



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:

SunGuard High Performance

PRODUCT:

SunGuard® HP Neutral 60/40

## SunGuard® HP Neutral 60/40

EN 1096-4:2018

Coated soda lime silicate glass intended to be used in buildings and construction works values as of May 2011

		04mm	05mm	06mm	08mm	10mm	12mm	15mm
Resistance to fire test (EN 13501-2)		NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to fire (EN 13501-1)		A1	A1	A1	A1	A1	A1	A1
External fire performance (EN 13501-5)		NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bullet resistance (EN 1063)		NPD	NPD	NPD	NPD	NPD	NPD	NPD
Explosion resistance (EN 13541)		NPD	NPD	NPD	NPD	NPD	NPD	NPD
Burglar resistance (EN 356)		NPD	NPD	NPD	NPD	NPD	NPD	NPD
Pendulum body impact resistance (EN 12600)		NPD	NPD	NPD	NPD	NPD	NPD	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	4	5	6	8	10	12	15
Characteristic Bending Strength	MPa	45	45	45	45	45	45	45
Direct airborne sound insulation (EN 12758)	dB	29 (-2;-3)	30 (-1;-2)	31 (-2;-3)	32 (-2;-3)	33 (-2;-3)	34 (0;-2)	36 (-1;-3)
<b>Thermal properties</b>								
Normal emissivity of coated glass surface $\epsilon_n$ (EN 12898)		0.04	0.04	0.04	0.04	0.04	0.04	0.04
<b>Radiation properties</b>								
Light transmission $\tau_V$ (EN 410)		0.62	0.62	0.61	0.61	0.61	0.60	0.60
Light reflection (coated side / glass side) $\rho_V$ (EN 410)		0.11 / 0.21	0.11 / 0.21	0.11 / 0.21	0.11 / 0.20	0.11 / 0.20	0.11 / 0.20	0.11 / 0.20
Solar energy transmission $\tau_E$ (EN 410)		0.42	0.41	0.41	0.40	0.39	0.38	0.37
Solar energy reflection (coated side / glass side) $\rho_E$ (EN 410)		0.35 / 0.35	0.35 / 0.34	0.35 / 0.33	0.35 / 0.31	0.35 / 0.29	0.35 / 0.28	0.35 / 0.25
Solar factor (coated side / glass side) $g$ (EN 410)		0.47 / 0.45	0.47 / 0.45	0.46 / 0.44	0.46 / 0.44	0.45 / 0.43	0.45 / 0.43	0.44 / 0.42
Durability (EN 1096)		C	C	C	C	C	C	C

NPD = No Performance Determined