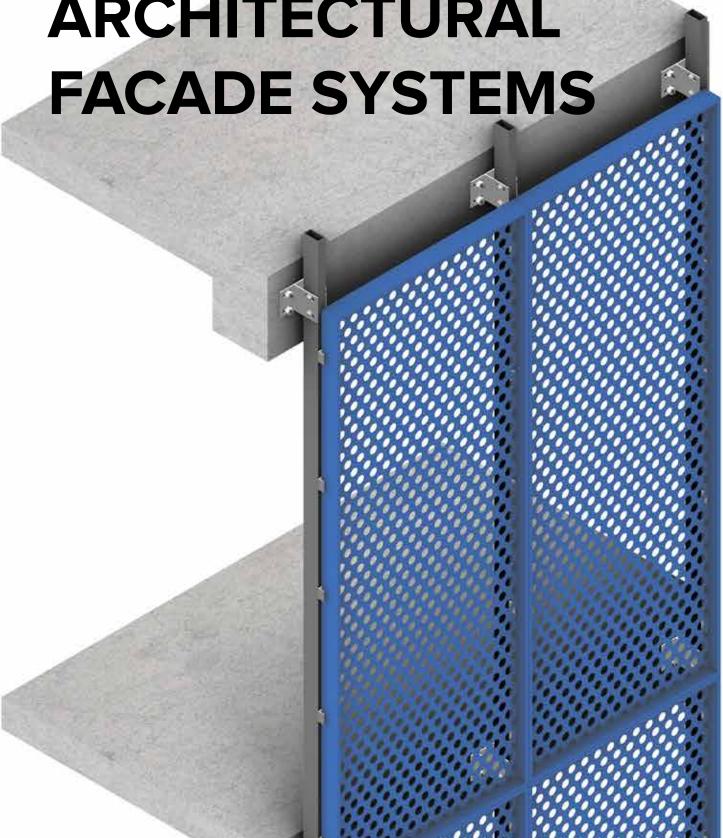




ARCHITECTURAL











Ted Corlu College, Corlu, Türkiye



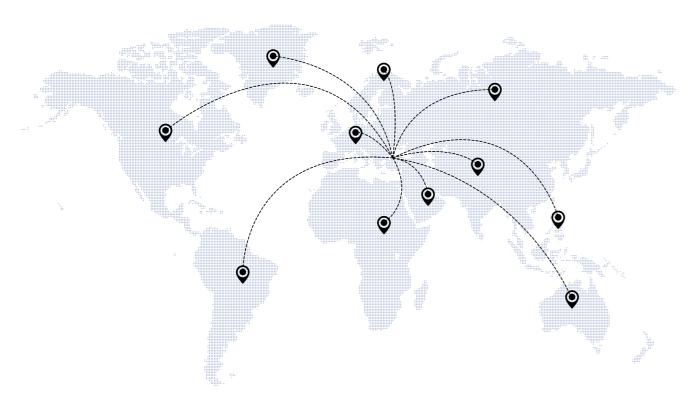


Pazar, İstanbul, Türkiye





+50 MORE THAN 50 COUNTRIES EXPORT ANB is over the world



The world's leading expanded & perforated metariels business.

We manufacture and distribute a diverse range of superior Expanded & Perforeted Metarials products. Which are used extensively in filter and construction, industrial projects of all sizes, all across the world. Our Global Footprint Our operations span 50 countries, on four continents.

SHOWROOM





Tou can find our creations that we have designed from our product range in different colors that appeal to different sectors. If you have a project that you want to realize, you can visit our shoeroom and see our products more closely

ABOUT US



As ANB Metal, we have started to offer services within the scope of expanded metal, perforated metal, laser cut, and façade products with our accumulated years of experience, superior work and quality production since 1992.

While our priority is always customer satisfaction, we achieve 'superior brand status' in processing metal products compatible with your project.

In addition to steel, galvanize and aluminum materials, we focus on the method of expanding to different types of metals such as stainless steel, titanium and copper. With the advancing technology, we are bringing new methods to metal in different and other dimensions.

We offer you metallic solutions with superior equipment with our expert team and our advanced technology devices and tools we use. With the metal products we have designed for use in exterior facades, suspended ceilings, walkways, fences, walls and lighting, industry and decoration areas. With the metal products we have designed for use in exterior facades, suspended ceilings,

walkways, fences, walls, lighting, industry and decoration areas, we serve you with shaping metal with different methods and 'adding meaning and value' to metal.

Our superior quality has been registered by Tüv-Saar with ISO9001-2015 certificate. In this context, the certificate we have, supports our reliability and high quality in a perfect way. With our EN ISO 14001-2015 Environmental Management System and Occupational Health and Safety Management System ISO 45001-2018 certificates, registered and patented machines, you can observe once again that we guide our work within the scope of sensitivity and meticulousness.

Our activities, which date back to about half a century, continue to gain different dimensions with our expanded and other metalworking arts.



PRODUSTS



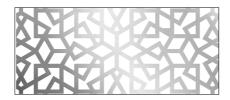
EXPANDED METAL MESH

Expanded metal mesh is a type of metal mesh that is made from a single piece of metal that has been cut and stretched to form a diamond-shaped pattern. It is commonly used in industrial and commercial applications, such as fencing, grilles, shelving, and guards. It is also used in architectural applications, such as decorative separator and wall cladding.



PERFORATED METAL

Perforated metal sheet is a type of metal sheet that has been punched with a pattern of holes. It is commonly used for a variety of applications, including facade, filters, and guards. It is also used in the construction of sound enclosures, ventilation systems, and other architectural elements.



LASER CUT

Laser cut metal is a process of cutting metal using a laser beam. The laser beam is focused on the metal, which is then melted, burned, or vaporized away, leaving a clean cut edge. Laser cut metal is used in a variety of industries, including automotive, aerospace, medical, and industrial manufacturing. It is often used to create intricate shapes and designs, as well as to cut large pieces of metal into smaller parts. Laser cut metal is also used to create custom parts.

APPLICATIONS



FACADE

Expanded and perforated metal is a great choice for facade. It is lightweight, durable, and can be used to create a variety of interesting patterns and designs. It is also easy to install and maintain, making it a great choice for both residential and commercial applications. Expanded metal mesh can be used to create a modern, industrial look, or it can be used to create a more traditional, rustic look. It is also available in a variety of colors and finishes.



SUSPENDED CEILING

Expanded metal ceilings are a popular type of ceiling that is made of a series of interconnected metal panels. The panels are created by expanding a sheet of metal, which creates a pattern of diamond-shaped openings that allow air and light to pass through. This type of ceiling is often used in commercial and industrial buildings due to its durability and low maintenance requirements. It can also be used in residential settings for its modern and industrial aesthetic. Expanded metal ceilings come in a variety of sizes, colors, and finishes, making them a versatile option for a range of projects.



WALKWAYS

Expanded and perforated metal walkways are strong and durable paths made from metal sheets with diamondshaped openings or holes. They're commonly used in outdoor settings such as industrial plants and pedestrian bridges due to their superior strength, slip resistance, and drainage properties. They can be customized to meet project needs and may feature handrails and non-slip surfaces for enhanced safety.



FENCING

Expanded and perforated metal fences are strong and durable fences made from metal sheets with diamondshaped openings or holes. They're commonly used in outdoor settings such as industrial plants and commercial properties due to their strength, visibility, and ventilation properties. They can be customized to meet project needs and may feature security toppings and gate for



BALCONY RAILLING

Metal balustrades are a type of railing system made from metals such as steel or aluminum. They provide safety and support while also adding aesthetic value to a building or space. They can be customized to fit specific design requirements and may feature decorative elements. handrails, and infill panels.



INTERIOR

Architectural interior design is th specialized field of designing functional and aesthetically pleasing interior spaces. It involves creating unique and innovative designs that meet the needs and goals of the client, while considering factors such as budget and building regulations. It can be applied to various settings such as residential, commercial, and hospitality spaces.

MATERIALS

ALUMINIUM

Aluminum is a lightweight and durable metal that is widely used in various industries due to its corrosion resistance, conductivity, and versatility It can be shaped into different forms and is recyclable, making it an environmentally friendly option.

STAINLESS STEEL

Stainless steel is a popular material in architecture due to its strength, durability, and aesthetic appeal. It is commonly used in handrails, cladding, roofing, and other applications. It is versatile, easy to maintain, and can be customized to suit different styles and design requirements.

STEEL

Steel is a strong, durable, and versatile material commonly used in structural applications such as beams, columns, and frames, as well as in cladding and roofing systems. It is cost-effective, easy to maintain, and can be customized with a range of finishes to suit different architectural styles and designmaintain, and can be customized with a range of finishes to suit different architectural styles and design

COR-TEN STEEL

Corten is a weather-resistant steel with a higher level of resistance to atmospheric weathering than ordinary steel. Corten gets an adhesive and protective layer of rust when the panels are exposed to the outside air.

COPPER

Copper is a durable and versatile material commonly used in roofing, cladding, and decorative elements. It is valued for its unique appearance and corrosion resistance, and can be customized with a range of finishes to suit different architectural styles and design requirements.

BRASS

Brass is a durable and versatile material commonly used in architecture and interior design. It has a unique golden appearance and is commonly used in decorative elements and architectural details. Brass is corrosion-resistant and easy to maintain, making it a popular choice for high-traffic areas. It can be customized with a range of finishes to suit different design aesthetics and requirements.

SURFACE TREATMENT

POWDER COATING

Powder coating allows us to apply any desired RAL color to our panels. It is attracted to the surface of the metal because of its static charge, then the material is heated in an oven so that the powder melts and undergoes a chemical reaction. The result is a highly durable outer layer. The layer thicknesses range from a minimum of 60 microns for indoor applications up to 120 microns for outdoor applications. Powder coatings contribute to the desired aesthetic result and can result in a matte, satin or shiny finish.

Powder coated products excel in color fastness and have an extremely resistant top layer. The electrostatic lacquer process produces an optimum adhesive and corrosion-free surface. This ensures a long life and allows for a high degree of processing - even with sawing, drilling, and milling, the finish remains intact. We also offer an antigraffiti coating as an extra option. This top layer prevents graffiti and stickers from attaching to the material.

ANODIZING

Anodizing protects aluminum against corrosion, resulting in a wear-resistant product with an almost unlimited lifespan and minimal maintenance. It won't turn black and is resistant to most chemicals and solvents, yet the appearance of the aluminum is retained.

Anodizing accelerates the aluminum oxidation process, converting the top layer of aluminum to alumina. The thickness of the top layer depends on whether it is to be used inside or outside.

Anodized aluminum can be manufactured naturally in a matte or shine finish, and colours, such as bronze, silver or gold can be added.

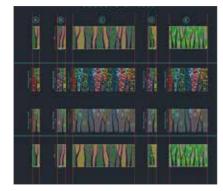
GALVANIZING

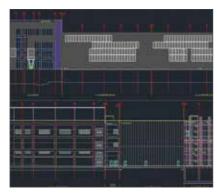
Galvanized steel is protected against erosion and has a very wear - and shock - resistant protective layer. Thermal galvanization provides a thick, even layer all over the panels. Small damage to a depth of about 3 millimetres will not affect the life of galvanized panels.

Thermal galvanizing involves immersing steel in a low-grade liquid zinc at 450 °C. This protects all exterior and inner areas of the structure equally. The steel and zinc bond together to form a galvanized alloy sealed by a layer of pure zinc. Galvanized products are very durable, almost maintenance-free and offer maximum protection at a minimal cost. Galvanized steel can be used outside and can be coated in any colour.



SERVICES







DESIGN

ANB Metal provides unique design services to architects, contractors and project owners in architectural projects that can ensure a successful progress in the projects.

Projects can be completed smoothly with rational designs, taking into account efficiency and cost-effectiveness, which saves costs for your project.

Our well-organized development processes, in addition to providing ease of communication and cooperation, enable the parties involved in the project to anticipate potential risks and defects therefore provide immediate solutions.

ENGINEERING

The engineering team of ANB Metal is one of our powerful departments that provides unique system solutions for complex architectural projects.

This helps to optimize the production stages to provide users with premium metal products and helps them complete safe installations with trouble-free development.

Our customers are diverse, including contractors, architects, designers, engineers and project owners.

ANB Metal, has a wide knowledge of design, engineering, manufacturing and assembly, as well as experience in all aspects of a project. Our engineering team can provide projects with cost-effective solutions to minimize the cost of building keeping high quality standards.

INSTALLATION

Conduct a site assessment and work with the design team to develop detailed plans and specifications. Fabricate the panels to the required dimensions and specifications, then prepare the installation site by ensuring it is clean, level, and free of debris. Install the panels according to the plans using appropriate attachment methods, ensuring that each panel is securely attached and aligned correctly.

Periodically inspect and maintain the panels to ensure they function as intended and remain free of defects. It is important to note that the specific steps for panel installation may vary depending on the project requirements and materials being used, so consult with a professional installer or contractor for guidance and assistance.

MANUFACTURING



CNC BENDING

Bending sheet metal makes it possible to create a wide variety of part geometries. The angle and location of the bend can be precisely controlled, multiple bends can be placed closely in relation to each other and in different directions to create multi-bend shapes, enclosures, brackets and a variety of parts, and normally without any investment in custom tooling. This results in a high level of flexibility to create almost any shape required quickly, especially when paired with ANB Metal laser cutting service.



MEASURING AND CUTTING

The required mesh sizes in both directions are obtained directly in the cutting sections. Angled cutting makes it possible to produce the shapes envisioned in the project drawings. Even in the case of mesh with a module larger than 100 mm, we are able to ensure image integrity. We highly recommend working on half or full mesh to keep this integrity.



MATERIALS & FINISHES

We are able to manufacture expanded metal and perforated metal from aluminum, mild steel, galvanized or stainless steel, titanium, nickel, copper, corten.

We help you determine the best surfaces and colors for indoor or outdoor use. You can choose any surface coatings such as eloxal or powder coating. We manage the finishing of your parts, ensuring an exact match with the color you have chosen.



LASER CUT

As we have invested in high-tech laser cutting methods for fast and precise melting and burning of metals. Using the latest software and engineering technology, our professional team can arrange the tailoring and delivery of your order exactly according to your specifications.



CURVING

Sheets of expanded mesh can be curved to specification, bearing in mind the stiffness of the mesh module. Some of the thinner types of mesh can even.



TRIMS

Panels can be created from expended mesh by adding special borders, which can also be used to fix the panels to the underlying structure.



ROLLS & PANELS

Rolls and panels being available in stock, we are able to produce expanded metal and perforated metal according to customer requirements.



FLATTENING

Certain types of mesh can be "flattened", i.e. completely rolled flat after expansion, thus returning to the original thickness of the raw material.

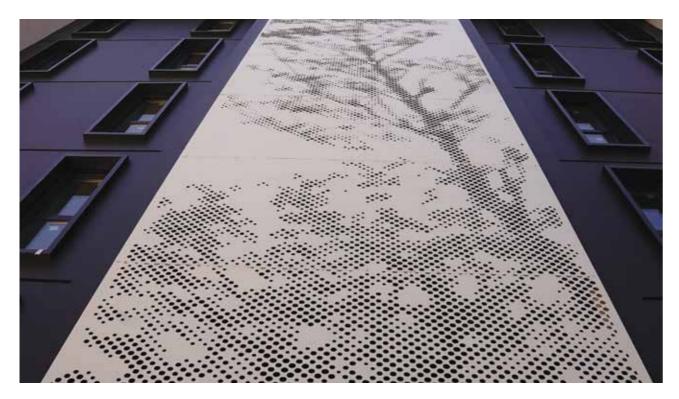


WELDING

We have the ability to efficiently and consistently produce high-quality welding.



MİMARİ DELİKLİ METAL CEPHE KAPLAMA PANELLERİ



Building facades' decoration needs to be increasingly creative and sustainable; simple materials and structures are no longer sufficient to meet aesthetic and high-level architectural demands. Perforated metal panels are an environmentally friendly decorative material that meets the requirements of most modern buildings. Especially when used as a building facade and cladding, it is a product that can combine functionality with aesthetics.

If you are looking for such a material to develop or redesign a building project, then perforated metal panels are definitely a solution you should try.

What are the Advantages of Perforated Metal in Architectural Applications?

- Perforated metal building facades and cladding panels offer not only aesthetic appeal but also many functions and features.
- Perforated metal sheets are lightweight yet strong in terms of strength.
- They are corrosion-resistant to protect buildings from harsh weather conditions.
- Unlimited design and creativity are possible.
- They can be cut to full size, adjusted for modifications, and removable for freedom of change.
- Multiple metal materials are available (stainless steel, steel, aluminum, copper).
- Different colors and coatings for various looks and effects.
- Optimization of ventilation and light transmission by changing the opening area.
- Unlimited hole patterns, sizes, sheet shapes, and sizes.
- Customizable perforated plate sizes and shapes.
- Customized image perforated panels.
- Customized perforated panels with text (brand/logo).
- Customized corrugated perforated panels.
- Creating 3D perforated panels.

For more specific features and design requirements, please feel free to contact us.

WHY YOU SHOUL PREFERE PERFORATED METAL FOR CLADDING?



Protection against excessive heat during the summer months, ensuring a healthy indoor climate.



Scattered sound reflection helps to redirect urban noise emissions.



Glare protection.



Optimal utilization of daylight.



Smart shading solutions that match your overall architectural style, with a wide range of textures, finishes, and colors.



Smart shading solutions



Provides privacy and light to building occupants. Has a noise-reducing effect on road traffic.



It is an environmentally friendly, low-cost building material.

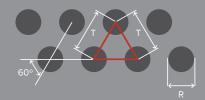


They easily meet all energy-related building standards.

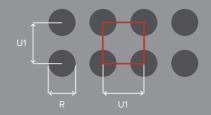
PERFORATED METAL

Hole Arrangement

Round hole arrangement

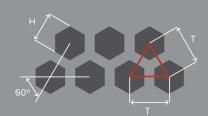


R: Round hole
T: Distance Between center



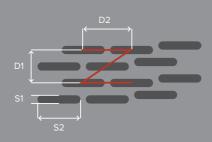
R: Round hole
U1: Distance between cente

Hexagonal hole arrangement



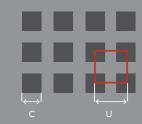
H: Horizontal
T: Distance between center

Slot hole arrangement



- S1: Slot hole
- S2: Distance between center
- D1: Vertical distence between center
- D2: Horizontal distence between center

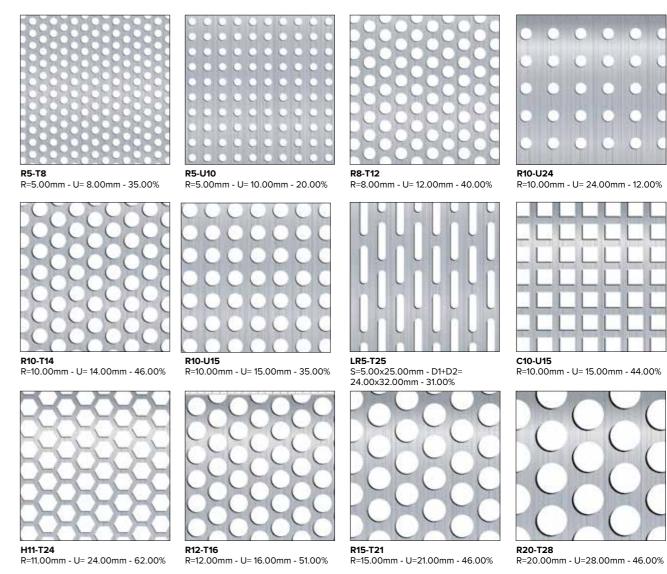
Square hole arrangement



C: Square hole H: Distance between cente

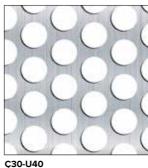
PERFORATED METAL PATTERNS

We have parametric 3D files for all pattern types of perforated metal, allowing you to visually evaluate the perforated metal before you even have it in your hands. Additionally, we provide you with all the basic details of each system in 2D format



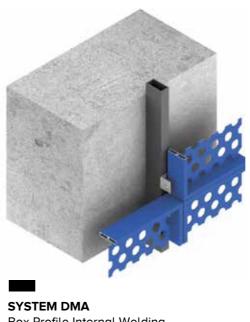


R20-U48 R=20.00mm - U=48.00mm - 13.00%

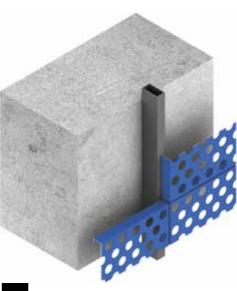


Ç30-U40 R=30.00mm - U=40.00mm - 51.00%

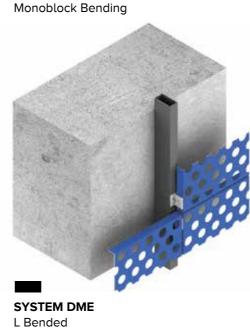




Box Profile Internal Welding

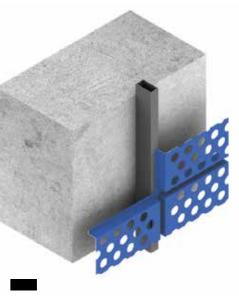


SYSTEM DMC





SYSTEM DMB Box Profile External Welding

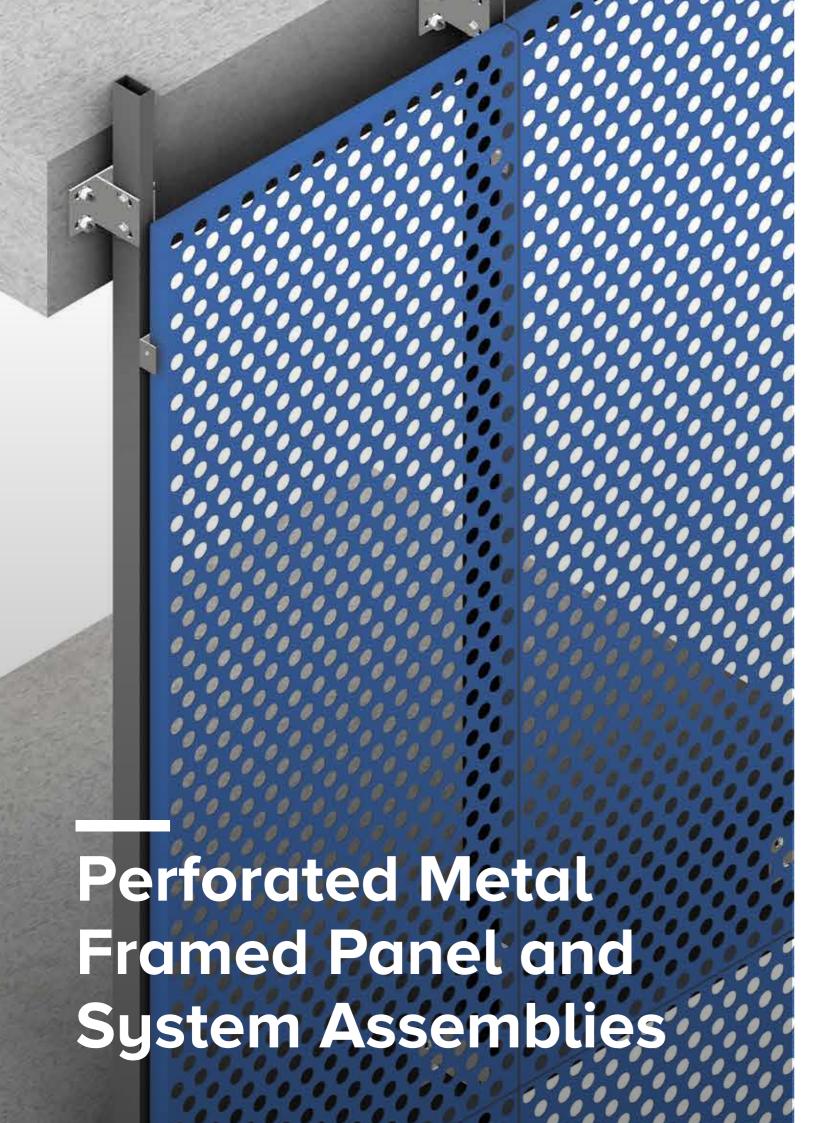


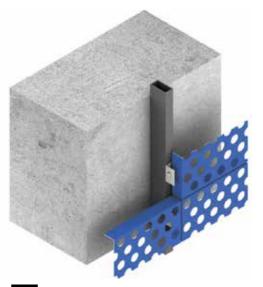
SYSTEM DMD Z External Bending



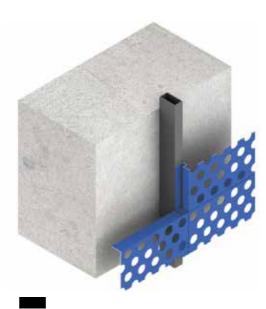
Perforated Metal







SYSTEM DMF
K Detail Bended Panel

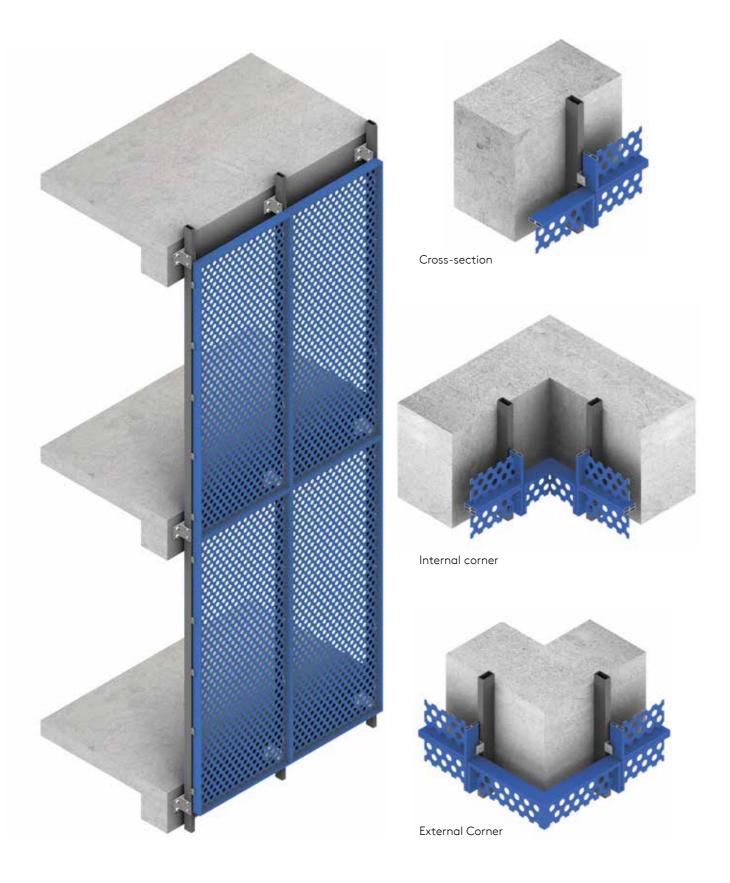


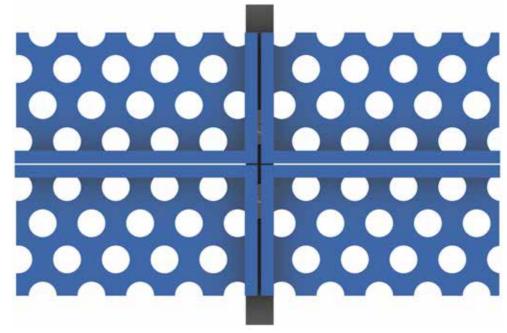
SYSTEM DMG G Bended



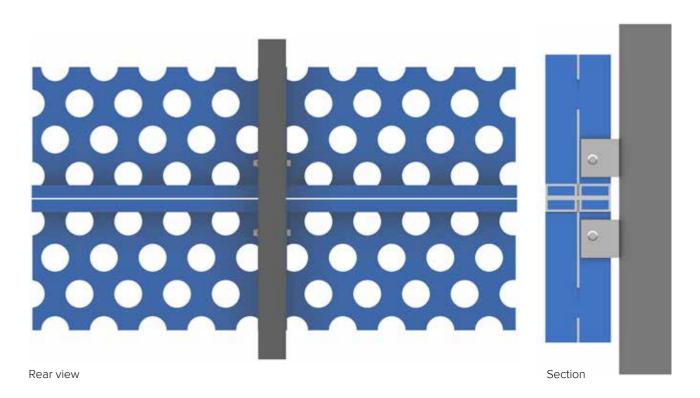


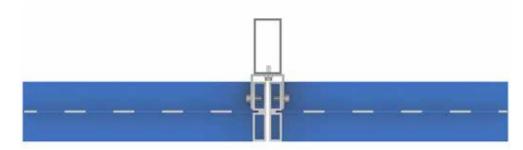
SYSTEM DMA Box Profile Internal Welding











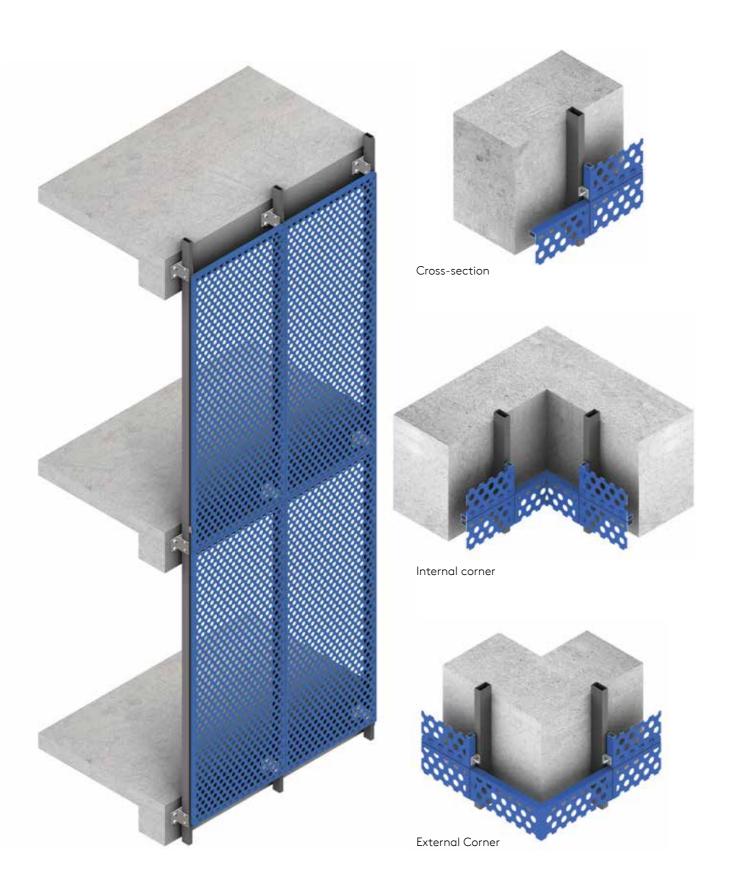
Top view

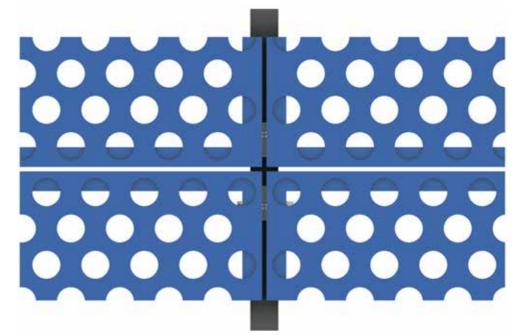
18 | ANB METAL ARCHITECTURAL FACADE SYSTEMS ANB METAL ARCHITECTURAL FACADE SYSTEMS | 19



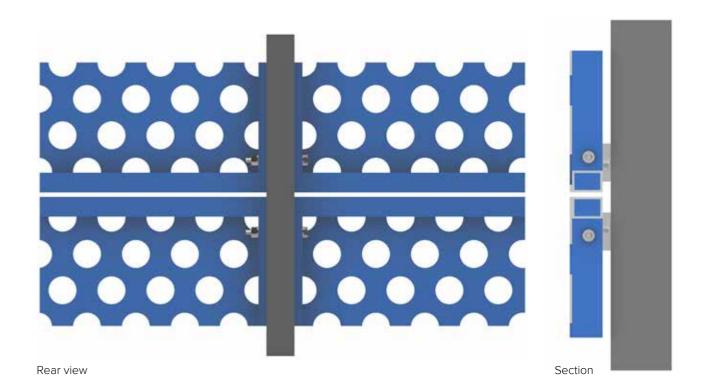


SYSTEM DMBBox Profile External Welding





Front view



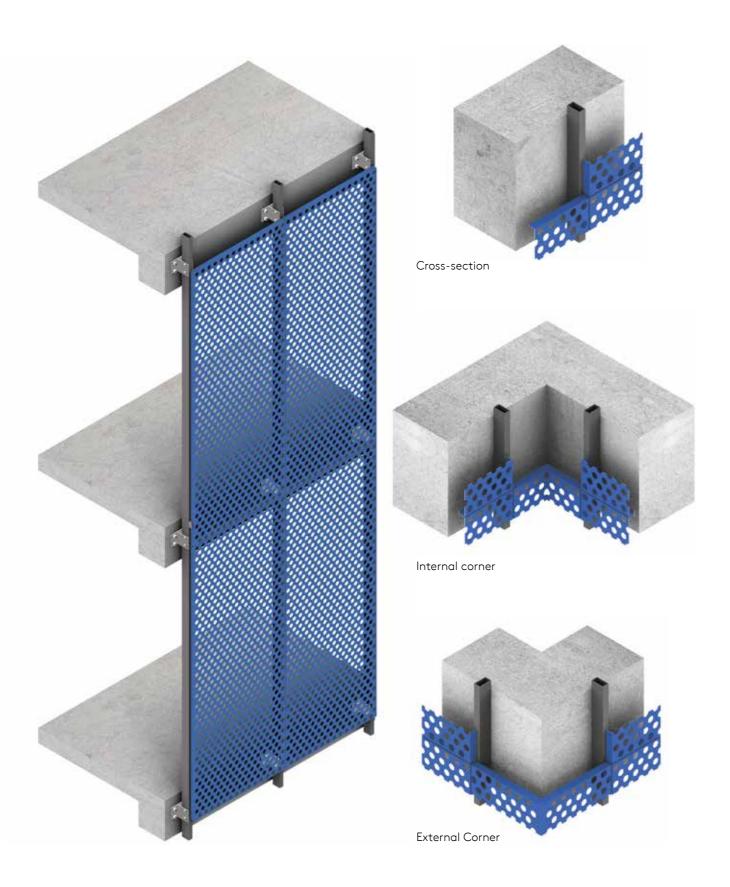


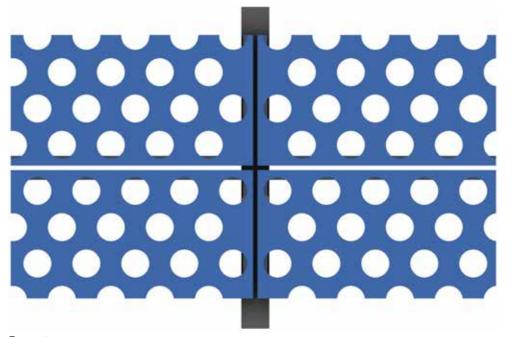
Top view



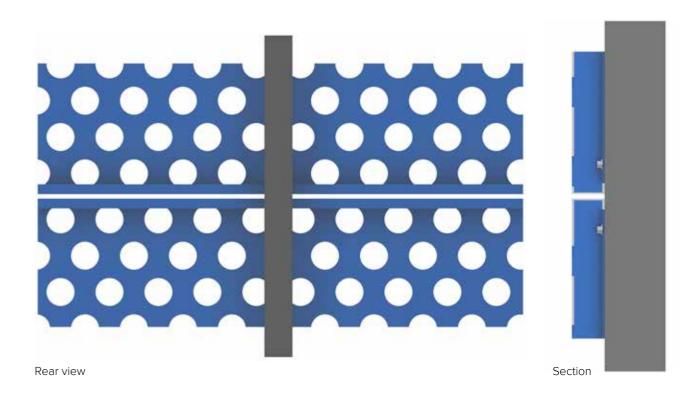


SYSTEM DMC Monoblock Bending





Front view

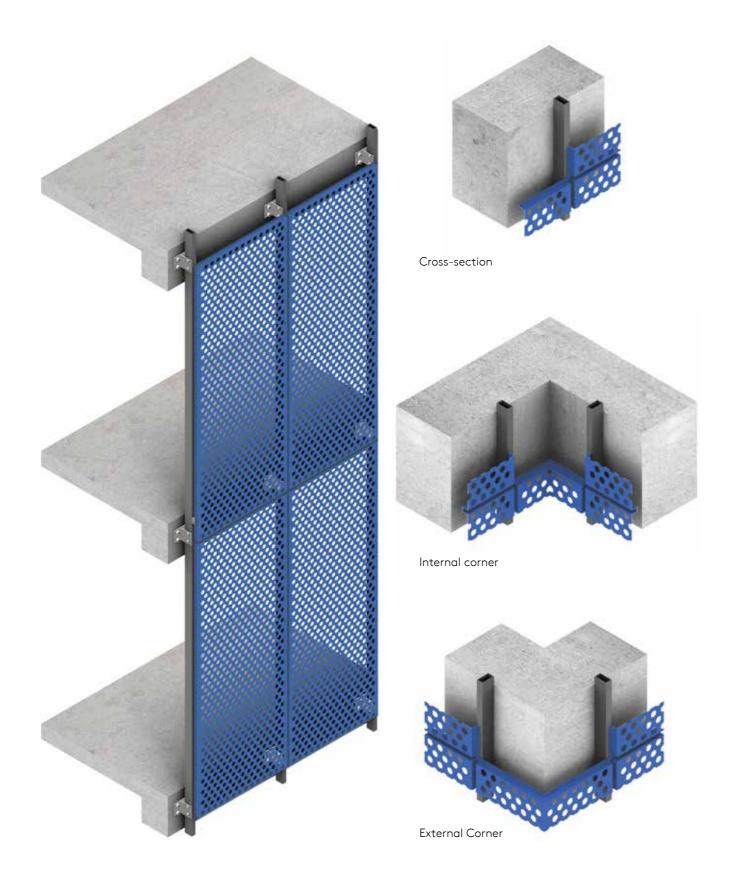


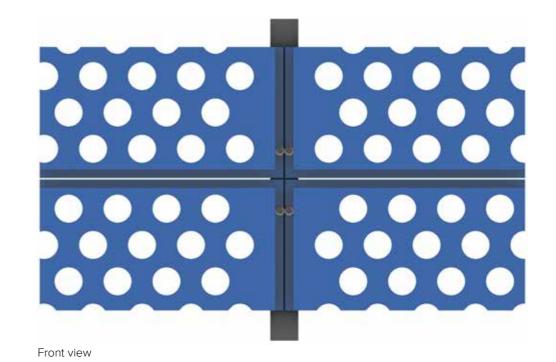
Top view

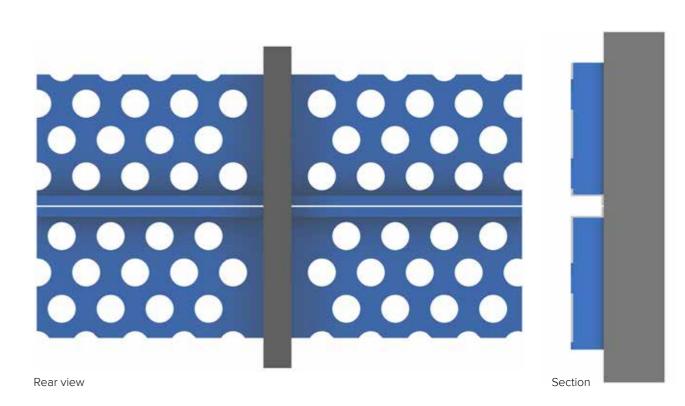


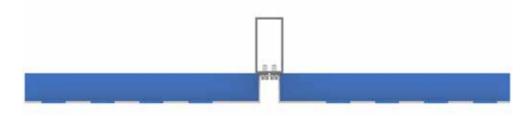


SYSTEM DMD Z External Bending







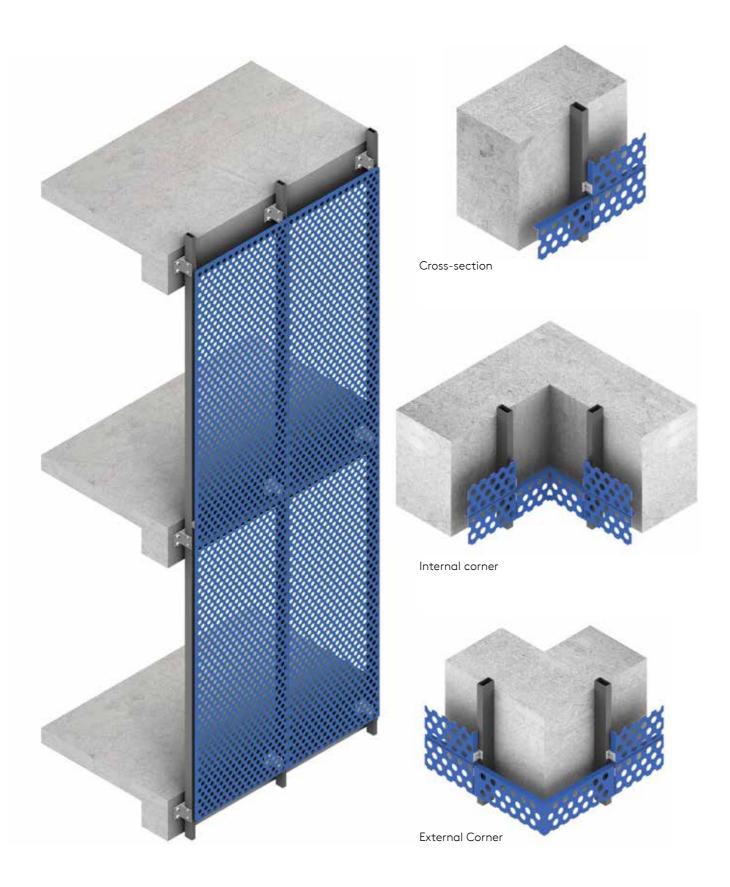


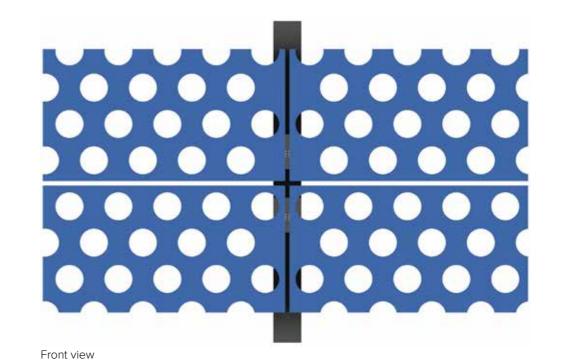
Top view

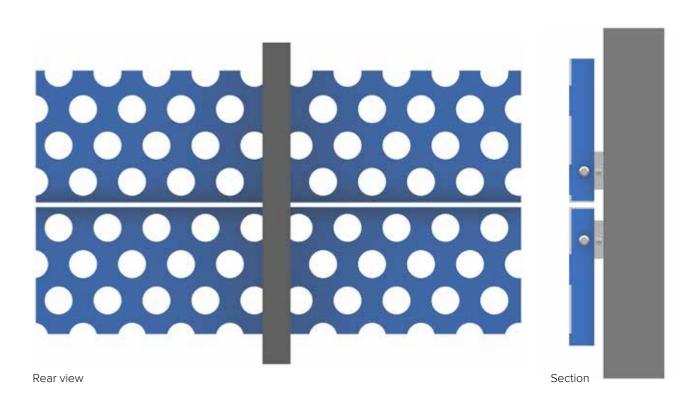




SYSTEM DME L Bended







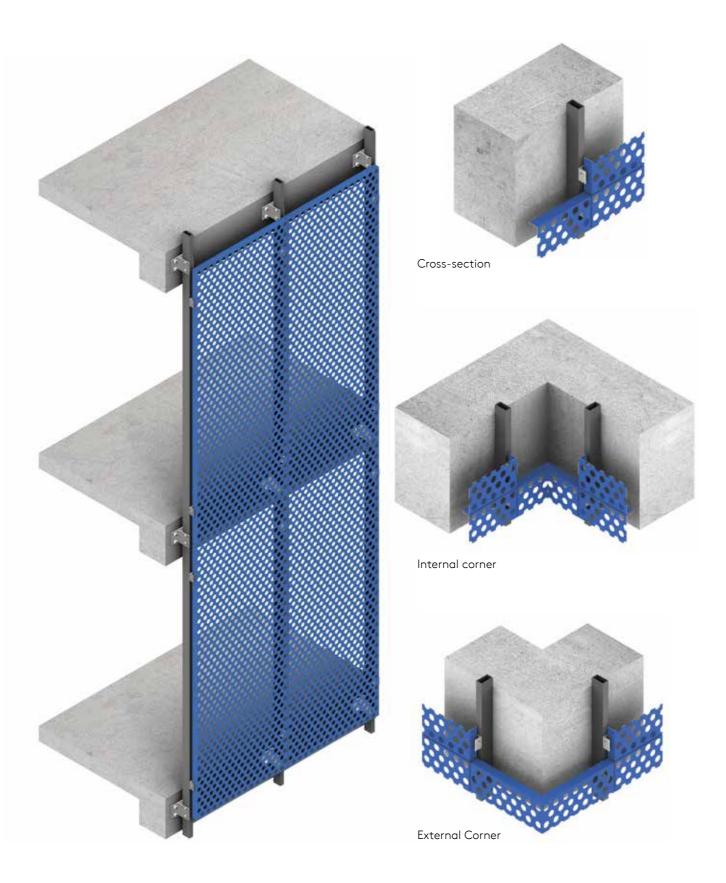


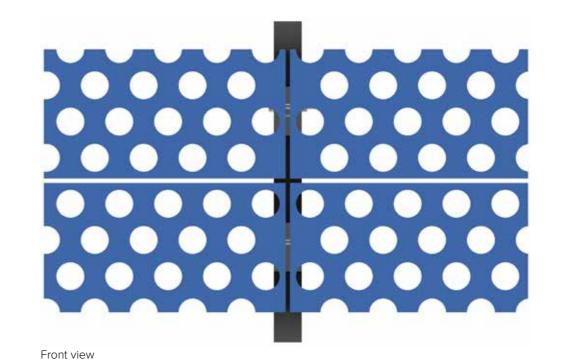
Top view

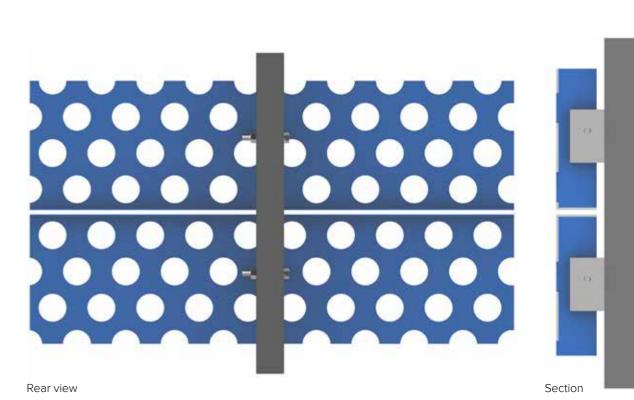


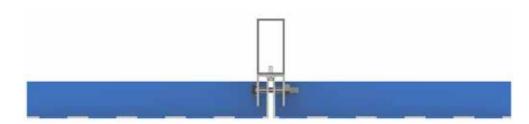


SYSTEM DMF K Detail Bended Panel







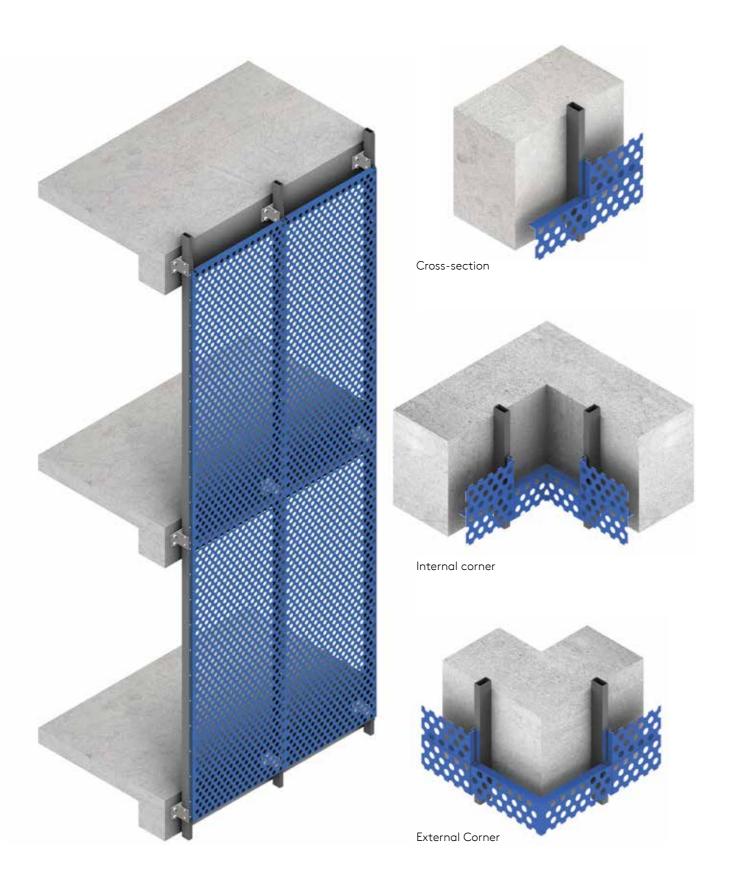


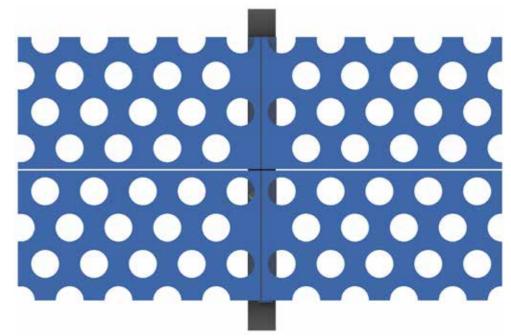
Top view



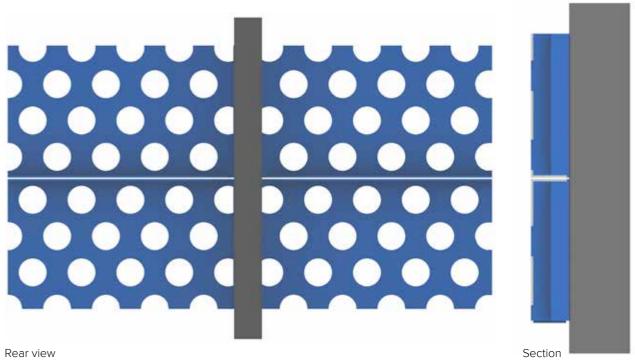


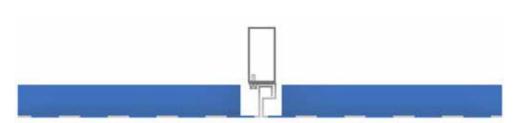
SYSTEM DMG G Bended





Front view





Top view

30 | ANB METAL ARCHITECTURAL FACADE SYSTEMS ANB METAL ARCHITECTURAL FACADE SYSTEMS | 31



CEYLANLAR METAL A.Ş.

Çerkezköy Organize Sanayi Bölgesi 6. Cad. No: 32 59500 Çerkezköy, Tekirdağ / Türkiye

T +90 282 725 05 36 F +90 282 725 35 28

info@ceylanlarmetal.com www.ceylanlarmetal.com