



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

effect glass S.A.  
 Wędkowy Branch  
 83-115 Swarozyn  
 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:

**ESG4LE/16/4/16/33.1LE+A**

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		1C1/NPD/2B2	EN 12600
Resistance against sudden temperature changes and temperature differentials	[°K]	200/40/40	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	$\tau_v$ [%]	74	EN 410
Light reflectance factor	$\rho_v / \rho'_v$ [%]	16/16	EN 410
Solar direct transmittance factor	$\tau_c$ [%]	45	EN 410
Solar direct reflectance factor	$\rho_e / \rho'_e$ [%]	33/28	EN 410
Total solar energy transmittance factor	g [%]	54	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, 2015-12-21

**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