

## Performance Data



Technical data according to EN 410 and EN 673*	4 mm single	4/16/4 mm double
Solar Energy Transmission, $\tau_e$	18%	16%
Solar Energy Reflection, $\rho_e$	36%	
Solar Energy Absorption, $\alpha_e$	46%	48%
Visible Light Transmission, $T_V$	17%	16%
Visible Light Reflection (External), $\rho_{ve}$	36%	38%
Visible Light Reflection (Internal), $\rho_{vi}$	12%	13%
Ultraviolet Transmission, $\tau_{UV}$	<1%	
Ultraviolet Rejection	99%	>99 %
g value	0.28	0.42
Shading Coefficient	0.32	0.48
Total Solar Energy Rejected	72%	58%
Glare Reduction	81%	
U value, single glazing (W/m <sup>2</sup> .K)	5.15	
U value, double glazing, Air filled (W/m <sup>2</sup> .K)		2.56
Emissivity, $\epsilon_n$	0.62	
Colour Rendering Index, $R_a$	90	89
Film Colour / Appearance	Warm Grey	
Installation position	Internal	
Manufacturer's Limited Warranty**: 10 Years		

Installation Notes: X-100 may be used for installation. 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.

\*\*Manufacturer's Limited Warranty validity: Europe only. Certain restrictions apply, see authorized dealer for warranty details.

Datasheet created on 20/02/19. For a more recent version please contact your LLumar representative.

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Solar Control & Energy Savings

# DualReflective 15

DR 15 DR SR CDF

## Features And Benefits



- Solar control, dual reflective neutral appearance
- Used where excellent heat and glare reduction are required, and a low interior surface reflectance is desired at night, with a warm to neutral daylight ambiance
- Improves building aesthetics
- Rejects up to 72% 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
- Durable scratch-resistant coating for easy cleaning
- Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings
- Reduces glare, which is a contributor to eye fatigue
- Interior installation