



**CENTRUM STAVEBNÍHO INŽENÝRSTVÍ a.s.**  
workplace ZLÍN, K Cihelně 304, 764 32 ZLÍN - Louky

issues to

Applicant: **PIVA OKNA SE**  
**Revoluční 1082/8, 110 00 Praha 1, Nové Město**

# CERTIFICATE

**for the characteristic of the product**  
**No. CV - 19 - 545/Z**

Product: **Plastic windows and casement door with roller shutter – system 120/Aluplast**

**Description:**

Design	Single-light window with roller shutter, double-light window with fixed mullion and roller shutter, double-light casement door (window) with meeting stile and roller shutter
Frame / reinforcement	120 / 229 029 – th. 1.5 mm; 140 401 / 229 029 – th. 1.5 mm
Casement / reinforcement	140 420 / 229 023 th. 1.5 mm
Other profiles	PVC roller shutter system Mignon + partial insulation of cavities; fixed mullion - 140 441 / 229 101 th. 1.5 mm; meeting stile - 140 469 / 229 063 th. 2.0 mm + cover
Glazing	Double or triple IGU with the appropriate composition (coating; Argon 90 %) $U_g = 1.1$ and $1.0$ th. 24 mm; $U_g = 0.8$ th. 34 mm; $U_g = 0.7$ th. 36 mm; $U_g = 0.6$ th. 40 mm; spacers for double IGU/ triple IGU: (Swisspacer V $\psi_g = 0.033/0.031$ ) Glazing bead with coextruded gasket in accordance with the product catalogue in according to the thickness of IGU, postextruded outer gasket No. 447980 in the corners welded
Gasket	Outer gasket on the frame No. 447980, inner gasket on the casement No. 447340, in the corners welded, roller shutter frame - airtight brush gasket on both sides of the shutter, at the entrance of the roller curtain to the shutter box is on the frame brush gasket PDS-2 B, next to the roller shutter is self-adhesive brush gasket LINEAR
Hardware	WINKHAUS typ Active Pilot
Dimensions - frame	1500 x 1500 mm; 2085 x 1565 mm; 1605 x 2110 mm

**Result:**

Title of the tested characteristic	Unit	Test method	Results
Resistance to wind load - for class 3 ( $p_1 = 1200$ Pa; $p_2 = 600$ Pa; $p_3 = 1800$ Pa)		EN 12211	Relative frontal deflection - $< 1/300$ , functional, without visible deformation
Air permeability - 600 Pa		EN 1026	<b>Class 3</b>
Watertightness – without penetration	(Pa)	EN 1027	<b>750; 1050; 600</b>
Load-bearing capacity of safety devices	(N)	EN 14609	<b>350</b>
Thermal transmittance $U_w$ * IGU $U_g = 1.1$ / frames $U_f = 1.5$ $W/(m^2.K)$ , $\psi_g = 0.033$ $W/(mK)$ IGU $U_g = 1.0$ / frames $U_f = 1.5$ $W/(m^2.K)$ , $\psi_g = 0.033$ $W/(mK)$ IGU $U_g = 0.8$ / frames $U_f = 1.5$ $W/(m^2.K)$ , $\psi_g = 0.031$ $W/(mK)$ IGU $U_g = 0.7$ / frames $U_f = 1.5$ $W/(m^2.K)$ , $\psi_g = 0.031$ $W/(mK)$ IGU $U_g = 0.6$ / frames $U_f = 1.5$ $W/(m^2.K)$ , $\psi_g = 0.031$ $W/(mK)$		EN ISO 10077-1	* <b>1.3</b> $W/(m^2.K)$ <b>1.3</b> $W/(m^2.K)$ <b>1.2</b> $W/(m^2.K)$ <b>1.1</b> $W/(m^2.K)$ <b>1.0</b> $W/(m^2.K)$

**This Certificate approves conformity of the above mentioned properties of the product values declared by the manufacturer:**

It conforms to: EN 12210 Resistance to wind load - <b>Class C3</b> ; EN 12207 Air permeability - <b>Class 3</b> ; EN 12208 Watertightness – single-light window - <b>class E750</b> , double-light window with fixed mullion - <b>class E1050</b> , double-light casement door (window) with meeting stile - <b>class 9A</b> ; EN 14351-1+A2 Load-bearing capacity of safety devices - <b>350 N</b> ; ČSN 73 0540-2 Thermal transmittance - $U_{N,20} \leq 1.5$ $W/(m^2.K)$ , recommended $U_{rec,20} \leq 1.2$ $W/(m^2.K)$
---

**Background documents:** Report about an assessment of the performance of the product  
No. 1390-CPR-0092-2017/Z rev. 1 – issued by CSI a.s. – NB 1390

The Certificate applies only for product which its specification is given in the Test Report in detail. The Certificate verifies the above mentioned product characteristics, however, it does not represent nor substitute the certification in accordance with Act No. 22/1997 Coll. on Technical Requirements for Products.

Date of issue: **26.09.2019**  
Valid till: **26.09.2021**  
Elaborated by: **Miroslav Kořistka**



*Ke*