



Electrically opened flat roof window equipped with the P2 single chamber energy-efficient anti-burglary glazing unit and a glass section.

Window construction

Window colour	Plastic white colour
Window flashing colour	Black RAL 9005
Number of seals [pcs.]	3
Manual closing (handle model)	no
Material	Multi-chamber PVC profile
Air inlet	no
Window type	Flat
Walkable window (Walk ON)	No
Roof type	Flat (2° - 15°)
Material	PVC

Glazing unit parameters

Emissivity	#3 / 0,01
Gas content [%]	90
U _g glass [W/m²K]	1.1
t _v [%]	75
t _{uv} [%]	0.3
g (as per EN 410) [%]	52
Burglary resistance class according to EN356 ext/int.	-/P2A
Resistance to impact by pendulum according to EN12600 ext/int.	1(C)3 / 1(B)1
Weight of 1 m² glass [kg]	26

Control

Control method	Z-Wave control
Solar powered	No
Built-in electric control	ZWS12

Technical parameters

Heat transfer coefficient Uw [W/m²K]	0.92
Tightness class (air permeability)	Class 4
Load-bearing capacity for safety devices	npd
Snow load resistance	4H+4H-14-33.2, 6H+4H-14-33.2
Waterproofness	E1200
Impact resistance	Class 5 - 950 mm
Wind load resistance	Class C5/B5
Reaction to fire	B-s2, d0
Reaction to external fire	B roof t1
Acoustics Rw [dB]	36

Glazing unit structure

Number of chambers	1
Number of panes	2
Window frame type	Warm
Gas type	Argon
Glazing unit structure, direction of glazing from outside-inside	4H – Tg14Ar – 33.2T3
Package thickness [mm]	25
Outer glass	Toughened
Glazing unit	• anti-burglary;

Others

Marking on the spacer	FGP ind.prod. nr.zl. poz.zl. data, godzina, CE
Self-cleaning outer glass	Not applicable

Equipment / appearance

Installation

Veneer of internal PVC profiles	White – RAL 9010	Kit / assembly	Window
Equipment included in the set	- rain sensor; - electric actuator;		

Technologies used

PVC corner welding	Standard
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Detailed dimensions

Code	Commercial size	Window width (S) [mm]	Window height (L) [mm]	Size " light" window frame width (a) [mm]	Size " light" window frame height (b) [mm]	Size " light" window sash (j) width [mm]	Size " light" window sash (k) height [mm]	Size " light" window pallet (p) width [mm]	Size " light" window pallet (q) height
80HA01	60x60	820	820	517	517	476	476	558	558
80HA02	60x90	820	1120	517	817	476	776	558	858
80HA03	70x70	920	920	617	617	576	576	658	658
80HA04	80x80	1020	1020	717	717	676	676	758	758
80HA05	90x90	1120	1120	817	817	776	776	858	858
80HA06	90x120	1120	1420	817	1117	776	1076	858	1158
80HA07	100x100	1220	1220	917	917	876	876	958	958
80HA08	120x120	1420	1420	1117	1117	1076	1076	1158	1158
80HA09	140x140	1620	1620	1317	1317	1276	1276	1358	1358
80HA10	100x150	1220	1720	917	1417	1376	876	1458	958
80HA11	120x220	1420	2420	1117	2117	1076	2076	1158	2158

Equipment / appearance

Code	Commercial size	Number of actuators	Minimum roof pitch	Maximum roof pitch
80HA01	60x60	1 electric	2°	15°
80HA02	60x90	1 electric	2°	15°
80HA03	70x70	1 electric	2°	15°
80HA04	80x80	1 electric	2°	15°
80HA05	90x90	1 electric	2°	15°
80HA06	90x120	1 electric	2°	15°
80HA07	100x100	1 electric	2°	15°
80HA08	120x120	2 electric	2°	15°
80HA09	140x140	2 electric	5°	15°
80HA10	100x150	2 electric	2°	15°

