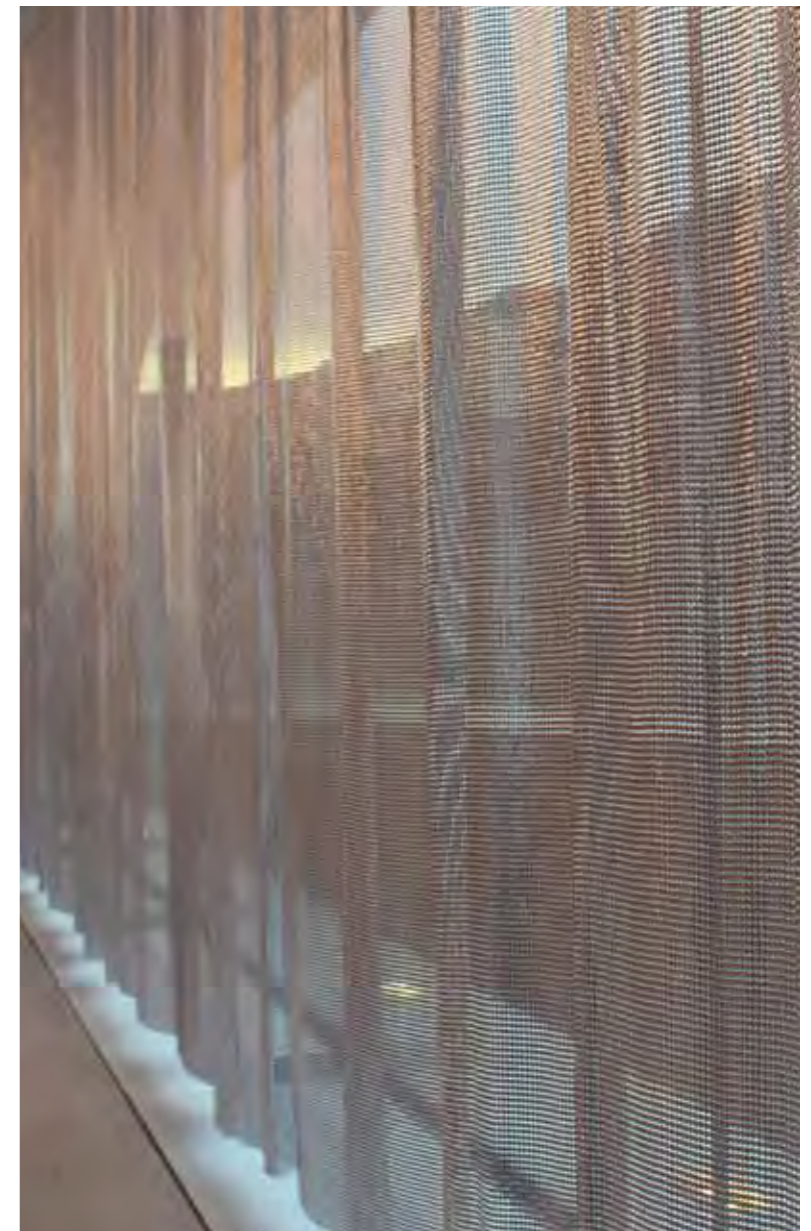
Material: aluminium AlMg3 Scale

Size: 5.80mm

Weight: c. 1.50 kg/m<sup>2</sup>

Tensile Strength: 6,67 kN/m

They fascinate everyone whatever their age. Big and little glittery Swarovski crystals. At their Austrian home in Wattens in the Inntal region, the Swarovski Crystal Worlds captivate more than 600,000 visitors every year. The dining standards at the “Daniels Kristallwelten” café and restaurant are in keeping with this elegant glamour. Floor to ceiling windows flood the rooms with daylight, opening up the view over the Crystal Worlds and the impressive panorama of the Alps. However, an unobstructed view outside is not always desirable. Which is why the “Daniels” restaurant was looking for a curtain. Or rather a glittery look that creates intimacy without destroying the light and airy ambience. Anyone seeing alphamesh scale mesh for the first time thinks that they’ve seen it before. The surface and look evoke associations with elegant sequin-covered fabrics. Anyone who touches the metal mesh is also in for a surprise as the hard metallic exterior then melts into softness that caresses your touch. Light and air interact with this and conjure up new images on the glittery surface time and time again. At the end of the day the designers decided on an aluminium polished and clearly coated scale mesh that not only shines but glitters brilliantly 3.5 million times, the total number of scales used. And all over 125 m<sup>2</sup>, divided over six curtains. They are 3.43 m high and the longest curtain has an impressive width of 8.25 m. The curtain has to respond as an interior design element communicating between the indoors and outdoors, which means it has to be set up for different room and light situations. This is not done manually but by using an electric drive that allows the curtains to float on their meandering supporting texture as if by magic.





# Lido, Paris

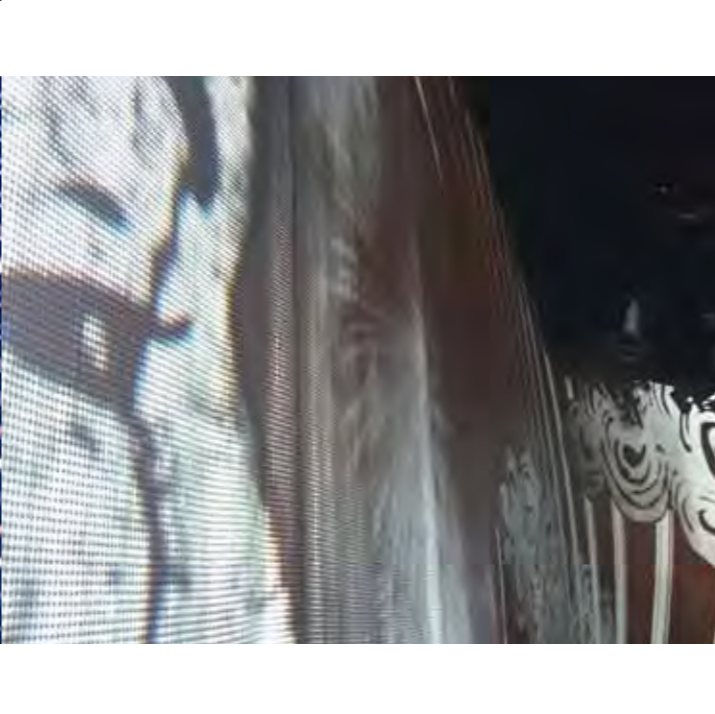
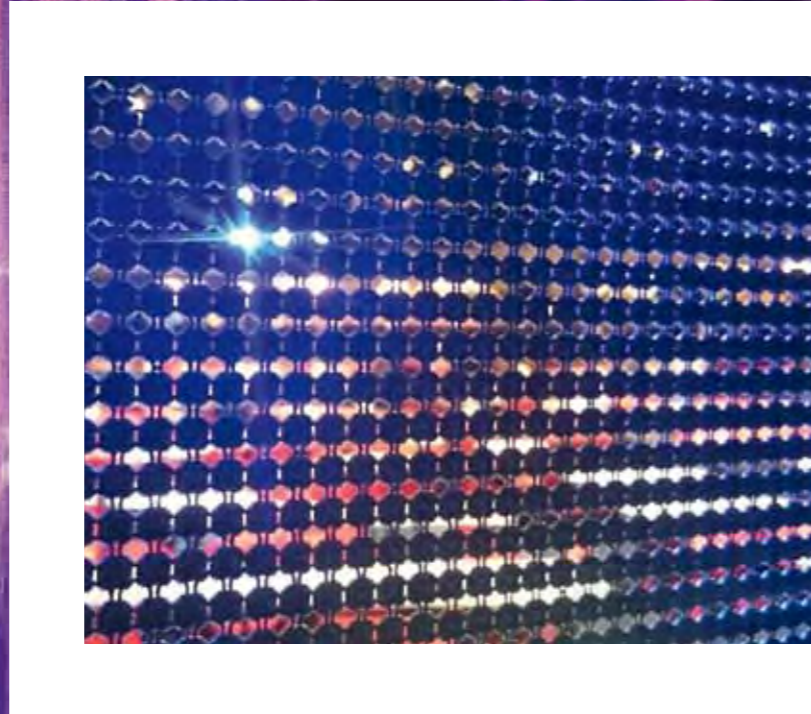
Project | Lido, Paris

Country | France

Architects | PLATEAUX, Paris / France

for the show „Paris Merveilles“ created and directed by FRANCO DRAGONE

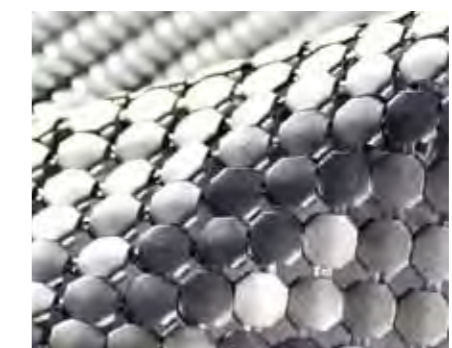
Material | alphamesh 5.8 scale mesh



Who isn't familiar with it? The Lido in Paris. The shining star in the nightlife sky. Famous for its extravagant stage shows and probably the most famous ballet in the world: the Bluebell Girls. The young ladies dance in a show with breathtaking sets every evening – sparkly and glamorous. Just like the alphamesh scale mesh curtain for the current "Paris Merveilles" programme. Immersed in subtle silver during the day, the light of the evening show brings the curtain made out of hundreds and thousands of polished aluminium capsules to life. Its dramatic potential ranges from a starry sky to a dance club, to a Parisian row of houses and abstract pictures. As the curtain is the ideal projection surface to present the show's individual scenes on, just like in the opening credits to a film. As a result, alphamesh scale is the focus of the audience's interest long before international stars or the Bluebell Girls attract their attention.



**alphamesh scal 5.8 aluminium**  
Material: aluminium AlMg3  
Scale Size: 5.80mm  
Weight: c. 1.50 kg/m<sup>2</sup>  
Tensile Strength: 6,67 kN/m





# Columbarium, Cologne

Project | Columbarium, Cologne

Country | Germany

Architects | Peter Kissler, Wiesbaden / Germany

Material | alphamesh 12.0 bronze





**alphamesh 12.0 bronze**

Material: bronze CuSn6  
 Ring Diameter: 12.00 mm  
 Wire Gauge: 1.10 mm  
 Weight: c. 3.45 kg/m<sup>2</sup>  
 Tensile Strength: 33 kN/m  
 Open Area: c. 63 %

Located on the Helmholtz square in the Ehrenfeld district of Cologne, in 1959 St. Bartholomew's was inaugurated as the parish church. 55 years later, in the course of which it has been listed under a monument and historic building preservation order, this consecrated landmark has now been classified to functioning as a columbarium. Designed according to the functional blueprints by the Wiesbaden architect Peter Kissler, the space has been split onto two levels. The Chapel has been kept to the centre, surrounded by the actual burial vaults arranged in a geometrical concentration of recesses offering a final resting place for 2,400 urns. The challenge posed by St. Bartholomew's was to be able to preserve the chapel section and the burial vault section as a whole, whilst also maintaining them as two individually functioning units. In order to achieve this effect, the Architect had an alphamesh 12.0 bronze curtain system installed to surround the Chapel section, providing a play of air permeability and light transparency achievable only with a membrane composed of several million bronze rings. Supported by special lighting technology over the total area amounting to 250m<sup>2</sup>, the 7m high bronze curtain system does the trick perfectly. Luminescent bars are fitted both internally and externally to the upper edge of the ring mesh, so that it is dipped from top to bottom in a golden light. During church services the external light bars are switched off, lighting up the interior of the chapel and preventing outward views. In the daytime, only the outer light bars are kept on, with the bronze curtain maintaining the dignity of the chapel enclosed in a softly glowing bronze haze.



# Seibu Shibuya, Tokyo

Project | SEIBU SHIBUYA building A 5th floor

Country | Japan

Architects | Yuko Nagayama & Associate, Tokyo / Japan

Material | alphamesh 12.0 stainless steel





**alphamesh 12.0  
stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00mm  
Wire Gauge: 1.10mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m  
Open Area: c. 63 %

Men's trends? Or women's? On the fifth floor of the stylish SEIBU SHIBUYA "depaato" store, boundaries are fluid. Located in Tokyo's Shibuya district, this traditional Japanese department store houses shopping, wellness, restaurant and foodservice facilities on a total of nine floors. In Tokyo's big city life, Shibuya is both a vibrant shopping and entertainment area as well as a creative hotspot for youth fashion and culture. Breaking away from the spatial concept of the existing structures, Yuko Nagayama has made a sensual play of connections and partitioning within opposing forms. Spatial perception is rendered along clean-cut zoning switches, top quality materials and intelligent, highly distinctive detail solutions. The intentionally purist spatial conception focuses on the essentials of a sales area, i.e. the effective showcasing of the items offered for sale. In the "Women's Fashion" area, architectural structure and display configuration symmetry are enhanced by draping waves of mesh radiating a metallic glitter and an invitingly exclusive ambience in 100 percent pure polished stainless steel. Thousands upon thousands of steel rings woven together, each single ring having a 12 mm diameter. In conveying her spatial vision of the SEIBU SHIBUYA project, Yuko Nagayama artfully highlights the fundamental properties of alphamesh and uses the ring mesh's transparency factor to entice the viewer to look beyond. A further fundamental property, i.e. the three-dimensional formability of the ring mesh is highlighted by the waving falls of drapes broken into iridescent layers, superimposed to reveal just enough to arouse a viewers' curiosity. The viewer's attention is thus captured and held, led by the distinctive material aesthetics warranted by alphamesh.



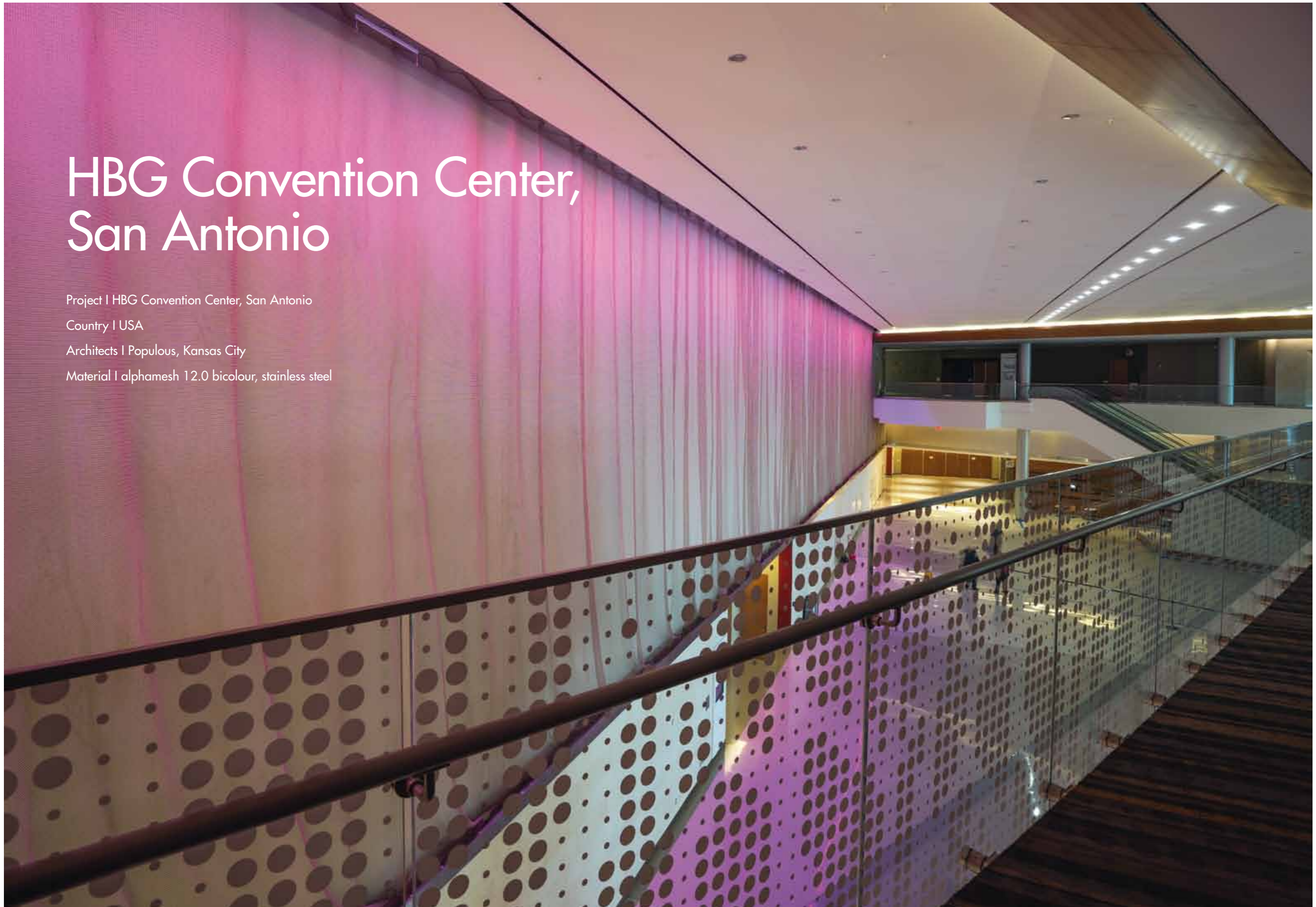
# HBG Convention Center, San Antonio

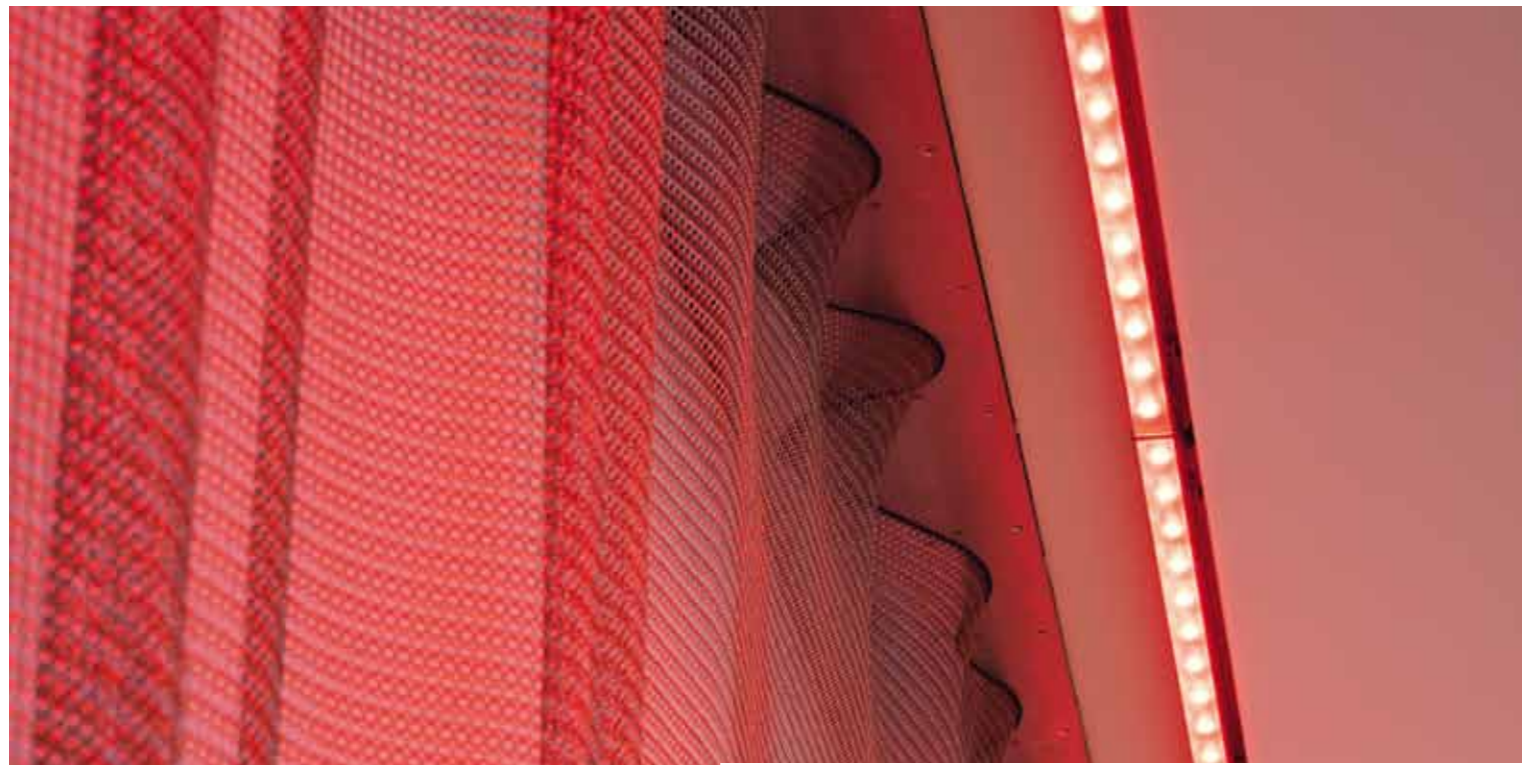
Project | HBG Convention Center, San Antonio

Country | USA

Architects | Populous, Kansas City

Material | alphamesh 12.0 bicolour, stainless steel





The redesigned HBG Convention Center in San Antonio now offers an eyecatcher that gives visitors an immediate insight into the renovation. In the entrance areas a metal curtain consisting of about 1.000 m<sup>2</sup> of 12.0 alphamesh bicolour has been installed as part straight, part wavelike wall covering. In addition, a colourful lighting system highlights the metal curtains and creates a unique mood.

**alphamesh 12.0 bicolour, stainless steel**

Material: stainless steel bronze  
1.4404 / AISI 316L  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.26 kg/m<sup>2</sup>  
Tensile Strength: 33 kN/m



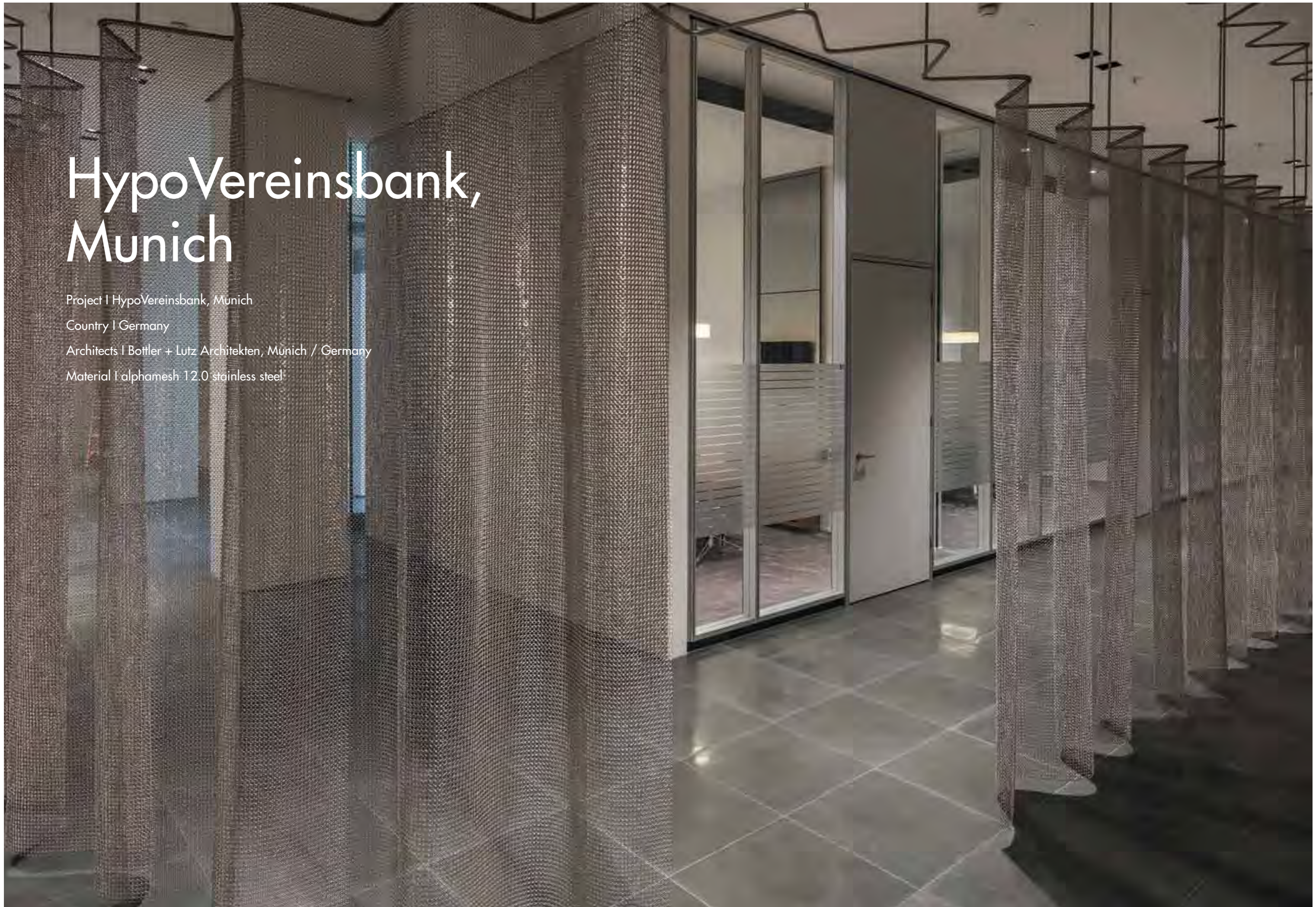
# HypoVereinsbank, Munich

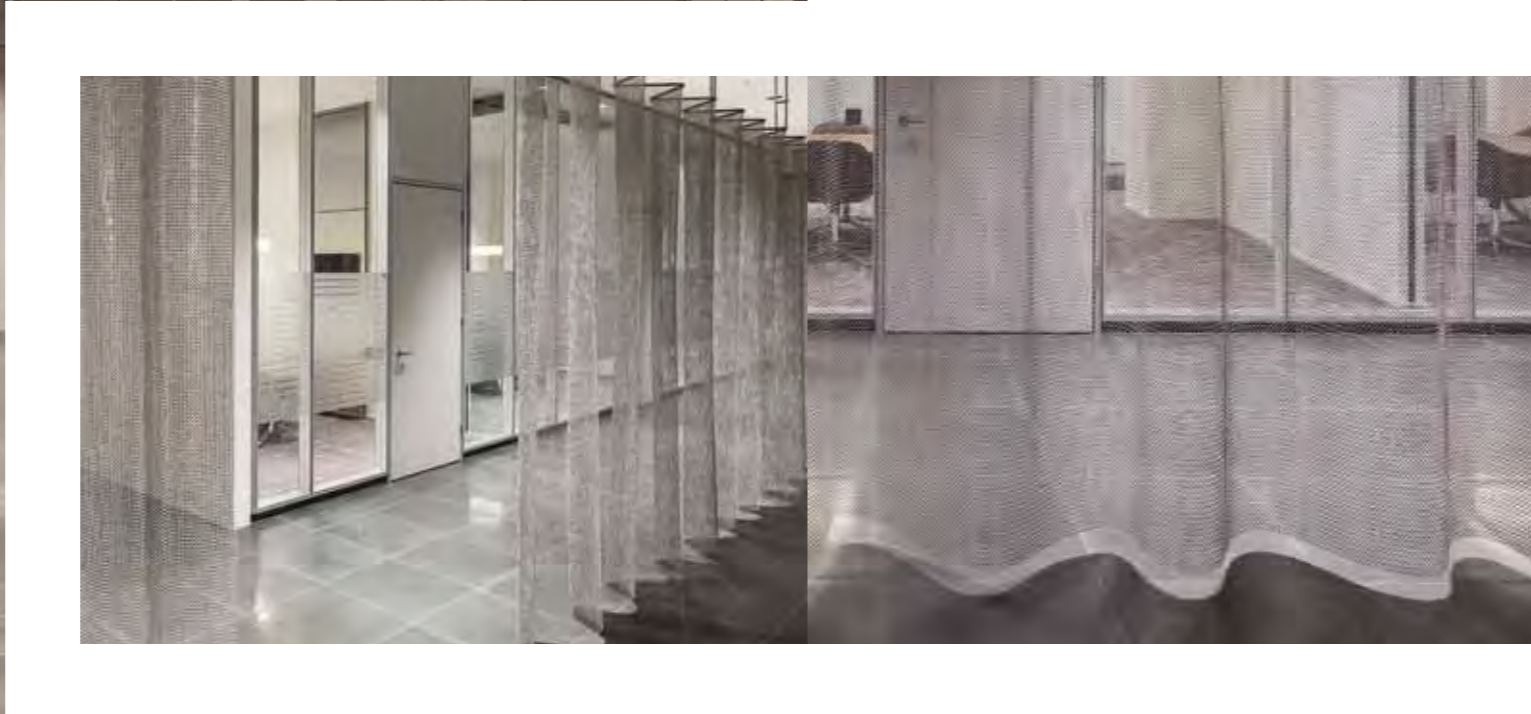
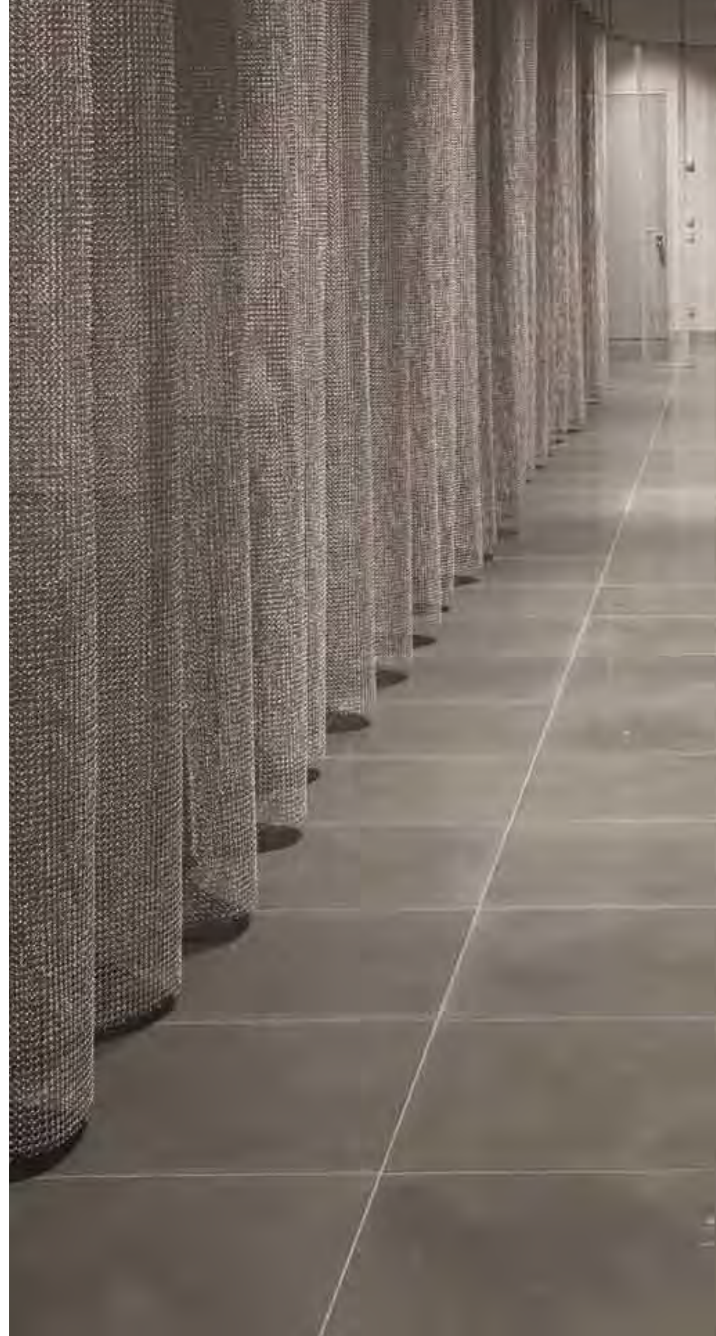
Project | HypoVereinsbank, Munich

Country | Germany

Architects | Bottler + Lutz Architekten, Munich / Germany

Material | alphamesh 12.0 stainless steel





HypoVereinsbank is one of the most established institutions in the Bavarian regional capital of Munich. The bank's main branch, which is affectionately called the Vereinsbank by locals, is situated in the middle of the old town. As prominently as is fitting for a piece of Munich's history. Discretion and restraint are tangible everywhere inside the private customer bank. This also applies to the newly designed conference and meeting area. Everything here looks informal and familiar. The room is divided up from the centre into fields with separate meeting islands. Glass, leather and elegant interior design meet modern art here and give the place a sense of seriousness. Leaving just the curtain made out of alphamesh 12.0 ring mesh, which divides the outer wide corridor that surrounds the meeting islands into two halves. But what looks like a pure design element at first glance, only reveals its function when you take a much closer look. The curtain separates. It separates the public from non-public area. It provides orientation in the room as a transparent element. It defines the walk ways and protects the bank's sensitive area from unwanted attention.



**alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00mm  
Wire Gauge: 1.10mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m





# Sparkasse, Pforzheim Calw

Project | Sparkasse Pforzheim Calw

Country | Germany

Architects | Die Werft, Munich / Germany

Material | fabrics seda / fabrics java

WINNER CATEGORY  
„STEEL-DESIGN“

seda  
fabrics by proMesh GmbH





**Fabrics seda | java**

Material: stainless steel | bronze

Open Area: c. 36%

Weight: c. 0.25 kg/m<sup>2</sup> | c. 0.33 kg/m<sup>2</sup>

Standard width: 1500mm



When the interior of the savings Bank Pforzheim Calw was redesigned by Munich-based architects and designers The Werft, they decided to use alphamesh's "seda" and "java" fabric as screen for the building's glass facade. "Seda" fabric is made of stainless steel while "java" fabric is made of bronze, both fabrics are finely woven with a warp and weft of 0,055 mm diameter. When used together, an alluring and glimmering bicolour, metallic effect is achieved. proMesh did not only the supply of the the complete track system and the metal fabrics, they were also responsible for the installation on-site. Spanning a total area of 70m<sup>2</sup>, the individually movable panel curtains with their unusual 3-D crinkle optics serve as visual and decorative screen. At the same time, the fabric gives the whole room an intense luminosity and everchanging atmosphere in the course of the changing daylight.

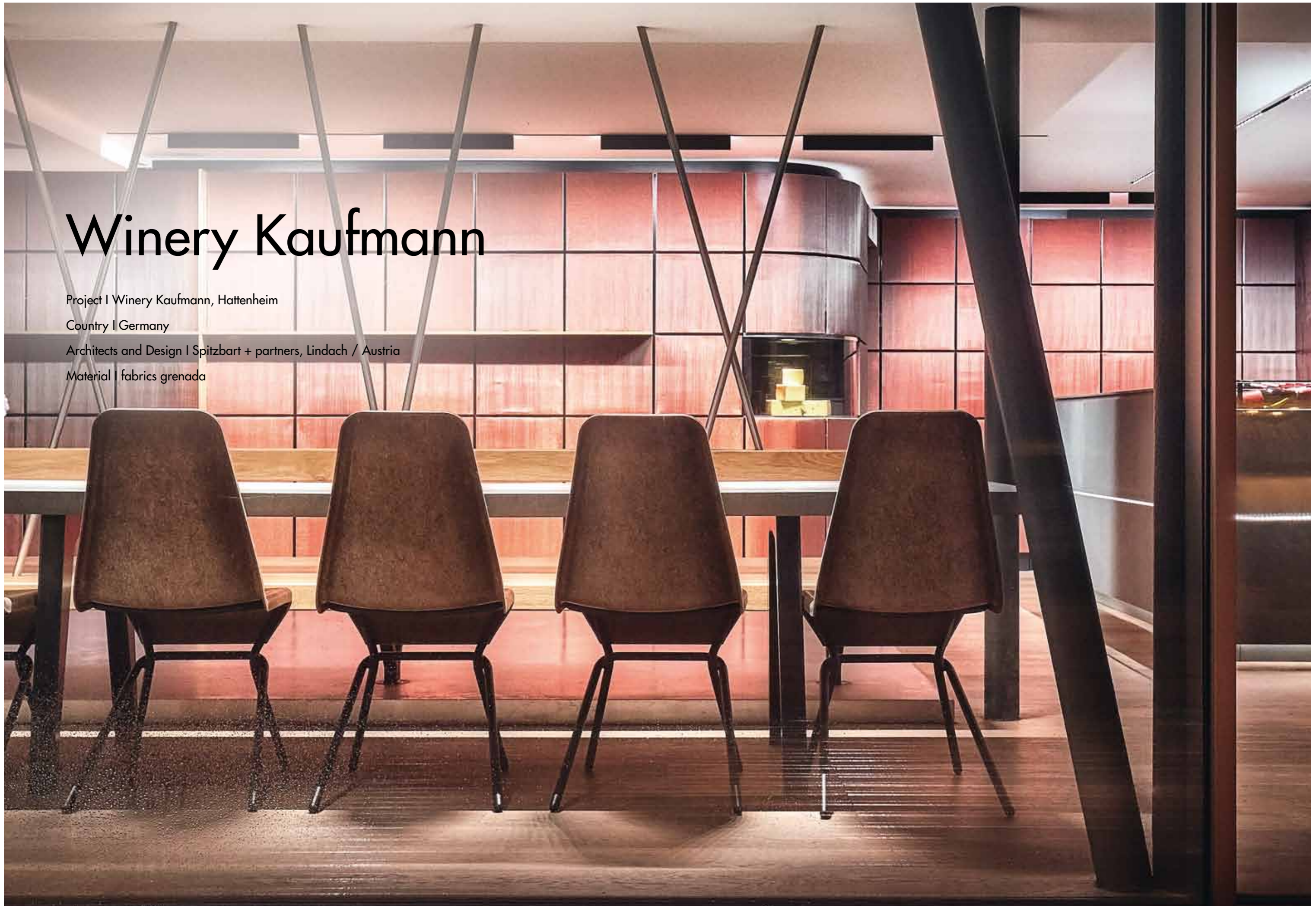
# Winery Kaufmann

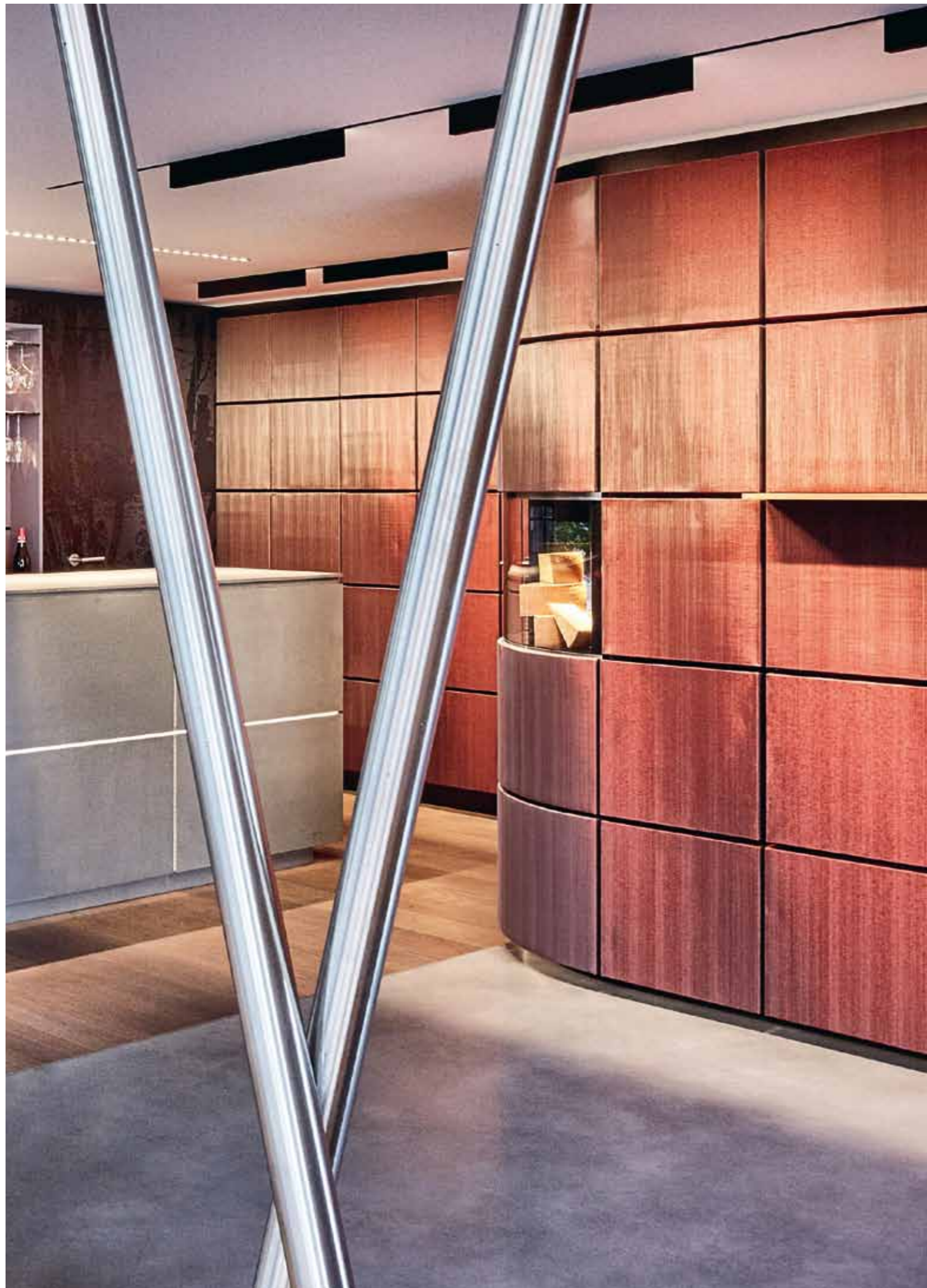
Project | Winery Kaufmann, Hattenheim

Country | Germany

Architects and Design | Spitzbart + partners, Lindach / Austria

Material | fabrics grenada






**fabrics grenada**  
 Material: stainless steel and  
 copper red lacquered  
 Open Area: c. 51%  
 Weight: c. 0.35 kg/m<sup>2</sup>  
 Standard width: 1500mm



When rebuilding their wine shop in 2016, Vineyard Kaufmann wanted its new shop to be warm, elegant, welcoming, chic, classic, calm, and with certain extras – with little details to discover, with a personal touch and a high-quality look. In addition, it had to support their sales and distribution process.

Austrian architects and designers Spitzbart and partners managed to bring all of these attributes together in one room by using, among other materials, alphamesh's "grenada" fabric as wall panels. The fabric was cut to the required size, put around wood panels and fixed to the back of the wood.

Due to its stainless steel warp of 0,1 mm diameter and a weft of red lacquered copper of 0,1 mm diameter, "grenada" enchants with brilliant and shimmering colour, shadow and moiré effects. If the fabric of stainless steel and lacquered copper is given spatial dimension, the effects are melting together to imaginative compositions with harmonies full of tension.

The image shows the interior of a large wooden hall. The ceiling is a complex, vaulted structure made of light-colored wood, featuring a central, elongated, bowl-shaped section. A grid of heavy wooden beams supports the ceiling. The walls are also made of wood, and the floor is a dark, polished wooden surface. The lighting is warm and focused on the central vaulted area.

# Zehntscheune, Schlüsselfeld

Project | Zehntscheune, Schlüsselfeld

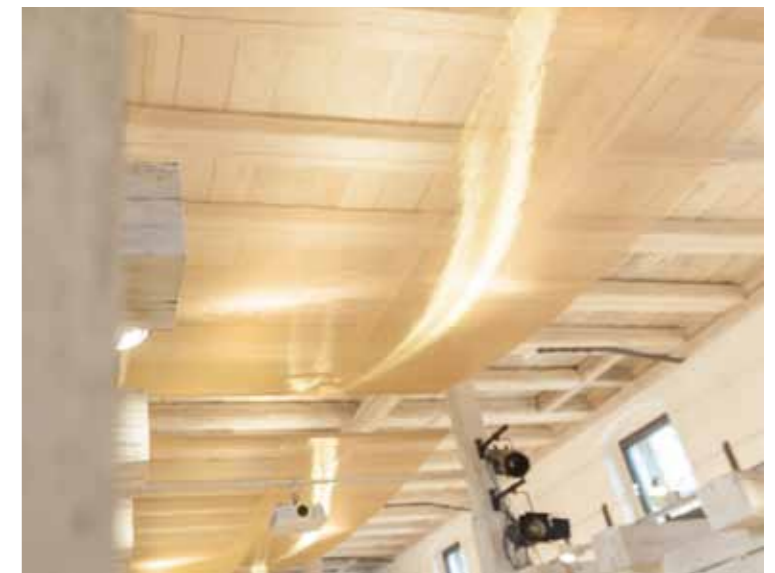
Country | Germany

Architects | Designer: Architekturbüro Gatz, Bamberg / Germany

Material | fabrics antigua



The upper floor of the Zehntscheune, a historical warehouse building of the 17th century, has been rebuilt into a citizen hall. The conceptual highlight is the inner ceiling sail made of panels of the alphas mesh fabric „antigua”, which consists of delicate brass and copper wires. In combination with the passive lighting, a unique room atmosphere of metallic gloss is created.



**Fabrics antigua**  
Material: brass | copper  
Open Area: c. 63%  
Weight: c. 0.60 kg/m<sup>2</sup>  
Standard width: 1500mm



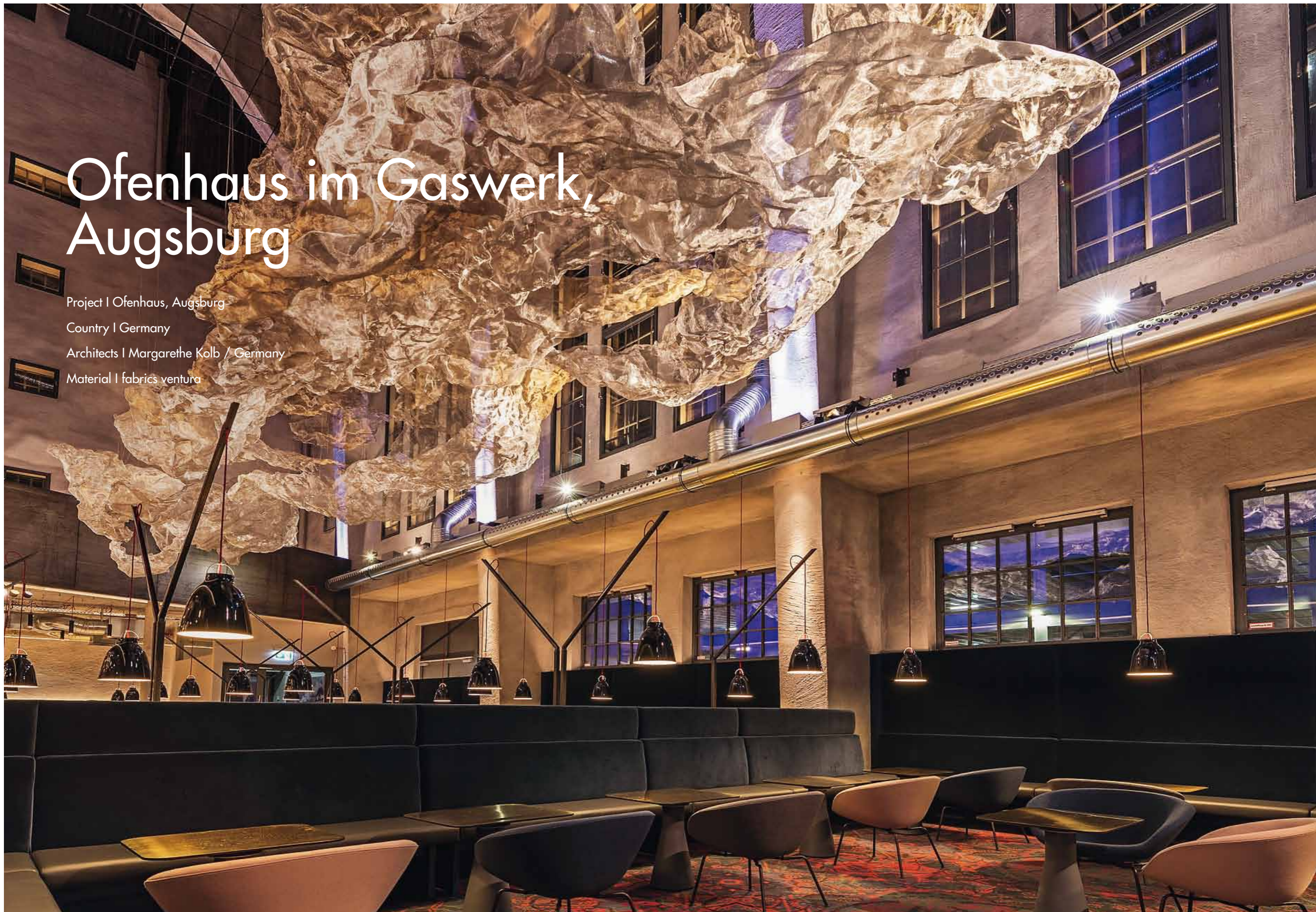
# Ofenhaus im Gaswerk, Augsburg

Project | Ofenhaus, Augsburg

Country | Germany

Architects | Margarethe Kolb / Germany

Material | fabrics ventura





**Fabrics ventura**

Material: aluminium

Open Area: c. 54%

Weight: c. 0.25 kg/m<sup>2</sup>

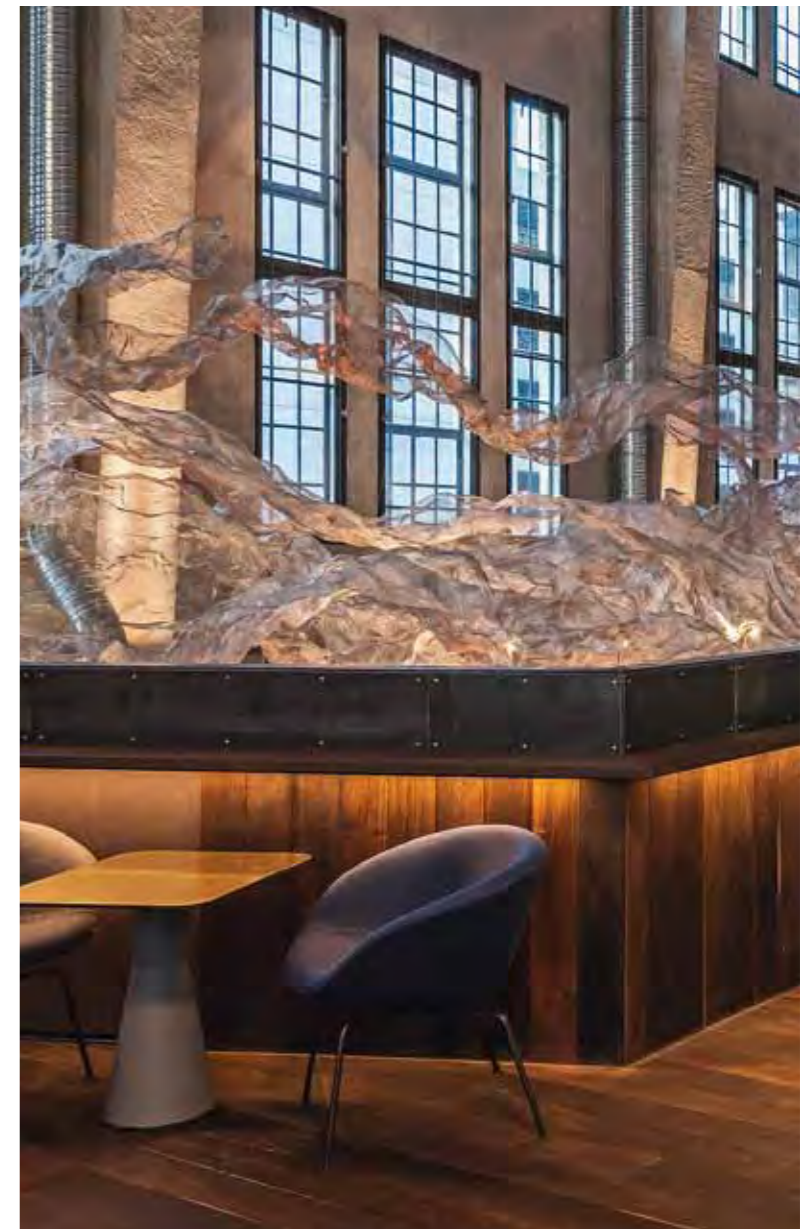
Standard width: 1500mm

During the renovation of their main stage, Augsburg's State Theater temporarily moved to the „Brecht Stage“ of Augsburg's historical Oven House. Having recently been renovated, the historical industrial building offers impressive premises and architectural details. Since Bertolt Brecht was a passionate cigar smoker, a „smoke cloud“ was mounted onto the very top of the foyer and restaurant of the Oven House on his behalf. And looking up at the ceiling is worthwhile.

The artwork made of delicate alphasmesh „ventura“ aluminium mesh fabric is now wavering like a cloud of smoke above the seats of the 19m high room. This concept of art in public was developed by Augsburg-based interior designer Margarethe Kolb and implemented by metal sculptor Gerold Sauter and his employees.

The 100m long and 1.5m wide elements of the aluminium mesh fabric were artfully crumpled and draped and hung under the ceiling with the help of 200 thin stainless steel cables installed on a metal lattice. On the whole, the construction weighs around 45kg.

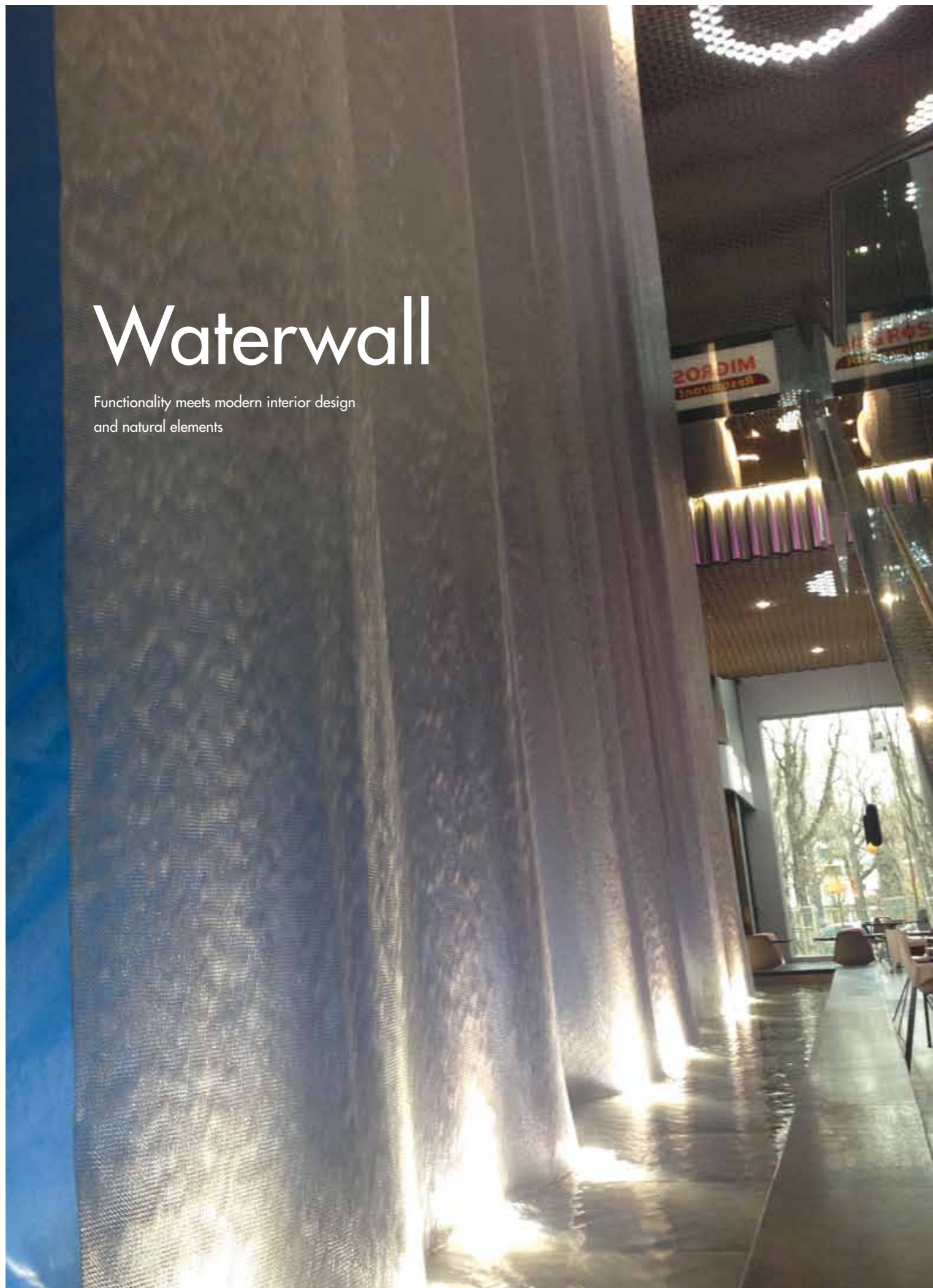
With their cube-like pattern, the individual aluminium threads of „ventura“ form a tense surface. Here, the correct lighting is of great importance, implemented by Stephan Meyer of Korona Lighting. Now, the threads shine and sparkle, building up an extraordinary tension and thus bringing the „smoke cloud“ to life.





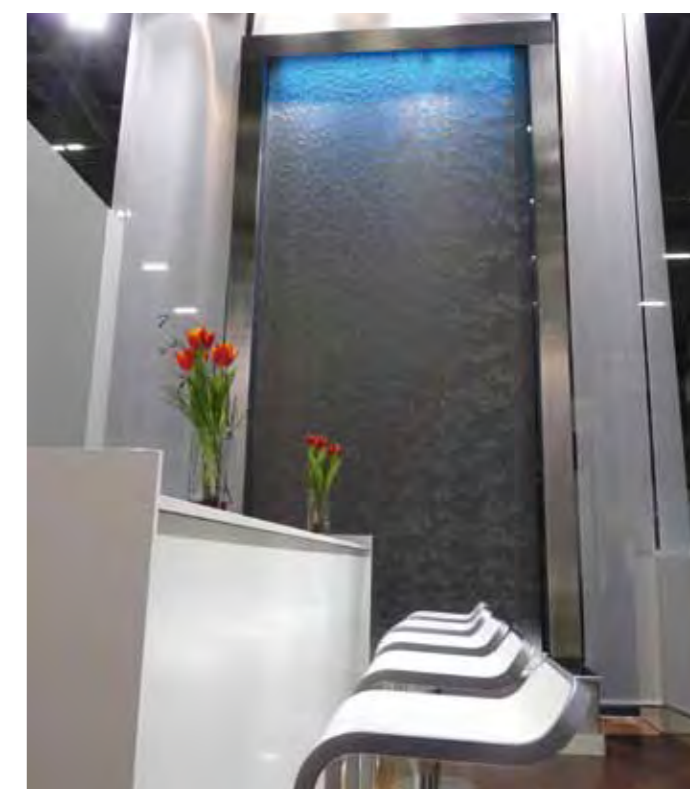
# Waterwall

Functionality meets modern interior design  
and natural elements



## alphamesh 7.0 stainless steel

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 7.00mm  
Wire Gauge: 0.70mm  
Weight: c. 2.2 kg/m<sup>2</sup>  
Tensile Strength: 23 kN/m  
Open Area: c. 60 %



The alphamesh 7.0 stainless steel ring mesh waterwall is suitable for mobile use at trade fairs or exhibitions but can also be used indoors as design element and privacy protection, for example with colour changing illumination.

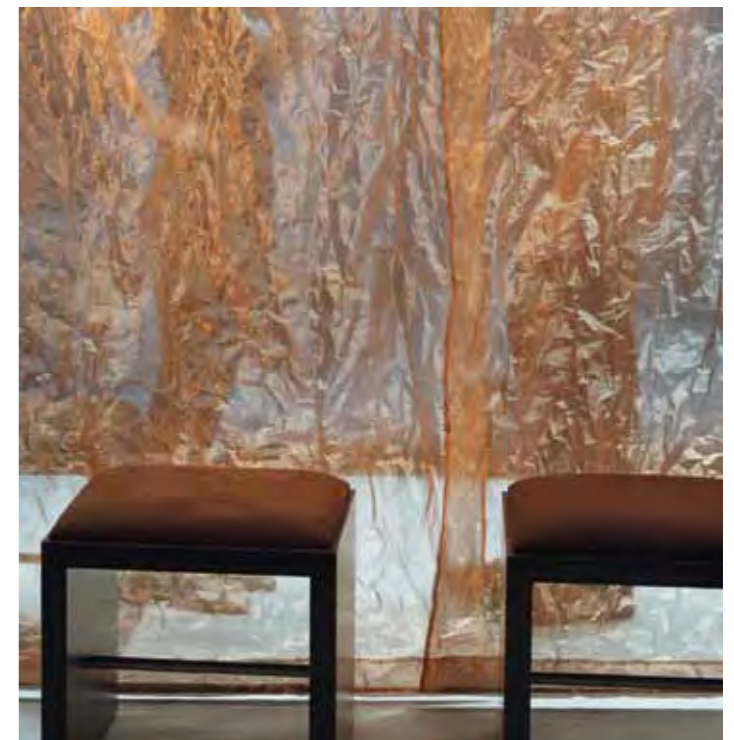
# Fabrics

Such fabrics, as dreams are made on. Alphamesh fabrics present an assortment of fabrics for architectural uses and impressive interior design application capabilities. The particularity of these fabrics are enhanced by the weft yarns which are all in 100% metal. Alphamesh fabrics are produced using stainless steel, brass, copper and aluminium yarns resulting in materials providing the haptic feedback and the appeal of fabrics, yet featuring the properties of metals. Wherever and whatever their use, the especially hardy metal fabric properties by alphamesh fabrics remain constant over time. They are extremely lightweight, with the added benefit that the alphamesh fabrics are virtually non-flammable and flame retardant in terms of safety. Making "seda", "java", "ventura", "antigua" and "grenada" the best option for versatile design highlights.



java

Material: bronze  
Open Area: c. 36 %  
Weight: c. 0.33 kg/m<sup>2</sup>  
Standard width: 1500 mm



#### **Membrane**

An impressive variety of colours, surprising colour effects and fiery colour depth characterize the intensity, iridescence, luminosity and shimmering effects of "java". "Java" enhances the radiance of each room throughout the course of the day. Therefore, "java" is a versatile element of expressive interior design.

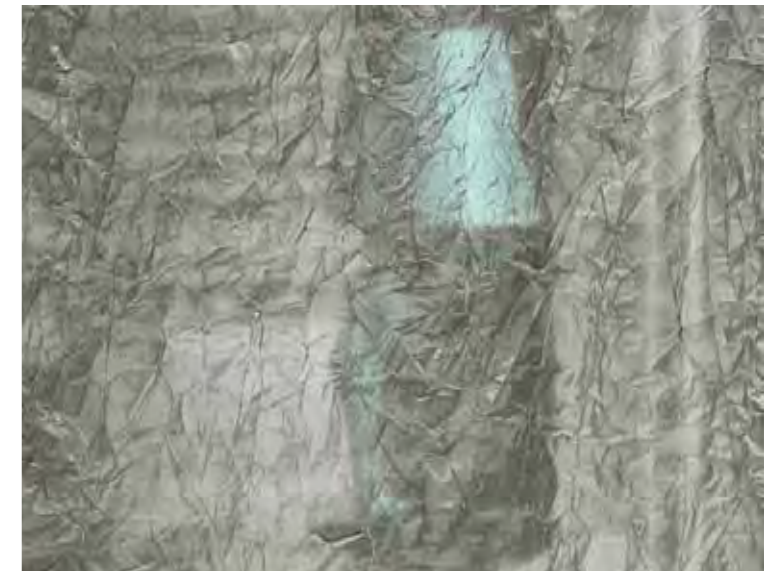


seda

Material: stainless steel  
Open Area: c. 36 %  
Weight: c. 0.25 kg/m<sup>2</sup>  
Standard width: 1500 mm

### Masterstroke

“Seda” bowls you over at first sight. With a silky appeal and a hot surface sheen. Expert weaving technology with finely spun stainless steel yarns lending the fabric a restrained elegance for unique moulding and shaping properties or for extravagant sculpturing.



### Steel Innovation Award Winner 2018 – in category “STEEL DESIGN”

In the category “steel design”, proMesh GmbH was awarded the Steel Innovation Prize for their development of the stainless steel mesh “SEDA”. The competition is endowed with a prize money of 60,000 Euros. Furthermore, the winners received a steel sculpture made by Mannheim-based artist Stefanie Welk.



On June 13th, 2018, the 11th Steel Innovation Prize was awarded on the occasion of the “Berlin Steel Dialogue” in Telekom’s representative office in Berlin, under the patronage of Arndt G. Kirchhoff of Kirchhoff Automotive Holding GmbH + Co KG. With the Steel Innovation Prize, the German steel industry awards innovations, products, and processing technology in the steel sector every three years.



# ventura

Material: aluminium  
Open Area: c. 54%  
Weight: c. 0.25 kg/m<sup>2</sup>  
Standard width: 1500mm



## **Classicism**

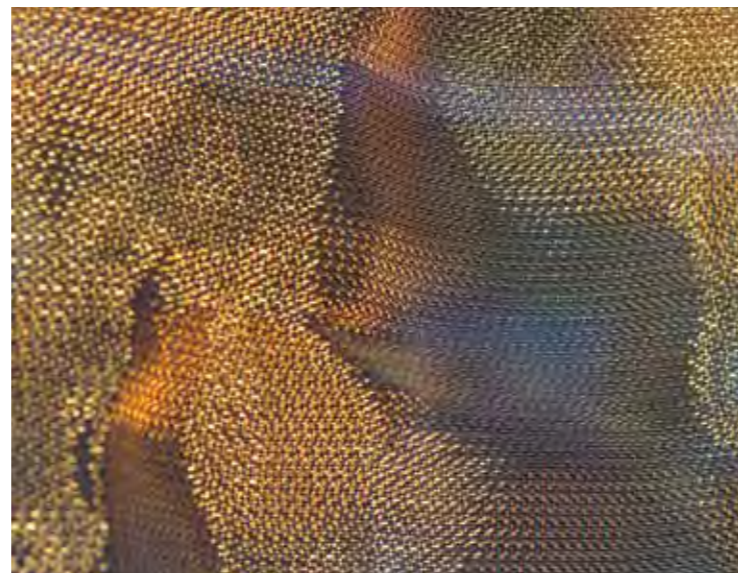
“Ventura” for captivation: classic, vintage graphics with a punch. The cubic construction in fine aluminium yarns showcases a clearly-defined surface pattern for a rush of creative energy stirred by the nuanced light play on the single threads.

# antigua

Material: brass + copper  
Open Area: c. 63%  
Weight: c. 0.60 kg/m<sup>2</sup>  
Standard width: 1500 mm

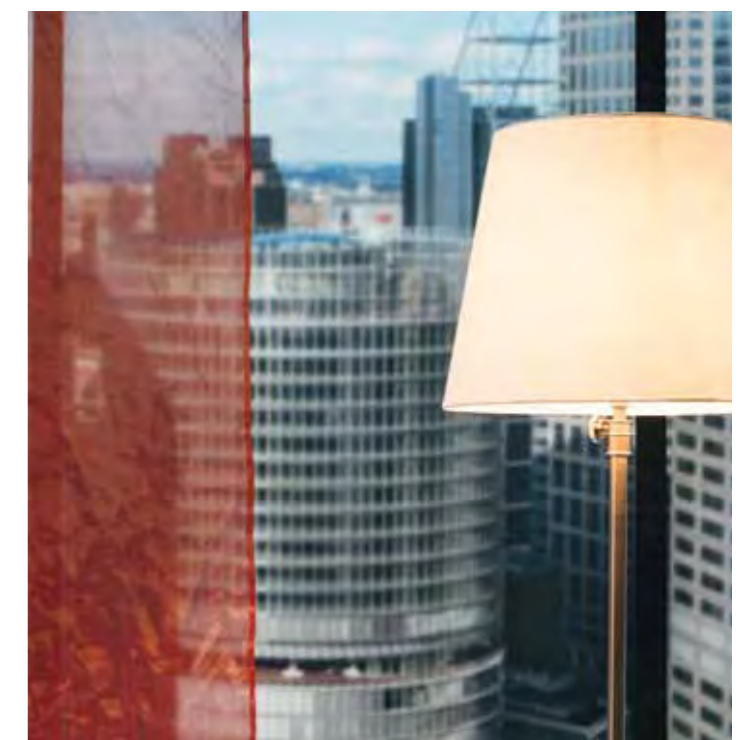
## **Metal purity**

"Antigua" embodies pure elegance. Definitely noblesse at its finest with a timeless weave construction and an enticing sheen. For all ambient settings – whether classic or extravagant. Either two-dimensional, or as a three-dimensional membrane for volumetric moulding and shaping.



# grenada

Material: stainless steel and  
copper red lacquered  
Open Area: c. 51%  
Weight: c. 0.35 kg/m<sup>2</sup>  
Standard width: 1500mm



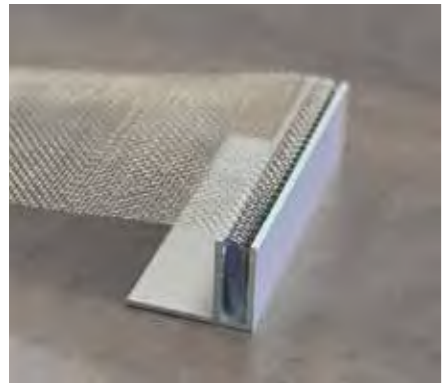
## Phenomena

"Grenada: for bewitching fairytale settings enhanced with brilliant colour plays, shading or moiré effects. The stainless steel and lacquered copper mesh literally conquers spatial dimensions, for a fusion of imaginative composition with harmonic stimulation.

# Attachment + Installation



Wall cladding with F-Profile. Prefabricated with PVC flat keder



Pipes. Diameter: 20 mm



Diameter: 28 mm



Colours available



Frame cladding with h-Profile. Prefabricated with PVC flat keder



Hooked hanger only with 20mm pipes



Eyelets fixing 20mm and 28mm pipes



Hemstitch fixing 20mm and 28mm pipes



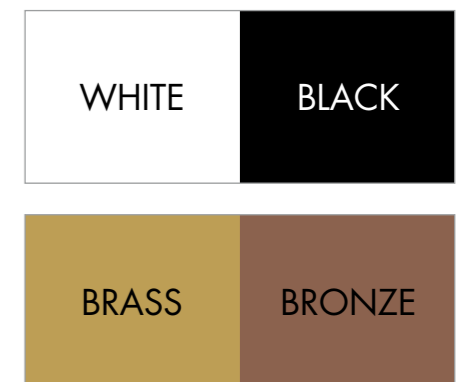
Cladding solution for suspended ceilings



Profiles available with Ø 20mm and 28mm. Wall suspension with sliding fabric panel



Colours available





# Ring Mesh



## **alphamesh 12.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.06 kg/m<sup>2</sup>  
Tensile Strength: 53 kN/m  
Open Area: c. 63 %



## **alphamesh 12.0 bronze**

Material: bronze CuSn6  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.45 kg/m<sup>2</sup>  
Tensile Strength: 33 kN/m  
Open Area: c. 63 %

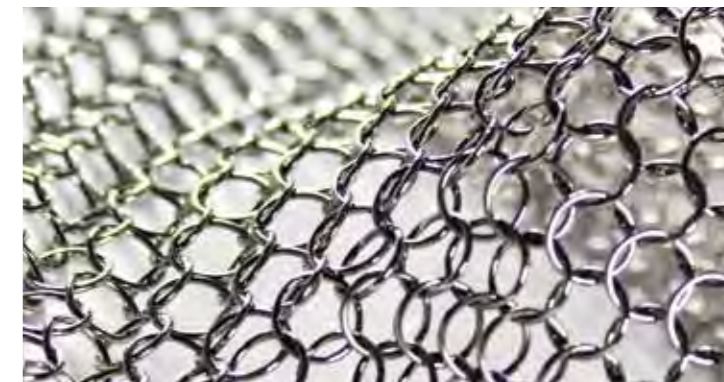


## **alphamesh 12.0 bicolor**

Material: stainless steel  
1.4404 / AISI 316L bronze CuSn6  
Ring Diameter: 12.00 mm  
Wire Gauge: 1.10 mm  
Weight: c. 3.26 kg/m<sup>2</sup>  
Tensile Strength:  
33 kN/m  
Open Area: c. 63 %

## **alphamesh 7.0 stainless steel**

Material: stainless steel  
1.4404 / AISI 316L  
Ring Diameter: 7.00 mm  
Wire Gauge: 0.70 mm  
Weight: c. 2.2 kg/m<sup>2</sup>  
Tensile Strength: 23 kN/m  
Open Area: c. 60 %



## **alphamesh 7.0 bronze**

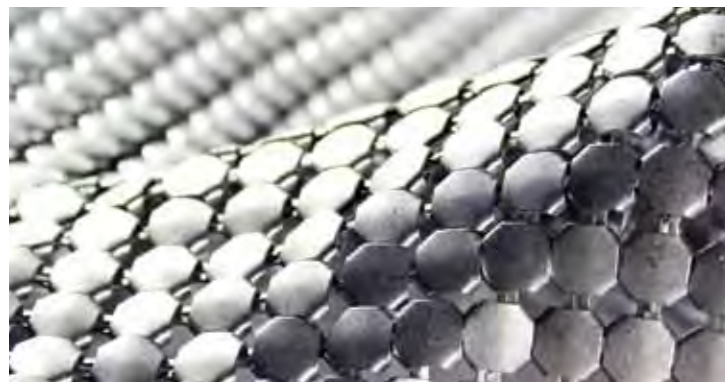
Material: bronze CuSn6  
Ring Diameter: 7.00 mm  
Wire Gauge: 0.70 mm  
Weight: c. 2.49 kg/m<sup>2</sup>  
Tensile Strength: 15 kN/m  
Open Area: c. 60 %



All alphamesh 12.0: Surfaces: polished, dull  
Mesh width ex works: 1.00m - 9.60m | height: max. 15.00m / Further dimensions on request

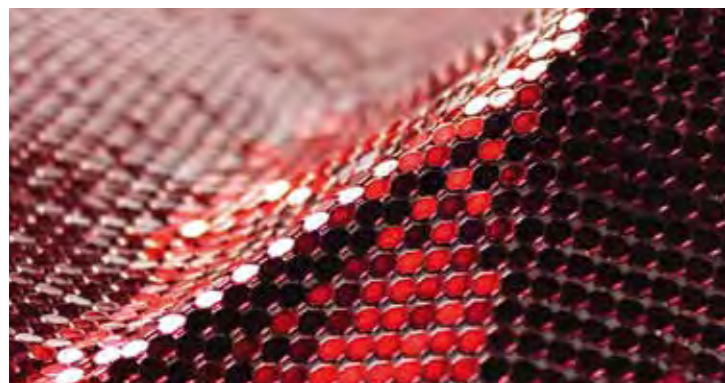
All alphamesh 7.0: Surfaces: polished, dull  
Mesh width ex works: 1.00m - 5.00m | height: max. 5.00m / Further dimensions on request

# Scale Mesh



## **alphamesh scale 5.8 aluminium**

Material: aluminium AlMg3  
Scale Size: 5.80mm  
Weight: c. 1.50 kg/m<sup>2</sup>  
Tensile Strength: 6.67 kN/m  
Surface:  
polished / matt / lacquered  
Colours: RAL colours on request



## **alphamesh scale 2.5 aluminium**

Material: aluminium AlMg3  
Scale Size: 2.95mm  
Weight: c. 0.80 kg/m<sup>2</sup>  
Tensile Strength: 3.20 kN/m  
Surface: polished / matt / lacquered  
Colours: RAL colours on request

## **alphamesh scale 5.8 brass**

Material: brass CuZn37  
Scale Size: 5.80mm  
Weight: c. 3.40 kg/m<sup>2</sup>  
Tensile Strength: 6.00 kN/m  
Surface: polished / with or without  
clear coating or dull coating



## **alphamesh scale 2.5 brass**

Material: brass CuSN3ZN9  
Scale Size: 2.95mm  
Weight: c. 2.20 kg/m<sup>2</sup>  
Tensile Strength: 6.13 kN/m  
Surface: polished / with or without  
clear coating or dull coating



Scale mesh standard dimensions polished – Width: up to 1.00m / Length: up to 3.00m  
Sizes are measured in hanging conditions! Due to this the mesh partition changes as well  
as the number of scales per m<sup>2</sup> | Bigger sizes on request  
Scale mesh standard dimensions lacquered – Width: up to 0.60m / Length: up to 3.00m

Scale mesh standard dimensions polished – Width: up to 1.00m / Length: up to 3.00m  
Sizes are measured in hanging conditions! Due to this the mesh partition changes as well  
as the number of scales per m<sup>2</sup> | Bigger sizes on request  
Scale mesh standard dimensions lacquered – Width: up to 0.60m / Length: up to 3.00m



# Attachment + Installation

Ceiling installation with round plate attachments



Suspension plates with or without illumination



Stainless steel keder profile



Rod fastening with edge stitch



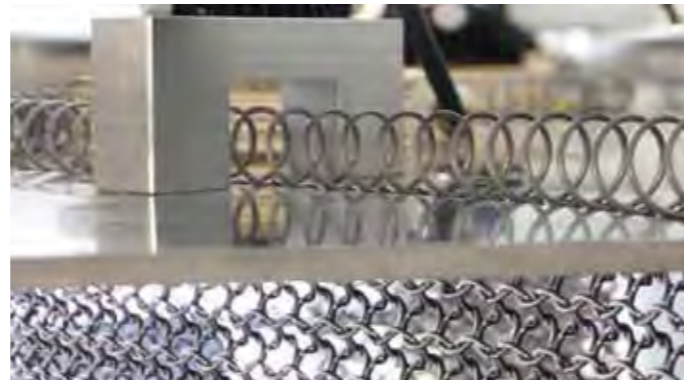
Straight rod fastening



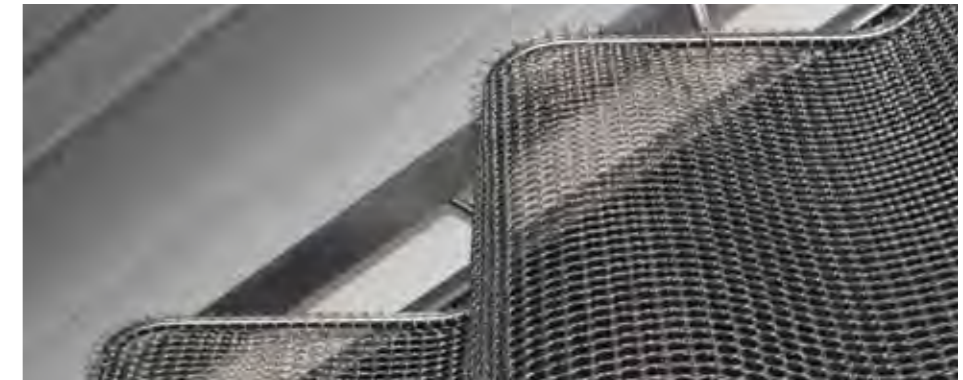
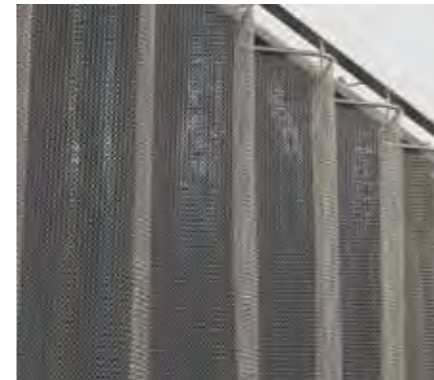
Wall attachment with tensioning device



Suspension plates construction



Meander curtains with shaft mounting



Wire cable hanging

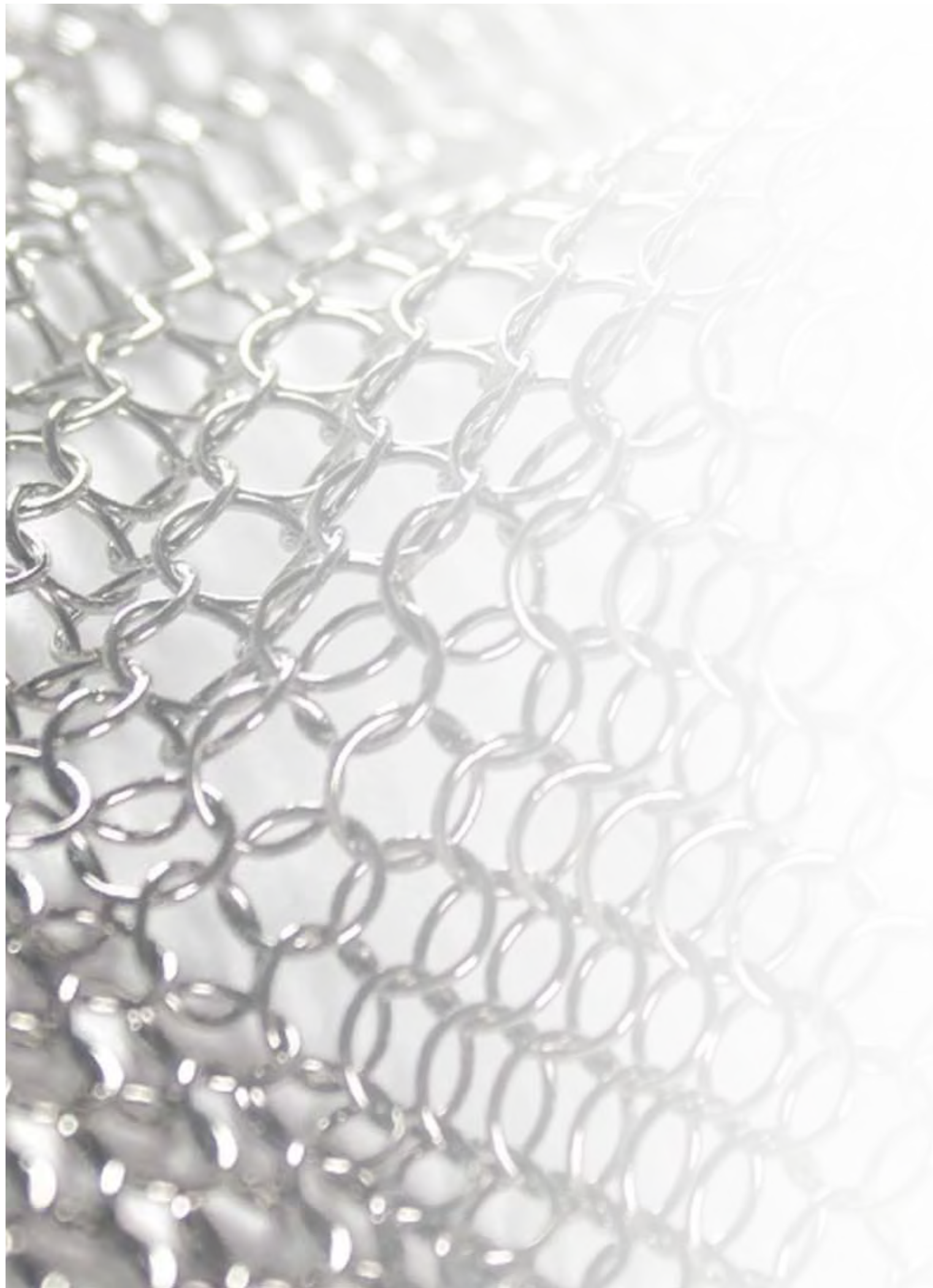


Suspension plates



Pull-across blinds with folding mechanism





photocredits:  
pages 6/7, 12-15, 38-41, Daniel Swarovski, Wattens // pages 8-11, H.G. Esch, Hennef  
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