



effect glass S.A.  
 ul. Hauke Bosaka 2  
 25-214 Kielce  
 Poland

effect glass S.A.  
 Wędkowy Branch  
 83-115 Swarzędz  
 Poland

according to requirements of the standard:

**PN-EN 1279-5+A2:2011 Schedule ZA**

name / intended use of the product:

**insulated glass unit / for use in construction industry and construction works**

identification of the product:

**4PL/16/4/16/4LE+A (PLANISTAR SUN)**

Characteristics:		Value:	Standard
Fire resistance		NPD	EN-13501-2
Reaction to fire		NPD	EN-13501-1
Behavior of external fire		NPD	
Bullet resistance		NPD	EN 1063
Explosion resistance		NPD	EN 13541
Resistance against manual attack		NPD	EN 356
Pendulum body impact resistance		NPD	EN 12600
Resistance against sudden temperature changes and temperature differentials	[°K]	40/40/40	EN 572
Wind, snow, permanent and imposed load resistance	[mm]	4/4/4	
Airborne sound insulation	$R_w(C;C_{tr})$ [dB]	NPD	EN 12758
Light transmittance factor	$\tau_v$ [%]	65	EN 410
Light reflectance factor	$\rho_v / \rho'_v$ [%]	16/17	EN 410
Solar direct transmittance factor	$\tau_c$ [%]	31	EN 410
Solar direct reflectance factor	$\rho_e / \rho'_e$ [%]	38/40	EN 410
Total solar energy transmittance factor	g [%]	35	EN 410
Thermal transmittance factor	U [W/m <sup>2</sup> K]	0,6	EN 673

NPD - No performance determined

Effect Glass S.A. declares, under its sole responsibility, that the construction product is in conformity with the above performance characteristics.

Technical Director

*W. Bratek*

Waldemar Bratek

Kielce, 2016-03-29

**Notified Body taking part in conformity assessment of the product:**

Institute of Ceramics and Building Materials in Warsaw. Glass and Building Materials Division in Cracow. Glass Technology Unit. 30-702 Cracow ul. Lipcowa 3 - Initial Type Testing

Institute of Ceramics and Building Materials in Warsaw. Ceramics and Glass Section. 02-676 Warsaw ul. Postępu 9 - Factory Production Control Certificate, Conformity Certificate acc. To. PN-EN 1279-5

**Schedule no. 1 to the Declaration of Performance:**

Copy of particulars accompanying CE marking