



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:

**ESG4/12/4/12/33.1LE+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  | $\rho_v / \rho'_v$ [%] | 18/17       | EN 410     |
| Solar direct transmittance factor   | $\tau_c$ [%]           | 50          | EN 410     |
| Solar direct reflectance factor   | $\rho_e / \rho'_e$ [%] | 29/26       | EN 410     |
| Total solar energy transmittance factor                                     | g [%]                  | 60          | EN 410     |
| Thermal transmittance factor  | U [W/m <sup>2</sup> K] | 1,0         | 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, 2016-10-11

**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