

Intelligent glass – ultimate comfort

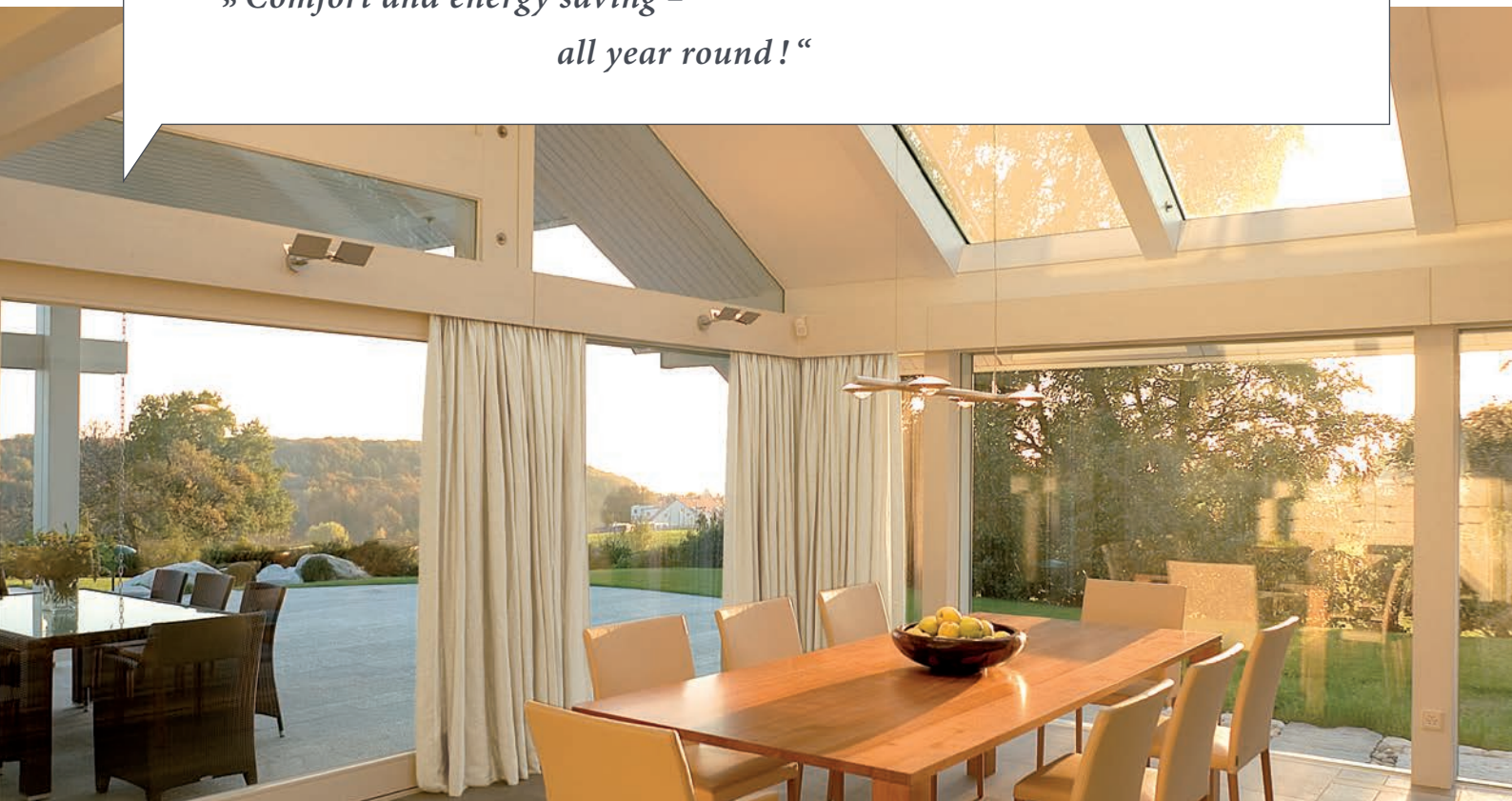
# ClimaGuard® Solar

Thermal insulating glass

Reducing energy consumption in modern buildings is essential. In addition to lowering heating costs in winter, we also need to consider reduction of the amount of energy used for air-conditioning in summer.

ClimaGuard® Solar is a product of advanced technology that ensures high light transmission, excellent thermal insulation ( $U$  value =  $1.0 \text{ W/m}^2\text{K}$ ) and effective protection against solar radiation. The use of ClimaGuard Solar in windows allows to enjoy sunlight and contributes to a feeling of comfort and well-being, whatever the outside temperature.

*„ Comfort and energy saving –  
all year round ! “*



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Intelligent solar control: FS 42%

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Optimal thermal insulation:  $U_g 1.0 \text{ W/(m}^2\text{K)}$

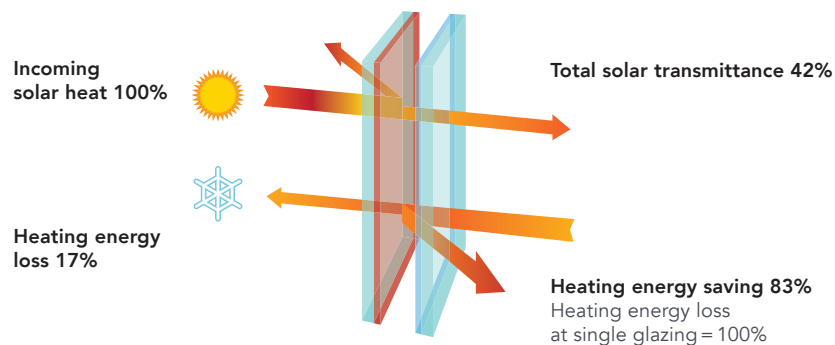
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Maximum transparency and luminosity:  $T_L 67\%$



## Features and Benefits

ClimaGuard® Solar is the perfect choice for renovation projects or new residential construction, where comfort, luminosity and energy management are desirable.



Glazing: 4-16-4, ClimaGuard Solar on #2, Argon 90%

ClimaGuard Solar differentiates between various wave-lengths of solar radiation: most of the infra-red radiation (which would otherwise heat the inside of the building) will be reflected, however it can still allow daylight to pass through almost unrestricted. In buildings where no air-conditioning is installed, ClimaGuard Solar enhances the feeling of comfort. Furthermore, in those buildings equipped with air-conditioning, ClimaGuard Solar reduces its consumption cost.

Moreover, its low U value ( $1.0 \text{ W/m}^2\text{K}$  in standard double glazing) reduces the heating costs during cold winter and favors an increase in temperature of the inner glass, which enhances the comfort of your place.

ClimaGuard Solar, a glass that reduces  $\text{CO}_2$  emissions providing a direct contribution to climate protection.

## Product Performance

Visible light				Solar energy			Solar factor (g) EN 410 [%]	U-value (EN 673)	
Trans-mission [%]	Reflection outside [%]	Reflection inside [%]	Colour rendering index	Direct trans-mission [%]	Reflection outside [%]	Absorp. [%]		Air [W/m <sup>2</sup> K]	Argon 90% [W/m <sup>2</sup> K]
67	27	24	96	41	43	16	42	1.3	1.0

Glazing: 4-16-4, ClimaGuard® Solar on #2

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

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