

# Guardian Climaguard® A 1.1

## Balanced thermal performance

Guardian Climaguard® A 1.1 is a single product Low E glass with an U-Value of 1.1, which offers an excellent level of thermal insulation, transparency and solar heat gain. Using Climaguard A 1.1 not only may have a positive effect on your heating costs but can also help make an active contribution to improving the comfort of your home. The combination of a low U-Value and a high 65% g value means that Climaguard A 1.1 can be used in both commercial and residential applications providing excellent thermal performance.

“A single product solution for 1.1 U-Value performance - Comfort & energy saving combined”

### Product Description

Climaguard A 1.1 combines an excellent level of thermal insulation with a high light transmission, natural appearance, and a high level of solar heat gain. The result is a Low E glass with a very similar aesthetic appearance to clear float glass, which offers exceptional performance in both energy saving and comfort.

### 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 1.1 on #3									
79	13	14	98	57	27	16	65	0.74	1.1
Triple Glazing 4-16-4-16-4, Climaguard A 1.1 on #3 and #5									
70	16	18	97	44	32	24	55	0.63	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 1.1 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 1.1 can be used either in its annealed form or it can be heat treated for use in safety glazing, which is a key requirement of Building Regulations.

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