the Structura® range

Structura[®] Vision

Structura Vision, a structural glazing system using single glazing (monolithic or laminated), is noted for its ability to safely implement very large sheets of glass, depending on external stresses.

Structura® Duo

Structura Duo, a structural glazing system using double glazing, is the solution recommended by AGC when a high level of thermal or solar control is required. Structura Duo combines the appearance of structural glazing with the specifications of the most efficient insulating glazings (low-e glazings, solar control glazing and so on). Only an experienced insulating glazing manufacturer like AGC can deploy sealed double glazing technology in structural double glazing while retaining the functionality of all components involved. Structura Duo double glazing includes special metal inserts which not only serve as spacers between the two sheets, but which also ensure separate mechanical support and load bearing for each glass component. Structura Duo glazing has received the relevant CSTB Technical Approval as well as Cekal certification, a guarantee that it can withstand moisture.

Structura® Duo+

Structura Duo+ features new composite materials to replace the aluminium ring, thus improving insulation and enhancing the appearance of the installed system. This solution is especially well-suited to facades with double glazing, laminated glass or monolithic glass for use in temperate and cold climates in Central and North European countries. Naturally, it complies with the legislation of those countries*.

* Structura Duo+ is not available in France

Structura® Support

Structura Support is the ideal complement to Structura Vision and Duo/Duo+ glazing when the aim is to create a fully transparent facade. Structura Support replaces opaque metal structures with transparent elements, making it possible to produce fins, beams and consoles* out of structural glass.

* Structura Support Console is the secondary framework for a light facade (glass roofs, canopies, etc.). Horizontal or vertical consoles are made up of glass elements and can be used in both interior and exterior applications

Structura[®] Décor

Structura Décor is a patented structural glazing system applied to the production of opaque glass cladding covering all or part of a surface. Silk-screen printed and enamelled glasses are used in this system. Structura Décor can be used to clad vertical walls with a smooth, unbroken glass skin. This system is especially well-geared to the thermal renovation of opaque facades (insulation via the exterior). In both new constructions and renovation projects, outdoors and indoors, Structura Décor delivers a competitively priced cladding solution using high-quality materials and featuring all the necessary safety and durability features.

Visit our Technical Library: a library of technical designs for the components used in Structura Duo/Duo+, allowing you to save time and work more accurately. Visit www.yourglass.com (Tools section).

AGC Glass Europe

AUSTRIA AGC Glass Europe Tel: +43 676 3372955 sales.austria@eu.agc.com

BELGIUM AGC Glass Europe Tel: +32 2 409 30 00 Fax: +32 2 672 44 62 sales.belux@eu.aqc.com

BULGARIA / MACEDONIA AGC Flat Glass Bulgaria Tel: +359 2 8500 255 Fax: +359 2 8500 256 bulgaria@eu.agc.com

CROATIA / SLOVENIA / BOSNIA & HERZEGOVINA AGC Flat Glass Adriatic Tel: +385 1 6117 942 Fax: +385 1 6117 943 adriatic@eu.agc.com

CZECH REPUBLIC / SLOVAKIA AGC Flat Glass Czech Tel: +420 417 50 11 11 Fax: +420 417 502 121 czech@eu.agc.com

ESTONIA AGC Flat Glass Baltic Tel: +372 66 799 15 Fax +372 66 799 16 estonia@eu.agc.com

FINLAND AGC Flat Glass Suomi Tel: +358 9 43 66 310 Fax: +358 9 43 66 3111 sales.suomi@eu.agc.com

FRANCE AGC Glass France Tel: +33 1 57 58 30 31 Fax: +33 1 57 58 31 63 sales.france@eu.agc.com

AGC Interpane Tel: +49 39 205 450 440 Fax: +49 39 205 450 449 igd@interpane.com GREECE / MALTA / ALBANIA AGC Flat Glass Hellas Tel: +30 210 666 9561 Fax: +30 210 666 9732 sales.hellas@eu.agc.com

HUNGARY AGC Glass Hungary Tel: +36 34 309 505 Fax: +36 34 309 506 hungary@eu.agc.com

AGC Flat Glass Italia Tel: +39 02 626 90 110 Fax: +39 02 65 70 101 development.italia@eu.agc.com

AGC Flat Glass Baltic Tel: +371 6 713 93 59 Fax: +371 6 713 95 49 latvia@eu.agc.com

LITHUANIA AGC Flat Glass Baltic Tel: +370 37 451 566 Fax: +370 37 451 757 lithuania@eu.agc.com

NETHERLANDS AGC Flat Glass Nederland Tel: +31 344 67 97 04 Fax: +31 344 67 97 20 sales.nederland@eu.agc.com

POLAND AGC Flat Glass Polska Tel: +48 22 872 02 23 Fax: +48 22 872 97 60 polska@eu.agc.com

ROMANIA AGC Flat Glass Romania Tel: +40 318 05 32 61 Fax: +40 318 05 32 62 romania@eu.agc.com

RUSSIA AGC Glass Russia Tel: +7 495 411 65 65 Fax: +7 495 411 65 64 sales.russia@eu.agc.com SERBIA / MONTENEGRO AGC Flat Glass Jug Tel: +381 11 30 96 232 Fax: +381 11 30 96 232 jug@eu.agc.com

SPAIN / PORTUGAL AGC Flat Glass Ibérica Tel: +34 93 46 70760 Fax: +34 93 46 70770 sales.iberica@eu.agc.com

SWEDEN / NORWAY / DENMARK AGC Flat Glass Svenska Tel: +46 8 768 40 80 Fax: +46 8 768 40 81 sales.svenska@eu.agc.com

SWITZERLAND AGC Glass Europe Tel: +43 676 3372955 sales.switzerland@eu.agc.com

UKRAINE AGC Flat Glass Ukraine Tel: +380 44 230 60 16 Fax: +380 44 498 35 03 sales.ukraine@eu.agc.com

UNITED KINGDOM AGC Flat Glass UK Tel: +44 1788 53 53 53 Fax: +44 1788 56 08 53 sales.uk@eu.agc.com

OTHER COUNTRIES AGC Glass Europe Tel: +32 2 674 31 11 Fax: +32 2 672 44 62 sales.headquarters@eu.agc.com



GLASS UNLIMITED

AGC Vinice Pardubice - Pardubice - Czech Republic - Structura Visio

— www.yourglass.com

AGC Glass Europe has representatives worldwide - See www.yourglass.com for further addresses.

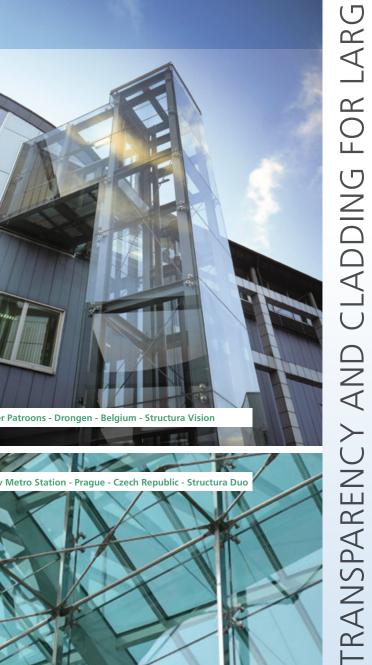
Structura® range of structural glazing

Structura is the range of structural glazing systems - glasses and fittings - developed by AGC Glass Europe.

Structura is the ideal solution for clients seeking maximum light and transparency in large spaces.

Structura is used to create spacious, light-filled structures that feel open to the outdoors, yet are fully protected from the weather. Walls made of structural glazing feel transparent and light, revealing the building's internal load-bearing structure and giving it a high-tech look.

The basic principle is simple: the glazing (with holes pre-drilled in the corners) is attached directly to the load-bearing structure using specially designed metal fittings. Silicone mastic is applied to the seams between the glazing, sometimes in combination with an extruded gasket.





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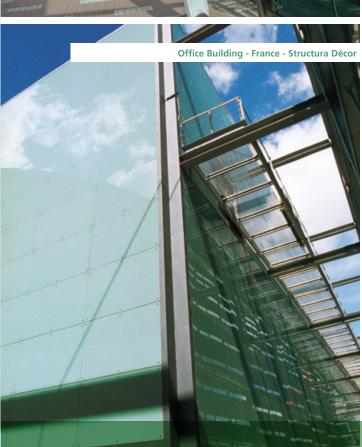
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LIGHT,

The SAFETY of a completely, integrated structural glazing system





The Structura range, a group of products and processes designed to provide maximum safety.

Structura systems are delivered with specially manufactured Structaflex glazing that has been heat-treated to ensure it has the mechanical strength needed to cope with the weather-related stresses to which these structures are subject (temperature, wind, snow, etc.).

The Structura fittings – connectors and ball-and-socket clamps – are made of high-strength stainless steel. Their finish adds to the overall look of the structure. Structura is easy to install, highly flexible and can be fully adapted to each project. When developing the Structura range, AGC focused specifically on the maintenance and security aspects inherent in these kinds of applications.

Every effort is made to strictly comply with the principle of separating the loads on the various structural elements in the facade. AGC has commissioned well-known, independent institutes to test all parts of the Structura system. Structaflex glasses and the associated fittings are tested mechanically, both separately and as a unit.

Each (except Structura Duo+) system described hereafter has received a Technical Approval issued by the CSTB (Scientific and Technical Centre for the Construction Sector) in Paris.

FLEXIBILITY

Structura is incredibly flexible, making a huge range supported by different types of structures made of steel of diverse and ambitious projects possible.

frames, stainless steel cables, glass beams, glass fins and so on.

exhibition rooms, glass roofs, canopies and more. Depending structural elements. on the architectural choices made, Structura walls can be

The concept can be used for both exterior and interior AGC has developed facade designs combining products applications and is well-suited to vertical and inclined walls, from the Structura range (Structura Vision or Duo/Duo+ and such as entrance halls, galleries, atriums, passageways, Structura Support, glass fins) to create totally transparent

Structaflex[™] glazing for every application





Structaflex - glazing developed specifically for Structura applications

- Toughened* single glazing
- Toughened* single glazing laminated glass with PVB (polyvinyl butyral) or EVA (ethylene vinyl acetate) interlayers
- Double glazing with toughened* components or toughened*/laminated glass
- * All toughened glass is also subject to a heat soak test (HST) to ensure optimal reliability

Glass components in the Structaflex range

Single glazing

- Planibel clear or coloured float glass, Linea Azzurra[®], silk-screen printed glass
- Stopsol and Sunergy solar control glass

Double glazing

- Planibel clear or coloured float glass, Linea Azzurra®, silk-screen printed glass
- Stopsol solar control glass
- Top^{N+T*} and Planibel G glass with low-emissivity coatings for enhanced thermal insulation
- Stopray^T, Energy^{NT*}, Sunergy glass with high-performance thermal insulation and solar control coatings
- Artlite Digital customisable toughened and patterned glass

^{*} Only in Structura Duo/Duo+