



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:

**33.1LE/12/4/12/ESG4LE+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		2B2/NPD/1C1	EN 12600
Resistance against sudden temperature changes and temperature differentials	[°K]	40/40/200	EN 572
Wind, snow, permanent and imposed load resistance	[mm]	NPD	
Airborne sound insulation	$R_w(C;C_{tr})$ [dB]	NPD	EN 12758
Light transmittance factor	$\tau_v$ [%]	74	EN 410
Light reflectance factor	$\rho_v / \rho'_v$ [%]	14/14	EN 410
Solar direct transmittance factor	$\tau_c$ [%]	45	EN 410
Solar direct reflectance factor	$\rho_e / \rho'_e$ [%]	28/32	EN 410
Total solar energy transmittance factor	g [%]	51	EN 410
Thermal transmittance factor	U [W/m <sup>2</sup> K]	0,7	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, 2016-09-12

**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