



HIGH PERFORMANCE GLASS

SunGuard High Performance Neutral 61

SOLAR CONTROL COMBINED WITH THERMAL INSULATION



Project : Mercedes Benz Plaza, Moscow, Russia

Visible Light		Solar	Solar Factor		Shading Coefficient		U value	
Total Transmission %	Reflection Outside %	Absorption %	EN 410 %	DIN 67507 % g	g EN / 0.87	g DIN / 0.87	Air W/m ² K	Argon (90%) W/m ² K
61	23	30	42	40	0.48	0.45	1.4	1.2

Contemporary architecture is notable for its generous use of glass. Homes and offices, flooded with light, play an important role in our quality of life. However, the high degree of transparency can also lead to increases in heat and ultraviolet light. Modern solar control glass such as SunGuard is able to minimise solar energy gain while allowing maximum visible light transmission for virtually any application.

- **Uniform reflected and transmitted colour**
- **Available in laminated form**
- **Can be toughened, heat-strengthened or bent**
- **Does not require edge deletion for approved sealants**
- **Single product for both annealed and heat treatment**
- **May be screen printed with approved enamels**



NEUTRAL 61

SUNGUARD HIGH PERFORMANCE



Glazing combination

Outer pane 6 mm SunGuard Neutral 61 # 2

Cavity

Inner pane 4 mm ExtraClear Float # 0

Indicates the position of any coated surface. The glass surfaces of an insulating glass unit are numbered from the outside to the inside.

Glass Code 61/42

Light properties

Light transmission	External light reflection	Internal Light reflection
61	23	20

Solar properties

Direct transmission	Reflection	Absorption	Total transmission
39	31	30	42

Shading coefficients

Total	Short wave	Long Wave
0.48	0.44	0.04

U value (SunGuard Neutral 61 $\epsilon_n = 0.05$)

Cavity width (mm)	10	12	14	16	18	20
Air (W/m ² K)	1.9	1.7	1.5	1.4	1.4	1.5
Argon (90%) (W/m ² K)	1.5	1.3	1.2	1.2	1.2	1.2

Environmental solar gain factors

Mean	Alternating Light	Alternating Heavy
0.38	0.31	0.24

The calculated performance values are indicative only, for the insulating glass unit specifications as listed. The performance values for light, solar and thermal properties are calculated according to the general principles of EN 673 and EN 410.

Acoustic attenuation

6mm / 16mm argon / 4mm

R_w (C;Ctr) = 35 (-2;-6)

R_w = 35 dB

R_A = 33 dB

$R_{A, tr}$ = 29 dB

The acoustic attenuation data is taken from laboratory measurements.

The information on this sheet is for guidance purposes and only relate to the glass construction.

SunGuard coating position

