

Guardian Climaguard®

A+

Guardian offers Climaguard® A+, a thermal insulating glass that meets very high performance and quality standards in terms of transparency and solar heat gain. Using Guardian Climaguard® A+ will not only have a positive effect on your heating costs but will also make an active contribution to environmental protection and sustainability.

Product Description

By combining excellent thermal insulation with a high level of solar heat gain, Climaguard A+ may help to reduce heating costs during winter months. Through the efficient use of free solar energy, Climaguard A+ allows solar heat gains to pass through the glazing which is then retained within the building by the low emissivity coated glass. The glazing also has an exceptionally neutral, transparent appearance.

Technical Data / Performance Table

Visible light				Solar energy			Solar factor (g) EN 410 [%]	Shad-coeff. gEN/0,87	U-Value (EN 673) Argon 90% [W/m²K]
Transmission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct trans- mission [%]	Reflection outside [%]	Absorption [%]			
Double Glazing 4-16-4, Climaguard A+ on #3									
82	13	13	98	63	22	15	71	0.81	1.2
Triple Glazing 4-16-4-16-4, Climaguard A+ on #3 and #5									
74	17	17	96	50	26	23	61	0.70	0.6

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-values according to EN 673.

Processing

Climaguard A+ is a single product, soft coat Low E glass, which uses magnetron sputtered technology to produce a durable, processor-friendly coated glass. The coating must be removed from the perimeter, via edge deletion, before being manufactured into hermetically sealed, insulated glass units. As a single product Climaguard A+ can be used either in its annealed form or can be heat treated for use in safety glazing, which is a key requirement of Building Regulations.

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