



GUARDIAN EUROPE Sàrl
19, rue du Puits Romain
L-8070 Bertrange
G-D of Luxembourg

Product Category : Coated Glass - Low Emissivity and Solar Control Glass

TYPE:

ClimaGuard

PRODUCT:

ClimaGuard® Premium2

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EN 1096-4:2018

Coated soda lime silicate glass intended to be used in buildings and construction works
values as of June 2016

		03mm	04mm	05mm	06mm	08mm	10mm	12mm
Resistance to fire test (EN 13501-2)		NPD						
Reaction to fire (EN 13501-1)		A1						
External fire performance (EN 13501-5)		NPD						
Bullet resistance (EN 1063)		NPD						
Explosion resistance (EN 13541)		NPD						
Burglar resistance (EN 356)		NPD						
Pendulum body impact resistance (EN 12600)		NPD						
Resistance against sudden temperature changes and temperature differentials	K	40	40	40	40	40	40	40
Wind, snow, permanent and imposed load resistance	mm	3	4	5	6	8	10	12
Characteristic Bending Strength	MPa	45	45	45	45	45	45	45
Direct airborne sound insulation (EN 12758)	dB	28 (-1;-4)	29 (-2;-3)	30 (-1;-2)	31 (-2;-3)	32 (-2;-3)	33 (-2;-3)	34 (0;-2)
Thermal properties								
Normal emissivity of coated glass surface ϵ_n (EN 12898)		0.03	0.03	0.03	0.03	0.03	0.03	0.03
Radiation properties								
Light transmission τ_V (EN 410)		0.90	0.90	0.90	0.89	0.89	0.89	0.88
Light reflection (coated side / glass side) ρ_V (EN 410)		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
Solar energy transmission τ_E (EN 410)		0.66	0.65	0.64	0.64	0.63	0.61	0.60
Solar energy reflection (coated side / glass side) ρ_E (EN 410)		0.27 / 0.25	0.27 / 0.24	0.27 / 0.23	0.27 / 0.22	0.27 / 0.21	0.27 / 0.19	0.27 / 0.18
Solar factor (coated side / glass side) g (EN 410)		0.67 / 0.67	0.67 / 0.67	0.66 / 0.66	0.66 / 0.66	0.65 / 0.65	0.64 / 0.64	0.63 / 0.63
Durability (EN 1096)		C	C	C	C	C	C	C

NPD = No Performance Determined