SCHÜCO

FREEFORM FAÇADE

Schüco Grid**2**Shell

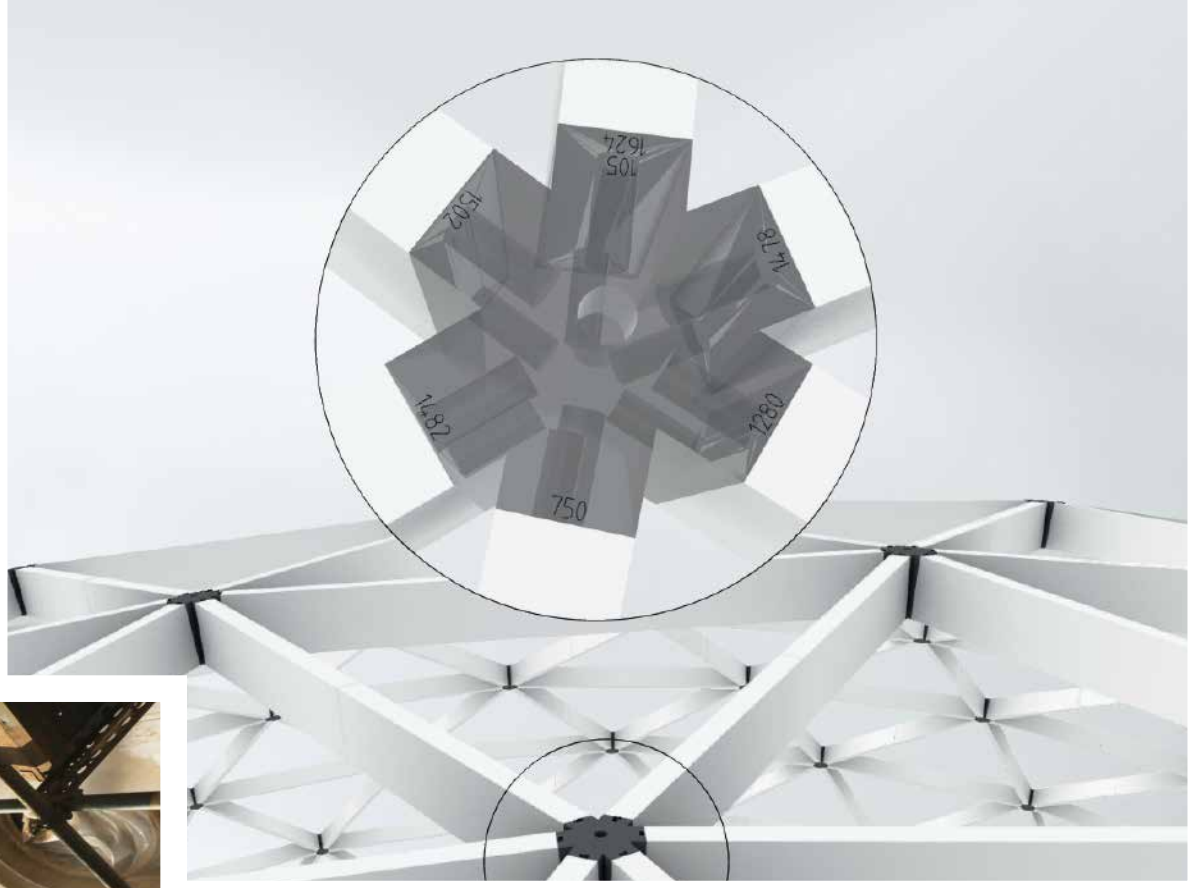
SELF-SUPPORTING ALUMINIUM/ GLASS CONSTRUCTION WITH A HIGH DEGREE OF DESIGN FREEDOM

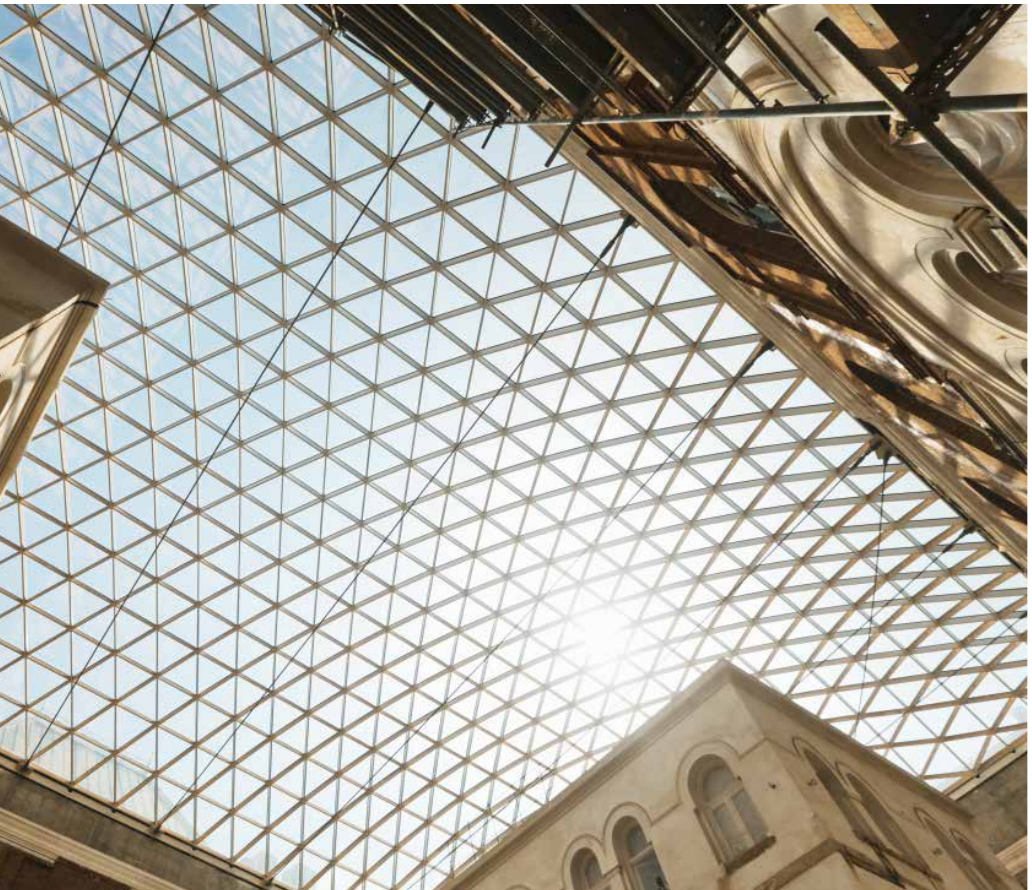
Schüco Grid2Shell offers maximum design freedom and simplified planning. The self-supporting aluminium/glass construction can be used as a curtain wall or skylight, depending on the project.

Depending on the desired surface geometry, square, polygonal or triangular module units can be used to create individual shapes on the building envelope, as well as skylights with large spans.
The option to have the vertical façade plane transition into the roof gives rise to particularly unique building shapes.

INTERIOR DESIGN

For the individual surface finish on the load-bearing profiles and joint nodes you can select between different coatings.



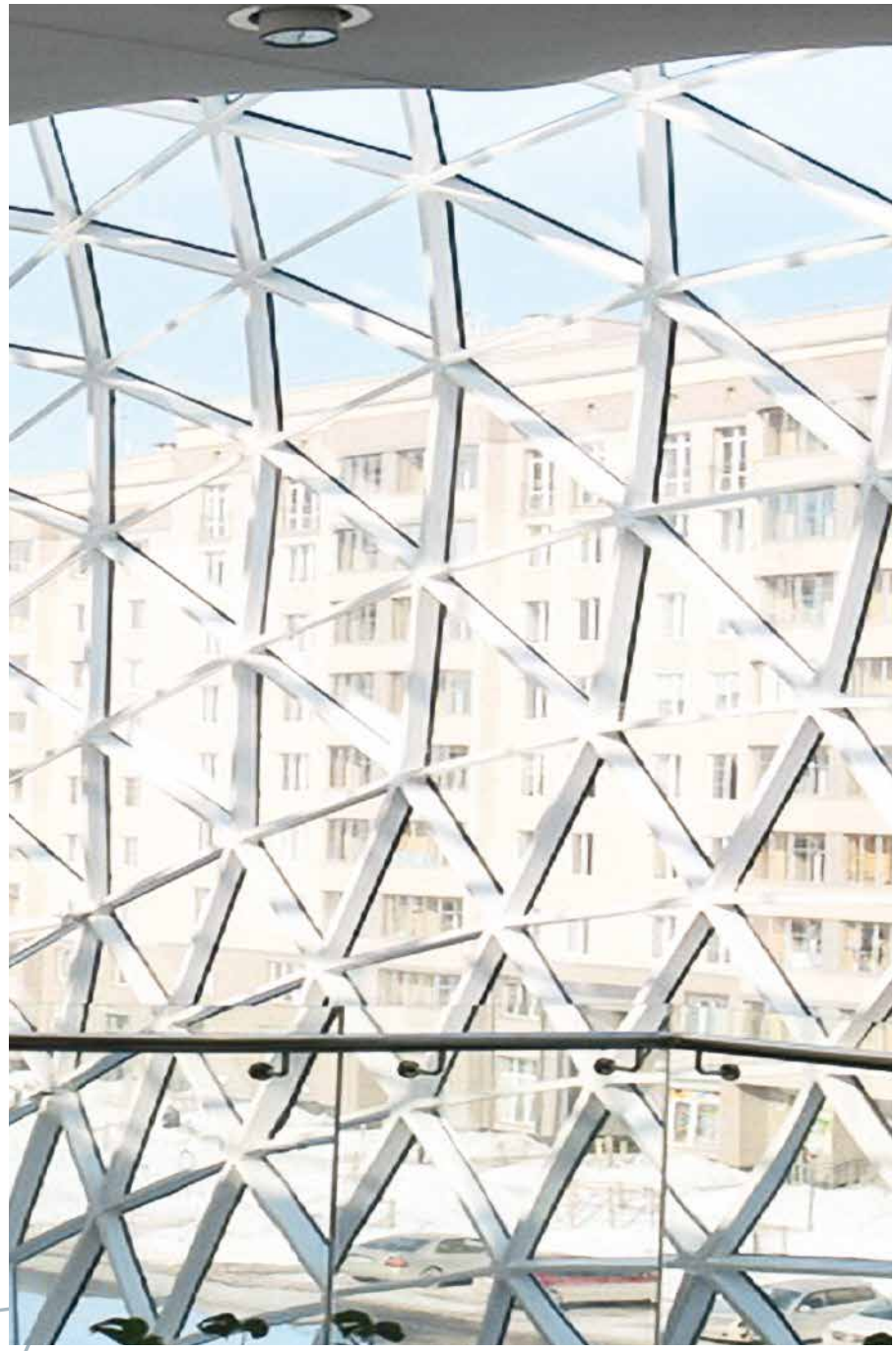


LESS COMPLEX CONSTRUCTION

With the aid of a self-supporting plug-in system, Schüco Grid2Shell works as a simple plug-and-play modular system. The high-strength aluminium alloy in the profiles are easily attached to the node units, without complex welded joints. Additional load-bearing steel structures are not required.

THE RIGHT CHOICE, FOR SURE

Schüco Grid2Shell is a fully-fledged curtain wall and skylight construction with an all-glass look and outstanding structural, weathertightness and insulation properties.
The use of components from the modular system ensures extremely reliable technical product properties as well as familiar, straightforward fabrication of building components, such as the gaskets.
The three-stage sealing system tested in accordance with the EU standard ensures a high level of weathertightness.



SUPPORT IN THE DESIGN AND PLANNING PROCESS

Schüco not only supplies the components for your Grid2Shell project, it also helps you with the preliminary structural calculation. To this end, a project-specific FEM calculation is performed by our partner company based on the draft design and the feasibility is checked.

Then the individual joint nodes are fabricated based on the final project model. By using these digital models, we ensure fast, reliable order processing.

When the joint nodes are fabricated, the node branches are numbered and uniquely labelled to facilitate plug & play installation of the load-bearing profiles.

TECHNICAL SPECIFICATIONS

Min. face width
60 mm
Max. glass/panel thickness
66 mm
Surface finishes
Powder, Paint
Air permeability
A4
Max. sound reduction index Rwp
upon request
Watertightness
RE 4500
Impact resistance
15/E5
Suitable for safety barrier loading
Yes
Min. face width of profile
60 mm
Min. basic depth of profile
150 mm
Min. glass/panel thickness
8 mm
Min.-max. glass/panel thickness
8 mm – 66 mm

Wet sealing of joint width
20 mm
Skylight construction / facade
Yes
Drainage
Yes
Drainage levels
3
Earthquake protection
upon request
Wind load resistance
±4.5/6.75 [kN/m^2]
Snow load resistance
6.0 [kN/m^2]
Sun shading attachment
Yes
Fire protection
upon request
Blast resistance
upon request
Recyclable
Yes

PLANNING BENEFITS

- Maximum design freedom thanks to rectangular, polygonal or triangular module units
- Skylights with large span widths are possible
- Flowing transition possible from the vertical façade plane into the roof area
- Components from the modular system ensure a high degree of security
- Outstanding structural, weathertightness and insulation properties
- Three-level gasket system tested in accordance with EU standard
- Support in the design and planning process (project-specific FEM calculation) through Schüco partner companies
- Different coatings for an individual surface finish for the load-bearing profiles and joint nodes

FABRICATION BENEFITS

- Self-supporting plug system for simple connection of load-bearing profiles to node units
- No additional load-bearing steel substructures are required
- Easy-to-plan, plug & play modular system without complex welded joints
- No corrosion
- Fabrication of numbered and uniquely labelled joint nodes through Schüco partner companies for straight-forward plug & play installation

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