

# Reflective Helios Dark Silver

RHE 20 SI ER HPR

## Performance Data



Technical data according To EN 410 and EN 673*	4 mm single	4/16/4 mm double
Solar Energy Transmission, $\tau_e$	12%	11%
Solar Energy Reflection, $\rho_e$	60%	
Solar Energy Absorbtion, $\alpha_e$	28%	29%
Visible Light Transmission, $T_V$	16%	15%
Visible Light Reflection (External), $\rho_{ve}$	62%	
Visible Light Reflection (Internal), $\rho_{vi}$	60%	59%
Ultraviolet Transmission, $\tau_{UV}$	<1%	
Ultraviolet Rejection	>99 %	
g value	0.19	0.15
Shading Coefficient	0.22	0.17
Total Solar Energy Rejected	81%	85%
Glare Reduction	82%	
U value, single glazing (W/m <sup>2</sup> .K)	5.7	
U value, double glazing, Air filled (W/m <sup>2</sup> .K)		2.69
Emissivity, $\epsilon_n$	0.74	
Colour Rendering Index, $R_a$	85	
Film Colour / Appearance	Silver	
Installation position	External	
Warranty**: 10 Years vertical / 5 Years sloping		

Installation Notes: Edge sealing required. Use Film On for installation.

Please check the complete Film to Glass Thermal Stress Compatibility Guidelines before film installation; Contact Eastman Performance Films for full details.

\*The properties reported for LLumar architectural window films were calculated using EN410 methodology for film applied to single pane (4mm clear glass) and dual pane glazing (4mm clear glass panes, 16mm air space). Reported values were calculated from representative product samples. Actual performance may vary based on a number of factors, including glass properties, and standard manufacturing variances. Solar spectrum used: UV 300-380nm, Visible Light 380-780nm, IR 780-2500nm.

\*\*Warranty validity: Europe only

Datasheet created on 16/02/18. For a more recent version please contact your LLumar representative.

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Solar Control & Energy Savings

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## Features And Benefits



- Reflective solar control and privacy exterior grade film
- Used where an exterior application is critical to provide excellent heat and glare reduction are desired for rapid return on investment
- Provides our highest level of daytime privacy with optical transparency
- Helios technology includes hydrophobic (water resistance), oleophobic (oil resistance) and UV blocking, giving excellent weather resistance and durability
- Patented coating technology that has resulted in a durable and easy to clean product.
- Rejects up to 81% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort.
- Reduction of hot spots helps increase HVAC efficiency and lower energy costs
- Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings
- Reduces glare, which is a contributor to eye fatigue
- Exterior installation