

Intelligent glass – ultimate comfort

# ClimaGuard® Premium2

The next generation of thermal insulation glass

Energy efficiency is of crucial importance. The trend in housing is to increase the ratio of glass in the building envelope to let in as much natural daylight as possible and to allow the sun's warm rays in, but without sacrificing thermal insulation. ClimaGuard® Premium2 ideally combines these three features, which makes it suitable for low energy and passive housing.

*„Take a look into our best Premium glass!“*



Ideal for double and triple glazing



High solar heat gain



## High performances in double and triple glazing

- exceptionally high level of light transmission in triple glazing: 74%
- higher natural daylight and less unnecessary artificial lighting
- higher level of transparency without disruptive reflections
- increases comfort

## High solar heat gain | Suitable for applications in passive housing constructions

- optimal thermal insulation:  $U_g = 0.6 \text{ W/m}^2\text{K}$  in triple glazing \*
- energy saving
- well-being

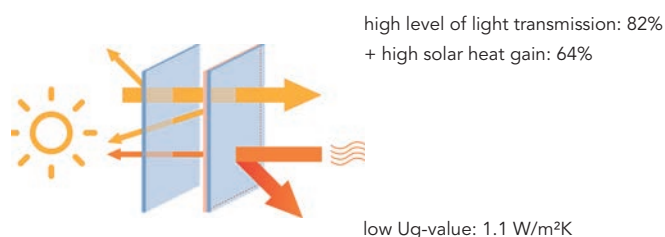
## Performance table

Visible light				Solar energy			Solar factor (g) EN 410 [%]	Ug-value (EN 673) Argon 90% [W/m²K]
Trans- mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct transmission [%]	Reflection outside [%]	Absorption [%]		
Double Glazing: 4-16-4, ClimaGuard® Premium2 on surface #3								
82	12	13	98	58	28	14	64	1.1
Triple Glazing: 4-14-4-14-4, ClimaGuard® Premium2 on surface #2+5								
74	16	16	97	47	33	20	53	0.6
Triple Glazing: 4-14-4-14-4, ClimaGuard® Premium2 on surface #3+5*								
74	16	16	97	47	33	20	55	0.6

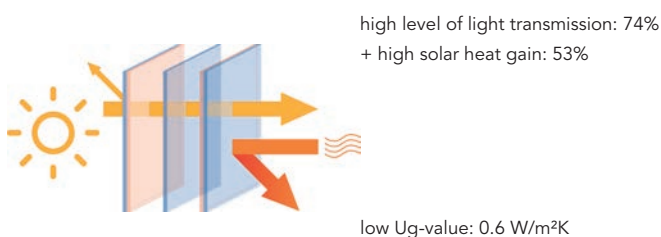
The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-values according to EN 673. ClimaGuard Premium2 is also available in heat-treatable (T) version with matching appearance. If annealed and T versions are placed side by side in a façade, we recommend a full size outdoor mock up to verify possible deviations in appearance due to product tolerances.

\* For standard glass build ups and applications and window frames without thermal bridge. Guardian offers a thermal analysis for specific build ups and building situations.

### Double Glazing ClimaGuard® Premium2 on surface #3



### Triple Glazing ClimaGuard® Premium2 on surface #2 + 5



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