UNIGLAS®

UNIGLAS® | SUN 365D

Solar control glass for every season

UNIGLAS ® | SUN 365D

The solar control glass for every season

THE UNIVERSAL INSULATING GLASS FOR EVERY SEASON

Contemporary architecture is characterised by transparency. This particularly applies to the exterior walls of buildings. Ever larger glass surfaces are used to make buildings appear transparent and flood them with light.

This is why building owners and architects should consider the relevant aspects of insulating glass, from thermal insulation to light transmittance and solar gains, for all seasons during the planning phase.

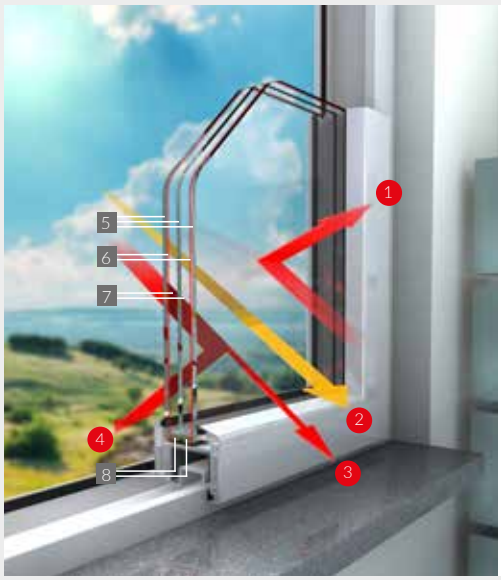
Not only are the demands on insulating glass increasing, but the current climate change also poses a major challenge. The future promises increasingly longer and warmer summers, placing unique demands on the design of building energy concepts.

A combination of solar control and thermal insulation coatings is an energy-efficient solution and a contemporary response to climate change. Our solar control glass UNIGLAS® | SUN 365D is a versatile companion for 365 days a year and thus all seasons. Adapted to the external weather conditions, it positively influences the indoor climate and meets all the requirements of the Building Energy Law.

- High transparency to ensure optimal use of natural daylight.
- Good thermal insulation (Ug value) in order to reduce energy consumption while creating indoor comfort.
- Adjusted solar control, i.e. a 36% lower solar heat gain coefficient compared to UNIGLAS® | TOP Pure, which helps to reduce the heating of indoor spaces in the summer and allows passive use of solar energy in the winter.

UNIGLAS® | SUN 365D,
a solar control glass that also excels in winter!

STRUCTURE OF UNIGLAS® | SUN 365D



Solar control glass (triple)

Structural-physical properties

1. Hear reflection
2. Light transmittance
3. Solar energy transmittance
4. Solar energy reflection

Insulating glass structure

5. Float glass pane
6. Precious metal coating
7. Cavity with inert gas filling
8. Spacer with desiccant and double edge seal

HOW DOES THE UNIGLAS® | SUN 365D WORK?

Effective solar control is only possible if the heat radiation from the sun is deflected or reflected on the outside of the window pane. Using solar control glass is the most effective way to achieve this.

This is an insulating glass whose outer pane is vapour-plated on the inside with a wafer-thin layer that is usually made of silver and is invisible to the naked eye. What this silver coating does is reflect the sun's long-wave heat radiation. In fact, up to 50 percent of the sun's energy can be reflected in this way. This significantly reduces the room temperature in summer.

At the same time, spaces between the panes are filled with inert gas and a transparent metal layer ensuring that as little heat as possible is released. This keeps the heat inside the room during the cold season. Not only does this yield significant energy savings, but also a greater level of living comfort.

Compared to standard insulating glass, UNIGLAS® I SUN 365D has a significantly better Ug value, making it low-e glass which can help to reduce heating costs in winter thanks to its insulating properties.

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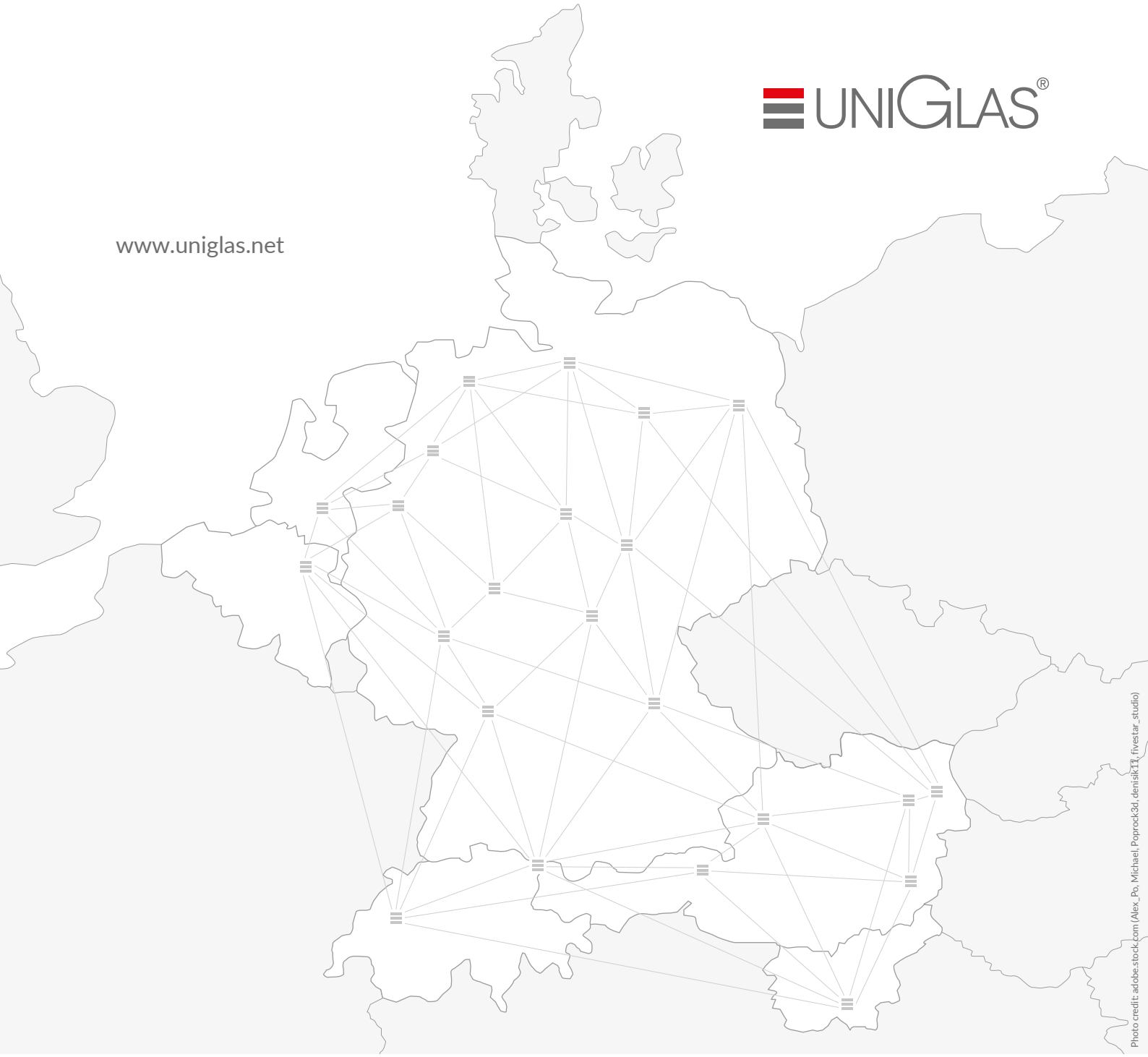

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