



ORAGUARD[®] HelioShield

Spectrally Selective Sun Protection Films



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ORAGUARD® HelioShield enables the efficient retrofitting of glass surfaces with state-of-the-art solar protection technology. These innovative premium films combine high light transmission with excellent infrared reflection, significantly reducing heat build-up in buildings during the summer months. The result: a more comfortable indoor climate in non-air-conditioned spaces and a substantial reduction in cooling costs for air-conditioned buildings – without significantly altering the original appearance of the glass. ORAGUARD® HelioShield is available as both an interior and exterior film, ensuring the perfect solution for any type of glazing.

Product Properties

- **High Light Transmission** – Maximizes the use of natural daylight.
- **Color-Neutral Daylight** – High color rendering index (~97 %) ensures an almost unchanged perception of natural light.
- **Effective Infrared Rejection** – Significantly reduces heat radiation indoors.
- **Maximum Energy Efficiency** – Lowers cooling energy demand in air-conditioned buildings and substantially reduces energy costs.
- **Minimal Absorption** – Reduces thermal stress on glazing, allowing for versatile applications.
- **Reliable UV Protection** – Blocks nearly 100 % of UV radiation, ensuring long-term protection of interiors and furnishings.
- **Neutral Appearance** – No noticeable reflections or mirror effects, preserving the building's original facade appearance.
- **Flexible Application** – Available as both interior and exterior film, providing the ideal solution for any type of glazing.

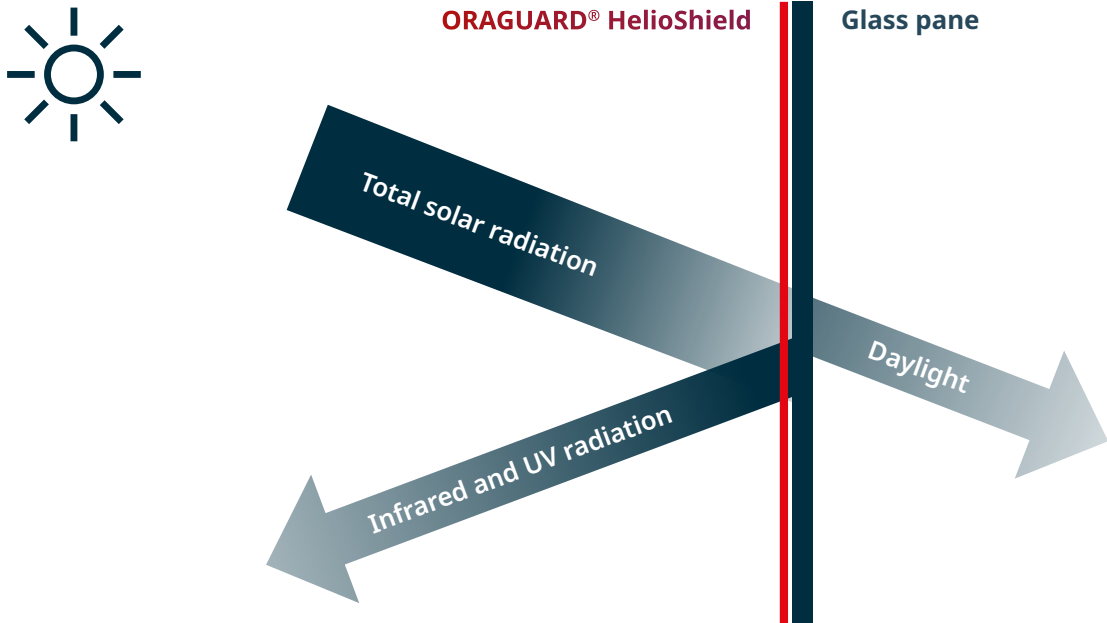
Technical Data* (excerpt):

Properties	ORAGUARD® HelioShield 75 Int.	ORAGUARD® HelioShield 75 Ext.
Light Transmission	73 %	71 %
Reflection (on the film side)	9 %	8 %
Absorption	22 %	26 %
Total Solar Energy Rejection (TSER)	53 %	57 %
G-Value	0,47	0,43
UV Protection	> 99 %	> 99 %
Thickness	62,5 µm	75 µm
Installation	Interior	Exterior
Color Rendering Index D65	97 %	97 %
Warranty	12 Years	10 Years

Fire protection in accordance with EN 13501-1: See our website at www.orafol.com

* Data measured on 4mm float glass in accordance with EN 410 and are subject to technical tolerances. Subject to alterations.

Functionality



Application

In Air-Conditioned Buildings

By significantly reducing solar heat gain, cooling costs can be lowered by up to 30 %, enabling more efficient and sustainable climate control. Fast Return on Investment – ORAGUARD® HelioShield pays for itself quickly, with an average ROI within the first three years after installation.

In Non-Air-Conditioned Buildings

Thanks to advanced spectrally selective technology, the films do effectively reflect a large portion of solar radiation, creating a natural, passive cooling effect. This results in more comfortable

indoor temperatures, especially during hot summer months, significantly enhancing occupant well-being.

Year-Round Efficiency

Despite effectively reducing heat build-up, the films maintain high light transmission, ensuring ample daylight even in winter. This keeps indoor spaces naturally bright – 365 days a year. Additionally, the films' extremely low absorption minimizes thermal stress on glazing, enhancing its durability and lifespan.



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