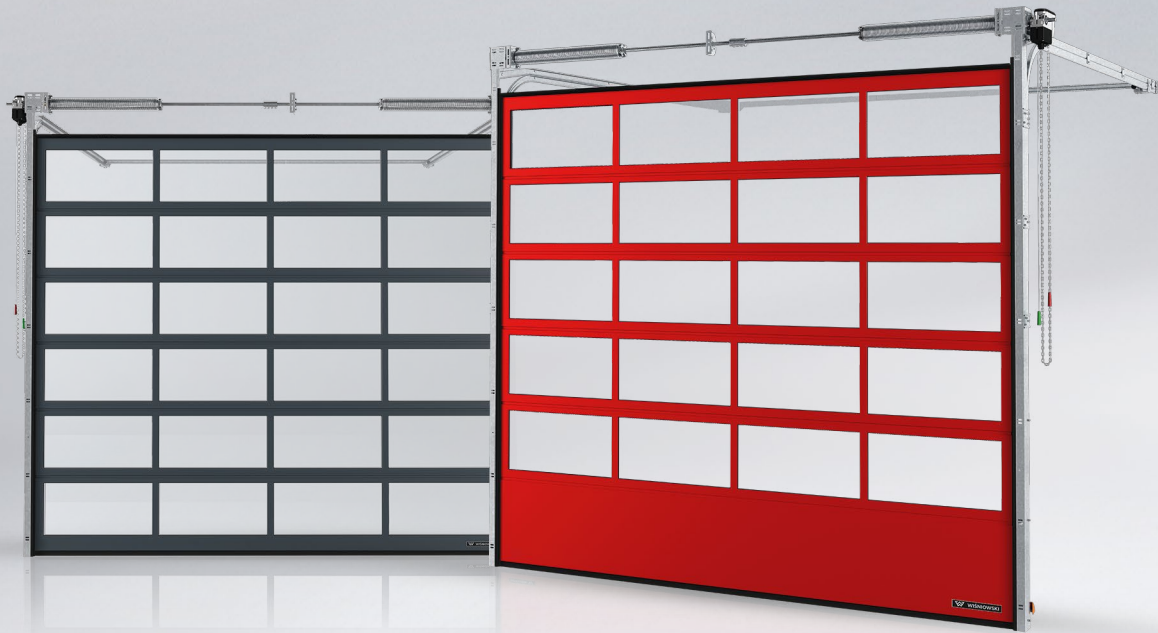


INDUSTRIAL DOORS



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

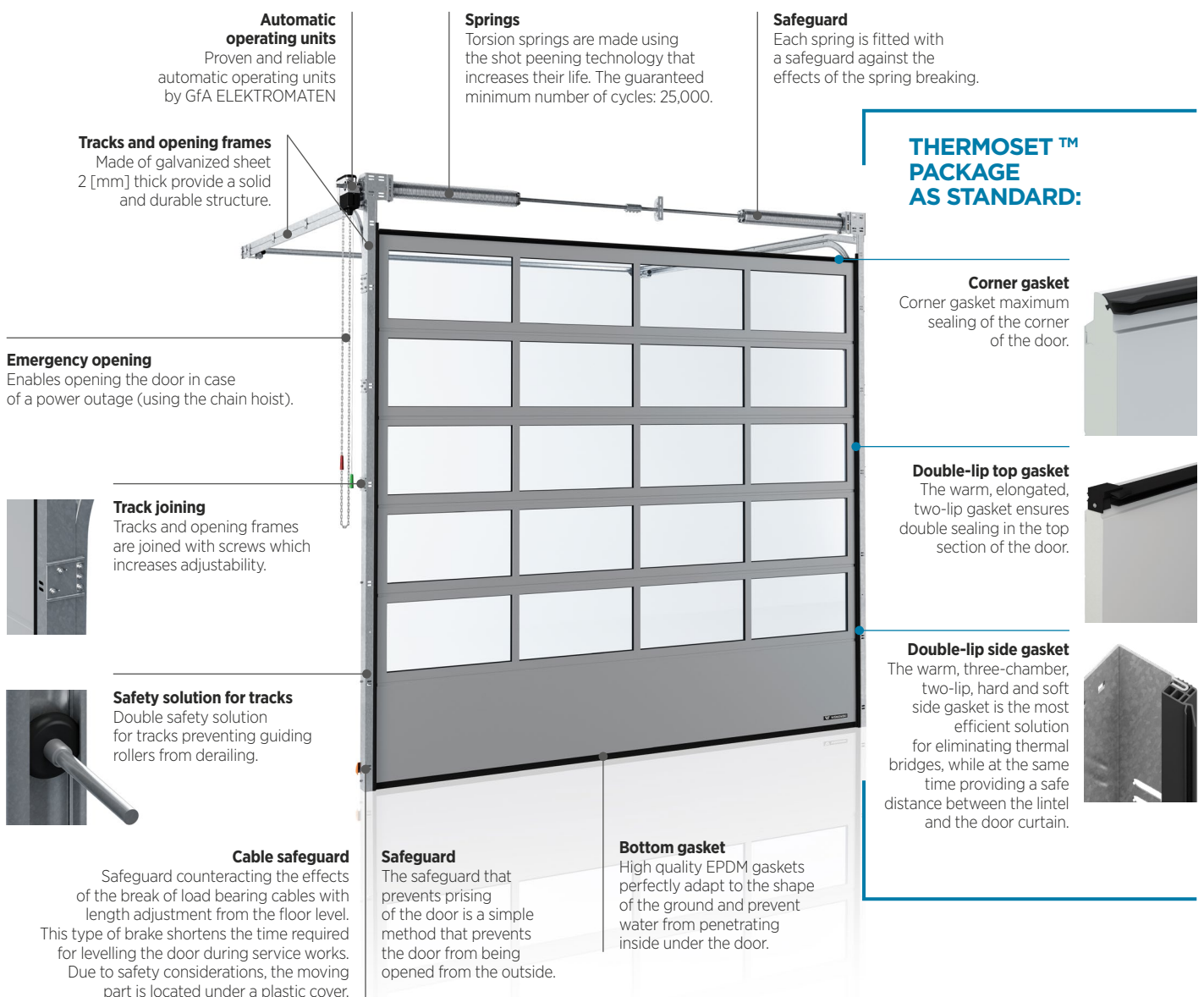
The sectional door is installed behind the opening, it opens vertically upwards and does not take any space on the forecourt. Sectional doors let you use the space available in front of the gate and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIOWSKI industrial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





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 “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.



Aluminium panel
with a single glass



Aluminium panel
with a double glass



Aluminium panel
with a double glass and
an Omega reinforcement

STANDARD COLOURS



WISNIEWSKI 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 tracks.

Track system for buildings with a typical lintel $N_{min} = 435, 520$ [mm].
For buildings where horizontal ceiling tracks can be used.



Dimensional range for MakroPro ALU 2.0 doors with STL tracks

Opening height (Ho) [mm] up to	Opening width (So) in [mm] up to																
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
2000																	
2125																	
2250																	
2375																	
2500																	
2625																	
2750																	
2875																	
3000																	
3125																	
3250																	
3375																	
3500																	
3625																	
3750																	
3875																	
4000																	
4125																	
4250																	
4375																	
4500																	
4625																	
4750																	
4875																	
5000																	
5125																	
5250																	
5375																	
5500																	

$N_{min} = 435$ [mm]

$N_{min} = 520$ [mm]

**LrH – Low tracks – torsion springs at the back.**

Track system for buildings with a low lintel $N_{min} = 150$ [mm].

Frequently used in underground garages, indoor car parks or multiple bay car parks.

**Dimensional range for MakroPro ALU 2.0 doors with LrH tracks**

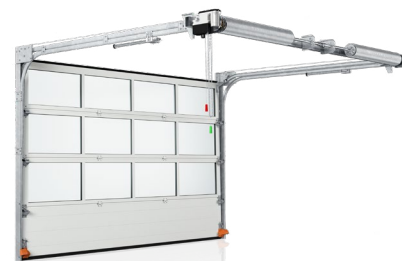
Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to														
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500
2000															
2125															
2250															
2375															
2500															
2625															
2750															
2875															
3000															

$N_{min} = 150$ [mm]

LH – Low tracks – torsion springs at the back.

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.

**Dimensional range for MakroPro ALU 2.0 doors with LH tracks**

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																		
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500
2000																			
2250																			
2500																			
2750																			
3000																			
3250																			
3500																			
3750																			
4000																			
4250																			
4500																			
4750																			
5000																			

$N_{min} = 220$ [mm]

**LHp – Low tracks.**

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.

**Dimensional range for MakroPro ALU 2.0 doors with LHp tracks**

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																		
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500
2000																			
2250																			
2500																			
2750																			
3000																			
3250																			
3500																			
3750																			
4000																			
4250																			
4500																			
4750																			
5000																			

$N_{min} = 280$ [mm]

ELH – Low guides – rear torsion springs.

The track is intended for buildings with an fake lintel, $N_{min} = 290$ [mm].

Door is adapted to individual infill (called: facade door).

**Dimensional range for MakroPro 2.0 doors with ELH tracks**

Ordering height (Hz) in [mm] up to:	Ordering width (Sz) in [mm] up to:																
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
2000																	
2125																	
2250																	
2375																	
2500																	
2625																	
2750																	
2875																	
3000								fake lintel	Nmin = 290 [mm]								
3125																	
3250																	
3375																	
3500																	
3625																	
3750																	
3875																	
4000																	

fake lintel $N_{min} = 290$ [mm]

HL – High tracks.

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



Dimensional range for MakroPro ALU 2.0 doors with HL tracks

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																					
2125																					
2250																					
2375																					
2500																					
2625																					
2750																					
2875																					
3000																					
3125																					
3250																					
3375																					
3500																					
3625																					
3750																					
3875																					
4000																					
4125																					
4250																					
4375																					
4500																					
4625																					
4750																					
4875																					
5000																					
5125																					
5250																					

HLO – High tracks with a 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 = 1,700 [mm].



Dimensional range for MakroPro ALU 2.0 doors with HLO tracks

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to												
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000													
2125													
2250													
2375													
2500													
2625													
2750													
2875													
3000													
3125													
3250													
3375													
3500													
3625													
3750													
3875													
4000													
4125													
4250													
4375													
4500													
4625													
4750													

HL 2x45 – high tracks 2x45°.
In this design, the conventional track arch with a 90° angle is replaced with the double 2x45° profile solution. Because of the offset, these tracks make it possible to install the door in areas with various obstacles, e.g. structural elements of the building, vent ducts, water pipes or electrical conduits.



Dimensional range for MakroPro 2.0 doors with HL 2x45 tracks

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																					
2125																					
2250																					
2375																					
2500																					
2625																					
2750																					
2875																					
3000																					
3125																					
3250																					
3375																					
3500																					
3625																					
3750																					
3875																					
4000																					
4125																					
4250																					
4375																					
4500																					
4625																					
4750																					
4875																					
5000																					
5125																					
5250																					

**VL – Vertical tracks.**

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.

**Dimensional range 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																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																					
2250																					
2500																					
2750																					
3000																					
3250																					
3500																					
3750																					
4000																					
4250																					
4500																					
4750																					
5000																					

$N_{min} = H_o + 650$ [mm]

VLO – Vertical tracks with a lowered 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 MakroPro ALU 2.0 doors with VLO tracks

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to												
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000													
2125													
2250													
2375													
2500													
2625													
2750													
2875													
3000						Nmin = Ho + 370 [mm]							
3125													
3250													
3375													
3500													
3625													
3750													
3875													
4000													
4125													
4250													
4375													
4500													
4625													
4750													
4875													
5000													

**STLK – Standard tracks 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:

Nmin = 435 [mm] for 5, 10, 15 degree angles,

Nmin = 510 [mm] for 20, 25, 30, 35 degree angles,

Nmin = 510 [mm] for 40, 45 degree angles – on request,

Nmin = 555 [mm] for 50, 55, 60 degree angles.

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

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																			
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																				
2125																				
2250																				
2375																				
2500																				
2625																				
2750																				
2875																				
3000																				
3125																				
3250																				
3375																				
3500																				
3625																				
3750																				
3875																				
4000																				
4125																				
4250																				
4375																				
4500																				
4625																				

Dimensional range for MakroPro ALU 2.0 doors with STLK tracks for the angle range of 50, 55, 60 degrees

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																				
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																					
2250																					
2500																					
2750																					
3000																					
3250																					
3500																					
3750																					
4000																					
4250																					
4500																					
4750																					
5000																					

**HLK – High tracks 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:

Nmin = 435 [mm] for 5, 10, 15, 20, 25, 30, 35, 50, 55, 60 degree angles,

Nmin = 435 [mm] for 40, 45 degree angles – on request.

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

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																			
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																				
2125																				
2250																				
2375																				
2500																				
2625																				
2750																				
2875																				
3000																				
3125																				
3250																				
3375																				
3500																				
3625																				
3750																				
3875																				
4000																				
4125																				
4250																				
4375																				
4500																				
4625																				

Dimensional range for MakroPro ALU 2.0 doors with HLK tracks for the angle range of 50, 55, 60 degrees

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to																			
	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000
2000																				
2125																				
2250																				
2375																				
2500																				
2625																				
2750																				
2875																				
3000																				
3125																				
3250																				
3375																				
3500																				
3625																				
3750																				
3875																				
4000																				
4125																				
4250																				
4375																				
4500																				
4625																				
4750																				
4875																				
5000																				

**LHK – Low tracks 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. Nmin = 210 [mm] for 5, 10, 15 degree angles.



Dimensional range for MakroPro ALU 2.0 doors with LHK tracks for the angle range of 5, 10, 15 degrees

Opening height (Ho) in [mm] up to	Opening width (So) in [mm] up to												
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000													
2125													
2250													
2375													
2500													
2625													
2750													
2875													
3000													
3125													
3250													
3375													
3500													
3625													
3750													
3875													
4000													
4125													
4250													
4375													
4500													
4625													



OPTIONAL ACCESSORIES

WICKET DOOR

- The maximum dimensions of the sectional door in which a wicket door can be fitted are $So \times Ho \leq 5,500 \times 6,000$ [mm].
- Minimum dimensions for sectional door where wicket door can be fitted are $2,400 \times 2,600$ [mm] ($So \times Ho$).
- The maximum dimensions of the sectional door in which a wicket door can be fitted are $5,000 \times 5,000$ [mm] ($So \times Ho$).
- Standard entrance clear opening width is 850 [mm], entrance clear opening height can range from 1,800 [mm] to 2,050 [mm] depending on the sectional door height and the panels used.
- 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.



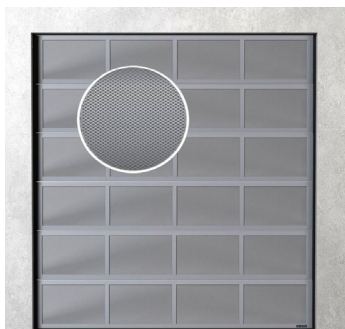
Wicket door.

By default, the door features a ~100 [mm] threshold (including the gasket ~40 [mm]). Optionally, a low threshold 21 [mm] with a gasket can be ordered.

Low threshold in wicket door.

Low threshold is made of an aluminium section 21 [mm], high and minimizes obstacles in the passageway. Available with gates $So \times Ho \leq 4,500 \times 6,000$ [mm] with a bottom steel panel.

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.



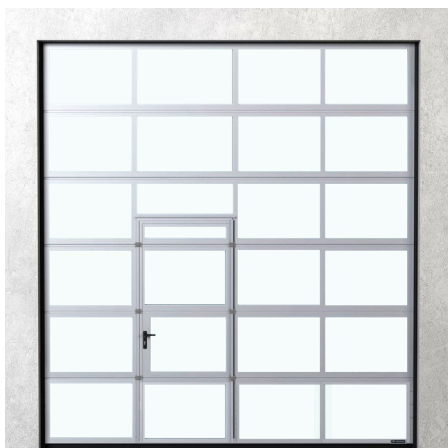
Door with a bottom metal sheet – expanded polystyrene – metal sheet panel.



Door with glazed panels only.



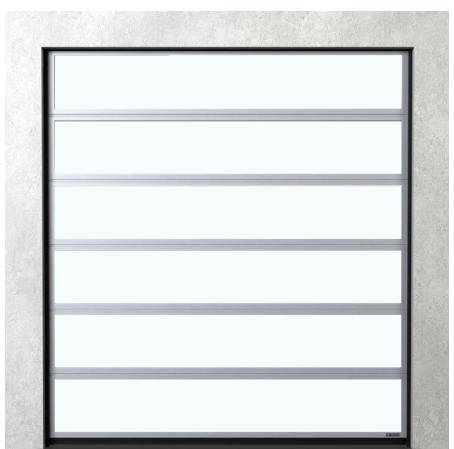
Door with a wicket door.



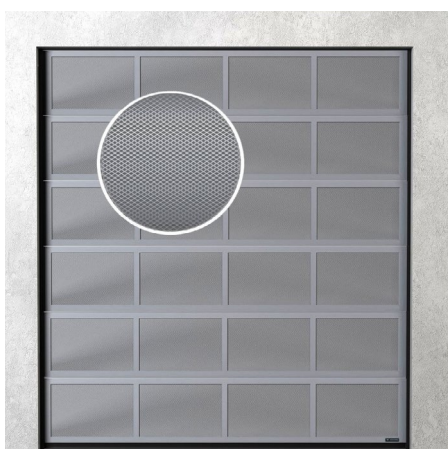
Door with a wicket door and a bottom glazed panel.



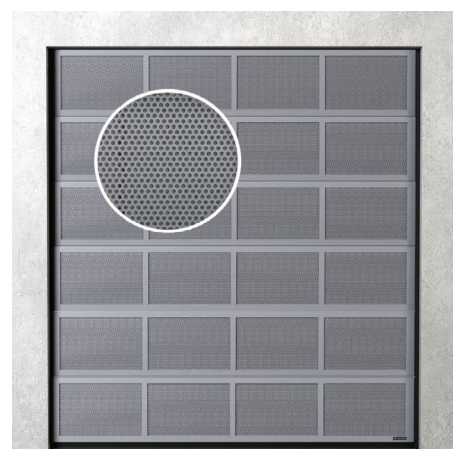
Door with the Visual glazed panels and a bottom glazed panel.



Door with the Visual panels only.



Door with ventilated panels (expanded mesh).

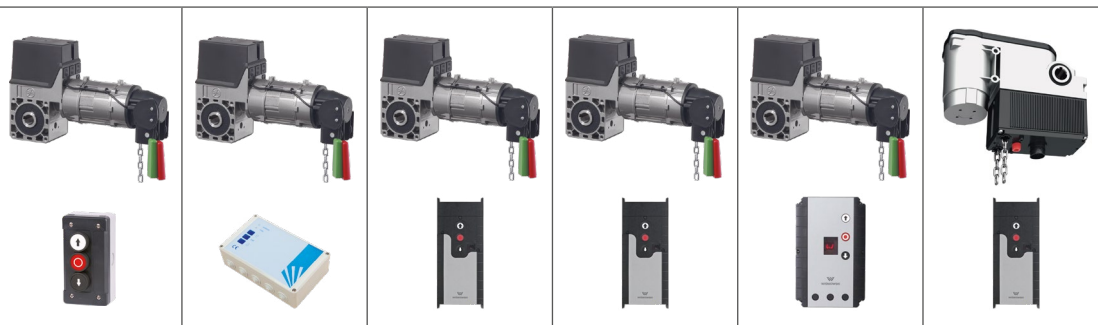


Door with ventilated panels (double perforated sheet).



AUTOMATIC OPERATING UNIT KITS

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

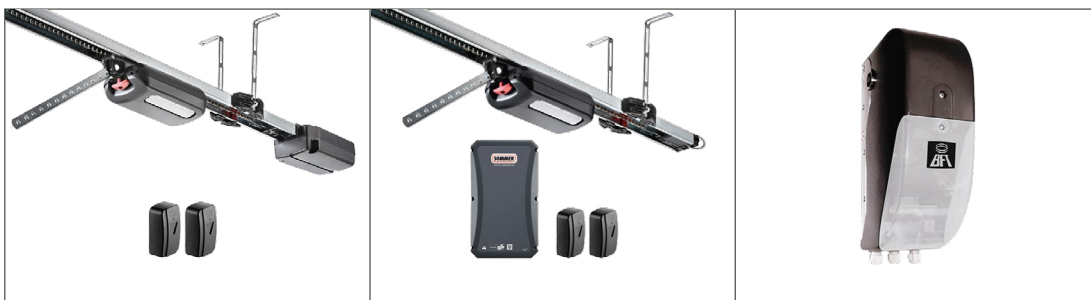


Technical data	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Mains	1x230 [V]; 50-60 [Hz]	1x230 [V]; 50-60 [Hz]	3x400 [V]; 50-60 [Hz]	3x400 [V]; 50-60 [Hz]	3x400 [V]; 50-60 [Hz]	1x230 [V] lub 3x400 [V]; 50-60 [Hz]
Motor supply	1x230 [V]; 50 [Hz]	1x230 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [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	12 - 60 [RPM] ⁽²⁾ ; adjustable
Motor power	0.37 [kW]	0.37 [kW]	0.3 - 0.45 [kW] ⁽³⁾	0.3 - 0.45 [kW] ⁽³⁾	0.3 - 0.45 [kW] ⁽³⁾	0.4 - 0.85 [kW] ⁽³⁾
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⁾	6.6 - 7.35 [A] ⁽³⁾

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	no
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	yes	yes	yes	yes
LED signal lights (red - green)	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	no	yes
WSD module - wireless signal transmission from the optical strip	no	no	no	yes ⁽⁵⁾	no	yes ⁽⁵⁾
Safety barrier	no	yes	no	yes	yes	yes
Exterior lighting control	no	no	yes	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 5.24 and SE 9.24 drive unit, ⁽²⁾ - applies to the SE 8.60 FU 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+	BFT Argo
Power supply / Motor	230 [V], 50-60 [Hz] / 24 [V] DC	230 [V], 50-60 [Hz] / 24 [V] DC	230 [V], 50-60 [Hz] / 24 [V] DC
Force	1100 [N] / —	1100 [N] / —	— / 55 [Nm]
Efficiency	20	20	10
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	gear
Travel speed / rotational	18 cm/s / —	18 cm/s / —	— / 30 rpm
Central control unit	mounted at the end of the track	in bulk, wall mounted	built-in, installed on the shaft
Radio receiver	SOMMER, built-in - 868 MHz	SOMMER, built-in - 868 MHz	BFT, built-in - 433 MHz
Radio receiver storage	40 transmitters	40 transmitters	63 transmitters
Auto selection of operating parameters	yes	yes	yes
Limit switches	encoder + mechanical bumper	encoder + mechanical bumper	encoder
Emergency uncoupling	yes	yes	yes
Application	sectional	sectional	sectional
Dynamic shutting (up and over doors)	no	no	no
Rotating automatic operating unit head	no	no	no
Warranty	2 years	2 years	2 years

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



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 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.



GALLERY



MakroPro 2.0 facade door.



MakroPro ALU 2.0 doors.



MakroPro ALU 2.0 doors.



MakroPro ALU 2.0 doors.



MakroPro ALU 2.0 door (as seen from the inside).



MakroPro ALU 2.0 door with expanded mesh infill.



MakroPro ALU 2.0 doors.





TECHNICAL DATA

	MakroPro ALU 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 $g=42 \text{ kg/m}^3$ without HCFC.
Minimum number of cycles	25,000
Heat transfer coefficient U [$\text{W/m}^2\text{xK}$]	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 R_w [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 SE, BFT Argo, Sommer base+, tiga+ / 1x230 V / 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, 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, 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]	7000 / 5500
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, LrH, LH, LHp, ELH, HL, HLO, HL 2x45, VL, VLO, STLK, HLK, LHK


WIŚNIEWSKI

WIŚNIEWSKI Sp. z o.o. S.K.A.
PL 33-311 Wielogłowy 153
Tel. +48 18 44 77 111
Fax +48 18 44 77 110
www.wisniowski.eu

Let us inspire you!
See other solutions from WIŚNIEWSKI!



The products shown in the pictures often feature special accessories and do not always correspond to their standard versions • The technical data sheet does not constitute an offer within the meaning of the Polish Civil Code • The manufacturer reserves the right to introduce changes without notice • NOTE: The colours shown in the technical data sheet are for reference only • All rights reserved • Copying and use, in part or in full, is prohibited without the consent of WIŚNIEWSKI Sp. z o.o. S.K.A. • MakroProALU 2.0/01.22/EN.