



Novum Structures | Systems





AES

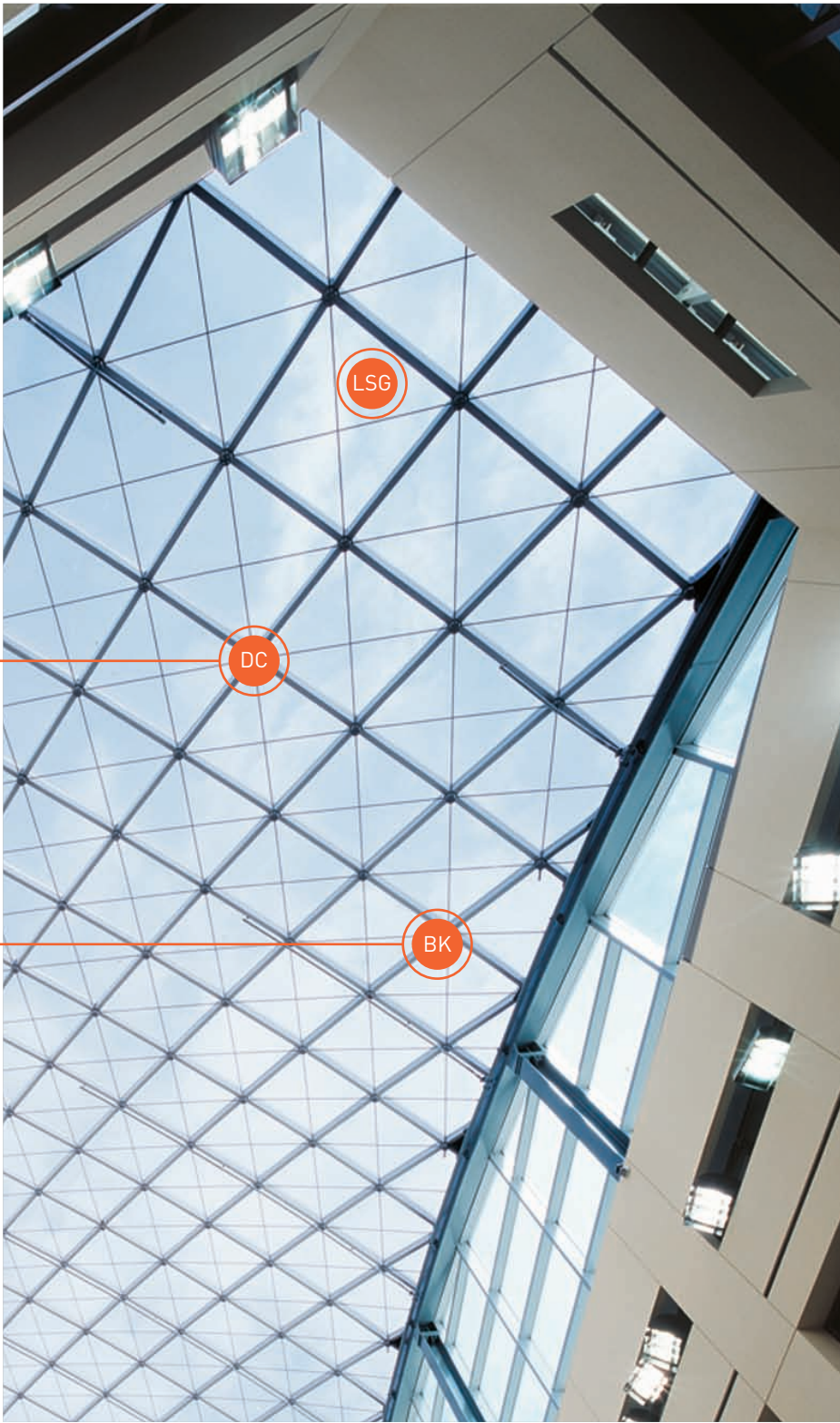
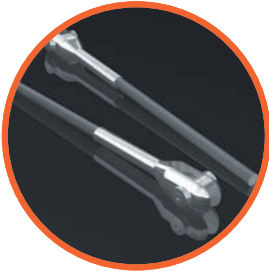
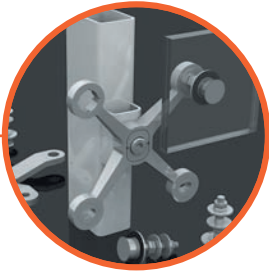
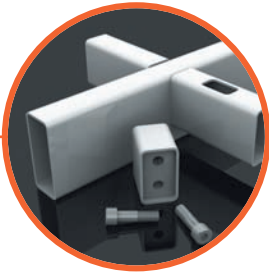
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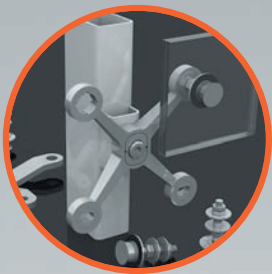
BB

PSG

**Custom Design from
Standard Systems**

Novum has a unique offering of interchangeable system products, plus the technical ability to customize for virtually any design. We proactively satisfy specific project needs, not simply sell product. Specialty projects occur in all shapes and markets, and our team has executed thousands of projects in all geometric forms, sizes and complexities in over 30 countries. Quality and client satisfaction are top priority.





design

Systems Benefits

- Custom from Standard
- Wide range and choice of aesthetics
- Cost and schedule effectiveness
- Proven performance and reliability of Systems
- Automation in design, details and production
- Design and Engineering Flexibility
- Key components are inventoried
- Lightweight. Reduced transportation cost
- Fast delivery
- Mechanical fastening on site
- Quicker assembly, good repetition
- Reduced field testing
- Excellent quality and tolerance control
- Easy integration with purely custom elements and commodities

TR

PSG

time price

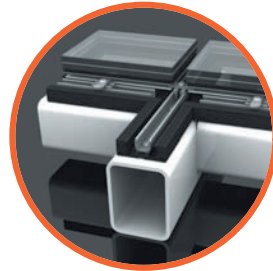
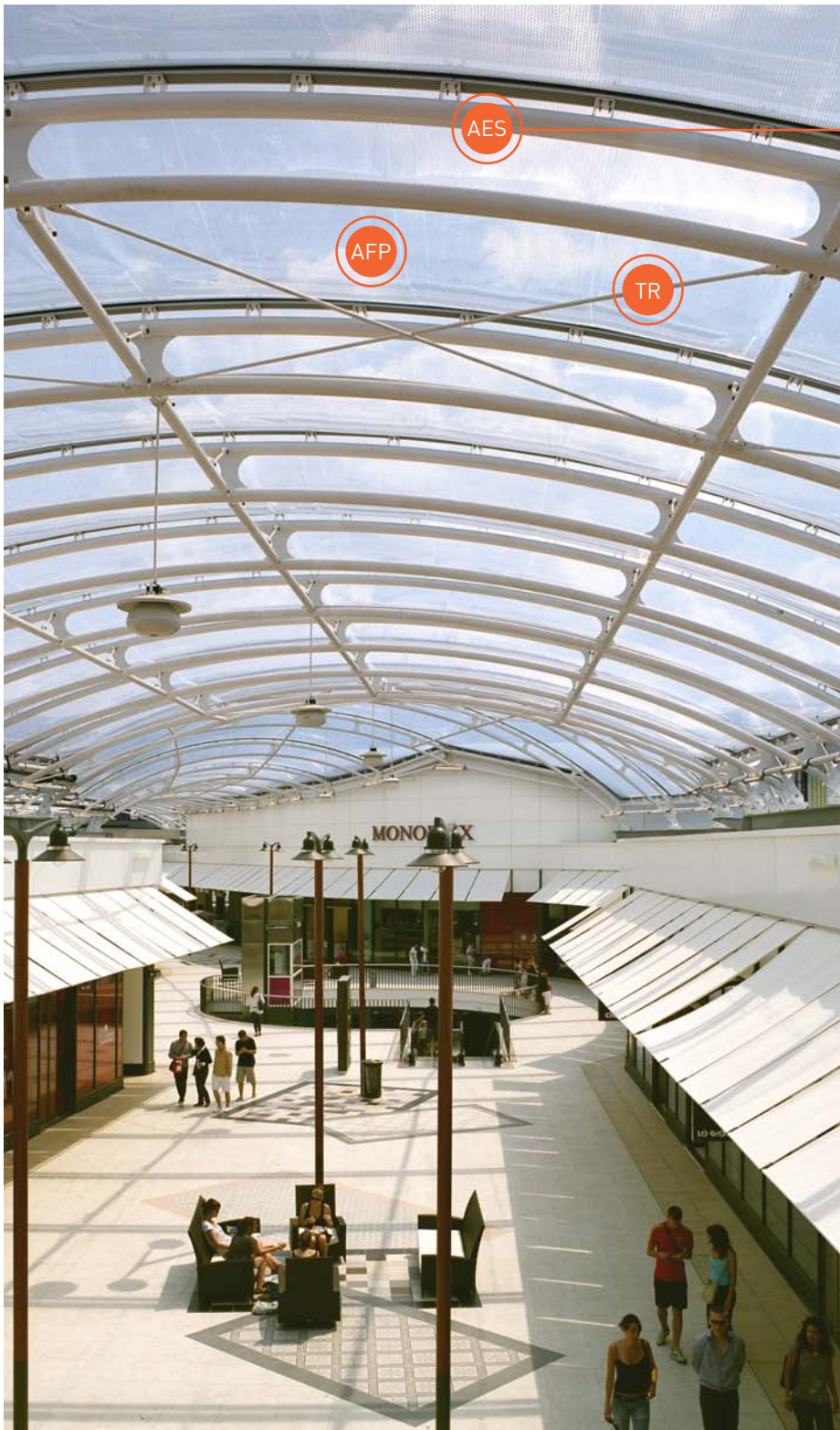
Project Driven and Single - Source

Novum is a project, not product driven, specialty contractor for architectural structures and integrated cladding. At an early stage of design development, we recommend the appropriate solutions and product combinations to meet key client requirements, which are inevitably a balance of **design, time** and **price**.

Our philosophy is to provide value and solutions to specialty applications that occur in the market between totally custom and pure commodity. Novum satisfies client demand for single-source responsibility of design through construction turnover. We engineer, fabricate and then install custom projects using

a variety of intelligently conceived and compatible structural, glazing and membrane systems. The comprehensive product range allows us to satisfy a broad spectrum of aesthetics and project price points. Comprehending details and interfaces early is critical to project cost and functional success; we excel in that arena.

Novum project manages and engineers all our projects and our facilities manufacture a significant portion of each project we build. This means budgets are meaningful, schedules are realistic and quality is assured.



Structures + Glazing + Membranes

Novum produces structural systems for architectural steelwork, free form, cables, tension rods, space frames and structural glass solutions. Our glazing systems adapt for overhead and vertical applications and attach via point, edge, corner, linear and conventional aluminum methods. We also execute glazed stairs and walkways.



We manufacture membrane systems for air filled pillows, single skins and tensioned fabrics using ETFE, PTFE and PVC materials.

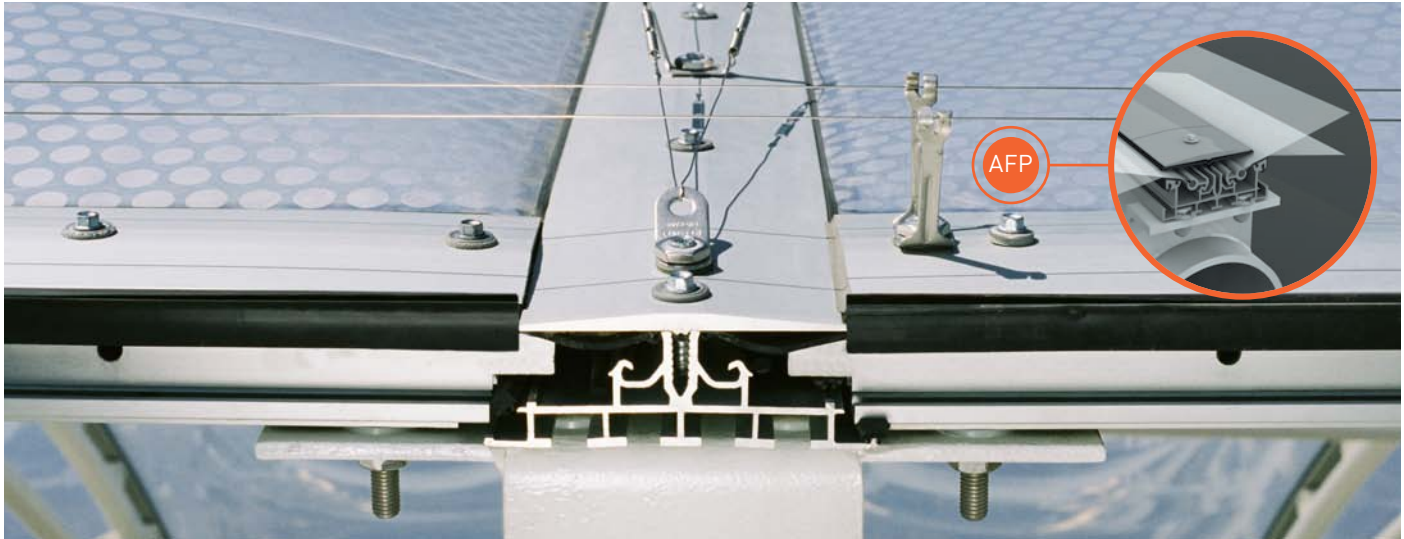
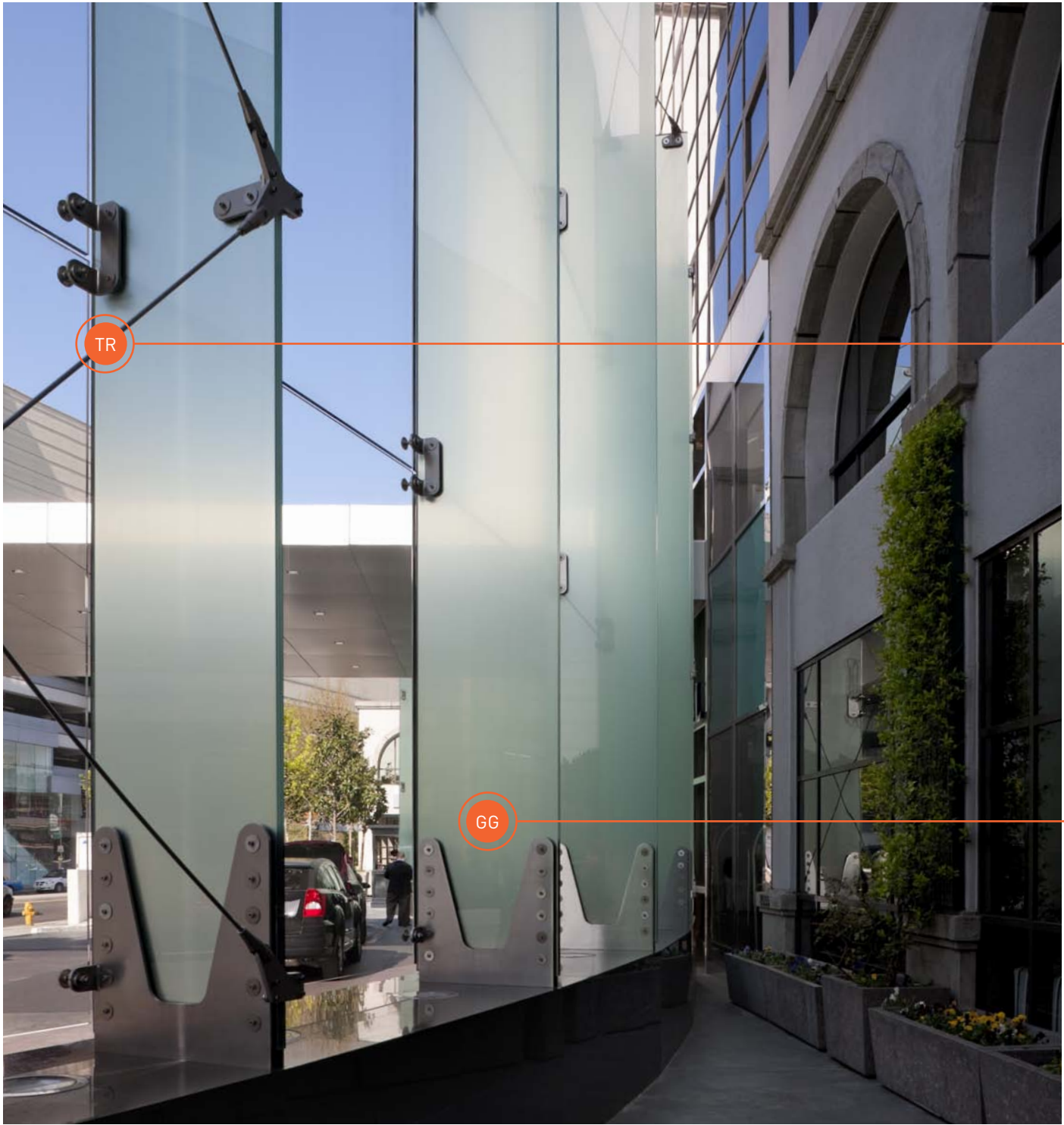


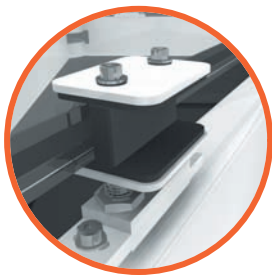
WSG

AES

LSG

TR





Designing with Systems

Virtually every Novum project adopts a blend of our systems with custom elements. This approach brings all the benefits of experience and repetition. It is common to use several systems in a single architectural application. Our technical teams creatively combine systems and don't subscribe to the belief that custom means inventing from scratch or being relegated to commodity approaches. Novum enjoys working collaboratively with designers, owners and contractors to create optimal solutions.





AES-System

Architecturally Exposed Steel

Mechanically fastened custom precision steelwork of the finest quality. Novum concepts embody minimal site use of welding and finishing.



BB-System

Beam to Beam

A systemic approach for elegant, mechanically connecting beams to form highly efficient three dimensional structures without nodes.



BK-System

Block Knoten

A nodal system for single layer curved structures, which for longer spans, can easily be transformed into a grid shell or double layer structure.



FF-System

Free Form

The unique bolted bending, stiff connection system for connecting beams that collectively form single layer, free surface geometries.



GG-System

Glass to Glass

A structural system where glass is used as the primary structural element and also functions as the enclosure.



KK-System

Kugel Knoten

The classic space frame system for double layer grids of free geometry and long spans with a very economical strength to weight ratio.



DC-System

Disc Clamp

An accessory system for the very elegant and lightweight tension stiffening of grids comprised of other Novum structural systems.



TC-System

Tension Cable

Fully engineered cables for architectural applications, in stainless or galvanized strand, complete with pre-stress methodology.

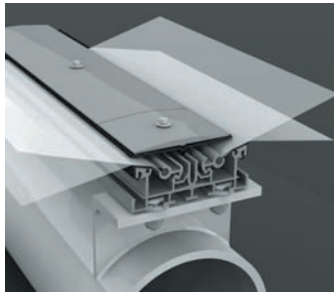


TR-System

Tension Rod

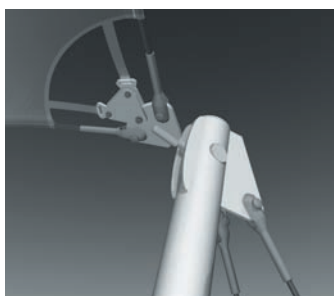
Attractive, pre-engineered stainless steel tension rod system has a variety of sizes, capacities and finishes.

Membrane Systems



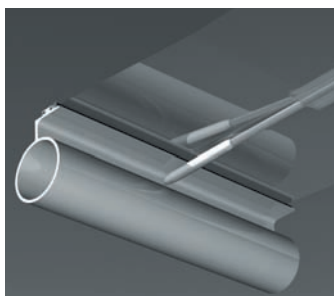
AFP-System **Air Filled Pillow**

Uniquely shaped air filled pillows, with a fully integrated perimeter, create a highly efficient and economical panel system.



CTF-System **Cable Tensioned Fabric**

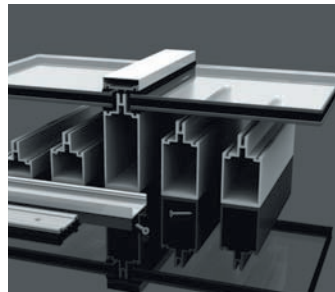
Multiple materials are available to create free form surfaces by the biaxial tensioning of a single layer of fabric.



SSM-System **Stressed Skin Membrane**

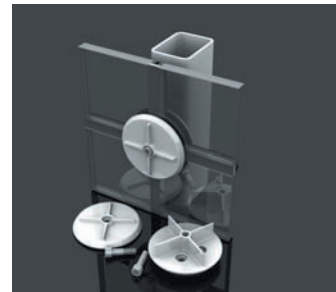
A single layer membrane is post tensioned and discreetly supported by thin, lightweight cables.

Glazing Systems



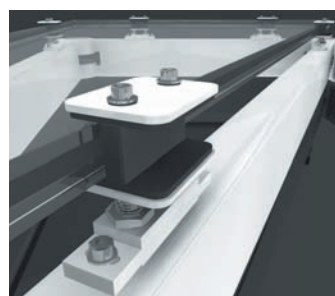
ASG-System **Aluminum Supported Glass**

A traditional aluminum framing system which economically captures all varieties of glass cladding with optional capping.



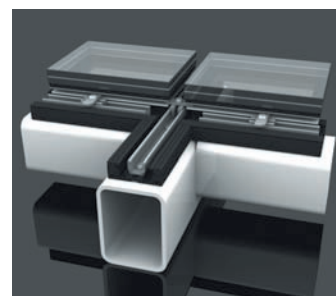
CCG-System **Corner Clamped Glass**

Cast clamps capture structural glazing panels, at their corners only, allowing great transparency and expression.



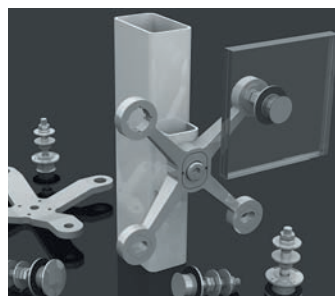
ECG-System **Edge Clamped Glass**

An optimized and economic system which supports glass panel edges, only as required, and is ideally suited to glazing any surface geometry.



LSG-System **Linear Supported Glass**

A nominal depth glazing system developed to attach glass directly to high precision primary structures comprised of Novum products.



PSG-System **Point Supported Glass**

The ultimate structural glazing technology with a broad range of complementary and well engineered accessories.



WSG-System **Walkway Surface Glass**

Highly engineered Novum glass system products for walkway surfaces and stairs.



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TC

AES

SSM



Novum Structures

Novum Structures is a leading international specialty contractor focused exclusively on the design, engineering, fabrication, supply and installation of technically driven architectural structures and integrated cladding.

With international resources and a proven history of both creating and building highly innovative projects with top quality engineering, materials and craftsmanship, Novum has established an excellent reputation for delivering customer satisfaction on projects of all sizes to leading architects and contractors.

novumstructures.com