



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

Product Category : Float Glass

PRODUCT:

Guardian ExtraClear™

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EN 572-9:2005

Basic soda lime silicate glass intended to be used in buildings and construction works values as of May 2021

		02mm	03mm	04mm	05mm	06mm	08mm	10mm	12mm	15mm
Resistance to fire test (EN 13501-2)		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to fire (EN 13501-1)		A1	A1	A1	A1	A1	A1	A1	A1	A1
External fire performance (EN 13501-5)		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bullet resistance (EN 1063)		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Explosion resistance (EN 13541)		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Burglar resistance (EN 356)		NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Pendulum body impact resistance (EN 12600)		NPD	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	40
Wind, snow, permanent and imposed load resistance	mm	2	3	4	5	6	8	10	12	15
Characteristic Bending Strength	MPa	45	45	45	45	45	45	45	45	45
Direct airborne sound insulation (EN 12758)	dB	NPD 28 (-1;-4)	29 (-2;-3)	30 (-1;-2)	31 (-2;-3)	32 (-2;-3)	33 (-2;-3)	34 (-1;-2)	36 (-1;-3)	
Thermal properties										
Thermal transmittance (U-value)	W/(m².K)	5.8	5.8	5.8	5.7	5.7	5.6	5.6	5.5	5.4
Radiation properties										
Light transmission τ_V (EN 410)		0.91	0.91	0.91	0.90	0.90	0.90	0.89	0.88	0.88
Light reflection ρ_V (EN 410)		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Solar energy transmission τ_E (EN 410)		0.89	0.88	0.87	0.86	0.84	0.83	0.80	0.78	0.74
Solar energy reflection ρ_E (EN 410)		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07

NPD = No Performance Determined