SILVERSTAR - coated glass
For any architectural demands

Contact and additional information

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Production sites in Germany, Poland, France
Agencies in the Benelux countries, Denmark, Dubai, USA, Norway, UK
Glass links, yet separates. It lets us look through, without granting immediate access. We can see on the other side of the glass pane, we can admire and marvel. It tickles our curiosity, inspires us to dream and perhaps even stands at the start of a new discovery.

The world is constantly changing. The world of glass is no exception. New technologies and products keep opening up new application options. For over 30 years, silver coatings we hardly notice have been guaranteeing insulating glass with outstanding thermal insulation, enabling transparent architecture flooded with light. We have been there from the very beginning and accompany projects around the globe. From major projects to increasing private living comfort. Daylight is vital to our well-being and mind. It significantly boosts the quality of life in residential developments and office buildings. Euroglas is your strong partner.
Implementing contemporary glass projects requires an environmentally focused energy-saving concept. In this context, glass coatings make an important contribution to environmental protection. With its five magnetron coating systems, the company now provides a wide range of innovative coatings to meet the most varied demands.

It’s no longer merely about saving energy, but also about generating energy. Glass panes with SILVERSTAR thermal insulation layers have been designed to let as much solar energy through as possible while retaining the thermal energy within the room.

Rooms with large glass surfaces meet today’s standards of comfort. In an age where we consciously approach nature and the environment, we can no longer rely on aesthetic demands alone. We demand so much more from modern thermal insulation glass. Back in the day, windows and glazing were considered an «energy leak». Since then, the efforts to improve the thermal insulation value of insulation glazing have made impressive progress. A Ug value of 1.0 W/m²K for double insulation glazing and 0.6 W/m²K for triple insulation glazing is the standard nowadays. As a result, glazing has become a highly thermally insulating component.

To deliver effective thermal insulation, glass must provide a Ug value that is as low as possible. The lower the Ug value, the lower the thermal loss of the glass and also the energy consumption. Heating costs and environmental pollution will also drop correspondingly. A favourable Ug value also means higher temperatures on the pane surface facing the room. This creates outstanding comfort inside the room, even in very low ambient temperatures.

**Thermal insulation glass – efficient thermal insulation**

**Characteristics**
- Thermal insulation glass for efficient thermal insulation and passive solar energy use
- Ug value up to 0.5 W/m²K
- Plenty of daylight. High light transmission
- At 14%, the external reflection is below the defined limit of the Swiss Ornithological Institute, so thermal insulation glass provides basic protection for birds against collisions - neutral view
- Max. glass dimensions 3,210 x 7,500 mm
- Extra lengths on request

**Benefits**
- Guarantees thermal insulation
- Boosts well-being on the inside
- Reduces heating energy costs

Thermal insulation glass function using SILVERSTAR EN2plus as an example.
### SILVERSTAR SELEKT

#### Double insulation glazing

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### SILVERSTAR – thermal insulation glass

#### Double insulation glazing

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### SILVERSTAR Hy Tec - special application

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*Not as a temperable version, as a fixed dimension only! The specified colour serves as orientation only and is not a specification, as it may vary. Stated values are based on insulation glass featuring 6/16/4 in this glass. Light and radiation physical values have been calculated as per EN 410:2011 and EN 673:2011. Visual and technical properties of layers suitable for tempering have been adapted in colour. However, the colour is not identical. We recommend sampling in each individual case. T is short for "suitable for tempering."
Solar control glass – intelligent solar protection

Large-scale glass façades have become commonplace in today’s modern buildings. In the summer, unintentional interior heat buildup can become a problem. This is where solar control glass can help. It lets the daylight through, but reduces the amount of solar energy coming in. Wafer-thin solar protection layers, applied to the glass through the SILVERSTAR magnetron procedure, reduce excessive solar radiation into the interior through reflection and absorption and prevent rooms from heating up excessively.

**>> Characteristics**
// Outstanding selectivity – glazing in a range up to 2.2 – for an ideal ratio between the LT and g value
// Low Ug values of 1.0 Ug W/m²K reduce thermal loss and cut energy consumption
// Increases the feel-good factor on the interior
// Maximum light transmittance: plenty of natural daylight reaches the interior.

**>> Benefits**
// Reduced energy costs
// Outstanding quality of work and life thanks to pleasant room temperatures and natural daylight
// Depending on the solar control glass used: natural or neutral-looking colours
// Very high light transmittance with very low direct solar radiation
// Can be combined with safety glass, sound insulation glass and curved glass

**>> Solar protection variants**
Factors such as the coating material, film thickness and the staining of the glass can influence the g value, light transmittance and the visual impression. Each solar protection coating has been optimised to retain high levels of light transmission despite low energy transmittance.

**>> SILVERSTAR SELEKT**
The neutral insulation glass provides an optimal combination of solar protection with thermal insulation for a pleasant room temperature and maximum light transmission throughout the entire year. That is why SILVERSTAR SELEKT is also known as the «four-season glass».

**>> SILVERSTAR COMBI**
SILVERSTAR COMBI insulation glass offers a coordinated range of colour-neutral and nuanced coatings with gradient values for light transmission and total energy transmittance.

**>> SILVERSTAR SUPERSELEKT**
These insulation glasses have been optimised to achieve a degree of light transmission that is as high as possible while demonstrating a low total energy transmittance. This ratio is expressed by the selectivity code.

**>> SILVERSTAR SUNSTOP**
Insulation glass optimised for solar protection offering maximum protection from solar radiation. Thanks to the colourful look of the highly reflective glazings, SILVERSTAR SUNSTOP also opens up special design options.

SILVERSTAR SELEKT 74/42 as an example of how solar control glass functions
Special coatings

>>LUXAR NG
Non-reflective glass

LUXAR NG is an innovative product made by Glas Trösch, glass with non-reflecting surfaces. At a reflection of under 0.5% per surface, with the magnetron-coated LUXAR NG you can put an end to irritating mirroring effects. At such a low rate, LUXAR NG is hardly noticed.

LUXAR NG is applied anywhere separation is required but must remain invisible:
// Architecture
// Shop windows
// Picture frames
// Video walls
// Switch systems
// Display cabinets, etc.

>>SPY MIRRORS
Protected from onlookers, the SPY MIRROR allows people to assume the role of the observer without being seen themselves. This is made possible by a multilayer, optical interference layer on the glass. When the SPY MIRROR is used as a separating element between two rooms with different light exposure levels, the desired surveillance or mirror effect occurs. The coated and uncoated sides of the pane generate different reflection values, so the effects are systematically strengthened.

The SPY MIRROR is available in different light transmission values, enabling refined gradients in terms of mirror effect and visibility. To ensure the desired effect, the light exposure values must be different. The light exposure ratio between both rooms must be between a minimum of 1:5 and 1:15 lux, depending on the type.

>>SILVERSTAR FREE VISION
Coating to prevent external condensation

As a result of the outstanding thermal insulation of modern insulating glass, condensation is likely to form on the outside in certain weather conditions. Intelligent SILVERSTAR FREE VISION coating changes the dew point on the glass surface and thus its coating response to almost completely prevent condensation on the outer surface.

>> Characteristics
// External condensation is practically prevented by 100%
// The special coating is ideally suitable for insulating glass with a low U value
// Variants with double or triple insulating glass
// always as thermally toughened safety glass
// Colour-neutral appearance
// Long-term effect against external condensation
// Maximum dimensions up to 6,000 x 3,210 mm

>>SILVERSTAR NightVision
LUXAR SOLAR CONTROL GLASS

SILVERSTAR SUNSTOP NIGHT VISION is a low-reflective solar control glass variant that enables clear views from buildings at night from illuminated rooms thanks to its low glass reflection.

>> Characteristics
// Low-reflective solar control glass
// Optimum transparency for undisturbed views
// (lowest interior light reflection, LRI)
// High colour reflection index of 94 (with SILVERSTAR)
// Low total energy transmittance thanks to the layered SILVERSTAR SUNSTOP Night Vision design
// Best views at night from brightly illuminated rooms
// Extremely hard, scratch-proof and environmentally durable LUXAR coating
// Max. glass dimensions: 3,005 x 1,900 mm (3-12 mm)

>> Applications
// Flats, offices and hotels with special views
// VIP boxes in stadiums
// In particular for undisturbed views in darkness from illuminated rooms, e.g. on skylines

>> American Cooper Building
LSG from LUXAR (pos. 1), SILVERSTAR SELEKT, metal structure in LSG // 16mm argon // LSG made of LUXAR at pos. 5 and 8