

Thermally insulating glass



ClimaGuard[®] DS

Extra durable Low E glass

Guardian offers ClimaGuard DS a thermally insulating Low E glass which combines the aesthetic benefits of soft coat Low E glass, with the durable benefits of hard coat, pyrolytic Low E glass. This durable Low E provides exceptional mechanical stability, without the need for edge deletion when used with approved sealants.

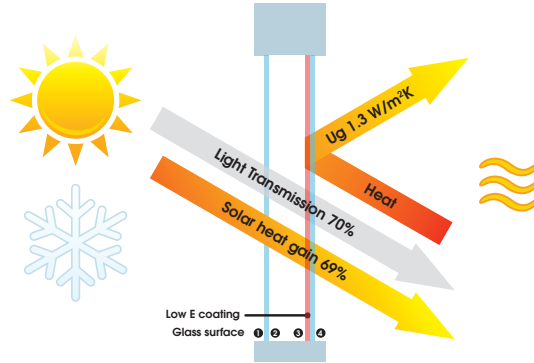
ClimaGuard DS has been specifically developed to allow window manufacturers and insulating glass suppliers to meet the needs of Building Regulations using a product which doesn't require the same level of processing attention normally associated with a soft coat Low E glass. This easy to process product, also has an improved performance compared to most hard coat Low E. With a Low 1.3 U value and a high g value, ClimaGuard DS offers comparable window energy rating results to other hard coat Low E glass options.

“Soft coat performance with hard coat attributes - offering a clear alternative to hard coat Low E glass with similar mechanical durability”



Product Description

ClimaGuard DS offers all the aesthetic advantages of a soft coat Low E glass; uniformity, clarity, and consistency, with a very slight, attractive hint of blue.



Double glazing 4-16-4, argon 90%

Technical Data / Performance Table

Double Glazed						
Outer Pane	Cavity (mm)*	Inner Pane Coated Glass Surface (#)	Light Transmission	Reflectance (Outside)	Solar Heat Gain (g-value)	Centre pane U-value
Extra Clear	16mm Argon	ClimaGuard DS (#3)	70%	12%	69%	1.3 W/(m²K)
Low Iron	16mm Argon	ClimaGuard DS (#3)	70%	12%	71%	1.3 W/(m²K)

Triple Glazed								
Outer Pane	Cavity (mm)*	Middle Pane Coated Glass Surface (#)	Cavity (mm)*	Inner Pane Coated Glass Surface (#)	Light Transmission	Reflectance (Outside)	Solar Heat Gain (g-value)	Centre pane U-value
Extra Clear	16mm Argon	ClimaGuard DS (#3)	16mm Argon	ClimaGuard DS (#5)	55%	14%	57%	0.7 W/(m²K)
Extra Clear	12mm Krypton	ClimaGuard DS (#3)	12mm Krypton	ClimaGuard DS (#5)	55%	14%	57%	0.6 W/(m²K)

*Gas filling rate 90%

The performance values shown are nominal and subject to variations due to manufacturing tolerances

Processing

As a single product, ClimaGuard DS can be used in either its annealed form or it can be toughened, which reduces stock commitment where annealed and heat treatable versions would normally be required. Unlike other soft coat Low E glass, ClimaGuard DS does not require edge deletion*, its advanced durability makes it exceptionally stable during processing, allowing it to be manufactured into insulating glass units in much the same way as a hard coat, Low E glass.

*Compliant with Guardian approved sealant list

Standards

EN410 – Light & heat, EN673 – U Value



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