ARCHITECTURAL WIRE MESH.
WEAVING IDEAS.
HAVER Architectural Mesh combines outstanding functionality with high aesthetic appeal, opening new perspectives in creative design and enabling fascinating architectural solutions for both interior and exterior applications. Haver & Boecker provides you with versatile advice during every phase of the project - from specific planning, through implementation accurate in every detail, right up to on-time installation.

Clients from around the world rely on our proficiency, as demonstrated by creative collaboration with internationally renowned architects and the wide range of construction projects undertaken with our know-how and wire mesh.

These projects - along with in-house engineering and construction departments, many patents, registered designs and trademarks - provide first hand proof of our products and our unique way of weaving your ideas.

Haver & Boecker began producing wire cloth in Hohenlimburg, Germany, in 1887. Today, we are one of the world’s leading wire weaving companies with a global network of branches and manufacturing facilities.

Our work is based upon experience, continuous research and development of our products and manufacturing processes, along with the knowledge and ability of our staff. This combination of tradition and innovation allows us to meet and exceed the high expectations of our customers.
FAÇAIDE DESIGN.

BRILLIANT IDEAS.

HAVER Architectural Mesh offers architects and planners a multitude of design options for exterior façades which combine sophisticated aesthetic features with a great many functions.

A wide range of different types of mesh can enhance the appearance of a building, giving it immense individual character. Depending on the lighting conditions and the viewing angle, the material can appear transparent or opaque. Light and shade, sunshine and cloud are reflected on the surface of the mesh, creating either a shimmering metallic effect or the impression that the building has a second skin.

Wire mesh constructions can also have a safety function, provide protection from the sun and absorb sound. Manufactured from high-quality stainless steel with molybdenum, our meshes offer good corrosion resistance requiring minimal maintenance. Tried-and-tested fastening systems enable mounting solutions to be customised, guaranteeing optimum safety in even the tallest of buildings and strong winds.

Benefits at a glance:

Individual design
The diversity of mesh types, the widest range of colour options, and a wide selection of mounting solutions offer almost unlimited design possibilities.

Natural ventilation
The transparency of an architectural mesh allows natural ventilation. The open area of the mesh can be adjusted to meet particular aeration and ventilation requirements.

Sun protection
Architectural wire mesh acts as effective sunlight protection, in particular to filter incident light and reduce warming of the building.

Fall protection
Stainless-steel wire mesh can be used as fall protection, for example in multi-storey car parks or for cladding on external staircases and balconies.

Transparency and view protection
Thanks to its structure, wire mesh provides transparency from inside when viewed front on. At the same time, mesh façades can almost have an opaque effect depending on the angle of view and lighting conditions.

Long-life cycle
Architectural wire mesh stands out for extreme durability and is almost maintenance free due to the use of corrosion-resistant stainless steel and robust mounting technology.

Building redevelopment
Architectural wire mesh is extremely suitable for renovating, upgrading or modernising existing buildings. It is a modern design element combining old and new.

Colour
Various techniques can be used to colour HAVER Architectural Mesh elements: non-ferrous metals, coated and printed mesh, illuminated mesh or even transparent media façades.
SIZE WITH FORMAT.
FAÇADE SURFACES WITH A UNIFORM APPEARANCE.

In many cases, architectural wire mesh can be tensioned over the full height of a façade. To do this, solid substructures absorbing significant loads such as pre-tension, wind and ice are only required at the building’s upper and lower attachment points. This ensures significantly lower costs for substructures and installation compared to façade cladding with framed solutions.

Depending on the size of the individual mesh elements, additional intermediate mountings fixed to each level of the building suffice. These reduce the maximum loads acting on the substructure as well as possible deflection of the mesh.

While the maximum width of the wire mesh elements is limited by production methods, the length is restricted by handling and technical considerations. In most cases it is possible to clad façades of heights of 20 to 25 metres in single length elements. Subject to a detailed technical inspection, even longer elements can be manufactured.

During assembly, the wire mesh elements are installed with a defined pretension, however the maximum loads occurring due to wind and other factors may be considerably higher.

Large mesh elements are quick and easy to assemble. Once assembled, HAVER Architectural Mesh requires little to no maintenance.

When interacting with sunlight, stainless-steel wire mesh gives façades an elegant, shimmering appearance.

HAVER Architectural Mesh allows extensive façades to be clad with a uniform appearance.
EFFECTIVE SUN PROTECTION.
TRANSPARENCY FOR THE BEST INDOOR CLIMATE.

Exterior sunlight protection with architectural mesh is significantly more effective compared to interior systems. In addition, the excellent protective effect is combined with a whole series of additional advantages and, not least, provides financial benefits by reducing energy costs for air conditioning.

Incident solar radiation is optimally filtered and the warming of the façade significantly reduced. The transparency of the mesh enhances the façade’s optical effect, and at the same time maintains the look of the building from both inside and outside. Particularly with glass façades, this effect opens up many additional design possibilities.

Benefits at a glance:

Effective shading
The structure of the architectural wire mesh provides effective shading, particularly with a high angle of sunlight incidence in summer. Solar energy can be used to reduce heating costs in winter with a low angle of sunlight incidence.

Natural ventilation
Due to its open area, stainless-steel mesh guarantees good air circulation and prevents warm air from accumulating in front of the façade. The corresponding distance between the mesh and the glass enhances this ventilation effect.

Excellent view from inside
Depending on the selected mesh type, the façade appears to be extremely transparent from the inside mainly due to the viewing angle and the natural daylight.

Fixed and removable solutions
Wire mesh is particularly suitable for permanent use as sun protection using large-scale tensioned elements. It can also be integrated in sliding or hinged frames for removable solutions.

With puristic aesthetics, the shimmering metallic effect of the stainless-steel mesh in sunlight brings out the overall architectural concept.

The precisely defined open area breaks up and filters sunlight creating a pleasantly cool and bright interior climate.

The combination of transparency and sun protection is ideal for modern glass architecture.

The open geometry of the architectural wire mesh preserves the view on the outside world.

Transparent architectural mesh elements effectively combine sun protection with superb design possibilities.
Appropriate key figures are used to objectively determine the effect of sunlight protection (including to determine additional air conditioning requirements). As such the g-value (total energy transmittance) refers to the proportion of solar energy that makes its way through a transparent component, for example a window. A g-value of 0.6 means that 60% of the solar energy reaches the interior, either as direct solar radiation or by heating the system and transmitting heat inside.

The interaction of the entire façade system needs to be borne in mind when using wire mesh as sun protection in combination with a glass façade. This includes the following factors:

- Type of glazing
- Incidence angle of sunlight
- Distance of the wire mesh to the glass façade (ventilation)
- Gloss level of the wire mesh

The Bavarian Centre for Applied Energy Research e.V. (ZAE Bayern) has researched different glazing and incidence angle with good and poor ventilation, all with external shading by means of wire mesh. The effect of the wire mesh on reducing energy can be determined by comparing the g-value for the entire system (mesh and glass façade) to the g-value for the glass façade. This results in the energy reduction factor \( F_C \) for shade. A value of 0.4 means that the energy transmission for the entire system (mesh and glazing) is reduced to 40% due to the sun protection mesh used.

### Excellent shading effect
With a sunlight incidence angle of 60° and double glazing, most architectural mesh types achieve a reduction in transmitted solar energy of between 40% and 70%. In combination with corresponding sun protection glazing, they even achieve g-values of between 0.1 and 0.18 with the same incidence angle.

The mesh type LARGO-TWIST 2045 specifically designed for sunlight protection goes even further. At a 60° sunlight incidence angle, the energy transmission is reduced by more than 90%. This allows a g-value of 0.02 in combination with sun protection glazing.

#### Values in accordance with DIN EN 13363-2

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TRANSPARENCY AND PRIVACY.
NEW INSIGHT INTO PERSPECTIVES.

Architectural wire mesh forms a shimmering shell for buildings with its own style and elegant sun protection at the same time. Depending on the mesh type, the viewing angle, and the lighting conditions, the optical effect of stainless-steel wire mesh claddings is always varied. On the one hand it allows an unobstructed view of the outside world from inside, and on the other offers excellent privacy.

Depending on the incidence of light, the material has a transparent effect and allows a view inside or blocks it. Light and shadows, sunshine and clouds are reflected on surface of the mesh, taking on the appearance of a second skin.
CREATIVE COLOUR.
NEW ROOM FOR ARCHITECTURE TO PLAY.

Architectural wire mesh is frequently used for its elegant stainless-steel optics. However, colouring options that are as individual as they are extraordinary are also available. These techniques enable not only coloured surfaces but also complex designs to be applied directly to the surface of the mesh and set out across the entire surface.

Whether a logo or an image, for a theatre, shopping centre or company head office, colouring provides the opportunity to create buildings of unique character. The interaction between artificial light and natural daylight, transparency, luminance and colour allows the façade to constantly show itself in new, stylish colours.

Benefits at a glance:

Painting of mesh elements (entire surface or partially)
Painting of mesh elements allows the durability of a stainless-steel wire mesh to be combined with the wide range of shades available. In this respect, there are numerous metallic-effect shades available together with the well-known RAL colours.

Application of logos
A partial painting allows corporate lettering or individual logos to be placed on the wire mesh façade and be visible from afar. Even large graphics can be set out on the façade.

Digital printing
Detailed images can be represented on architectural wire mesh using digital printing.

Non-ferrous metal mesh (copper, phosphor bronze, brass)
Depending on the installation conditions and required material properties, wire mesh made of non-ferrous metal such as copper, phosphor bronze or brass can also be used instead of stainless steel. As non-ferrous metal surfaces may change due to environmental conditions, a uniform appearance is not always guaranteed. A metallic coating offers an alternative in this case.
INDIVIDUAL GEOMETRIES. PERFECT IN ANY SHAPE.

Architectural wire mesh can be adapted to geometrical shapes: The high degree of dimensional stability allows even larger areas and elements to be completed. From cubic to cylindrical forms, from orthogonal to freely designed elements, from straight edges to precisely defined radii - creativity knows no bounds.

This allows simple three-dimensional shapes by using individual elements arranged as polygons. The use of pre-formed elements is also possible for more complex shapes.

The high-quality 3D mesh façade by Haver & Boecker is a dynamic mesh cladding for individual construction projects. The modular 3D façade system of a substructure and ready-to-install mesh elements provides façades with vivid, highly recognisable appearances.

Benefits at a glance:

Individual design
The individual mesh elements can be produced from different architectural mesh types specific to each project in various shapes and sizes.

Free configuration
The wide range of architectural mesh types and the possibility of a colourful design offer almost endless freedom to individually design projects.

Sun and view protection
Due to its semi-transparent geometry, wire mesh is very well suited as external sun protection. Depending on the chosen mesh type, the cladding acts as effective sun protection.

Project-specific substructure
Depending on the construction project, the substructure can be laid out exclusively in a horizontal or vertical way.
BUILDING REDEVELOPMENT. 
OLD AND NEW IN CREATIVE CONTRAST.

Architectural wire mesh is extremely suitable for renovating, upgrading or modernising existing buildings. As a modern design element, wire mesh acts to bring old and new together, whether as a second façade, as internal cladding, or as a decorative screen.

Benefits at a glance:

Visual improvement of existing façades
A metal mesh façade provides an existing building with a new and contemporary look with comparably simple resources. The original façade can be retained accordingly.

Uniform enveloping for new and old structures
How do we manage to harmoniously combine new and old structures when refurbishing extending or adding another storey to an existing building? An additional wire mesh façade provides old and new structures with a uniform appearance that brings the old and new together in a modern way with its semi-transparency.

Cladding and protection
Historic structures worthy of conservation can be effectively protected using a wire mesh cladding from physical damage without obscuring the view of the façade. The protective impact can be perfectly adjusted to influencing factors by choosing a mesh type with appropriate openings and transparency.
PERFECT FOR MULTI-STOREY CAR PARKS.
FROM FUNCTIONAL BUILDING TO DESIGN OBJECT.

Wire mesh has also been contributing to multi-storey car park architecture for some time, transforming once dark and faceless functional buildings into well-lit architectural experiences. HAVER Architectural Mesh made from stainless-steel offers various options due to its functional and aesthetic properties.

Both inside and outside it stands out due to an elegant appearance, and in doing so meets the highest demands of safety, stability and weather resistance. HAVER Architectural Mesh ensures a bright atmosphere that brings together transparency and design in a unique way.

Benefits at a glance:

**Ventilation and lighting**
The transparency of architectural mesh allows it to act as a natural ventilation system. Costly ventilation systems can be dispensed with due to the open area of the mesh - this reduces not only energy costs, but also has a positive impact on the environment. In addition, the open area of the mesh allows the car park’s interior to be lit naturally. This means that during the day, artificial light sources can be dispensed with as far as possible.

**Sun protection**
Whether with cold and snow, desert heat or strong winds - stainless-steel mesh can be used in all climates. Due to its precisely co-ordinated open area, architectural mesh breaks down and filters sunlight, and as such contributes to a pleasantly cool, but bright interior climate. The structure of the mesh provides effective shading, particularly with a high angle of sunlight incidence in summer.

**Safety**
Stainless-steel architectural wire mesh is particularly robust, stable and durable. As façade cladding and parapet or balustrade infill it is capable of providing effective fall protection.

**Individuality**
HAVER Architectural Mesh opens up many options for individual and functional façade cladding. With a wide range of different mesh types and the possibility of coating the stainless-steel mesh, images and logos, the creative design of mesh façades is limitless. Media façades and mesh illumination bathe multi-storey car park façades in dynamic, colourful light and transforms them into places of modern communication. IMAGIC WEAVE® transparent media façade turns multi-storey car park façades into eye-catching media platforms that can also become a source of revenue by displaying advertising messages.

**Cost effective**
Only a solid substructure is required for attaching the architectural wire mesh due to the upper and lower attachment points. Depending on the size of the mesh elements, this is enhanced by intermediate attachment points. The costs for the substructure and assembly are significantly lower than when cladding façades with framed solutions.

**Sustainability**
The environment also benefits as stainless steel has an average recyclable proportion of at least 60%, and when finished with it is fully recyclable. This not only creates a friendly and individual car park, but the building’s sustainability is also increased.

Focus on natural ventilation and lighting with HAVER Architectural Mesh. Terra Sud multi-storey car park, Bègles, France.

Sun protection with a good view from inside. Multi-storey car park, Chesapeake, Oklahoma, USA.

Thanks to its transparency, stainless-steel mesh allows good circulation of air.

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Thanks to its transparency, stainless-steel mesh allows good circulation of air.
IMAGIC WEAVE® allows the display from moving patterns to high-resolution video content in an endless range of colours and superb quality. The system has a modular structure and can therefore be scaled freely and adapted to any size and format. The video content to be displayed on the façade is easily loaded into the video server’s universal playback software.

Unlike with non-transparent systems, the video content shown has particular transparency depending on the surroundings’ lighting conditions, and appears to hover in front of the façade without completely obscuring it. In addition, the slim LED profiles are hardly noticed from outside and therefore do not influence the façade’s uniform appearance.

IMAGIC WEAVE® transforms façades on sports arenas, shopping centres, airports and high-rise buildings into striking communication platforms and can be retrofitted onto existing mesh façades.

Benefits at a glance:

**Flexible design**
The mesh elements and LED profiles are manufactured to the exact dimensions of specific projects. The flexible attachment system allows any size of surface and challenging shapes to be fitted with IMAGIC WEAVE®.

**Uniform appearance**
The slim LED profiles are attached to the rear of the mesh to provide the wire mesh façade with the typical appearance. The cabling is not visible from outside, and the transparency from inside is not adversely affected.

**Longevity, energy and cost efficiency**
The latest LED technology brings together a high degree of luminosity and low energy costs, extreme longevity and low maintenance outlay. Dynamically adjusting the brightness to the surrounding conditions also increases energy efficiency.

**Weather resistance**
The system protected in accordance with IP 67 has been developed for indoor and outdoor applications, and with surrounding temperatures of -30°C to +60°C guarantees faultless operation as well as a high degree of resistance to weather and temperature.

**Programming and intuitive operation around the world**
Media content is intuitive to change with the supplied control software. The media façade can be controlled from anywhere in the world by smartphone, tablet or remotely.

**Easy maintenance and ability to retrofit**
Clips technology allows the LED profiles and the universal connector system to be attached without problem and, if required, replaced quickly and easily on site.

**Individual service**
Our specialists offer worldwide support at every stage of planning - from concept right through to implementation.

**Captivating by day and night**
Thanks to a brightness of up to in excess of 11,000 nit (cd/m²) IMAGIC WEAVE® also creates superb colours in daylight. The system’s brightness is smoothly adjusted to the surrounding conditions by means of sensors.

IMAGIC WEAVE® brings together the elegance of stainless-steel cloth with the latest LED technology.
TWO LED-TECHNOLOGIES.
ILLUMINATING SOLUTIONS.

Haver & Boecker’s high-quality architectural mesh was combined with the latest LED technology by Traxon Technologies (an Osram Company) for developing the IMAGIC WEAVE® media façade. The result is a high-performance, versatile LED system for freely programmable video display of light effects in an endless range of colours on façades.

In order to guarantee the best project-specific solution with regard to colour mixture, emission angle and brightness, the IMAGIC WEAVE® media façade system is available with two different LED technologies:

**IMAGIC WEAVE® HE**
IMAGIC WEAVE® HE consists of SMT LED profiles with two SMT LEDs per pixel.
Advantages: wide viewing angle, very good mix of colours.

**IMAGIC WEAVE® HO**
IMAGIC WEAVE® HO consists of THT LED profiles with six THT LEDs per pixel.
Advantages: high degree of luminosity, suited for daylight.

The LED profiles are available with a horizontal standard pixel pitch of 40 mm, 50 mm or 62.5 mm. Next to synchronous pixel pitches also asynchronous pitches are possible (for example: 40 mm x 105 mm, 50 mm x 80 mm etc.).

ILLUMINATION.
LIMITLESS POSSIBILITIES.

In combination with an IMAGIC WEAVE® media façade it is possible to increase the visual size of the video content and transfer it to surrounding mesh façades. So, for example, a blue summer sky displayed on the media façade can automatically be extended to the remaining façade surfaces with a blue tone.

The direct combination of illumination and IMAGIC WEAVE® allows three-dimensional effects to be created. Both techniques can be optionally operated together or separately from each other. In addition, the illumination achieves further interesting effects by its ability to illuminate the IMAGIC WEAVE® media façade both from the front and behind.

You will find more information at www.imagicweave.com about the transparent IMAGIC WEAVE® media façade as well as illuminating mesh façades.
HAVER Architectural Mesh allows prestigious and at the same time functional ceiling designs that can creatively be designed due to the structure, type of installation and illumination - from shimmering, via translucent to opaque, from cool and elegant to warm and discreet.

Whether convex, concave or tensioned, in panels or cassettes – architectural wire mesh is suitable for both large and small areas. It improves a space’s acoustics, and elegantly hides installations and integrated lighting.

Even the strictest fire regulations are complied with and, at the same time, the smooth operation of ventilation, air conditioning or sprinkler systems is guaranteed. Selected stainless-steel qualities make the mesh extremely durable and maintenance-friendly.

Benefits at a glance:

Brilliant protection of technical systems
Wire mesh is superbly suited to cladding technical systems. It protects equipment installed above the ceiling from physical effects and has the effect when viewed from the side of being almost hidden from view.

Optimum function of ventilation or sprinkler systems
The open area of the mesh guarantees the smooth operation of technical systems. The apertures of the mesh can be adjusted accordingly to the project’s requirements.

Individual mounting solutions
Architectural mesh ceilings may be divided into flat or wave-shaped, tensioned or adjustable elements. As such, the mounting can be individually adapted to suit specific project requirements.

Use in acoustic ceilings
The structure of wire mesh disperses sound in all directions and also acts as a high-quality support for acoustic materials.

Large mesh panels
In connection with a corresponding substructure, large ceiling elements can also be designed with tensioned panels of architectural mesh.

Fire resistance
Stainless-steel architectural mesh is non-flammable and as such meets the strictest fire safety requirements.
AESTHETICS AND ATMOSPHERE. NEW FORMS OF EXCLUSIVE SPACE DESIGN.

Haver & Boecker woven mesh does not only improve spaces visually, but also creates a stylish and prestigious atmosphere due to its high-quality material and perfect workmanship. It fits into the architecture of any space and adds an expressive character with timeless elegance.

A comprehensive range of coarse and fine mesh, flexible and rigid mesh types as well as a wide range of different mounting possibilities offer new options for individual plans and exclusive design concepts. Self-supporting, space-defining designs are just as possible with stainless-steel wire mesh as with large structures on the walls and below the ceilings.
WALL DESIGN
NEW SIDES TO INTERIOR ARCHITECTURE.

Versatility, stability and an exclusive look make architectural wire mesh the ideal material for designing indoor walls. The interaction between surface structures, light reflections and colour effects offers planners and architects many options for combining the design of space with reliable functionality. At the same time the high-quality material meets all requirements of longevity and safety as apply specifically for public areas.

Benefits at a glance:

High-quality appearance
Architectural wire mesh offers a timeless elegance, is extremely durable and, in combination with appropriate lighting, a highlight for any interior design.

Protection of technical systems
Woven wire mesh is superbly suited to cladding technical systems. It provides a visually enhanced surface that is robust enough to protect sensitive equipment from physical influences.

Ideal for ventilation systems
The permeability of architectural mesh guarantees the smooth operation of ventilation systems. Depending on the requirements, the size of the aperture of the stainless-steel mesh can be adjusted accordingly.

Large mesh panels
As with façades, architectural wire mesh can also be tensioned over wide areas on walls. This provides uniform cladding and, at the same time, reduces outlay for the substructure.

Improved acoustics
Architectural wire mesh disperses sound in all directions due to its structure. At the same time, the mesh acts as elegant cladding with effective acoustic insulation materials.

Fire resistance
Stainless-steel architectural mesh is non-flammable and as such meets the strictest fire safety requirements.
HAVER Architectural Mesh is the ideal material for cladding interior surfaces. As such, its modern, stylish look combines convincing functionality with stability and durability. With corresponding illumination by artificial light or daylight, the shiny surface creates interesting structures and reflections: An ideal solution, not only in prestigious areas such as operas or congress centres, but also in functional buildings as wall or staircase coverings.

Modern interior design with painted stainless-steel mesh. Shiki Restaurant, Vienna, Austria.

The mesh element’s specific colouring underlines the exclusivity of the room. QNCC, Doha, Qatar.

Exclusive wall covering at Custo Barcelona, Spain.

Staircase wall covering. Lamton Hall, Guelph, Ontario, Canada.

Golden mesh wall covering at the National Grand Theatre Beijing, China.
BALUSTRADE.
SAFETY WITH ELEGANCE.

As fall protection and balustrade infill, HAVER Architectural Mesh provides an elegant look and meets the highest requirements for safety and stability. The semi-transparent stainless-steel mesh creates either transparency or privacy. Depending on the purpose, different weave types and alloys that are particularly resistant to the weather and physical effects are available.

Benefits at a glance:

High quality appearance
Despite its stability, architectural wire mesh adds lightness and the elegance of textile to any balustrade. Thanks to its transparency and the reflective stainless-steel surface, captivating light effects can be created in combination with the appropriate backlighting.

Semi-transparency
When viewed from the side, architectural mesh appears to be closed, but open when viewed straight on. This allows, for example from a balcony, a good view of the outside world, while the view in from the street is severely restricted.

Stability
Architectural mesh consists of high-tensile wires and guarantees a high degree of safety in combination with a special attachment technique.

Longevity
Architectural mesh has an extremely long service life. The use of corrosion-resistant stainless-steel makes architectural mesh balustrades a timeless highlight in terms of technology as well.

Stainless-steel mesh as stylish balustrade infill.
St. Michael’s Hospital, Toronto, Canada.

Robust safety with architectural mesh. Passerelle du Centre Balexert, Geneva, Switzerland.

Semi-transparent balustrade infill Malcom Martin Platform, St. Louis, USA.

Stairwell cladding using two layers of architectural mesh to create the moiré effect.
McGill University, Montreal, Canada.

Shimmering light reflections of the Bru Bridge over the River Kvina, Norway.

High-quality look with stainless-steel mesh.
Private residence, Toronto, Canada.

Lightness and the elegance of textile due to HAVER Architectural Mesh. Svatka River Bridge balustrade cladding, Brno, Czech Republic.
Benefits at a glance:

Wind protection and privacy elements
The selection of an appropriately dense weave type also allows wire mesh to be used as efficient wind protection and privacy. Varying angles of view and lighting situations constantly ensure new effects due to the structure of the mesh.

Exhibition and retail construction
Architectural mesh creates different zones without them being completely separated visually. At the same time it is ideally suited for covering floors and walls, or as a ceiling canvas. The light reflected by stainless-steel mesh also allows targeted light control.

Aviaries
Transparency and robustness make woven wire mesh an ideal material for housing aviaries. Mounting solutions can be adapted to accommodate the shape of the aviary. The transparent effect of the wire mesh can be further enhanced by coating it black.

Design objects
The varied properties of woven wire mesh open up an almost endless range of possibilities for designers. This allows wire mesh to be worked into unique sculptures or used as the surface for an item of daily use. There are different metal meshes in various weave types and mesh counts available for this.

FREE CONFIGURATION.
CREATIVITY IN ITS MOST BEAUTIFUL FORM.

Versatility and robustness, stability and an exclusive look make HAVER Architectural Mesh the ideal material for designing spaces and areas as well as functional and design elements both inside and outside. Our stainless-steel mesh allows you to undertake challenging projects of the highest quality.

Mesh with varying aperture widths. Médiathèque Chateaugiron, France.
Design object. Flora 2006, Montreal, Canada.
Close-meshed wire mesh as enclosure fencing. Parc Zoologique, Thoiry, France.
Lift shaft cladding with architectural mesh, Ulm Town Library, Germany.
Shop design with architectural wire mesh. Paris, France.
ARCHITECTURAL MESH TYPES.

PATTERNS OF DIVERSITY.

The weaves and mesh types manufactured by Haver & Boecker for architectural applications are as diverse as the architecture itself. The choice of weft and warp, as well as the weave type, result in the widest range of mesh patterns, each with a specific look and light effect. The use of various materials as well as glossy, silk matte or coloured mesh surfaces also allows the design spectrum to be expanded.

On a scale of 1:1 the following examples are a representative selection of the main types from our comprehensive range of wire meshes. Of course, we can also develop entirely individual weave types for specific requirements. Please visit our website at www.weavingarchitecture.com where you will find more information and images of HAVER Architectural Mesh.

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\[ \text{MULTI-BARETTE 8301} \]

\[ G^{\text{\textregistered}} \text{ (kg/m²)} \quad A^{\circledast} \text{ %} \]

\[ \text{MULTI-BARETTE 8123} \]

\[ G^{\text{\textregistered}} \text{ (kg/m²)} \quad A^{\circledast} \text{ %} \]

\[ \text{MULTI-BARETTE 8130} \]

\[ G^{\text{\textregistered}} \text{ (kg/m²)} \quad A^{\circledast} \text{ %} \]

\[ \text{DOGLA-TRIO 1011} \]

\[ G^{\text{\textregistered}} \text{ (kg/m²)} \quad A^{\circledast} \text{ %} \]

\[ \text{DOGLA-TRIO 1033} \]

\[ G^{\text{\textregistered}} \text{ (kg/m²)} \quad A^{\circledast} \text{ %} \]

\[ \text{\textsuperscript{\textregistered} G=Weight, \textsuperscript{\circledast} A= Open Area} \]
LARGO-PLENUS 2022
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
8.1 & 25 \\
\hline
\end{tabular}

LARGO-TWIST 2045
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
5.5 & 38 \\
\hline
\end{tabular}

LARGO-PLENUS 2027
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
8.1 & 25 \\
\hline
\end{tabular}

EGLA-MONO 4631
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
7.3 & 58 \\
\hline
\end{tabular}

EGLA-MONO 4391
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
6.2 & 52 \\
\hline
\end{tabular}

DOKAWEll-MONO 3381
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
6.4 & 55 \\
\hline
\end{tabular}

DOKAWEll-MONO 3601
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
5.3 & 52 \\
\hline
\end{tabular}

EGLA-TWIN 4223
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
7.2 & 43 \\
\hline
\end{tabular}

EGLA-TWIN 4253
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
6.0 & 51 \\
\hline
\end{tabular}

EGLA-DUO 4262
\begin{tabular}{|c|c|}
\hline
G (kg/m²) & A°% \\
\hline
6.6 & 52 \\
\hline
\end{tabular}

\[ G \text{= Weight, } A°\% \text{= Open Area } ]
<table>
<thead>
<tr>
<th>Material</th>
<th>G (kg/m²)</th>
<th>A(^o) (%)</th>
</tr>
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<tr>
<td>DOKA-MONO 1601</td>
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</tr>
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<td>DOKAWELL-MONO 3001</td>
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<tr>
<td>MULTI-BARRETTE 8106</td>
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<td>DENIS 5811</td>
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<td>MINIFLEX 8135</td>
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<tr>
<td>ALTERNA 6012</td>
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<tr>
<td>CHESS 6013</td>
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<td>TEXTURA 1991</td>
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<tr>
<td>MULTIPLEX 9237</td>
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<tr>
<td>STRUCTURA 6501</td>
<td>1.1</td>
<td>22</td>
</tr>
</tbody>
</table>

\(^o\) G=Weight, \(^o\) A\(^o\)= Open Area
Various edgings and tensioning systems are available which are capable of integrating both the technical and visual aspects of architectural wire mesh into the ceiling and façade design. They ensure easy and safe installation as well as the optimum durability of the entire construction.

The following pages show a selection of the main options.
Please visit our website at www.weavingarchitecture.com where you will find further information about Haver & Boecker mounting solutions.

**Mounting solution for wire mesh façades.**

### Façade mounting - wire mesh

Mesh elements can be tensioned over several storeys using flat tension profiles, clevis screws and pressure springs. A solid substructure for absorbing the resulting loads is required at the upper and lower face. Intermediate mounting is provided at each floor level by means of a round tube and wire connectors running behind the mesh.
Façade mounting - cable mesh
Cable mesh can also be tensioned over large areas using round bars and eyebolts. For intermediate montings, round bars and pendular clips or alternatively round tubes and wire connectors can be used.

Façade mounting - special shapes
Each project has its own specific requirements. Whether curves, angled edges or cut-outs: Special solutions are individually determined and implemented with planners and contractors.
Mounting solutions for ceilings
Tensioned across a wide area or in removable elements HAVER Architectural Mesh ceiling elements are able to meet a project’s visual and technical requirements.

- **Fixed mounting system** for ceiling with flat tension profiles and clevis screws.
- **Removable mounting system** for ceilings without sag and with framed elements.
- **Adjustable mounting system** for ceilings with sag.

Fixed mounting system for ceiling with flat tension profiles and clevis screws.

Mesh with edges folded at 90°, welded to L-profile.

Mesh folded at 90° on all sides and fixed to a frame.

Mesh integrated into special aluminium frames.

Hanging options for framed elements.

Frame options
There are various design options available to select from for suitable frame solutions: