

DECLARATION OF PERFORMANCE NO 33.1/16/33.1LE+A(STN)



Manufacturer:

1. EFFECTOR S.A.  
ul. Hauke-Bosaka 2  
25-214 Kielce POLSKA

2. EFFECTOR S.A.  
Oddział Wędkowy  
83-115 Swarzędz POLSKA



|                                                                                                                                                                                                                                                                         |                                                                                |              |               |                 |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------|---------------|-----------------|-------------|
| Harmonised standard:                                                                                                                                                                                                                                                    | PN-EN 1279-5:2018 attachment ZA                                                |              |               |                 |             |
| Intended use/es:                                                                                                                                                                                                                                                        | Insulated glass unit / for use in construction industry and construction works |              |               |                 |             |
| Unique identification code of the product-type:                                                                                                                                                                                                                         | VL331\SN16\A\VL331N<br>(VSG 33.1\RAMKA STAL 16 NIERDZ\ARGON\VSG 33.1 LE)       |              |               |                 |             |
| Declared performance/s:                                                                                                                                                                                                                                                 | Standard                                                                       | AVCP Systems | Unit of meas. | Symbol          | Value       |
| Safety in the case of fire – Fire resistance                                                                                                                                                                                                                            | EN-13501-2                                                                     | 1            | -             |                 | NPD         |
| Safety in the case of fire – Reaction to fire                                                                                                                                                                                                                           | EN-13501-1                                                                     | 3,4          | -             |                 | NPD         |
| Safety in the case of fire – Impact of external fire                                                                                                                                                                                                                    | -                                                                              | 3,4          |               |                 | NPD         |
| Safety of use – Resistance to bullets: behavior in the case of breakdown and resistance to attack                                                                                                                                                                       | EN 1063                                                                        | 1            | -             |                 | NPD         |
| Safety of use – Resistance to explosion: behavior in the case of breakdown and resistance to attack                                                                                                                                                                     | EN 13541                                                                       | 1            | -             |                 | NPD         |
| Safety of use – Burglary resistance: behavior in the case of breakdown and resistance to attack                                                                                                                                                                         | EN 356                                                                         | 3            | -             |                 | NPD-NPD     |
| Safety of use – Resistance to pendulum impact: behavior in the case of breakdown (safe cracking) and impact resistance                                                                                                                                                  | EN 12600                                                                       | 3            | -             |                 | 2B2-2B2     |
| Safety of use – Mechanical resistance: Resistance to sudden temperature changes and temperature differences                                                                                                                                                             | EN 572                                                                         | 4            | °K            |                 | 40-40       |
| Safety of use – Mechanical resistance: Glass resistance to wind, snow pressure, permanent and/or applied load                                                                                                                                                           | -                                                                              | 4            | MPa           |                 | 45/45-45/45 |
| Noise protection: Direct airborne sound insulation 3-examination; 4-estimation; 5-extension EN 12758                                                                                                                                                                    | -                                                                              | 4            | dB            | Rw(C;Ctr)       | 35(-1;-5)   |
| Energy saving and heat retention – Thermal properties                                                                                                                                                                                                                   | EN 673                                                                         | 3            | W/(m2·K)      | Ug              | 1,1         |
| Energy saving and heat retention – Radiometric properties: Light transmittance factor                                                                                                                                                                                   | EN 410                                                                         | 3            | %             | LT, tv          | 80          |
| Energy saving and heat retention - Radiometric properties: External / internal light reflection factors                                                                                                                                                                 | EN 410                                                                         | 3            | %             | LR, pv/LR', p'v | 11/12       |
| Energy saving and heat retention - Radiometric properties: Direct solar energy transmittance factor                                                                                                                                                                     | EN 410                                                                         | 3            | %             | TE, te, ET      | 54          |
| Energy saving and heat retention - Radiometric properties: Direct solar energy reflection factor                                                                                                                                                                        | EN 410                                                                         | 3            | %             | ERe, pe, ER     | 23          |
| Energy saving and heat retention - Radiometric properties: Total solar energy transmittance factor                                                                                                                                                                      | EN 410                                                                         | 3            | %             | g               | 61          |
| Notified body: 1487                                                                                                                                                                                                                                                     |                                                                                |              |               |                 |             |
| The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above. |                                                                                |              |               |                 |             |

Signed for and on behalf of the manufacturer by: *Paweł Obara* at Kielce on 30/12/2024

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| NPD-No performance determined                                                                                                                             |
| If there are two or more values, this means that the first value refers to the first pane, the second value to the second pane, etc.                      |
| Confirmation of the HST-Heat Soak Test, types of spacer bar and IGU with silicone UV in the documents of purchase.                                        |
| Values of factors apply to vertical glazing, without mullions and glass decorations.                                                                      |
| DESCRIPTION: ESG-toughened glass; TVG-semi-toughened glass; Ar-Argon; Kr-Krypton; Emalit-enameled glass; Sitodruk-silk-screen printing; SI-acoustic foil. |