OUR SKY

Certified / Approved by:
Our team of facade experts work on high-calibre projects, delivering innovative building skins that meet both performance and aesthetic requirements. From concept design to implementation, our holistic approach to problem solving enables us to explore ideas outside the realm of conventional facade systems.

Our detail-oriented mindset ensures on-time project delivery, according to technical specifications, in compliance with all relevant regulations, and always within budget constraints.

We provide a blend of German Quality and Global Mentality fully aligned with the cultural and technological needs of the growing global construction industry.

GLASCON GmbH is a German premium Facade Engineering and Contracting company operating globally through subsidiaries and local partners. We offer turn-key facade solutions for creating extraordinary building envelopes.

Our products and services have been certified by TÜV NORD ISO 9001: 2015, the world’s most credible German Notified Body. Our experience since 1999 includes a diverse portfolio of over 250 projects worldwide, designed by renowned architects and consultants including RENZO PIANO, ATLIERS JEAN NOUVEL, LUFTHANSA CONSULTING, HOPKINS ARCHITECTS and SANTIAGO CALATRAVA among others.

Our goal is to provide true end-to-end solutions, tailor-made to our customers’ needs, whether they are the Owner, Developer, Architect, Consultant or Contractor.
With the increasing complexity of buildings, there is a need to accurately validate the design. Before construction phase, our responsibility is to conduct the structural calculations, the thermal performance analysis and ensure the environmental compliance of the delivered façade.

All custom made systems are being tested and certified according to EN and US standards to help the contractor deliver the best value.

Execution optimization is creating new possibilities and allows production execution sequences to be flexible. Third-party supervision is giving more agility to macro and micro processes during the façade installation. This optimization process opens a whole new direction in the way demanding facade projects are executed.
GLASSCON is involved in various facade engineering works of an iconic and landmark project called Stavros Niarchos Foundation Cultural Center (SNFCC). The whole building is designed by the renowned architect RENZO PIANO, while the façade works were managed and supervised by FRONT Façade Consultants. GLASSCON team developed several new products specially designed for this project, including punched windows, skylights, railings, and shade systems. Scope of works included detailed testing, VMUs and PMUs, certification and final product approval for installation.

GLASSCON realized in great success the façade building maintenance unit (BMU) consulting of the roofing as well as several other façade cladding and finishing works for a large scale shopping mall. The roof which covers an internal atrium is made of ETFE AIR CUSHIONED MEMBRANE with a very low self-weight, allowing daylight whilst providing appropriate shading and indoor climate control. The required maintenance ensures durability and prevents leakage issues.
GLASSCON designed, engineered and successfully executed various glass works for the façade of a premium shopping mall and business center. Scope of works included a 25-meter high spider GLASS CURTAIN WALL ENTRANCE, internal and external stainless steel glass railings, balustrades, shopfronts and various finishing works. Most of the glass panes used were tempered-laminated in order to meet safety requirements, whilst all fittings used were made of the highest STAINLESS STEEL grade.
GLASSCON designed, engineered and executed the whole façade works for a spider glass second skin façade at an existing office building. The double skin glass façade is supported by a STEEL STRUCTURE along with 4-way spider glass fittings. The necessary air ventilation is provided with motorized aluminium louvered windows. The glass panes have been processed with silk printing technology to provide the corresponding shading.

GLASSCON developed, fabricated and installed a stunning solar shading system as a building envelope. Our SILK PRINTED GLASS LOUVERS feature six stimulating colors providing 20% transparency and are fitted with special stainless steel IPS 65 ELERO linear actuators. Louvers rotate automatically with remote control to provide lighting guidance, eliminate glare and optimize natural daylight. Perfectly placed to leverage the unique architectural skin, our innovative louvers are set to meet upscale demands.
GLASSCON executed the installation of a curved structural spider glazing façade for Nile University located at Cairo, Egypt. The glass façade is supported by a custom-made STEEL TRUSS SUBSTRUCTURE installed by MERO, along with stainless steel 4-way spider glass fittings. Glass panes are made of tempered safety glass with reflective coating to provide shading while allowing daylight.

GLASSCON designed, engineered and executed the whole façade works for a double skin façade supported by 3D TENSION ROD SYSTEM along with stainless steel pressure bars and 4-way spider glass fittings. The necessary air ventilation is provided with motorized aluminium louvered windows. The glass panes have been colored to different variations in order to meet architectural design requirements.
GLASSCON provided consulting and engineering services for a hospital building façade CLADDING, along with a turnkey solution for a GLASS CANOPY at the entrance of hotel. All cladding is done with natural stones and composite panels, mechanically fixed on an aluminium supporting frame suitable to carry self-weight, wind and snow loads. The glass canopy is fixed to the substructure using premium quality stainless steel spider fittings specially designed according to structural requirements.

GLASSCON developed, fabricated and installed an innovative solar shading system consisting of vertical architectural SOLAR GLASS LOUVERS as a complete building envelope. Glass louvers are installed as interconnected vertical fins supported by custom made stainless steel fittings as a bespoke solution. Shading glass panes are made of fritted tempered glass to allow sunlight whilst blocking glare and provide the required shading.
GLASSCON successfully realized the design, engineering, fabrication and installation of all steel and glass works for a stunning pedestrian bridge project. Scope of works included turnkey solutions for premium balustrades, railings and glass elevator shafts. Working closely with the structural engineers of the project, GLASSCON developed a low weight solution fully compliant with all safety standards applied in bridges and walkways executed with glass.

GLASSCON designed, fabricated and installed an innovative second skin shading system for an eye clinic with movable glass louvers operating fully automated. The glass louvers carry silk printing to create the desired transparency and provide efficient shading. Glass used is tempered and heat soak tested to minimize the risk of spontaneous breakages. The rotation of the glazed louvers is handled by stainless steel German ELERO motors controlled by a fully customizable German WAREMA control unit.
GLASSCON designed, engineered and constructed an inclined frameless illuminated curtain wall with internal shading for an office building complex. The façade is supported by a stainless steel 3D TENSION ROD SYSTEM along with pressure bars and glass clamps. The illumination of the façade is provided through special LED spots installed on the stainless steel clamps, while shading is performed with INTERNAL ROLLER BLINDS.

GLASSCON designed, engineered and executed the complete façade works for an office building, including motorized aluminium louvers, external brise soleil, aluminium composite panel cladding and a structural glass facade. The façade is supported by a stainless steel 3D TENSION ROD SYSTEM along with pressure bars and 4-way spider glass fittings. Large scale motorized aluminium louvers provide shading to fenestration of the top floors, while ground floor openings are shaded with smaller scale aluminium louver solution.
GLASSCON designed, engineered and installed an innovative structural skylight and a set of folding glass doors to create an indoor swimming pool area at a very high-end residence. The glass roof is almost transparent and is supported by GLASS FINS along with stainless steel 4-way spider glass fittings. The glass panes are made of tempered-laminated safety glass, specially coated to provide shading while allowing daylight.

GLASSCON realized a completely custom-made turnkey facade planned by FRONT Facade Consultants, for a boutique hotel located in Israel. The facade has oversized multi laminated glass panels (3.6 x 5.2 m), supported by a bespoke unitized curtain wall system designed from scratch. Glass is structurally bonded to the hidden supporting profiles, allowing maximum transparency whilst meeting all acoustic and thermal requirements. Scope of works included prototyping, final design, testing, VMU’s and PMU’s, certification, supply and installation.
GLASSCON designed, engineered and constructed a bullet proof illuminated structural curtain wall for a bank building. The façade is supported by GLASS FINS with height of 15 meters each one along with mirror polished stainless steel fittings and glass clamps. The illumination of the façade is provided through special LED spots installed on the stainless steel clamps. The glass panes are certified to provide ballistic protection.

GLASSCON is currently realizing the complete façade works for an office tower operating as the headquarters of a bank. Curtain wall applied is a UNITIZED SYSTEM with structural glazing. The challenging façade is completed with stone HONEYCOMB panel cladding to create a modern and sleek design, as well as fixed brise soleil as shading system. Glass panes are made of tempered safety glass with reflective coating to provide shading while allowing daylight.

BANK COMPANY OFFICE TOWER (Under Construction)
GLASSCON designed, engineered and executed the complete façade works for an office building, including aluminium solar shades, cladding, inox meshes and point fixed second skin glass façade. The double skin glass façade is supported by a stainless steel 3D TENSION ROD SYSTEM combined with tension mesh along with pressure bars and 4-way spider glass fittings. The glass panes of the roof have been processed with silk printing technology to provide the corresponding shading. Large scale aluminium louvers provide shading specific parts of the building.

GLASSCON designed, engineered and executed the whole façade works for an existing 5-star luxurious hotel. Scope of works included the installation of CURVED (BENT) GLASS PANELS, various steel structures, atriums, curtain walls, U-PROFILE decorative glass and stainless steel railings. Most of the glazing is supported by STAINLESS STEEL spider glass fittings.
GLASSCON successfully executed various façade works for an international shipping company headquarters building. Apart from the construction of a SPIDER GLASS ATRIUM supported by steel substructure, GLASSCON provided consulting and installation supervision services for building façade. Cladding is done using natural stone blocks, whilst the curtain walling consists of a THERMALLY BROKEN aluminium structural system filled with double glazing units with high thermal performance specifications.

GLASSCON successfully executed the complete façade works for the Presidential Conference Centre located at Brazzaville International Airport of Congo, which was engineered by LUFTHANSA CONSULTING. Façade works include honeycomb shading panels as well as ballistic curtain walls of the highest standards (BR4-BR7), windows, doors and atria. Honeycomb shades are installed as a fixed brise soleil system to ensure optical comfort to the building interior. They carry a wooden finish surface to blend with local architectural design and culture.
GLASSCON designed, engineered and executed the glazing, cladding and shading works of a modern office building facade. All glazing units are made of a premium aluminium system with insulated glass panes of very low U-VALUE and a REFLECTIVE COATING at the outer glass unit. Fire resistant ALUMINIUM COMPOSITE PANELS are used for cladding, whilst in several parts of the façade, a custom designed BRISÉ SOLEIL system is installed in order to optimize daylight and reduce glare in the building interior.

GLASSCON provided consulting and engineering services for an ARCHITECTURAL BUILDING ENVELOPE, along with a turnkey solution for a glass canopy and glass railings at the entrance of the building. All cladding is done with natural stones, mechanically fixed on an aluminium supporting frame suitable to carry self-weight, wind and snow loads. The glass canopy and the glass railings are fixed to the custom made substructures using premium quality STAINLESS STEEL SPIDER FITTINGS.
GLASSCON designed, engineered and executed the complete façade works for an iconic office building, including a structural curtain wall, custom made stainless steel door as well as various aluminium frames. The structural glazing façade is almost 100% transparent as it is supported by GLASS MULLIONS along with 4-way spider glass fittings. Glass mullions are made of tempered-laminated safety glass and are connected via stainless steel joints and silicone gaskets.

5-STAR HILTON HOTEL BUILDING FACADES - TENSION ROD SPIDER GLASS

GLASSCON designed, engineered and constructed an innovative glass envelope for a staircase at a luxurious hotel. The height of this enclosure is over 12 meters. The spider glass curtain wall and roof are supported by a suspended stainless steel 3D TENSION ROD & CABLE SYSTEM along with stainless steel pressure bars and 4-way spider glass fittings. The glass panes of the roof have been processed with silk printing technology to provide the corresponding solar shading.
GLASSCON designed, engineered and successfully executed various glass works for the façade of a residential and office building complex located in Sofia, Bulgaria. Scope of works included all engineering for the curtain walling, windows and doors, shading systems, spider glass constructions, balustrades and various finishing works. Most of the glass panes used were TEMPERED-LAMINATED in order to meet safety requirements, whilst all fittings used were made of the highest STAINLESS STEEL grade.

GLASSCON designed, engineered and constructed a fully motorized external shading system with ALUMINIUM AIRFOILS for a telecommunications office building. The selected material has an aero blade shape and is certified for its rigidity and durability. According to the solar shading study results, the whole façade had to be totally shaded. The elliptical shape aero foils are grouped and rotated by stainless steel IP65 ELERO motors, controlled by the building BEMS according to sun position and desired shading effect. The whole system is fully programmable through BUS connection using WAREMA Climatronic software.
GLASSCON realized the energy efficiency study for the complete BUILDING ENVELOPE of an international tool headquarters building and also implemented several glass and shading systems helping energy savings. All glass used is insulated with excellent thermal properties, whilst all glazed areas are sun protected with separate automatic OUTDOOR VENETIAN BLINDS, operating with electrical motors fully controllable by an individual or by the central BEMS unit.

GLASSCON designed, engineered and installed an innovative structural glass atrium at a shopping mall. The glass canopy covers a surface of 1,650 square meters and is supported by STEEL SUBSTRUCTURE along with stainless steel 4-way spider fittings. Glass panes are made of tempered-laminated safety glass, specially tinted to provide shading while allowing daylight.
GLASSCON designed, engineered and constructed a brise soleil cantilever system for a country house with integrated FIXED ALUMINIUM BLADES. After comprehensive shading study, the selected system allows undisturbed view from the interior of the building, whilst providing efficient shading. Cantilever width and inclination, as well as louver density is carefully selected to allow sunlight and heat gains during winter, but block summer sun and provide the required shading.

GLASSCON designed, engineered and executed the whole façade works of the Department of Business & Technology building located at Baneasa, Romania. Scope of works included eight structural curtain wall systems of 32 meters height each one and ceramic clay tiles cladding. The façade is supported by a stainless steel 3D TENSION ROD SYSTEM combined with struts along with pressure bars and 4-way spider glass fittings.
GLASSCON designed, engineered and constructed a frameless illuminated curtain wall of a total height of 25 meters for a new office building. The façade is supported by a grid of stainless steel tensioned CABLES along with custom made LED glass clamps. Structural calculations according to EC1 led to a cross section cable of Ø22mm thickness, pre-tensioned to 90kN horizontally and 43kN vertically.

GLASSCON was awarded the design of a structural glass entrance lobby bridging two existing historical buildings owned by the Hungarian Academy of Arts (MMA). The project entails the design of two glass facades with a continuous glass roof providing complete air tightness and waterproofing to the atrium. The structural support system is a glass fin beam system based on continuous as one piece multi laminated glass fin beam. Overall, the façade spans from ground level +0.00 up to 11.86.
GLASSCON realized various façade works including the post tender façade engineering of a high rise building unitized curtain wall, as well as a cafeteria RETRACTABLE glass roof installation, located at Jakarta, Indonesia. The installed retractable roof is made of aluminium profile rails, filled with insulated double glass panes specially coated to provide daylight and reduce solar gains.

GLASSCON successfully designed, fabricated and installed a building envelope for a German Embassy building, which includes external STAINLESS STEEL & GLASS RAILS. All fittings and rails are made of high quality 316L mirror polished stainless steel. Glass rails are made of tempered-laminated safety glass, which has been processed with silk printing technology to meet architectural requirements and provide a unique design.
GLASSCON successfully designed, fabricated and installed a spider glass curtain wall for a SMEG front shop. The façade is supported by custom made horizontal STEEL TRUSSES, co-developed with the project architect. Glass panes are attached to the truss via 316L stainless steel 4-way spider fittings. Glass panes are made of monolithic tempered glass and heat soaked to minimize the risk of spontaneous breakages.

GLASSCON designed, engineered and executed the complete façade works for an office building, including aluminium louvers, stone cladding and an inclined curtain wall. The structural glazing façade is supported by a stainless steel 3D TENSION ROD SYSTEM along with pressure bars and 4-way spider glass fittings. The glass panes are certified for sound proofing, as well as processed with silk printing technology to provide the corresponding shading.
GLASSCON designed, engineered and installed a completely air and water tight movable glass roof as a pool enclosure, as well as a MINIMAL AWNING shading system, for a high end villa. The thermal broken aluminium profiles are filled with antivandal insulated DGU. The motorized operation of the enclosure handled by linear actuators of the highest standards. The shading system uses STAINLESS STEEL ROPEs and is completely remote controlled. Extra security is achieved by a stainless steel mesh installed as top coverage.

GLASSCON designed, engineered and executed various façade works for a shopping mall, including curtain walls, HPL and glass cladding, glass railings, ELEVATOR SHAFTS, as well as a bent spider glass façade. The glass panes vary according to the application, including tempered-laminated, curved, fritted, silk printed, with different colors and coatings. All solutions applied are covering ca. 6,500 square meters.
ILLUMINATED FACADE, U-GLASS & PERFORATED METAL CLADDING

GLASSCON designed, engineered and constructed a complete illuminated glass façade of a modern pharmacy, including metal sheet cladding, thermal insulated double glazing unit and U-SHAPED GLASS profiles installation using high quality point fixed stainless steel fittings. Insulated glass meets the highest thermal performance standards. U-shaped glass profile reaches a length up to 7 meters and is illuminated via integrated LED stripes. Building cladding was completed with custom made aluminium perforated sheets of a unique pattern, in order to meet architectural requirements.

ORES HEADQUARTERS BUILDING SKIN (CHARLEROI / BELGIUM)

GLASSCON designed and built the architectural skin for the new headquarters of ORES in Belgium. It consists of a bespoke shading system (brise soleil) with large-scale fixed vertical shades and cladding boards. Both systems utilize external grade HPL boards with a wooden grain finish. The shading control devices are made of structural steel. Fixing to the primary building structure includes heavy-duty custom-made brackets, allowing deflection and movements in every direction.
GLASSCON designed, developed and installed an external architectural motorized HPL SOLAR LOUVERS with a wood finish. The selected certified material is extremely weather and UV resistant, making it a low maintenance eco-friendly solution for outdoor small scale residential shading applications. The timber alike sunshades are rotated through a central pivot, handled by stainless steel IRIS ELERO linear actuators. The whole system is fully programmable through BUS connection using WAREMA control units.

GLASSCON was involved in the rehabilitation works of an office building complex, including the design, engineering, fabrication and installation of an architectural second skin which contributed the most to building’s LEED Gold certification. The kinetic solar shading system combines solar gain and daylight control with enhanced visual appeal. The building skin includes a custom-made system of electrically operated rotating louvres integrated into a grid canvas structure covering a surface of 2500m² in a chessboard pattern that gives the building a unified, powerful identity.
GLASSCON successfully executed the complete façade works for the Business Center Cosmos Shopping Mall. Our design, engineering and installation services include all glazing, glass and stainless steel railings, roofing, exterior stone cladding, as well as a special FIRE-RATED CURTAIN WALL system.

GLASSCON designed, engineered and successfully executed the complete set of façade and INTERNAL GLASS WORKS for a shopping mall and car museum. Scope of works included external cladding, internal and external stainless steel glass railings, balustrades, SHOPFRONTS, walkways, glass floors and various finishing works. Most of the glass panes used were tempered-laminated in order to meet safety requirements, whilst all fittings used were made of the highest stainless steel grade.
GLASSCON designed, fabricated and installed a spider glass shop front for a large retail shop. The façade is supported by custom made vertical steel trusses, co-developed with the project architect. Glass panes are attached to the trusses via 316L stainless steel 4-way spider fittings. Glass panes are made of monolithic tempered glass and heat soak tested to minimize the risk of spontaneous breakages.

GLASSCON successfully realized the design, engineering, fabrication and installation of various steel and glass works for the SANTIAGO CALATRAVA OLYMPIC PARK. Scope of works included turnkey solutions for balustrades, steel and glass railings, walkways and glass shafts. Working closely with the architects and structural engineers of the project, GLASSCON developed custom made solutions fully compliant with all safety standards applied in all public spaces containing glass structures.
GLASSCON designed, engineered and executed various façade works for a mid-rise office building, including marble honeycomb cladding, internal HPL cladding and a second skin glass façade. The double skin glass façade is supported by STEEL TRUSS SUBSTRUCTURE along with stainless steel 4-way spider glass fittings. The glass panes are extra clear to provide complete transparency, while air ventilation is achieved with waterproof glass MOTORIZED LOUVERED ROOF WINDOWS. Lightweight and rigid honeycomb composite panels complete the cladding of the façade.

GLASSCON executed the energy efficiency study and all structural for the complete BUILDING ENVELOPE of an office complex and also implemented several cladding and shading systems helping energy savings. All cladding materials used are energy efficient to maximize buildings energy performance. All glazed areas are sun protected with separate small scale ALUMINUM SHADING SYSTEMS (outdoor venetian blinds), with fully MOTORIZED operation paired to BEMS control unit.

AKTOR GENERAL CONTRACTOR - HQ BUILDING FACADE

OFFICE BUILDING SKIN
GLASSCON successfully executed various façade works for an international exhibition center building. Apart from the construction of a STRUCTURAL GLAZING entrance with spider fittings fixed on trusses substructure, GLASSCON provided consulting and installation supervision services for the rest of the building façade. All CLADDING is a mix of aluminium composite panels and colored glass panels, mechanically fixed on a supporting frame substructure, suitable to carry all structural loads.

GLASSCON designed, engineered and executed various glazing applications works for a planetarium project, including SCHÜCO curtain walls, as well as glass floors, walkways and bridges of a total area of 6,650 square meters. The glass panes vary according to the application, including triple layer laminated, ANTI-Slip fritted and silk printed, with different colors and coatings.