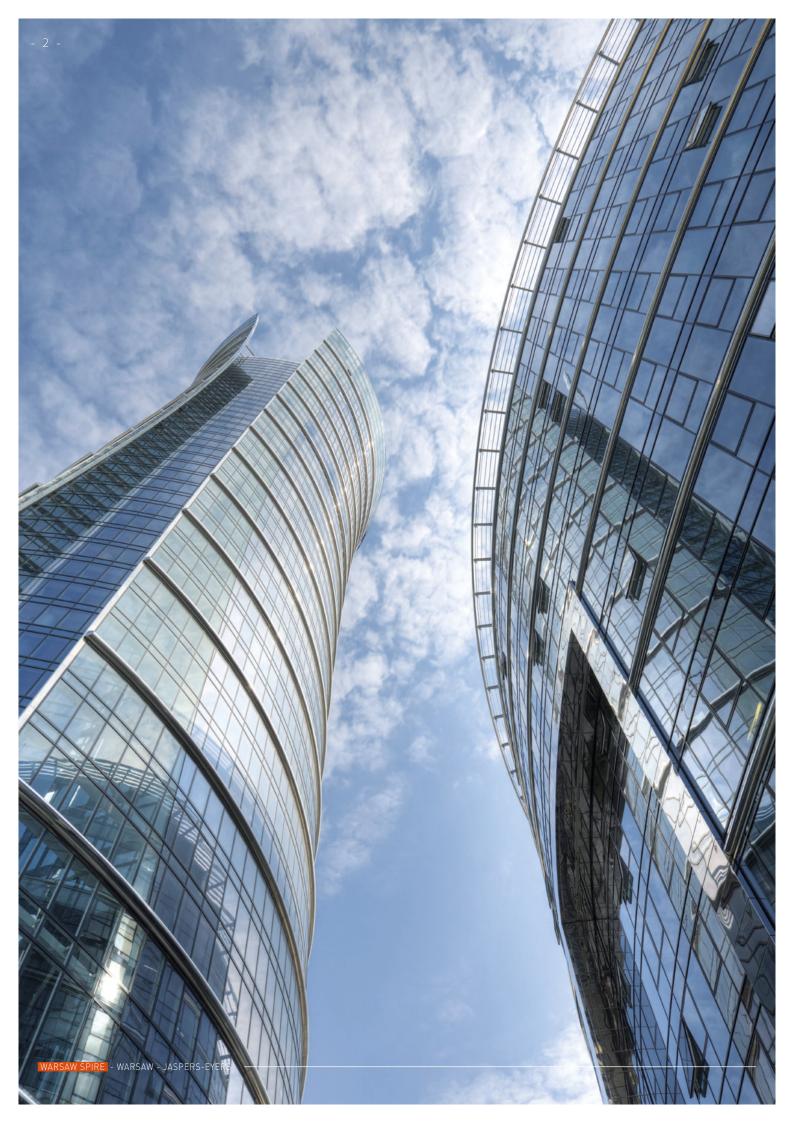
IPASOL - STOPRAY -SUNERGY - STOPSOL

High-Performance Solar Control Glass

AGC INTERPANE

THE WHOLE RANGE OF INNOVATIVE SOLAR CONTROL GLAZING

Your Dreams, Our Challenge

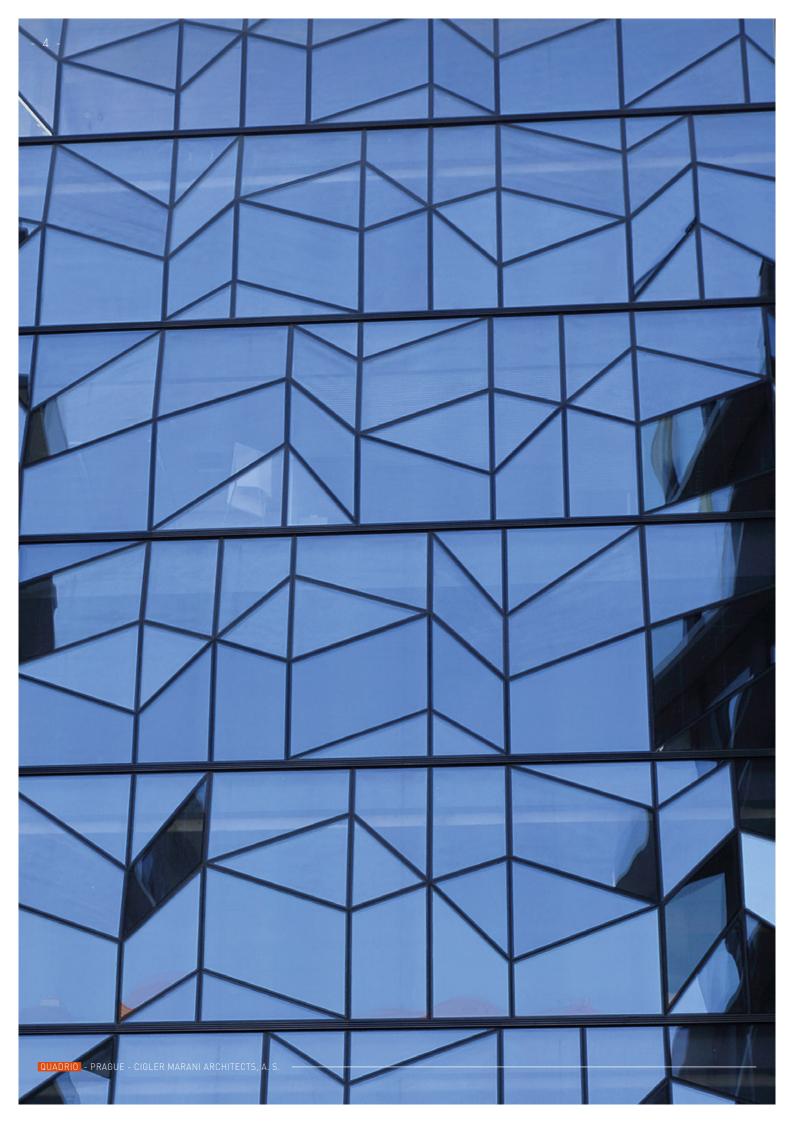


AGC Interpane Solar control glazing for intelligent architecture

Every vision can come true.

Architects and specifiers love glass. The multifaceted functions and aesthetic properties of glass are incorporated into modern designs more often than almost any other material. But visionary architecture requires high-tech glass that can constantly evolving energy-saving and aesthetic requirements for exteriors. This is especially true for transparent solar control: huge cooling costs in the summer and heating costs in the winter must be avoided. Increasing energy costs for cooling and heating require to be minimized by using innovative climate control concepts!

Along with colour-neutral and ever larger glass surfaces, usually with low reflection characteristics, today coloured or more reflective glazing is increasingly in demand, as are temperable or bendable products. The solution comes in the form of modern coating technologies. Through high quality processes, complex metallic and chemical layers are applied to the float glass surface. This results in top products made from high-quality multifunctional glass that can prevent both overheating in summer and the loss of heating energy in winter.

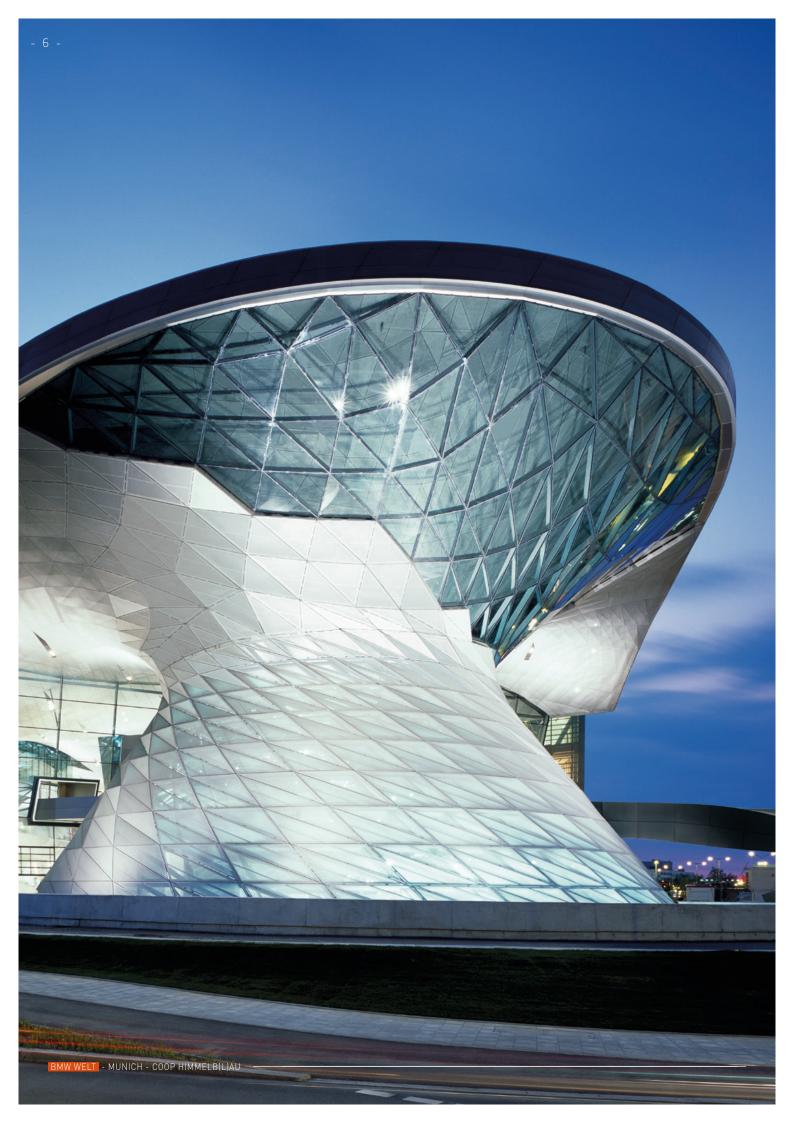


AGC Interpane High-tech coating solutions

Diversified, aesthetic and multifunctional.

Since 2012, AGC Interpane has provided an expanded network with optimised know-how and technology. The result is a glass portfolio that offers faster access to our products and services worldwide. Our customers value what is probably one of the widest ranges of triple-silver-coated products. By design, these product types provide the greatest transparency coupled with the lowest energy transmittance.

Whether ipasol, Stopray, Stopsol or Sunergy, each of our products has demonstrated its physical and aesthetic advantages in large prestigious and signature flagships projects around the world.

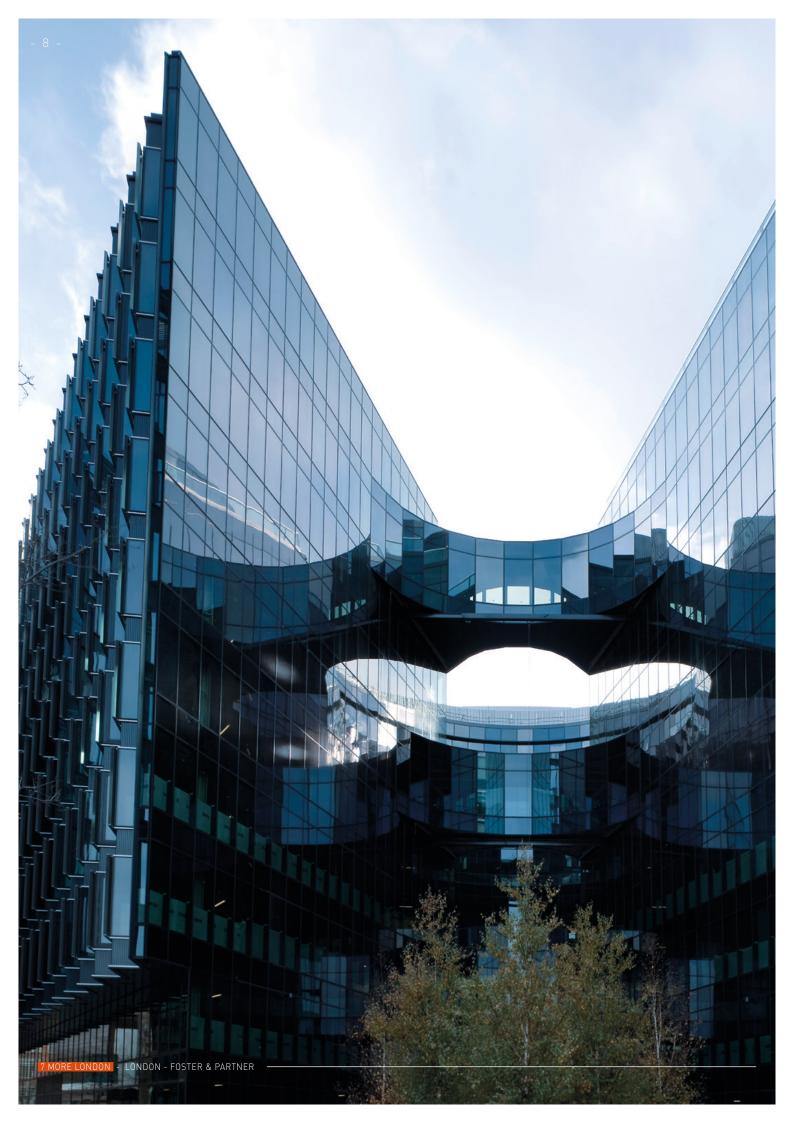


ipasol Flexible for your high-tech solution

Our soft coating with high selectivity.

ipasol is the perfect combination of aesthetics and functionality. The glass is renowned the world over for its colour-neutrality, high transparency, low reflection and excellent solar control, enabling the realisation of façades with a particularly transparent and filigree appearance. At the same time, ipasol provides the broadest range of solar control coatings for cut-to-size glass. With its light and energy transmittance values, the high-end soft coating (Type C according to EN 1096-1) with triple silver satisfies the highest requirements. Architects, specifiers, façade consultants and metal constructors can also use ipasol to realise glazing with complex shapes and very large dimensions (up to 18.00 x 3.21 metres). ipasol bright provides highly-reflective variants in monolithic construction with the coating in direction to the film. Additional processing possibilities such as screen printing or ipachrome coating complete the portfolio.

ipasol	The highly selective world champion of variability that comes in fixed dimensions.
Outstanding selectivity: –	The lowest solar factor with the highest light transmittance (Tv to solar factor higher by a factor of two)
High energy efficiency: –	Outstanding thermal insulation, with a U_9 value as low as 1.0 W/(m ² K) in double-pane construction
Great freedom of design: –	Huge number of variations and coating of cut-to-size glass



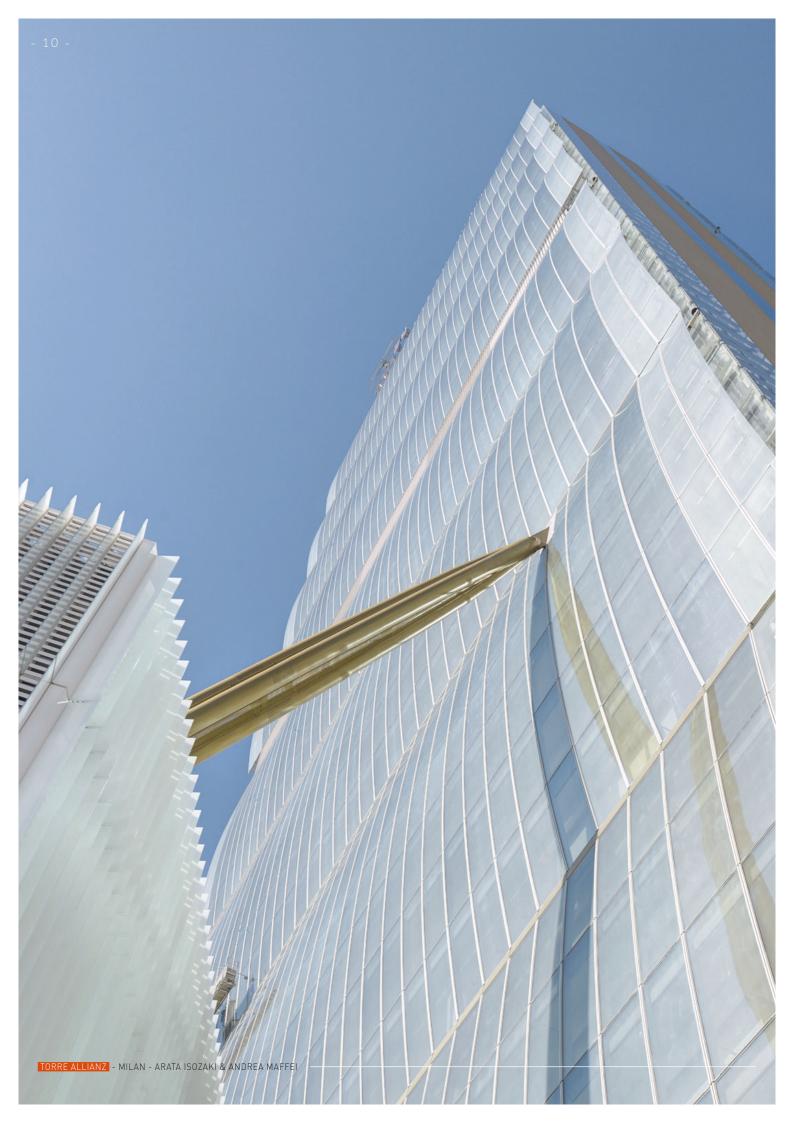
ipasol and Stopray As "Giga Lites" also available in the maxi format

Ensuring your visions become reality.

Globally the demand for oversized glazing products is increasing. Developed after working with many cutting-edge architects to achieve the maximum size possible, with Giga lites, AGC Interpane has now developed some of the world's largest coated glazing products. The maximum deliverable size of ipasol solar control and iplus thermal insulation coating on float glass is an impressive 18.00 x 3.21 metres – with a pane thickness of up to 20 millimetres.

The projects that use Giga Lites are anything but standard; yet with a coordinated design process and careful planning, pioneering architectural designs that challenge the norms and push the boundaries of the built environment. Of course, when installing the glass some special factors need to be considered such as the weight of the glazing units and of the individual panes as well as the minimum thickness of the various types of glass, the blocks needed, the larger width of the composite edge seal, transport and more. The materials used and methods of installation and logistical approach need careful consideration.

Our Interpane Technical Advisory Service (TAS/IBC) will be happy to help you!



Stopray Solar control and improved thermal insulation

Best energy-values and indoor comfort.

Stopray is our T-variant temperable soft coating (Type C according to EN 1096-1), designed for maximum freedom of architectural design. With this product, high selectivity and colour-neutrality are no longer mutually exclusive in solar control glass: the ratio of light transmittance to the solar factor for neutral Stopray glazing achieves a value greater by a factor of two. A coating applied through magnetron sputtering in a vacuum ensures optimal solar control in summer, while the particularly low Ug-value prevents heat loss in the winter.

Stopray	The highly selective temperable soft coating for solar control and improved thermal insulation.
Outstanding selectivity: –	Combines a low solar factor with high light transmittance (T_{ν} to solar factor higher by a factor of two)
Maximum energy efficiency: –	Optimal thermal insulation with a Ug value as low as 0.9 W/(m²K) in a double-pane construction
Great design flexibility: –	Wide range of colours and levels of reflection

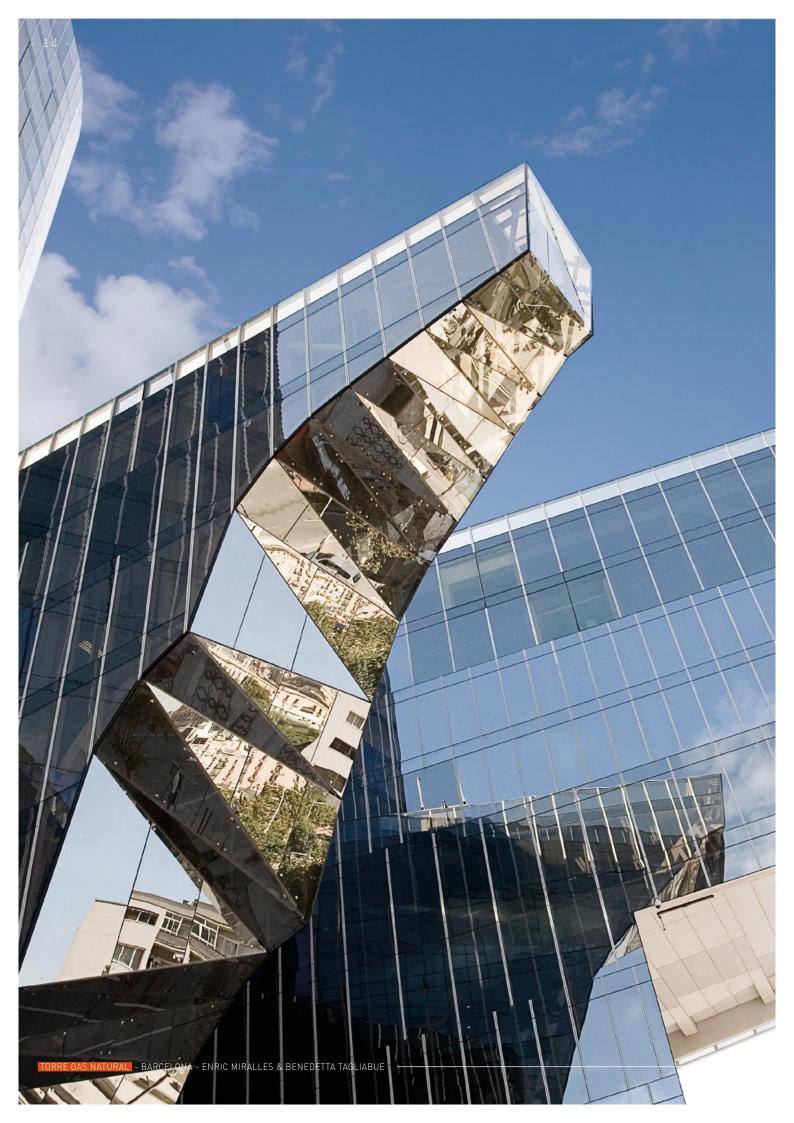


Sunergy Functionality combined with aesthetics

Toughenable hard coating with low levels of reflection.

As a temperable hard coating (Type A according to EN 1096-1) Sunergy is particularly easy to process and is often chosen for curved, colour-toned or neutral façades worldwide. It provides the low reflection similar to soft coating. The high level of light transmission creates a bright daylight atmosphere indoors and gives the façade a particularly transparent quality.

Sunergy	The temperable hard coating that provides the low-reflection aesthetics of a soft coating.
Top design flexibility:	 Can be used on single-pane, insulating or laminated glass and tempered or enamelled; large range of colours
Functional:	 High light transmittance, low reflection and neutral appearance
High energy efficiency:	 High thermal insulation with a Ug value as low as 1.0 W/(m²K) in double-pane construction
Logistical advantages:	 Can be stored indefinitely as float glass (individual panes)

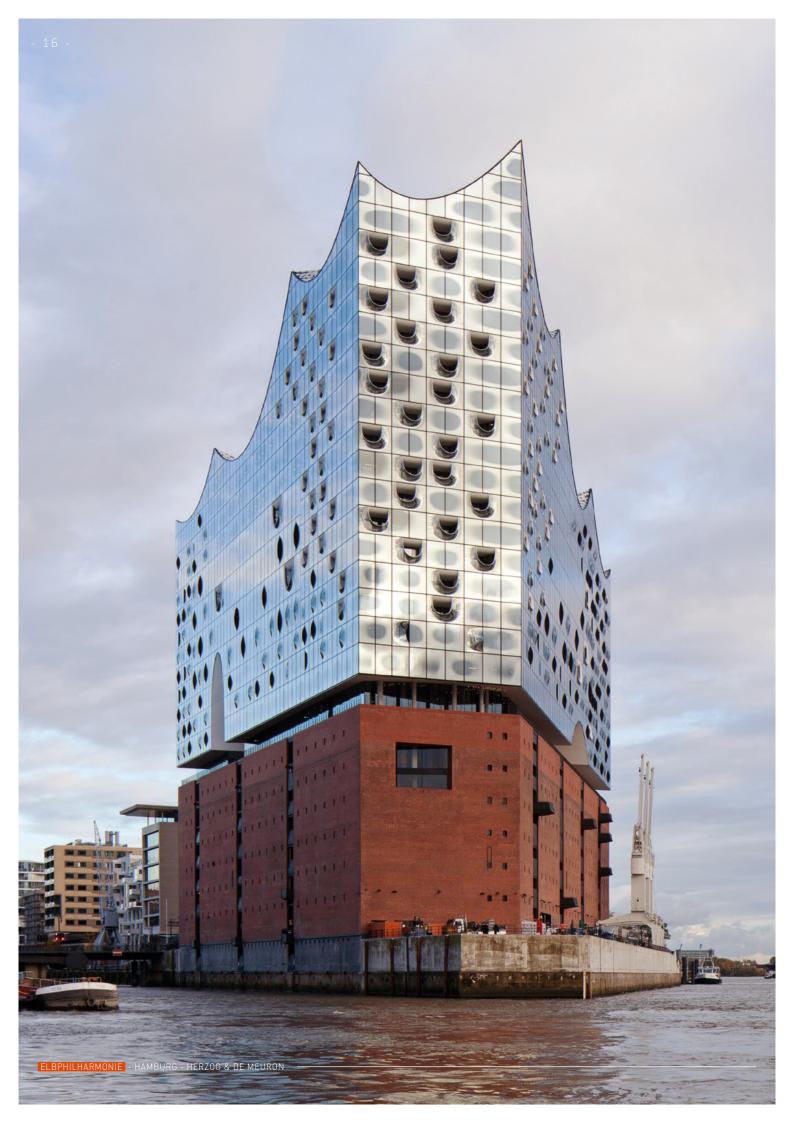


Stopsol Solar control and privacy

Pyrolytic coating with high levels of reflection.

Glass processors frequently require glazing with flexible design qualities which can be used for a variety of purposes. Stopsol uses a hard coating (Type A according to EN 1096) that renders the glass temperable and bendable. For example, it can be used as single-pane, insulation or laminated glass, but also as tempered or enamelled glass. Of particular use in densely built-up cities, the highly reflective surface provides increased privacy. In addition, architects can benefit from the many possible combinations of solar factor, light transmittance values and colour toning.

Stopsol	The highly reflective hard coating for maximum solar control and privacy.
Highly flexibility: —	Can be used on single-pane, insulation or laminated glass and tempered or enamelled
Privacy: –	Protects privacy through its high exterior reflectivity
Logistical advantages: –	Can be stored indefinitely as float glass (individual panes)

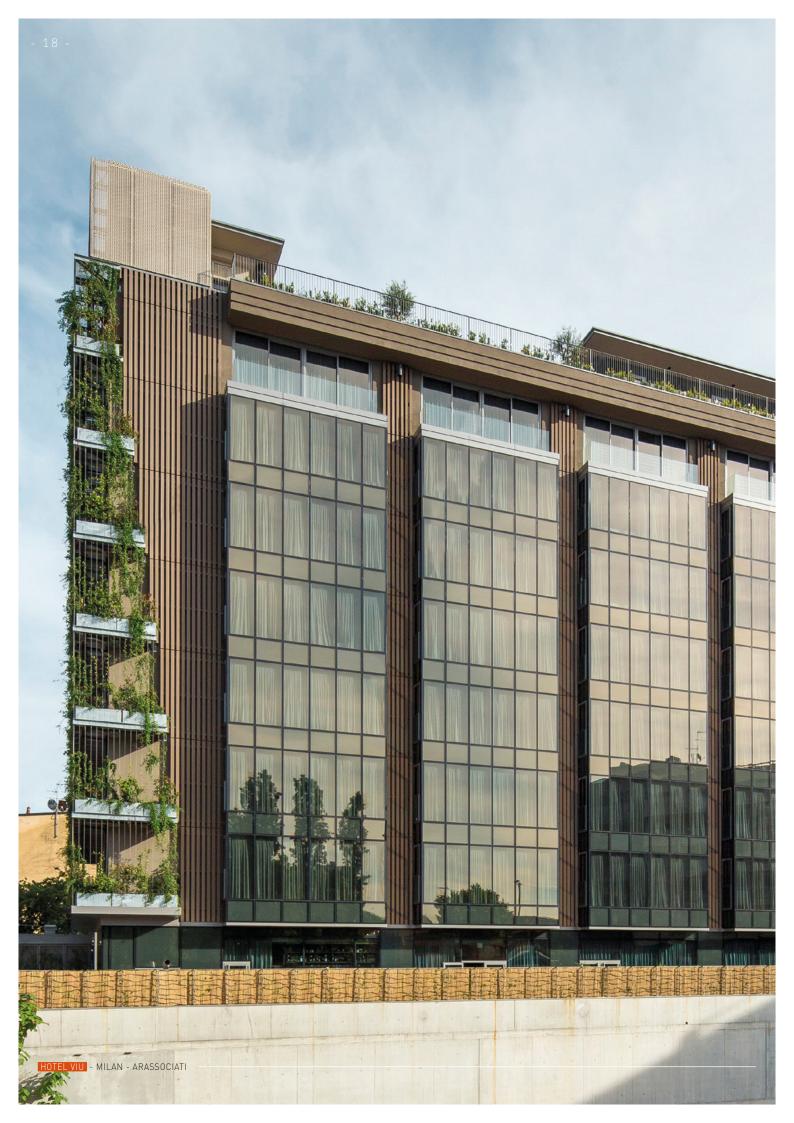


ipachrome design Solar control plus design

High-tech finishing for high-end façades.

"ipachrome design" comes into play if an extravagant design should complement a high-quality solar control coating such as ipasol or additional solar control is required by means of reflective partial coatings in the façade. The most prominent example of its successful application is probably the Elbphilharmonie (Elbe Philharmonic Hall) in Hamburg: One of the features creating the unique aesthetics of the concert hall is the customised "droplet coating" on each of the panes in the glass façade, many of which are curved, with the chromium-based multilayer system "ipachrome design". The effect is like millions of tiny mirrors, which make the building shimmer differently with every change in mood of the ambient light.

INTERPANE's ipachrome design is based on a chromium-containing multilayer system. With a light reflection factor of over 50 per cent the coating is as reflective as a conventional silver mirror, but is significantly more durable. ipachrome design through its suitability for some additional functional coatings gives your unique ideas the freedom they require. It can be thermally toughened and processed into laminated safety glass and can be combined with ipasol solar control and iplus thermal insulation layers and further processed into insulation glass.

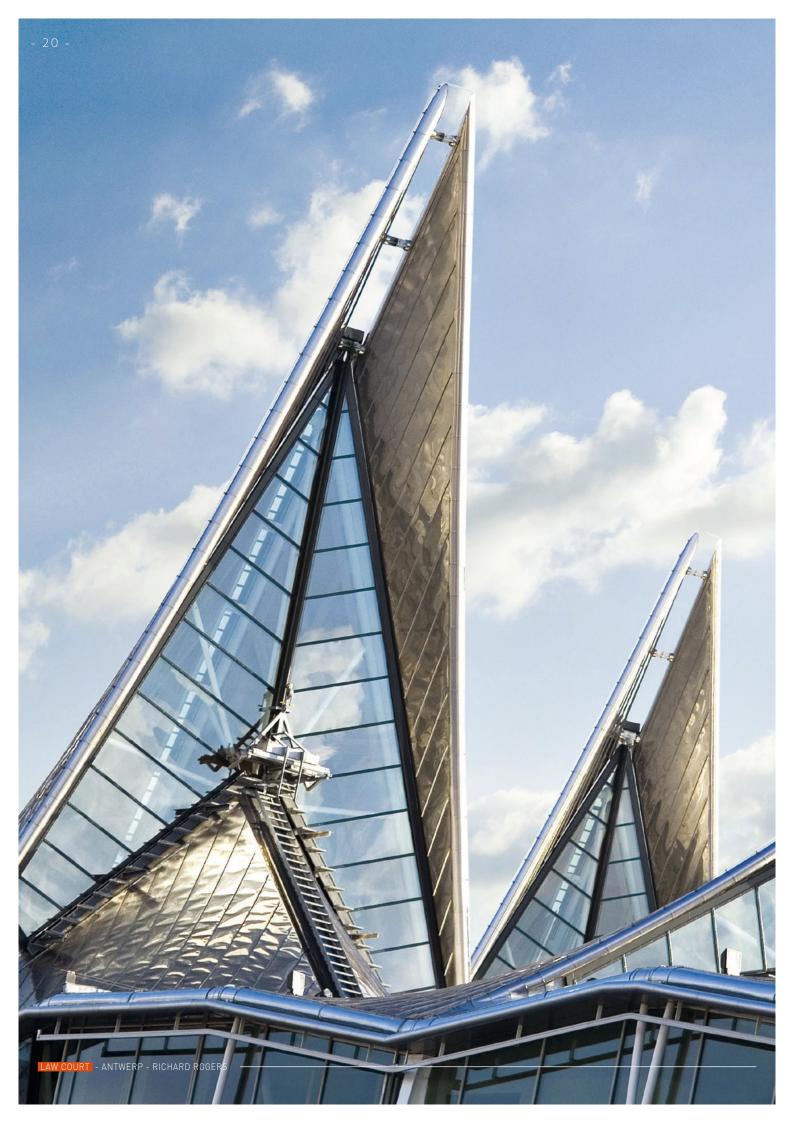


New service Coating on Demand

Individual product in just one day.

Light transmission, solar control, thermal insulation, reflectance, colour effects - the coating determines the internal and external values of a glass façade. Customised glazing becomes reality within a single day via our "Coating on Demand" service. We define the technical and optical properties with the architect in advance. A rendering software simulates the tailor-made coating solution in a colourfast manner in the authentic installation situation. In this process both physical values as well as the prevailing climatic conditions are taken into account.

"Coating on Demand" (CoD) facilitates the development of unique glazing that is precisely tailored to the requirements of demanding construction projects. The VIU Hotel in Milan is one of the first buildings where our customised coating service has been employed. Once the customer-specific parameters have been determined, the first sample glass panes are produced directly at the Interpane plant in Plattling. Within a single day, a globally unique solution is created, as AGC Interpane develops and manufactures each individual configuration exclusively for a specific object.



AGC Interpane Comprehensive service for your visions

Technological top performance from one source.

AGC Interpane offers one of the most comprehensive and diverse ranges of solar control glass in the world, giving architects, specifiers and façade consultants, metal constructors and glass processors the freedom to fulfil all of their visions.

To enable you to realise the aesthetically and technically perfect solution, AGC Interpane provides everything from one source: research, consulting, application techniques, production and logistics. We can offer support at all stages from the initial planning to the completed construction.





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Based in Lauenförde, AGC Interpane is a strategic alliance partner of AGC Glass Europe, the European branch of the world's leading flat glass manufacturer AGC. AGC Interpane produces Float and white glass, high-quality coated insulating glass, sound insulation and sun protection Insulating glass, safety glass, solar glass and glass for decorative applications. The industrial network comprises eleven plants in Europe. For more information, visit www.interpane.com. or www.agc-yourglass.com.

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