



GUARDIAN EUROPE Sàrl
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ClimaGuard® Premium

Surface 3

		ClimaGuard® Premium							
		EN 1096-4							
		Coated soda lime silicate glass intended to be used in buildings and construction works values as of January 2014							
		03 mm	04 mm	05 mm	06 mm	08 mm	10 mm	12 mm	15 mm
Resistance to fire		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to fire		A1	A1	A1	A1	A1	A1	A1	A1
External fire performance		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bullet resistance		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Explosion resistance		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Burglar resistance		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Pendulum body impact resistance		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Resistance against sudden temperature changes and temperature differentials	K	40	40	40	40	40	40	40	40
Wind, snow, permanent and imposed load resistance	mm	3	4	5	6	8	10	12	15
Direct airborne sound insulation	dB	28 (-1;-4)	29 (-2;-3)	30 (-1;-2)	31 (-2;-3)	32 (-2;-3)	33 (-2;-3)	34 (0;-2)	36 (-1;-3)
Thermal properties									
Normal emissivity of coated glass surface ϵ_n		0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03
Thermal transmittance (U-value)	W/(m ² .K)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Radiation properties									
Light transmission τ_V		0,88	0,88	0,88	0,88	0,87	0,87	0,86	0,85
Light reflection (coated side / glass side) ρ_V		0,05 / 0,06	0,05 / 0,06	0,05 / 0,06	0,05 / 0,06	0,05 / 0,06	0,05 / 0,06	0,05 / 0,06	0,04 / 0,06
Solar energy transmission τ_E		0,62	0,61	0,60	0,60	0,59	0,57	0,56	0,54
Solar energy reflection (coated side / glass side) ρ_E		0,28 / 0,25	0,28 / 0,24	0,28 / 0,23	0,28 / 0,23	0,28 / 0,21	0,28 / 0,19	0,28 / 0,19	0,28 / 0,16

NPD = No Performance Determined



All values are nominal values and subject to product tolerances Disclaimer: The Information contained in this publication is a general description of glass products and GUARDIAN hereby disclaims all liability howsoever arising from any inaccuracy in or omissions from this publication and all the consequences of relying on it. It is the responsibility of the users of this information to ensure that the intended application of glass products is appropriate and complies with all relevant laws, regulations, standards, codes of practices and other requirements.



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