INDUSTRIAL DOORS



WIŚNIOWSKI
GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS
MakroPro ALU 100 2.0

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 WIŚNIOWSKI'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 WIŚNIOWSKI 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, WIŚNIOWSKI 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

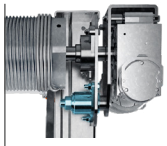
The sectional door is installed behind the opening, it opens vertically upwards and does not take any space on the forecourt. Sectional doors let you use the space available in front of the gate and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIOWSKI industrial 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, WIŚNIOWSKI industrial doors can be easily matched with the building's façade. WIŚNIOWSKI 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.

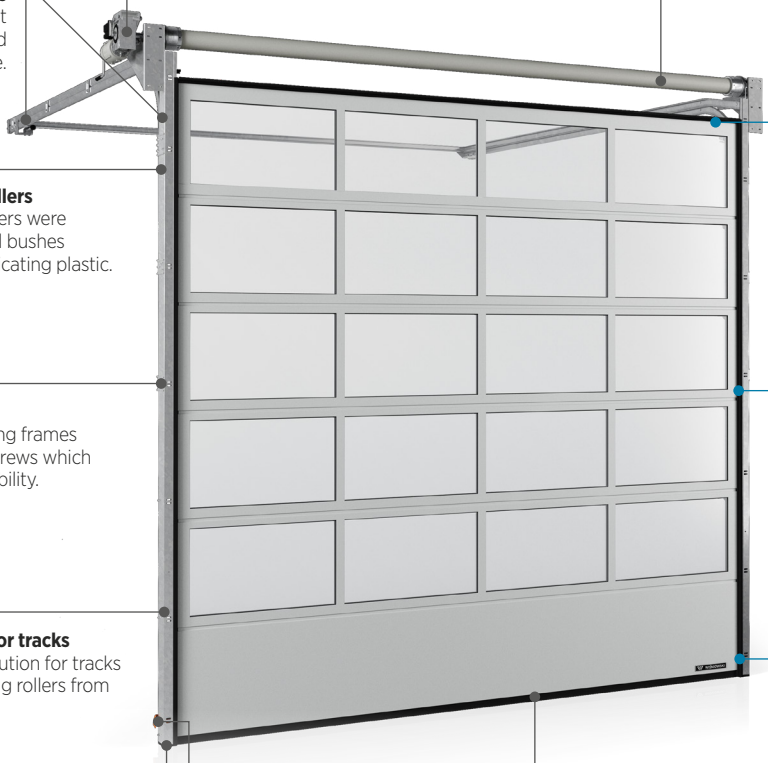
Automatic operating units
Proven and reliable automatic operating units by GfA ELEKTROMATEN.



Smooth operation
Thanks to the use of purpose-built stabilizers fixing the electric drive unit, the door operates quietly, smoothly and the drive unit does not transfer vibrations.

100,000 cycles
Because we replaced traditional springs with a modern drive unit, our door can perform an increased number of cycles. With 10 cycles per day, this amounts to **27 years of use!**.

Tracks and opening frames
Made of galvanized sheet 2 [mm] thick provide a solid and durable structure.



THERMOSET ™ PACKAGE AS STANDARD:



Quiet guiding rollers
Larger roller holders were fitted with special bushes made of self-lubricating plastic.

Double-lip top gasket
The warm, elongated, two-lip gasket ensures double sealing in the top section of the door.





Track joining
Tracks and opening frames are joined with screws which increases adjustability.

Corner gasket
Corner gasket maximum sealing of the corner of the door.





Safety solution for tracks
Double safety solution for tracks preventing guiding rollers from derailing.

Double-lip side gasket
The warm, three-chamber, two-lip, hard and soft side gasket is the most efficient solution for eliminating thermal bridges, while at the same time providing a safe distance between the lintel and the door curtain.



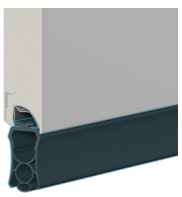


Plastic end caps
An attractive finish for the floor-mounted gate guide assembly. In addition to its aesthetic benefits, the use of plastic foot increases the corrosion resistance of the door frames and guides and helps keep the area around the floor tidy.

Cable safeguard
Safeguard counteracting the effects of the break of load bearing cables with length adjustment from the floor level. This type of brake shortens the time required for levelling the door during service works. Due to safety considerations, the moving part is located under a plastic cover.

Safeguard
T he safeguard that prevents prising of the door is a simple method that prevents the door from being opened from the outside.

Bottom gasket
High-quality EPDM gaskets perfectly adapt to the surface.



PANEL STRUCTURE

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 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.



Aluminium panel
with a single glass



Aluminium panel
with a double glass



Aluminium panel
with a double glass and
an Omega einforcement

COLOURS | **STANDARD COLOURS**

Yellow RAL 1021	Red RAL 3000	Blue RAL 5010	Green RAL 6002	Graphite RAL 7016
Grey RAL 7032	Brown RAL 8014	Silver RAL 9006	Dark Silver RAL 9007	White RAL 9016



WIŚNIOWSKI 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.

TRACKS

STL – Standard guides.
Track system for buildings with a typical lintel Nmin = 490, 560, 650 [mm].
For buildings where horizontal ceiling tracks can be used.



Dimensional range for MakroPro ALU 100 2.0 doors with STL tracks

Opening height (Ho) [mm] up to	**Opening width** (So) in [mm] up to																		
	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000	6,250	6,500	6,750	7,000
2,250																			
2,500																			
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3,750																			
4,000							**Nmin = 490 [mm]**												
4,250																			
4,500																			
4,750																			
5,000														**Nmin = 560 [mm]**					
5,250																			
5,500																			
5,750																	**Nmin = 650 [mm]**		
6,000																			

HL – High guides.
Track system for buildings with a high lintel Nmin > 600 [mm] and Nmin > 750÷1350 [mm].
Frequently used in industrial hall type buildings.



Dimensional range for MakroPro ALU 100 2.0 doors with HL tracks

Opening height (Ho) [mm] up to	**Opening width** (So) in [mm] up to																		
	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000	6,250	6,500	6,750	7,000
2,250																			
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4,000						**Nmin > 600 [mm]**													
4,250																			
4,500																			
4,750														**Nmin > 750÷1,350 [mm]**					
5,000																			
5,250																			
5,500																			
5,750																			
6,000																			

HLO – High guides with lowered shaft.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = 2,000 [mm].



Dimensional range for MakroPro ALU 100 2.0 doors with HLO tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to													
	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250
2,000														
2,250														
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3,500							**Nmin = 2,000 [mm]**							
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4,000														
4,250														
4,500														
4,750														
5,000														
5,250														



VL – Vertical guides.
Track system for buildings with a very high lintel Nmin = Ho + 600 [mm], Nmin = Ho + 680 [mm] or Nmin = Ho + 770 [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.

Dimensional range for MakroPro ALU 100 2.0 doors with VL tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to																		
	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250	5,500	5,750	6,000	6,250	6,500	6,750	7,000
2,250																			
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3,750														**Nmin = Ho + 680 [mm]**					
4,000					**Nmin = Ho + 600 [mm]**														
4,250																			
4,500																			
4,750													**Nmin = Ho + 770 [mm]**						
5,000																			
5,250																			
5,500																			
5,750																			
6,000																			



VLO – Vertical guides with lowered shaft.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = Ho + 370 [mm].

Dimensional range for MakroPro ALU 100 2.0 doors with VLO tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to													
	2,000	2,250	2,500	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,250
2,000														
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4,250														
4,500														
4,750														
5,000														
5,250														

OPTIONAL ACCESSORIES

WICKET DOOR

- Minimum dimensions for sectional door where wicket door can be fitted are 2,400 x 2,600 [mm] (So x Ho).
- The maximum dimensions of the sectional door in which a wicket door can be fitted are 5,000 x 5,500 [mm] (So x Ho).
- The standard clear width of the passage is 900 [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.

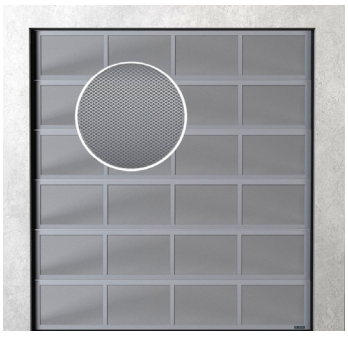


Wicket door
By default, the door features a ~100 [mm] threshold (including the gasket ~40 [mm]). Optionally, a low threshold 19 [mm] with a gasket can be ordered.



Low threshold in wicket door
Low threshold is made of an aluminium section 19 [mm], high and minimizes obstacles in the passageway. Available with gates So x Ho ≤ 4,500 x 6,000 [mm] with a bottom steel panel.

VENTILATED PANEL



An aluminium panel filled with a single layer of galvanised expanded steel mesh. 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 [m^3/h] per 1 [m^2] of mesh 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%).

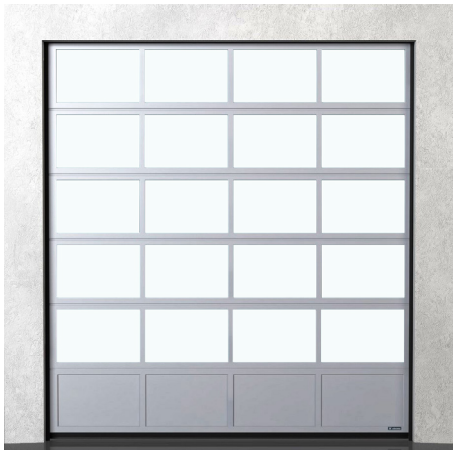


Grey
Clear glass with a slight brown hue. Double glazed pane clear from the inside, non-coloured from the inside. Light transmission (51%).

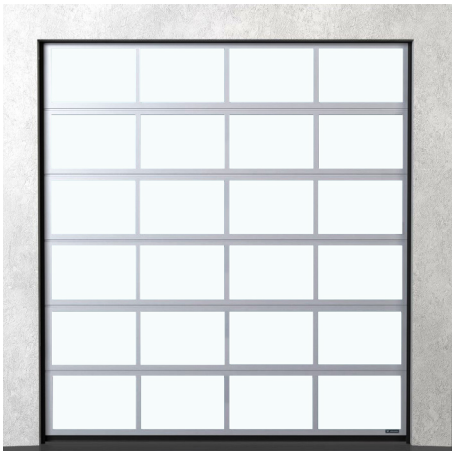
EXAMPLE MakroPro ALU 100 2.0 DOOR DESIGNS



Door with a bottom steel panel.



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



Door with glazed panels only.



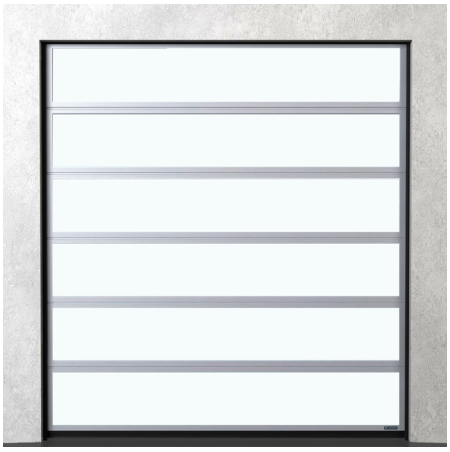
Door with a wicket door.



Door with a wicket door and a bottom glazed panel.



Door with the Visual glazed panels and a bottom glazed panel.



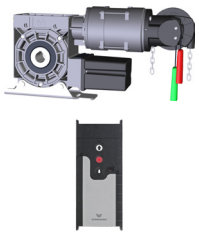
Door with the Visual panels only.

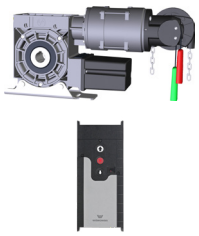


Door with ventilated panels (expanded mesh).

AUTOMATIC OPERATING UNIT KITS

Automatic operating units supplied with WIŚNIOWSKI industrial doors are configured for the maximum comfort of use and extended service life.







Technical data	Totmann	Automatik		Automatik S
Control system	**TS-959**	**TS-970**	**TS-971**	**TS-981**
Mains	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]
Motor supply	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]
Limit switch	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level
Display	yes	yes	yes	yes
Emergency opening	yes	yes	yes	yes
Rotational speed	15 [RPM]; fixed	15 [RPM]; fixed	15 [RPM]; fixed	15 [RPM]; fixed
Motor power	0,4 / 1,1 [kW] (1)	0,4 / 1,1 [kW] (1)	0,4 / 1,1 [kW] (1)	0,4 / 1,1 [kW] (1)
Rated current	2,2 – 4,7 [A] (1)	2,2 – 4,7 [A] (1)	2,2 – 4,7 [A] (1)	2,2 – 4,7 [A] (1)

Functionality	Totmann	Automatik		Automatik S
Quick programming	yes	yes	yes	yes
Obstacle detection	no	yes; safety edge	yes; safety edge	yes; safety edge
Automatic closing	no	yes; from 1 ÷ 240 [s]	yes; from 1 ÷ 240 [s]	yes; from 1 ÷ 240 [s]
Release in end position	no	no	no	no
RWA – heat and smoke extraction	no	no	no	yes
Traffic control	no	no	no	yes
Exterior lighting control	yes	yes	yes	yes
Partial opening of the door	no	yes	yes	yes
Cycle counter	yes	yes	yes	yes
Recent fault logging	yes	yes	yes	yes

Expandability	Totmann	Automatik		Automatik S
Signal light	no	yes	yes	yes
LED signal lights (red – green)	no	yes	yes	yes
Compatible with photocells	no	yes	yes	yes
Drive unit in the IP65 version	no	yes	yes	yes
WSD module – wireless signal transmission from the optical strip	no	no	yes	no
Safety barrier	no	yes	yes	yes
Exterior lighting control	no	yes	yes	yes
Motion sensor	no	yes	yes	yes
Induction loop detector	no	yes	yes	yes
Safety photocells	no	yes	yes	yes
Acoustic signal	no	yes	yes	yes

(1) – depends on the drive type.



WIŚNIOWSKI **CONNECTED**

WIŚNIOWSKI Connected is a modern and free app that lets you control your doors remotely – no matter where you are. The app is available both for mobile devices (Android, iOS) and in a web version for desktop use at: https://smart.wisniowski.pl.





GATE CONTROLLER

Enables remote control of automatic operating units for garage doors and entrance gates, ensuring full control over access to the building. For proper operation, the device must be connected to a stable 2.4 GHz home Wi-Fi network. No additional gateways or access points are required. The device is available with a built-in antenna or with an external antenna recommended in locations with external interference. Device control is carried out via the WIŚNIOWSKI Connected app.

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.



LED 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 enables control of the drive unit via the WIŚNIOWSKI radio transmission. A single remote control can be used to open four different garage doors.



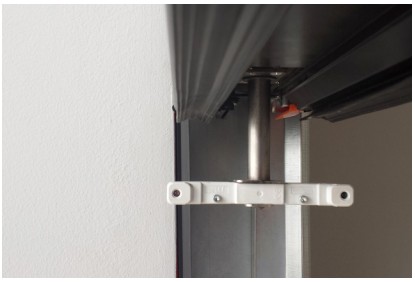
Photocells
If an obstacle appears in the clear passage, the infrared beam is interrupted, the door stops and returns to the open position.



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.

GALLERY



MakroPro ALU 100 2.0 doors.



MakroPro ALU 100 2.0 doors.



MakroPro ALU 100 2.0 doors.



MakroPro ALU 100 2.0 doors.



MakroPro ALU 100 2.0 doors.



MakroPro ALU 100 2.0 door with expanded mesh infill.

TECHNICAL DATA

	MakroPro ALU 100 2.0
Curtain	Aluminium panels infilled with a single or double acrylic glass, with powder coating on both sides. Aluminium glazing beads, painted in the door colour. Edges of glazing units with hygroscopic granular material. Bottom panel made of galvanized steel sheet with polyester coating on both sides, infilled with high density PU foam g=42 kg/m^3 without HCFC.
Minimum number of cycles	100,000
Heat transfer coefficient U [W/m^{2}xK]	As provided on the door nameplate
Watertightness (class)	class 1 in accordance with 13241-1 section 4.4.2
Wind load resistance class	class 3 in accordance with 13241-1 section 4.4.3
Air permeability class	class 4 in accordance with PN-EN 13241-1 section 4.4.6
Acoustic absorption coefficient Rw [dB] without wicket door / with wicket door	23 / 25 in accordance with PN-EN ISO 717-1: 1999
Drive type / power supply type	GfA series SI / 3x400 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, spring and cable break safety sensor.
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, Satin, Glass pane R, Grey, 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]	7,000 / 5,500
Available panel rib designs	G – No ribs, W – High ribs, N – Low ribs, V – V 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, HL, HLO, VL, VLO

WIŚNIOWSKI

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