

INDUSTRIAL DOORS



WIŚNIEWSKI

SECTIONAL DOORS MakroPro ALU 100

Intended use: Industrial sectional doors are intended to be used in residential buildings, public utility buildings, industrial facilities, including the food industry (without direct food contact), and in indoor car parks. The door includes vertical and/or horizontal ceiling-mounted tracks, a leaf made of steel panels infilled with freon-free polyurethane foam or glazed aluminium panels. The structure is made of galvanized elements. The door is sealed around the entire circumference. To balance the leaf weight, a safe torsion spring system is used. Because we replaced traditional springs with a modern drive unit, our sectional doors can perform an increased number of cycles – **at least 100,000**. The drive unit ensures long life and comfort of use.



MAXIMUM AMOUNT OF LIGHT

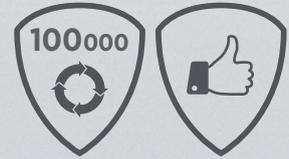
Glazed panels of WIŚNIEWSKI's industrial doors brighten up the room with natural light to save energy and provide comfortable working conditions.

The glazing of sectional doors is proportional to the door size, while the equally spaced glazing bars ensure harmonious appearance of the door. Fully glazed VISUAL aluminium panels are not fitted with glazing bars which makes the room even brighter.



SAFETY

The safety systems foremostly consist in minimizing all traces of risk. Regardless of the method of the WIŚNIEWSKI door operation, our doors ensure comfort and safety. Our products are fully compliant with the PN-EN 13241-1 standard.



FUNCTIONALITY

Thanks to our broad range of track systems, WIŚNIEWSKI industrial doors can be matched with all types of industrial halls. A well selected track type enables you to take advantage of all the benefits that our doors have to offer no matter if the door is installed in newly built or in refurbished buildings.



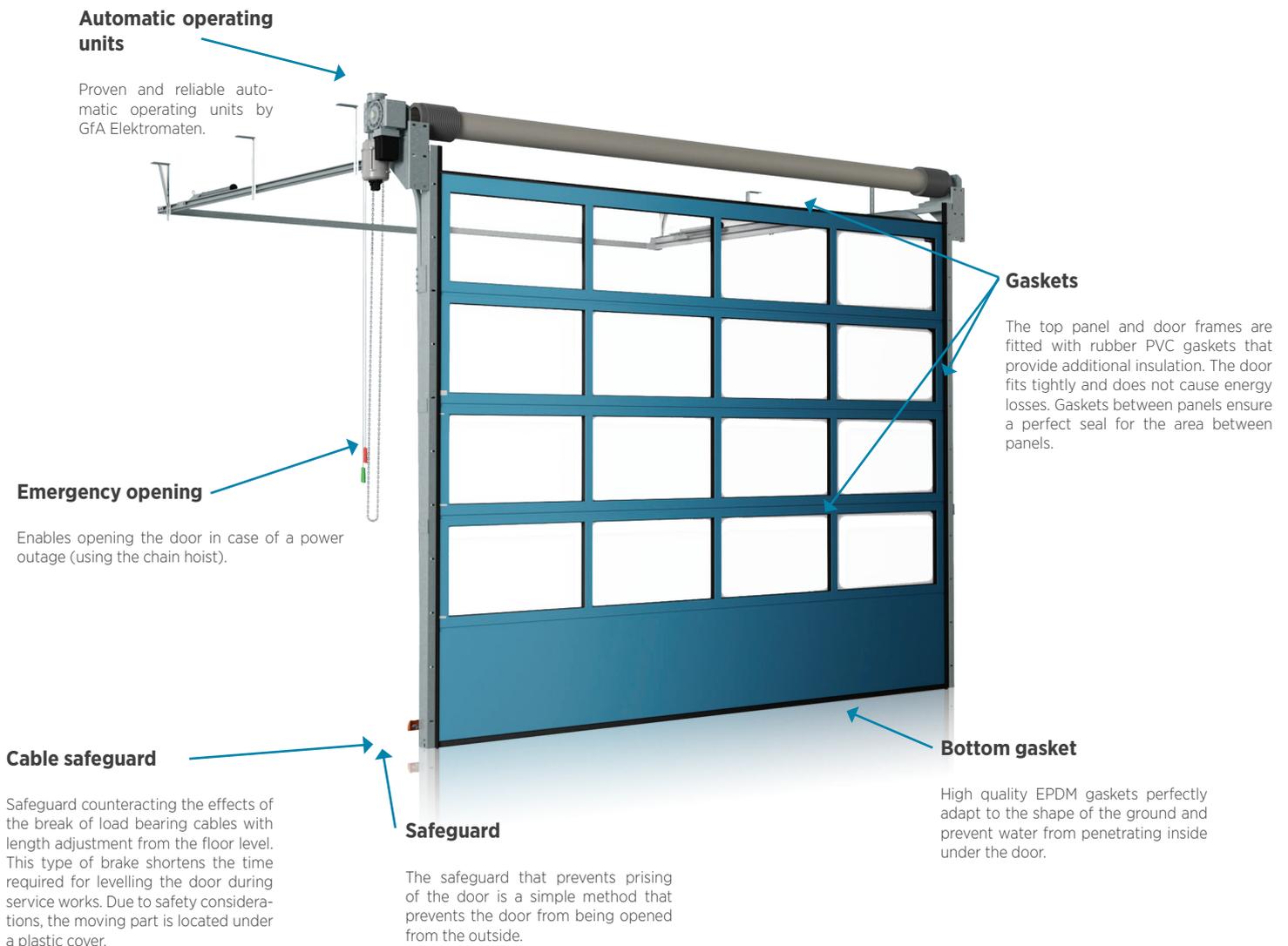
STRUCTURE

The sectional door is installed behind the opening, it opens vertically upwards and does not take any space on the forecourt. Sectional doors let you use the space available in front of the gate and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIEWSKI industrial doors can be matched with all types of buildings, even non-typical ones. Our solutions enable the door to operate without disturbing the operations inside the industrial hall. Thanks to numerous safety systems, our doors are safe in each phase of opening and closing, regardless of the method of operation: manual or automatic.

The leaf weight is perfectly balanced thanks to the use of a torsion spring system which is seated on the drive shaft. Thanks to the use of a special three-phase actuator integrated with the door. Because we replaced traditional springs with a modern drive unit, our doors can perform an increased number of cycles – **at least 100,000**. The doors are made of panels with a special profile that prevents crushing fingers. All the steel elements are galvanized (tracks, frames, fastening elements). The door is fitted with guiding sliding rollers with bearings providing appropriate running of the door curtain, while the tracks featuring a special profile prevent derailing. The modular control system can be connected to many devices compatible with the door.

Large dimension gates are additionally reinforced with special elements that increase the rigidity of the entire structure. Door panels are coated with high quality polyester paints. This provides optimum protection against the weather conditions and ensures many years of operation. Thanks to the vast range of colours, WIŚNIEWSKI industrial doors can be easily matched with the building's façade. WIŚNIEWSKI doors are an investment that stands the test of time.

Due to the corrosion protection of the doors, they can be used according to their intended use in atmospheric corrosion class environments C1, C2, C3 in accordance with PN-EN ISO 12944-2 and PN-EN ISO 14713.





PANEL STRUCTURE



Aluminium panel with a single glass



Aluminium panel with a double glass



Aluminium panel with a double glass and an Omega reinforcement

Robust and reliable design

Our whole range of industrial sectional doors follows identical design principles. Thanks to our robust and reliable design, you can rest assured that the door will meet even the most extreme requirements and operating conditions. Special solutions, such as the original panel built **we use the “Omega” reinforcement system integrated with the panel, as well as aluminium glazing strips to further increase the strength.** The top section is fitted with a lip gasket. Painted panels are coated on both sides in one colour

TRACKS



Standard STL track

Track system for buildings with a typical lintel $N_{min} = 520, 600$ or 750 [mm]. For buildings where horizontal ceiling tracks can be used.

Available dimensions for MakroPro ALU 100 doors with STL tracks

Opening height (H ₁) in [mm] up to	Opening width (S ₁) in [mm] up to																			
	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
2250																				
2500																				
+																				
3750																				
4000							$N_{min}=520$ [mm]													
4250																				
4500																				$N_{min}=600$ [mm]
4750																				
5000																				
5250																				
5500																				$N_{min}=750$ [mm]

COLOURS

Standard colours



WIŚNIEWSKI sectional doors are available in a wide range of colours. You can match the door to the individual character of the building and your needs so that the door not only closes off the building, but constitutes its integral part that perfectly matches the company colours, façade or the surrounding environment.



Standard HL track

Track system for buildings with a high lintel $N_{min} > 600$ [mm] and $N_{min} > 750$ [mm]. Frequently used in industrial hall type buildings.

Available dimensions for MakroPro ALU 100 doors with HL tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																		
	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2250																			
+																			
4250																			
4500																			
4750																			
5000																			
5250																			
5500																			

$N_{min} > 600$ [mm]

$N_{min} > 750$ [mm]



Standard VL track

Track system for buildings with a very high lintel $N_{min} = H_o + 750$ [mm] or $N_{min} = H_o + 800$ [mm]. Frequently used in industrial hall type buildings, mostly in buildings where horizontal or diagonal ceiling tracks cannot be used as they would otherwise interfere with indoor systems or gantry operation.

Available dimensions for MakroPro ALU 100 doors with VL tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																		
	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2250																			
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4250																			
4500																			
4750																			
5000																			

$N_{min} = H_o + 750$ [mm]

$N_{min} = H_o + 800$ [mm]



Standard STLK, HLK tracks

Tracks for installation in buildings with a diagonal ceiling, tracks run directly under the roof thanks to which the space inside can be used to its maximum potential. Available in versions for a low and high lintel:

- for angles 3-15 degrees $N_{min} = 450$ [mm]
- for angles 16-35 degrees $N_{min} = 600$ [mm]

Available dimensions for MakroPro ALU 100 doors with STLK, HLK tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to									
	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500
2,000										
2,125										
2,250										
2,375										
2,500										
2,625										
2,750										
2,875										
3,000										
3,125										
3,250										
3,375										
3,500										
3,625										
3,750										
3,875										
4,000										
4,125										
4,250										
4,375										
4,500										

N_{min} STLK = 520 [mm] for angle 3-15 degrees
 N_{min} STLK = 600 [mm] for angle 16 to 35 degrees
 N_{min} HLK > 600 [mm]



OPTIONAL ACCESSORIES

WICKET DOOR

- Minimum dimensions for sectional door where wicket door can be fitted are 2,400 x 2,600 [mm] ($S_o \times H_o$).
- The maximum dimensions of the sectional door in which a wicket door can be fitted are 5,000 x 5,000 [mm] ($S_o \times H_o$).
- Standard entrance clear opening width is 800 [mm], entrance clear opening height can range from 1,800 [mm] to 1,980 [mm] depending on the sectional door height and the panels used.
- The maximum entrance clear opening dimensions are 900 x 2,000 [mm].
- Doors fitted with wicket door and an electric drive unit also feature the wicket door opening sensor.
- Doors are left-hand or right-hand outswing.
- Door hardware comes in natural aluminium colour by default. Optionally, hardware can come in any colour you choose.
- Wicket door placement depends on the division of the glazing.
- Sectional doors are fitted with a wicket door opening limiter. It allows the wicket door to be opened at a 105 degree angle.
- Optionally, the wicket door can be fitted with an door closer, class C lock cylinder or an anti-panic lock.

Wicket door



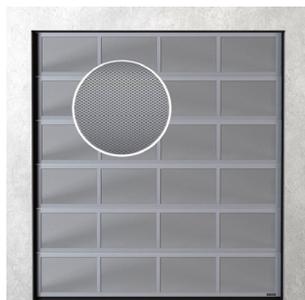
By default, the door features a ~100 [mm] threshold (including the gasket ~40 [mm]). Optionally, a low threshold 30 [mm] with a gasket can be ordered.

Low threshold in wicket door



Low threshold is made of an aluminium section 30 mm high and minimizes obstacles in the passageway. Available with gates $S_o \times H_o \leq 4,500 \times 6,000$ [mm]

VENTILATED PANEL



Aluminium panel infilled with a single layer of galvanized expanded steel mesh or a double layer of galvanized perforated steel sheet. The panel is painted on both sides in the colour of the external door. The air flow for the panel with expanded mesh is 7,504 [m³/h] per 1 [m²] of mesh surface area in accordance with PN-EN 12427 (~70% surface area of the panel). The air flow for the panel with double perforated sheet is 3,051 [m³/h] per 1 [m²] of perforated sheet surface area in accordance with PN-EN 12427 (~70% surface area of the panel).

GLASS PANES

Intended use: for double glazing of glazed aluminium panels and VISUAL glazing.

No-Scratch



Glass pane with a special coating improving its strength, very good resistance to scratching and sunlight compared with standard glass.

Satin



Opaque glass pane. Double glazed pane opaque from the outside and clear from the inside. Light transmission 78%.

Glass pane R



Opaque (or frosted) double glazed pane clear from the inside. Light transmission (77-79%).

Grey



Clear glass with a slight brown hue. Double glazed pane clear from the inside, non-coloured from the inside. Light transmission (51%).



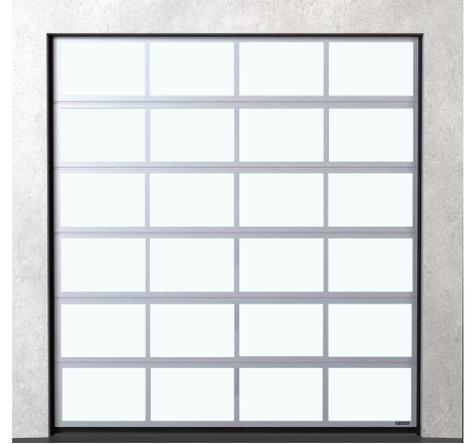
EXAMPLE MAKROPRO ALU DOOR DESIGNS



Door with a bottom steel panel



Door with a bottom metal sheet – expanded polystyrene – metal sheet panel



Door with glazed panels only



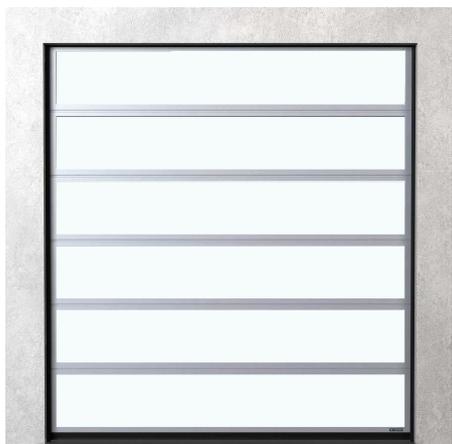
Door with a wicket door



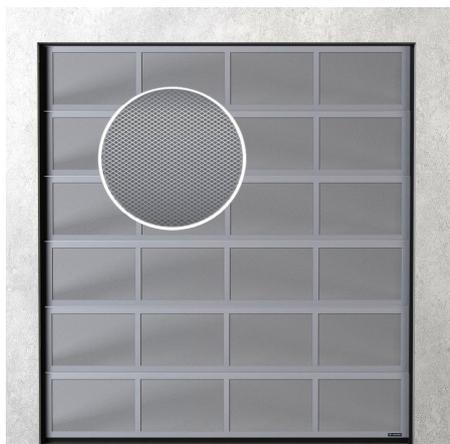
Door with a wicket door and a bottom glazed panel



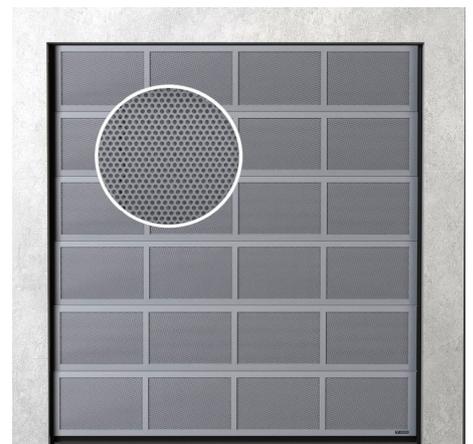
Door with the Visual glazed panels and a bottom glazed panel



Door with the Visual panels only



Door with ventilated panels (expanded mesh)



Door with ventilated panels (double perforated sheet)



AUTOMATIC OPERATING UNITS

Automatic operating units fitted in WIŚNIOWSKI industrial gates are configured for continuous reliable operation. We use proven GfA drive and control units that ensure the highest comfort of use and many years of operation.

Kit type	Totmann	Automatik		Automatik S
Control system	TS-959	TS-970	TS-971	TS-981
Power supply	3x400 V	3x400 V	3x400 V	3x400 V
Limit switch	Electronic, operator level	Electronic, operator level	Electronic, operator level	Electronic, operator level
Emergency opening	Chain hoist	Chain hoist	Chain hoist	Chain hoist
Accessories	Three-function switch: upwards (with impulse maintenance), stop, downwards (without impulse maintenance)	Central control unit: upwards (with impulse maintenance), stop, down (with impulse maintenance) Safety edge sensors	Central control unit: upwards (with impulse maintenance), stop, down (with impulse maintenance) Safety edge sensor Safety edge wireless transmission system	Central control unit: upwards (with impulse maintenance), stop, down (with impulse maintenance) Safety edge sensors Signal light control
Expandable	Additional control devices	Additional safety, control, and signalling devices	Additional safety, control, and signalling devices	Additional safety, control, and signalling devices
Design	Self-locking gear with aluminium cover	Self-locking gear with aluminium cover	Self-locking gear with aluminium cover	Self-locking gear with aluminium cover



OPTIONAL ACCESSORIES

CODE KEYPAD



Operates the door after an individual access code is provided. Can be installed indoors or outdoors.

PROXIMITY CARD READER



Can be controlled with proximity cards or fobs. Just place the card/fob against the reader to operate the door drive.

WARNING LAMP



Warning function. Orange blinking light indicates that the door is operating.

SIGNAL LIGHTS



Facilitates traffic management around the door. Set includes two lights: green and red indicating that the door is open or closed.

EXTERNAL KEY SWITCH



The switch requires a key for the door to operate. Recommended where access must always be controlled.

MICROWAVE MOTION SENSOR



The sensor automatically opens the door when a vehicle or a person is in front of the entrance.

ACOUSTIC SIGNAL



Warning function. Acoustic signals indicate when the door operates.

TRANSMITTER



Works with the radio receiver and controls the drive unit through radio waves. One remote control can operate four individual doors.

PHOTOCELLS



If an obstacle appears in the clear passage, the infrared beam is interrupted, the door stops and returns to the open position.

PULL SWITCH



Sequential door control without using a transmitter.

SAFETY BARRIER



Secures clear passage in case of accidental door curtain movement.

SAFETY PHOTOCELLS



Optical protection of the edge of the closing door. Installed with doors with a low threshold.



SECTIONAL DOOR



MakroPro Alu door



MakroPro ALU door



TECHNICAL DATA

MakroPro ALU 100	
Curtain	Panel made of galvanized steel sheet with two-side polyester coating, galvanized and painted on both sides, infilled with high density PU foam $\rho=42 \text{ kg/m}^3$ without HCFC
Minimum number of cycles	100,000
Heat transfer coefficient U [$\text{W/m}^2\text{K}$]	As provided on the door nameplate
Watertightness (class)	2 PN-EN 13241-1 p.4.4.2
Wind load resistance class	3 PN-EN 13241-1 p.4.4.3
Air permeability class	4 PN-EN 13241-1 p.4.4.6
Acoustic absorption coefficient R_w [dB] without wicket door / with wicket door	23 / 25 PN-EN ISO 717-1: 1999
Drive type / power supply type	GfA SE series 1 x 230 V / 3 x 400 V
Safeguards	Special shape of the panel prevents crushing of fingers, safeguards against breaking of load-bearing cables, safeguard against breaking of springs (on each spring), wicket door sensor - used in doors with an electric drive and wicket door, lock/latch opening sensor, safety edge (in doors with electric drive type Automatik) Options: photocells, light barrier, safeguard against prising
Optional accessories	Various types of tracks, electric drive, chain hoist, rope hoist, ventilated panel, aluminium panel glazing, VISUAL glazing without glazing bars, windows, glass panes: No-Scratch, GREY, SATIN, SAN R, ventilation grilles, wicket door (low threshold wicket door), anti-panic lock, additional lock, springs 50,000 cycles, 100,000 cycles, fume extractor, steel fascia, aluminium fascia, handle for lead sealing of the door/wicket door, photocells, leading photocells, light barrier, code keypad, motion sensor, signal light, LED signal light (red-green), transmitter, acoustic signal, magnetic card reader, pull switch, safety edge wireless transmission system, drive for continuous operation.
Maximum width / height of the door [mm]	7000 / 5500
Available panel rib designs	low ribs, high ribs, V, without ribs
Available panel structures	woodgrain, smoothgrain, sandgrain, silkline
Standard RAL colours	RAL 1021, RAL 3000, RAL 5010, RAL 6002, RAL 7016, RAL 7032, RAL 8014, RAL 9006, RAL 9007, RAL 9016
Custom colours:	other RAL colours
Track type	STL, VL,HL,STLK,HLK

BPMakroProALU 100/10.17/EN



WIŚNIEWSKI

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