INDUSTRIAL DOORS

WIŚNIOWSKI
GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS
MakroPro 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.

THERMAL INSULATION

Steel panels are made of galvanized sheet, filled with freon-free, hardened polyurethane foam and coated with polyester paint on both sides. This ensures very good thermal insulation and acoustic properties. Each door features a system of flexible and robust gaskets both along the entire circumference and between the panels, which considerably contributes to the insulating qualities of the door.

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

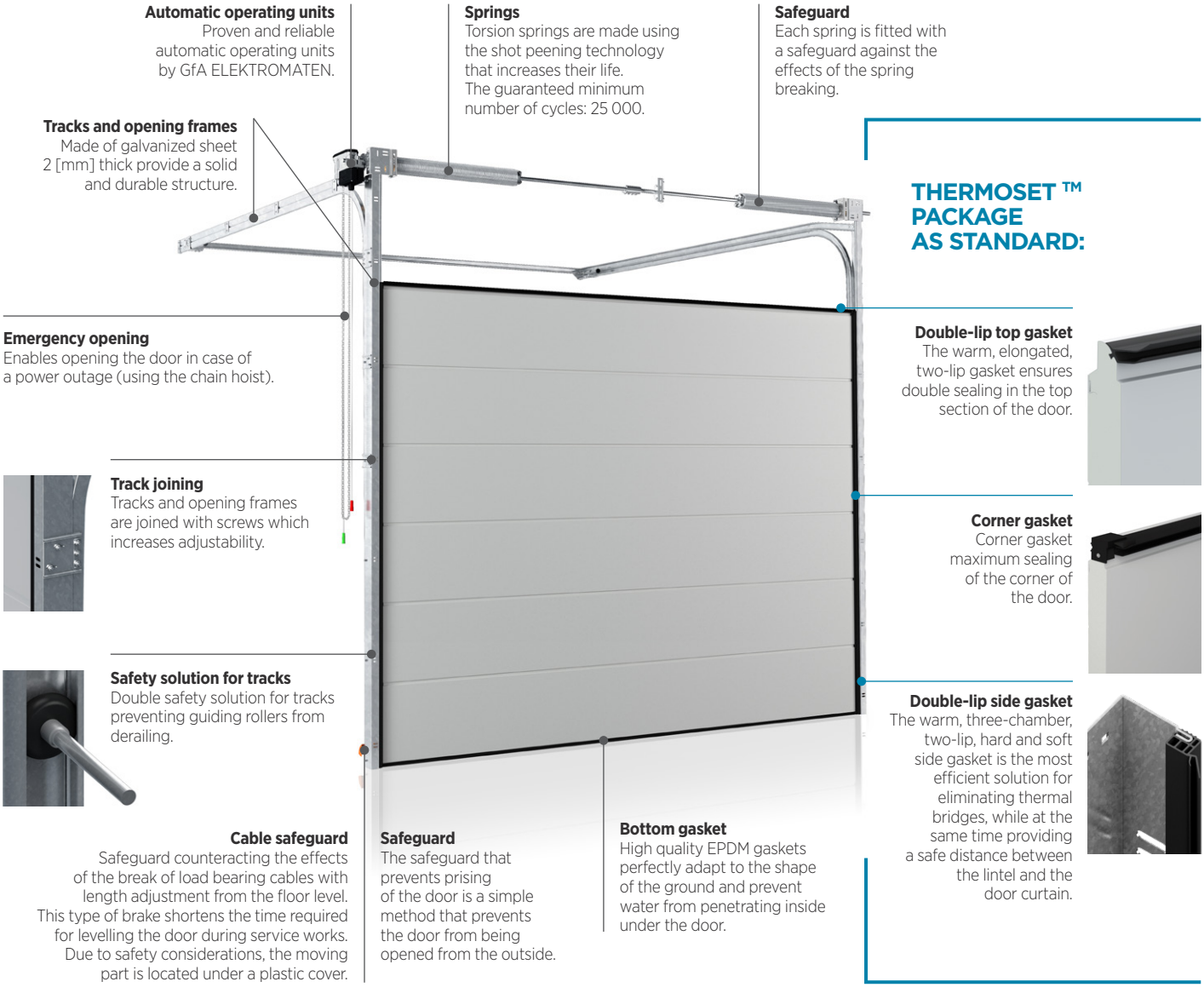
The sectional door is installed behind the opening, it opens vertically upwards and does not take any space on the forecourt. Sectional doors let you use the space available in front of the gate and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIOWSKI industrial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

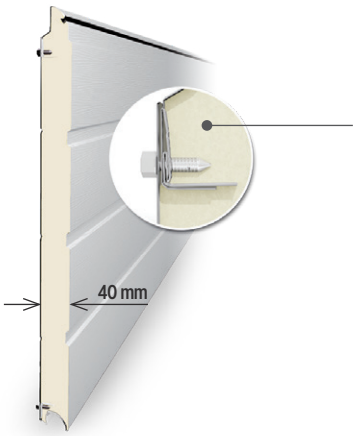
Tracks featuring a special double profile prevent it from derailing. Comfortable operation of the door is ensured by our chain hoist or electric drive unit.

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.

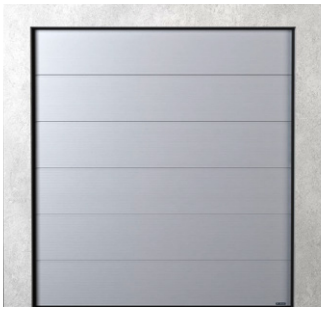


PANEL STRUCTURE

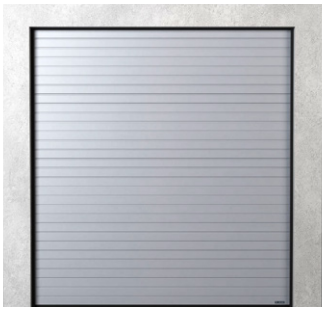


Robust and reliable design.
Our whole range of industrial sectional doors follows identical design principles. Thanks to our robust and reliable design, you can rest assured that the door will meet even the most extreme requirements and operating conditions. Special solutions, such as the original panel built using the **5-ply** sheet bending system ensures stable fastening of elements, which further contributes to the strength of the structure. The top section is fitted with a lip gasket. The internal side of the panel in RAL 9002.

RIB DESIGNS


G – No ribs


W – High ribs

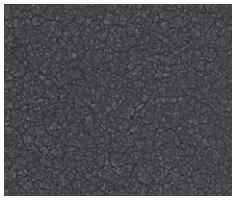

N – Low ribs


V – V ribs

TEXTURES

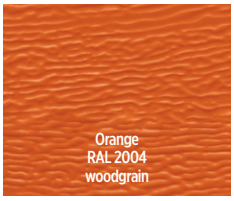

Woodgrain

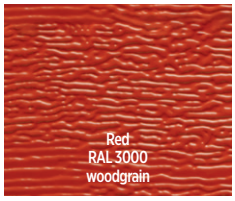

Smoothgrain

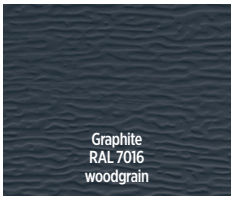

Sandgrain

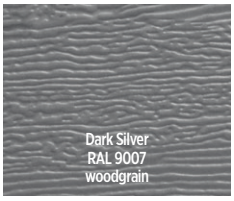

Silkline

COLOURS | **STANDARD COLOURS**









COLOURS | **SPECIAL COLOURS**

Graphite RAL 7016 silkline	Silver RAL 9006 silkline	White RAL 9016 silkline	Anthracite sandgrain	Golden Oak woodgrain	Golden Oak smoothgrain
Nut Brown woodgrain	Nut Brown smoothgrain	Anthracite Grey 701605-167 smoothgrain	Cream White 137905-167 smoothgrain	Dark Green 612505-167 smoothgrain	Metbrush Silver F436-1002 smoothgrain
Silbergrau 116700 smoothgrain	White 915205-168 smoothgrain	Chocolate Brown 887505-1167 smoothgrain	Anthracite Quartz 436-1014 smoothgrain	AnTEAK 3241002-195 smoothgrain	Dark Oak 2052089-167 smoothgrain
Swamp Oak 3167004-167 smoothgrain	Soft Cherry 3214009-195 smoothgrain	Macore 3162002-167 smoothgrain	Oregon 1192001-167 smoothgrain	Sapeli 2065021-167 smoothgrain	Siena Noce 49237 PN smoothgrain
Siena PL 49254-015 smoothgrain	Siena Rosso 49233 PR smoothgrain	Winchester 49240 XA smoothgrain	Black Cherry 3202001-167 smoothgrain	Natural Oak 3118076-1168 smoothgrain	Daglesia 3152009-1167 smoothgrain
Rustic Oak 3149008-167 smoothgrain	Sheffield Oak Brown F 436-3087 smoothgrain	Sheffield Oak Light F 456-3081 smoothgrain	Sheffield Oak Grey F 436-3086 smoothgrain	Brush Schwarzbraun F436-1023 smoothgrain	Earl Platin 119500 smoothgrain
Black Ulti-mat PX47097 smoothgrain	Woodec Turner Oak Malt F4703001 smoothgrain	Woodec Sheffield Oak Alpine F4703002 smoothgrain	Woodec Sheffield Oak Concrete F4703003 smoothgrain	Woodec Turner Oak Toffee F470-3004 smoothgrain	Anthracite Quartz Mat F470-1014 smoothgrain
Umbragrau F436-60657 smoothgrain	Fenstergrau F436-6066 smoothgrain	Cremeweiss F456-6001 smoothgrain	Anthrazitgrau F436-6003 smoothgrain	Dark Grey Silk 4367003 smoothgrain	

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 = 435, 520, 870 [mm].
For buildings where horizontal ceiling tracks can be used.

Dimensional range for MakroPro 2.0 doors with STL 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	7250	7500	7750	8000
2000																									
2125																									
2250																									
2375																									
2500																									
2625																									
2750																									
2875																									
3000																									
3125																									
3250																									
3375																									
3500						Nmin = 435 [mm]												Nmin = 520 [mm]							
3625																									
3750																									
3875																									
4000																									
4125																									
4250																									
4375																									
4500																									
4625																									
4750																									
4875																									
5000																									
5125																									
5250																									
5375																									
5500																									
5625																									
5750																									
5875																									
6000																									
6125																									
6250																									
6375																									
6500																									
6625									Nmin = 870 [mm]																
6750																									
6875																									
7000																									
7125																									
7250																									
7375																									
7500																									

LrH – Low guides – rear torsion springs.
Track system for buildings with a low lintel Nmin = 150 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.

Dimensional range for MakroPro 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							**Nmin = 150 [mm]**								
2625															
2750															
2875															
3000															

LH – Low guides – rear torsion springs.
Track system for buildings with a low lintel Nmin = 220 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.

Dimensional range for MakroPro 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							**Nmin = 220 [mm]**												
3750																			
4000																			
4250																			
4500																			
4750																			
5000																			

LHp – Low guides.
Track system for buildings with a low lintel Nmin = 280 [mm].
Frequently used in underground garages, indoor car parks or multiple bay car parks.

Dimensional range for MakroPro 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							**Nmin = 280 [mm]**												
3750																			
4000																			
4250																			
4500																			
4750																			
5000																			

ELH – Low guides – rear torsion springs.
The track is intended for buildings with an fake lintel, Nmin = 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																	

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

Dimensional range for MakroPro 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	7250	7500	7750	8000
2000																									
2125																									
2250																									
2375																									
2500																									
2625																									
2750																									
2875																									
3000																									
3125																									
3250																									
3375																									
3500																									
3625												**Nmin > 600 [mm]**													
3750																									
3875																									
4000																									
4125																									
4250																									
4375																									
4500																									
4625																									
4750																									
4875																									
5000																									
5125																									
5250																									

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 = 1700 [mm].

Dimensional range for MakroPro 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													

HLO Dock – High tracks with a lowered shaft for loading and unloading docks.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = 1700 [mm].

Dimensional range for MakroPro 2.0 doors with HLO Dock tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to				
	2000	2250	2500	2750	3000
2000					
2125					
2250					
2375					
2500					
2625					
2750					
2875					
3000					
3125					
3250					

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	7250	7500	7750	8000
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 guides.
Track system for buildings with a very high lintel Nmin = Ho + 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 2.0 doors with VL 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	7250	7500	7750	8000
2000																									
2250																									
2500																									
2750																									
3000																									
3250											**Nmin = Ho + 650 [mm]**														
3500																									
3750																									
4000																									
4250																									
4500																									
4750																									
5000																									

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 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													

VLO Dock – vertical tracks with a lowered shaft for loading and unloading docks.
With the shaft located by the lintel, access for servicing and maintenance works is facilitated and makes the process of installation easier Nmin = Ho + 440 [mm].

Dimensional range for MakroPro 2.0 doors with VLO Dock tracks

Opening height (Ho) in [mm] up to	**Opening width** (So) in [mm] up to				
	2000	2250	2500	2750	3000
2000					
2125					
2250					
2375					
2500					
2625					
2750					
2875					
3000					
3125					
3250					

STLK – Inclined guides.
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 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																				
	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																					

Dimensional range for MakroPro 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 – Inclined guides.
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 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																				
	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								■	■	■	■	■	■								

Dimensional range for MakroPro 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																				
	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											■	■	■								

LHK – Inclined guides.
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 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

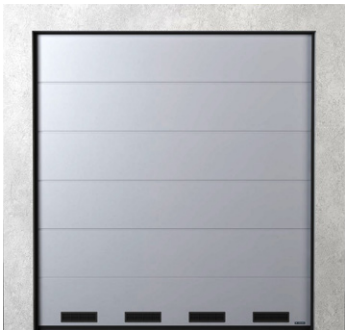
WICKET DOOR

- The maximum dimensions of the sectional door in which a wicket door can be fitted are So x Ho ≤ 5500 x 6000 [mm].
- Minimum dimensions for sectional door where wicket door can be fitted are 2000 x 2100 [mm] (So x Ho).
- Standard entrance clear opening width is 900 [mm], entrance clear opening height can range from 1800 [mm] to 1980 [mm] depending on the sectional door height and the panels used.
- The maximum entrance clear opening dimensions are 1000 x 2330 [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.
- The wicket door is installed in the centre of the door leaf width by default. The wicket door can be moved in relation to the sectional door centre.
- 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 additional lock, door closer, electric lock with a wireless code keypad, class C lock cylinder or an anti-panic lock.

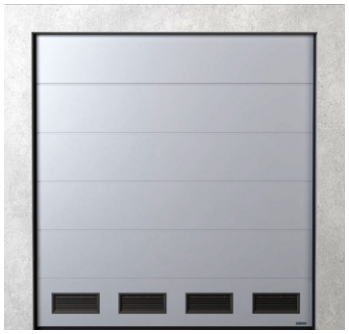
Wicket door.
By default, the door features a ~100 [mm] threshold (including the gasket ~40 [mm]). Optionally, a low threshold 19 [mm] with a gasket can be ordered. Available with gates So x Ho ≤ 5500 x 6000 [mm].

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 ≤ 5500 x 6000 [mm].

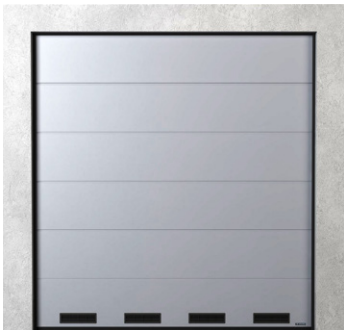
VENTILATION GRILLES



Ventilation grille K-1.
Dimensions 426x89 [mm] (clear dimensions).
Air flow for grille type "K-1": 464 [m^3/h]
in accordance with PN-EN 12427.
Actual ventilation area – 0.02 [m^2].



Ventilation grille K-2.
Dimensions 525x195 [mm] (clear dimensions).
Air flow for grille "K-2": 746 [m^3/h]
in accordance with PN-EN 12427.
Actual ventilation area – 0.05 [m^2].



Ventilation grille K-3.
Dimensions 308x103 [mm] (clear dimensions).
Grille with a double mosquito screen
and air flow adjustment. Air flow: 159 [m^3/h]
in accordance with PN-EN 12427.
Actual ventilation area – 0.015 [m^2].

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%).

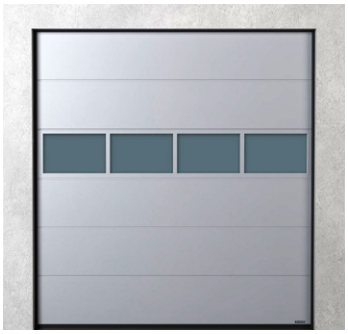
WINDOWS

Type B-3 oval.
Made of double, clear acrylic glass, smooth frame surface. Black external and internal frame. Internal/external frame made of ABS. External dimensions of the frame 667x347 [mm]. Light transmission 86%.

Type A-3.
Made of a double transparent acrylic pane; the frame surface is smooth. The outer and inner frames are black. The outer/inner frame is made of ABS. Frame outside dimensions: 643x337 [mm]. Transmittance of light: 86%.

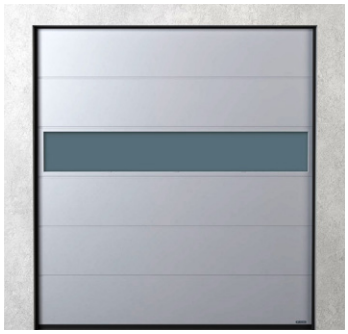
Type B-1.
Made of double, clear acrylic glass. Black external and internal frame. Internal/external frame made of ABS. External dimensions of the frame 610x200 [mm]. Light transmission 86%.

GLAZED PANELS



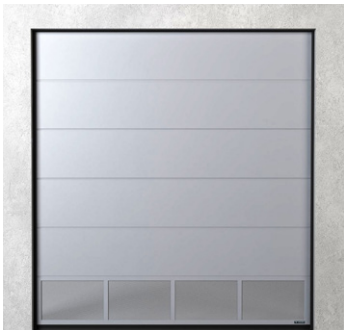
MakroPro 2.0 doors can be glazed up to 50% of the aluminium panel with glazing bars in relation to the total number of panels. The panel is painted on both sides in the external door colour. Available with doors So ≤ 7500 [mm] and Ho ≤ 5500 [mm] with glazing units: No-Scratch, “R”, Satin, and Grey.

GLAZED PANEL



Aluminium panel with a clear acrylic glass without glazing bars – VISUAL. The panel is painted on both sides in the external door colour. Available with MakroPro 2.0 doors So ≤ 3500 [mm] and Ho ≤ 4000 [mm] with glazing units: No-Scratch, “R”, Satin, and Grey.

VENTILATED PANEL

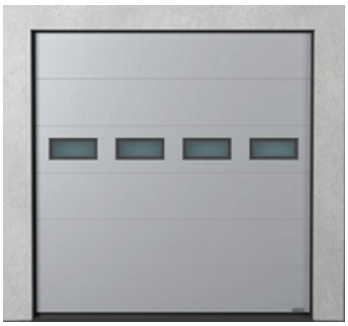


Aluminium panel infilled with a single layer of galvanized expanded steel mesh. The panel is painted on both sides in the external door colour.

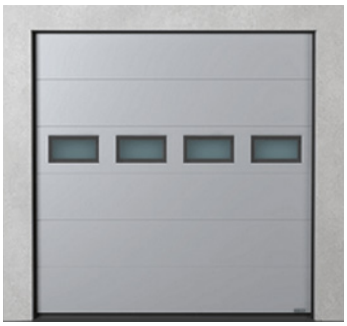
The air flow for the expanded mesh panel is 7504 [m^3/h] per 1 [m^2] of mesh surface area in accordance with PN-EN 12427 (~70 % panel surface area).

The air flow for the panel with double perforated sheet is 3051 [m^3/h] per 1 [m^2] of perforated sheet in accordance with PN-EN 12427 (~70% panel surface area).

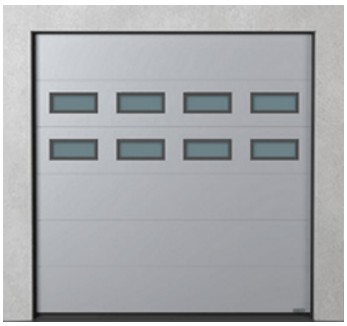
EXAMPLE MakroPro 2.0 DOOR DESIGNS



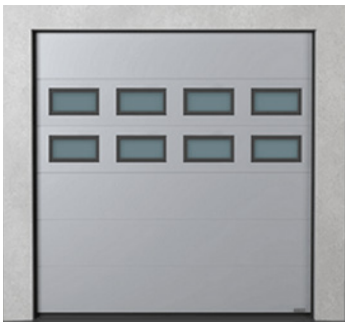
Door with window B-1.



Door with window A-3.



Door with window B-1 (two panels).



Door with window A-3 (two panels).

Door with a glazed panel.

Door with a glazed panel
(two panels).

Door with a glazed Visual panel.

Door with wicket door
(central position).

Door with wicket door (side position).

Door with ventilation grilles K-1.

Door with ventilation grilles K-2.

Door with wicket door
(central position)
and ventilation grilles K-1.

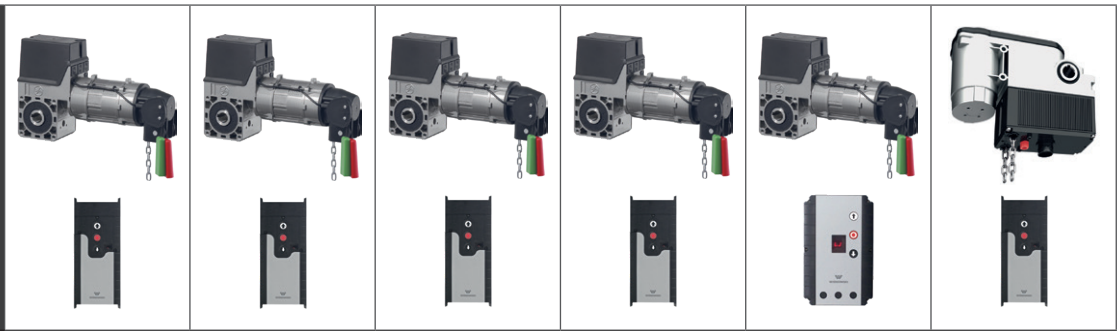
Door with wicket door
(central position)
and windows B-1.

Door with wicket door
(central position)
and windows A-3.

Door with a ventilated panel
(expanded mesh).

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.

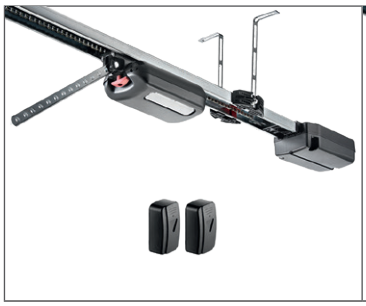


Technical data	Totmann 230	Automatik 230	Totmann	Automatik	Automatik S	Automatik FU
Mains	1x230 [V]; 50–60 [Hz]	1x230 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	3x400 [V]; 50–60 [Hz]	1x230 [V] lub 3x400 [V]; 50–60 [Hz]
Motor supply	1x230 [V]; 50 [Hz]	1x230 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]	3x400 [V]; 50 [Hz]
Limit switch	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level	Electronic, available from operator level
Central control unit	TS 959; separate	TS 970; separate	TS 959; separate	TS 970; separate	TS 981; separate	TS 970, TS 971 or TS 981; separate
Display	yes	yes	yes	yes	yes	yes
Emergency opening	yes	yes	yes	yes	yes	yes
Rotational speed	18 [RPM]; fixed	18 [RPM]; fixed	24 [RPM] (1); fixed	24 [RPM] (1); fixed	24 [RPM] (1); fixed	12 – 60 [RPM] (2); adjustable
Motor power	0.25 [kW]	0.25 [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	1.7 [A]	1.7 [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; from 1 ÷ 240 [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	yes	yes	yes	yes	yes	yes
Partial opening of the door	yes	yes	no	yes	yes	yes
Cycle counter	yes	yes	yes	yes	yes	yes
Recent fault logging	yes	yes	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	yes	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	SPARK	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
Door opening speed [cm/s]	18	18	10
Central control unit	mounted at the end of the track	in bulk, wall mounted	built-in, installed on the shaft
Radio receiver	built-in – 868 MHz	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

CONTROL YOUR DOOR WITH YOUR SMARTPHONE!

The Ri-Co controller means safety and control. Use your smartphone to control WIŚNIOWSKI doors from any place in the world. Just activate the wBox app available in Google Play and App Store to control you power operated door.

Ri-Co CONTROLLERS

With 2 Ri-Co versions you can choose the level of control you need. The basic Ri-Co controller can only open or close the door. But Ri-Co Pro is an extended version, which also lets you check the status of the door (door open/closed). Ri-Co requires a Wi-Fi network. Take full control without having to use any auxiliary devices.

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 WIŚNIOWSKI. 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 2.0 doors with aluminium glazings brightening up the interior.

MakroPro 2.0 doors with aluminium glazings brightening up the interior.

MakroPro 2.0 doors with aluminium glazings brightening up the interior.

MakroPro 2.0 doors with small windows.

MakroPro 2.0 door (underground car park).

MakroPro 2.0 doors with aluminium glazings brightening up the interior.

TECHNICAL DATA

	MakroPro 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 g=42 kg/m^3 without HCFC
Minimum number of cycles	25 000
Heat transfer coefficient U panel [W/m^{2}xK]	0.48
Watertightness (class)	class 3 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
Reaction to fire NFP	Fire properties B Smoke production s2 Flaming droplets d0 In accordance with EN 13501-1+A1:2010
Acoustic absorption coefficient Rw [dB] without wicket door / with wicket door	23 / 24 in accordance with PN-EN ISO 717-1: 1999
Drive type / power supply type	GfA series SE, BFT Argo, SPARK, 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]	8000 / 7500
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 2004, RAL 3000, RAL 5010, RAL 7016, RAL 8014, RAL 9006, RAL 9007, RAL 9016
Custom colours	other RAL colours, special colours, including wood imitating colours, (film coated panels)
Track type	STL, LrH, LH, LHp, ELH, HL, HLO, HLO Dock, HL 2x45, VL, VLO, VLO Dock, STLK, HLK, LHK

WIŚNIOWSKI

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