

INDUSTRIAL DOORS



WIŚNIEWSKI

GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS MakroPro ALU 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.



MAXIMUM AMOUNT OF LIGHT

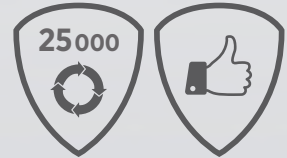
Glazed panels of WIŚNIEWSKI's industrial doors brighten up the room with natural light to save energy and provide comfortable working conditions.

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. Springs are preselected with computer precision and guarantee the best balancing of the door, maximum comfort and safety of use. 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 and bush fittings (quiet) providing proper running of the door curtain. Tracks featuring a special double profile prevent it from derailing.

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.

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

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

Emergency opening
Enables opening the door in case of a power outage (using the chain hoist).

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

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

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
Each spring is fitted with a safeguard against the effects of the spring breaking.

Springs
Torsion springs are made using the shot peening technology that increases their life. The guaranteed minimum number of cycles: 25,000.

ThermoSet PACKAGE as standard

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

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

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.

Bottom gasket
High quality EPDM gaskets perfectly adapt to the shape of the ground and prevent water from penetrating inside under the door.

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



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 $N_{min} = 435, 520$ [mm].
For buildings where horizontal ceiling tracks can be used.

Available dimensions for MakroPro ALU 2.0 doors with STL tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																								
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
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COLOURS

Standard colours

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

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 LH track

Track system for buildings with a low lintel $N_{min} = 220$ [mm]. Frequently used in underground garages, indoor car parks or multiple bay car parks.

Available dimensions for MakroPro ALU 2.0 doors with LH tracks

Opening height (H_o) in [mm] up to	Opening width (S_o) in [mm] up to																			
	2250	2500	2800	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	
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$N_{min} = 220$ [mm]



Standard LHp track

Track system for buildings with a low lintel $N_{min} = 280$ [mm]. Frequently used in underground garages, indoor car parks or multiple bay car parks.

Available dimensions for MakroPro ALU 2.0 doors with LHp tracks

Opening height (H_o) in [mm] up to	Opening width (S_o) in [mm] up to																			
	2250	2500	2800	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	
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$N_{min} = 280$ [mm]



Standard HL track

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

Available dimensions for MakroPro ALU 2.0 doors with HL tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																								
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
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$N_{min} > 600$ [mm]



Standard VL track

Track system for buildings with a very high lintel $N_{min} = H_o + 650$ [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 2.0 doors with VL tracks

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																								
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250	7500	7750	8000	
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$N_{min} = H_o + 650$



STLK standard track at an angle

Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential.

Track system for the lintel:

N_{min} = 435 [mm] for 5, 10, 15 degree angles

N_{min} = 510 [mm] for 20, 25, 30, 35 degree angles

N_{min} = 510 [mm] for 40, 45 degree angles - on request

N_{min} = 555 [mm] for 50, 55, 60 degree angles

Dimensional range for the MakroPro ALU 2.0 doors with STLK tracks for the angle range of 5,10,15, 20, 25, 30, 35 degrees

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																			
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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Dimensional range for the MakroPro ALU 2.0 doors with STLK tracks for the angle range of 50,55,60 degrees

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

Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential.

Track system for the lintel:

$N_{min} = 435$ [mm] for 5, 10, 15, 20, 25, 30, 35, 50, 55, 60 degree angles

$N_{min} = 435$ [mm] for 40, 45 degree angles - on request

Dimensional range and maximum lintel for the MakroPro ALU 2.0 doors with HLK tracks for the angle range of 5, 10, 15, 20, 25, 30, 35 degrees

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to																			
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
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Dimensional range for the MakroPro ALU 2.0 doors with HLK tracks for the angle range of 50, 55, 60 degrees

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

Low track at an angle. Tracks for buildings with a sloped ceiling. The tracks run directly under the roof, thanks to which the space inside can be used to its maximum potential.

Torsion springs at the end of the guides.
 $N_{min} = 210$ [mm] for 5, 10, 15 degree angles

Dimensional range for the MakroPro ALU 2.0 doors with LHK

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to											
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
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High tracks with a lowered HLO shaft

With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier $N_{min} = 1,700$ [mm].

Dimensional range for the MakroPro ALU 2.0 doors with HLO

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to											
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
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Vertical tracks with a lowered VLO shaft

With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier $N_{min} = H_o + 370$ [mm].

Dimensional range for the MakroPro 2.0 ALU doors with VLO

Opening height (H _o) in [mm] up to	Opening width (S _o) in [mm] up to											
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
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OPTIONAL ACCESSORIES

WICKET DOOR

- The maximum dimensions of the sectional door in which a wicket door can be fitted are $S_o \times H_o \leq 5,500 \times 6,000$ [mm].
- Minimum dimensions for sectional door where wicket door can be fitted are $2,400 \times 2,600$ [mm] ($S_o \times H_o$).
- The maximum dimensions of the sectional door in which a wicket door can be fitted are $5,000 \times 5,000$ [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 $900 \times 2,000$ [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 outswinging.
- 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 $7,504 \text{ [m}^3\text{/h]}$ per $1 \text{ [m}^2\text{]}$ 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 $3,051 \text{ [m}^3\text{/h]}$ per $1 \text{ [m}^2\text{]}$ 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 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



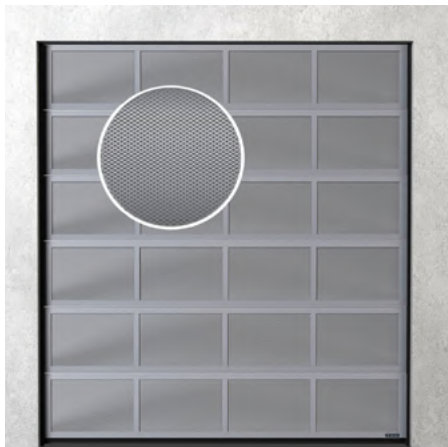
Door with a wicket door and a bottom glazed panel



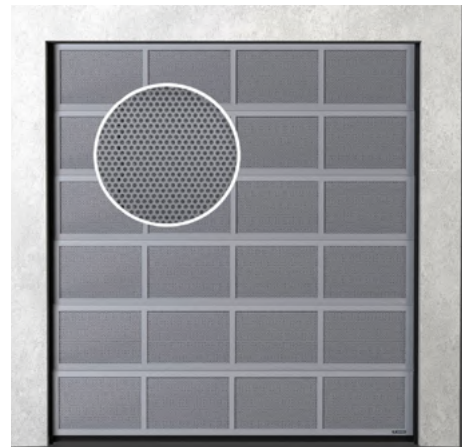
Door with the Visual glazed panels and a bottom glazed panel



Door with the Visual panels only



Door with ventilated panels (expanded mesh)

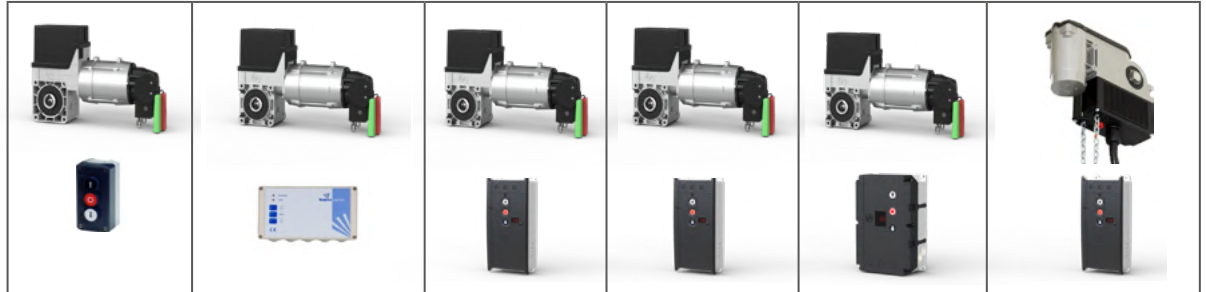


Door with ventilated panels (double perforated sheet)



AUTOMATIC OPERATING UNIT KITS

The top-quality GfA automatic operating units available with WISNIOWSKI doors ensure reliable operation, the highest comfort of use, and many years of usage.

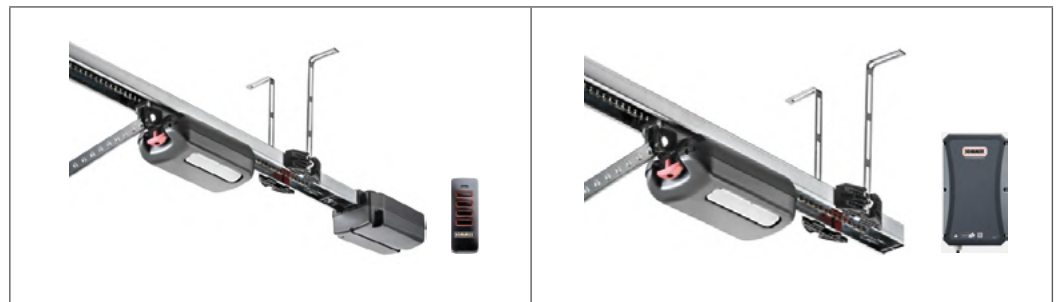


Technical data	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Mains	1 x 230 [V]; 50-60 [Hz]	1 x 230 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	3 x 400 [V]; 50-60 [Hz]	1 x 230 [V] or 3 x 400 [V]; 50-60 [Hz]
Motor supply	1 x 230 [V]; 50 [Hz]	1 x 230 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]	3 x 400 [V]; 50 [Hz]
Limit switch	Mechanical, available from drive unit level	Mechanical, available from drive unit level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level
Central control unit	Integrated with the drive unit	T 720; separate	TS 959; separate	TS 970; separate	TS 981; separate	TS 970, TS 971 or TS 981; separate
Display	no	no	yes	yes	yes	yes
Emergency opening	yes	yes	yes	yes	yes	yes
Rotational speed	24 [RPM]; fixed	24 [RPM]; fixed	24 [RPM] ⁽¹⁾ ; fixed	24 [RPM] ⁽¹⁾ ; fixed	24 [RPM] ⁽¹⁾ ; fixed	10-80 [RPM] ⁽²⁾ ; adjustable
Motor power	0.37 [kW]	0.37 [kW]	0.3-0.45 [kW]	0.3-0.45 [kW]	0.3-0.45 [kW]	0.4-0.85 [kW]
Rated current	3.5 [A]	3.5 [A]	1.1-2.5 [A] ⁽³⁾	1.1-2.5 [A] ⁽³⁾	1.1-2.5 [A] ⁽³⁾	8 [A]

Functionality	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Quick programming	yes	yes	yes	yes	yes	yes
Obstacle detection	no	yes; safety edge	no	yes; safety edge	yes; safety edge	yes; safety edge
Automatic closing	no	yes; 10 [s] or 30 [s] or 90 [s]	no	yes; from 1÷240 [s]	yes; from 1÷240 [s]	yes; from 1÷240 [s]
Release in end position	no	no	no	no	no	yes
RWA – heat and smoke extraction	no	no	no	no	yes	no
Traffic control	no	no	no	no	yes	yes
Exterior lighting control	no	no	yes	yes	yes	yes
Partial opening of the door	no	no	no	yes	yes	yes
Cycle counter	no	no	yes	yes	yes	yes
Recent fault logging	no	no	yes	yes	yes	yes

Expandability	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Signal light	no	yes	no	yes	yes	yes
Red/green signal light	no	no	no	yes	yes	yes
Compatible with photocells	no	yes	no	yes	yes	yes
ER quick uncoupling of the drive	no	no	no	yes ⁽⁴⁾	yes ⁽⁴⁾	no
Drive unit in the IP65 version	no	no	no	yes	yes	yes
TS 971 controller	no	no	no	yes	yes	yes
WSD module	no	no	no	yes ⁽⁵⁾	yes ⁽⁵⁾	yes ⁽⁵⁾
Safety barrier	no	yes	no	yes	yes	yes
Exterior lighting control	no	no	no	yes	yes	yes
Motion sensor	no	no	no	yes	yes	yes
Induction loop detector	no	no	no	yes	yes	yes
Safety photocells	no	no	no	yes	yes	yes
Acoustic signal	no	no	no	yes	yes	yes

⁽¹⁾ - applies to the SE 9.24 drive unit, ⁽²⁾ - applies to the SE 14.80 drive unit, ⁽³⁾ - depends on the drive type, ⁽⁴⁾ - applies to the SE 9.24 drive unit, ⁽⁵⁾ - only available with the TS 971 controller.



Technical data	Sommer S9110 base+	Sommer S9110 tiga+
Power supply / Motor	230V, 50-60Hz / 24V DC	230V, 50-60Hz / 24V DC
Force	1,100 N	1,100 N
Efficiency	40%	40%
Number of parking spaces	max. 30 spaces	max. 30 spaces
Single-piece track	yes - steel, 3-element	yes - steel, 3-element
Transmission	carriage with a fixed chain	carriage with a fixed chain
Speed	18 cm/s	18 cm/s
Central control unit	mounted at the end of the track	in bulk, wall mounted
Radio receiver	SOMMER, built-in - 868 MHz	SOMMER, built-in - 868 MHz
Radio receiver storage:	40 transmitters	40 transmitters
Auto selection of operating parameters	yes	yes
Limit switches	encoder + mechanical bumper	encoder + mechanical bumper
Emergency uncoupling	yes	yes
Application	sectional	sectional
Warranty	2 years	2 years

Functionality		
Obstacle detection	yes	yes
Obstacle detection adjustment	no	no
Action following obstacle detection	stop or partial opening	stop or partial opening
Automatic closing	yes	yes - forced mode, 30 seconds
Release in end position	yes	yes
Additional indoor lighting	yes	yes
Additional outdoor lighting	yes	yes
Independent additional lighting control	no	no
Delayed drive unit light switch off	yes / fixed - 60 seconds	yes, depending on the operating mode
Display	no	no
Partial opening of the door - slightly open	yes	yes
Cycle counter	no	no
Ventilation system	no	yes
Traffic control	no	yes / forced feature



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 2.0 door



MakroPro ALU 2.0 door



TECHNICAL DATA

	MakroPro ALU 2.0
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	25,000
Heat transfer coefficient U [$\text{W/m}^2\text{K}$]	As provided on the door nameplate
Watertightness (class)	2
Wind load resistance class	3
Air permeability class	4
Acoustic absorption coefficient R_w [dB] without wicket door / with wicket door	23 / 25
Drive type / power supply type	GfA SE series, BFT Argo, Sommer base+, tiga+ 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, double track profiling prevents guiding rollers from derailing.
Optional accessories	Various types of tracks, electric drive, chain hoist, rope hoist, ventilated panel, aluminium panel glazing (without a thermal break/with a thermal break), 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 2004, RAL 5010, RAL 6002, RAL 7016, RAL 7032, RAL 8014, RAL 9006, RAL 9007, RAL 9016
Custom colours:	other RAL colours
Track type	STL, LH, HL, VL, LHp, STLK, HLK, LHK, VLO, HLO

**WIŚNIOWSKI**

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