

GARAGE DOORS



WIŚNIEWSKI

GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS UniPro

Intended use: The sectional garage door is intended for use in private residential buildings. It is made of vertical tracks, horizontal ceiling-mounted tracks, and a leaf made of steel panels. The structure is made of galvanized elements. The door is sealed around the entire circumference.

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 focus on minimizing all traces of risk. Regardless of the method of operation, WIŚNIEWSKI 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 garage doors can be matched to all types of garages. A properly selected track type makes it possible to take advantage of all the benefits of the door that can be fitted in newly built buildings just as well as in those to be renovated.

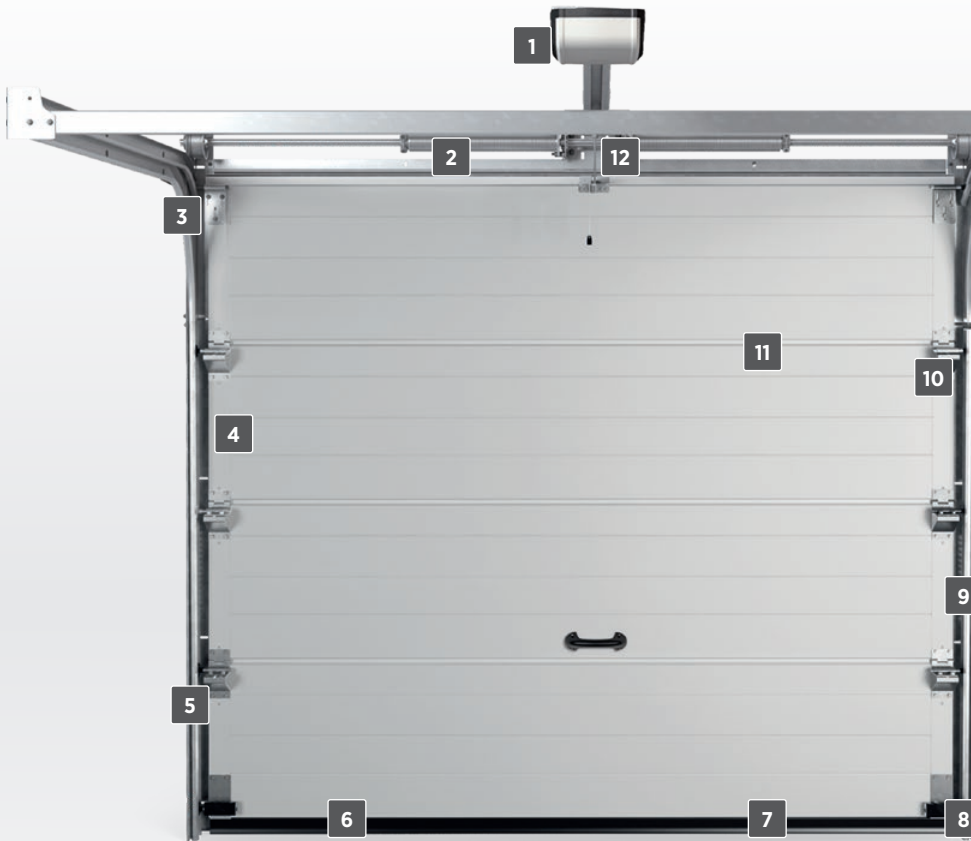


STRUCTURE

The sectional door is installed behind the opening or in the opening (depending on the type), it opens vertically upwards and does not take up any space on the driveway. Sectional doors let you use the space available in front of the door and inside the building to its maximum potential. Thanks to our broad range of track systems, WIŚNIOWSKI garage doors can be matched with all types of buildings, even non-standard ones. Our solutions enable the door to operate without disturbing you in the garage. Thanks to numerous safety systems, our doors are safe at every stage of opening and closing, regardless of the method of operation: manual or automatic.

The leaf weight is perfectly balanced with the torsion spring system designed for 25,000 cycles or the pull spring system designed for 20,000 cycles. 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 profile that prevents fingers from getting crushed. All the steel elements are galvanized (tracks, frames, fastening elements). The door is fitted with guiding sliding rollers with bearings providing appropriate running of the door curtain, while a dedicated profile of the tracks prevents derailing.

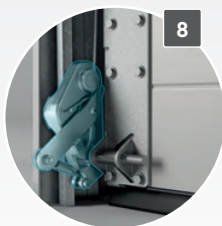
Large dimension gates are additionally reinforced with special elements that increase the rigidity of the entire structure. Door panels are coated with high quality polyester paints. This provides optimum protection against the weather conditions and ensures many years of operation. Thanks to the vast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



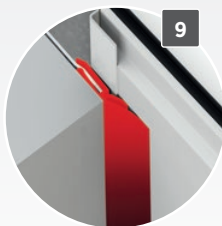
- 1 Automation solutions**
Proven and reliable automatic operating units: METRO Smart io, MOTO io or SPARK.
- 2 Drive shaft and springs**
Spring system responsible for balancing out the door leaf weight. The guaranteed minimum number of cycles: 25,000.
- 3 Tracks and opening frames**
Made of galvanized sheet, they provide a stable and durable structure.
- 4 Panel hardware in the RAL 9002 colour**
The colour matches the panel colour on the inside.
- 5 Photocells**
They prevent uncontrolled door leaf operation when an obstacle is present within the clear passage – optional accessory.
- 6 Bottom gasket**
High quality EPDM gaskets perfectly adapt to the shape of the floor and prevent water from penetrating under the door to the inside of the garage.

**Overload safety device**

In automatic doors; the door leaf stops and reverses when the bottom edge contacts an obstacle.

**Cable break safety device⁽¹⁾**

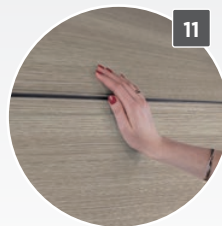
Used as standard, it ensures improved sealing of the door.

**Double-lip circumferential seal**

Used as standard, it ensures improved sealing of the door.

**Quiet guiding rollers**

In doors with torsion springs; they ensure proper running of the door.

**Special panel shape**

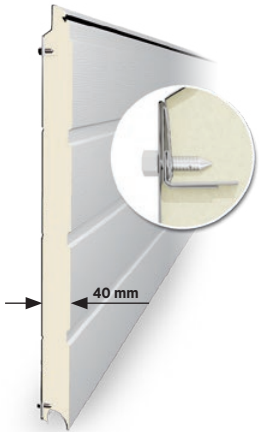
They prevent fingers from being crushed.

**Integrated spring break safety device**

⁽¹⁾ – Standard for doors with the SHL, SSa, and SStA tracks in the entire dimensional range and for doors with other tracks fitted with torsion springs when the surface area $S_o \times H_o \geq 9$ [m²]. For doors $S_o \times H_o < 9$ [m²], available as an optional accessory.



PANEL STRUCTURE



Robust and reliable design

We consistently follow the same design principles for our whole range of sectional garage doors. Thanks to our robust and reliable design, you can rest assured that the door will meet even the most extreme requirements and withstand the most demanding operating conditions. Special solutions, such as the original panel built using the **5-ply** sheet bending system ensures stable fixation of elements, which further contributes to the strength of the structure. The top section is fitted with a lip gasket. The inner side of the panel in a colour similar to RAL 9002. Thermal transmittance factor of the panel $U_p = 0.48 \text{ W/m}^2\text{K}$

RIB TYPES



G - without ribs



W - high ribs



N - low ribs



K - caisson ribs



V - V ribs

TEXTURES



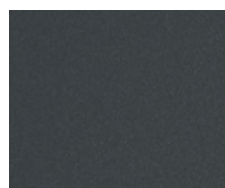
Woodgrain



Smoothgrain



Sandgrain



Silkline



Silkline, panel with V ribs



AVAILABLE COLOURS:

 Anthracite sandgrain	 Golden Oak woodgrain	 Walnut woodgrain	 Graphite RAL 7016 woodgrain	 Graphite RAL 7016 silkline	 Black RAL 9005 silkline
 Brown RAL 8014 woodgrain	 Silver RAL 9006 woodgrain	 Silver RAL 9006 silkline	 White RAL 9016 woodgrain	 White RAL 9016 silkline	 Golden Oak smoothgrain
 Walnut 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
 Summer Cherry 3214009-195 smoothgrain	 Macore 3162002-167 smoothgrain	 Oregon 1192001-167 smoothgrain	 Sapelli 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	 Douglas Fir 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	 Umbragrau F436-6065 smoothgrain	 Fenstergrau F436-6066 smoothgrain	 Cremeweiss F456-6001 smoothgrain
 Anthrazitgrau F436-6003 smoothgrain	 Dark grey silk 4367003 smoothgrain	 Golden Oak 2178001-167 smoothgrain	 Walnut 2178007-167 smoothgrain	 Anthracite Quartz Matt F4701014 smoothgrain	 Woodec Turner Oak Toffee F4703004 smoothgrain
 Irish Oak 3211305-1148 smoothgrain	 Sable Noir 2100 silkline	 Sable Noir 2100 woodgrain	 <p>Our paint range includes over 200 colours from the RAL palette.</p>  <p>Film coatings available with garage doors with the panel: G - without ribs or W - with high ribs</p>		



HOME INCLUSIVE 2.0 colours

The Home Inclusive 2.0 colour collection combines four product groups: Gates | Windows | Doors | Fences, which provide a consistent design of all the products.

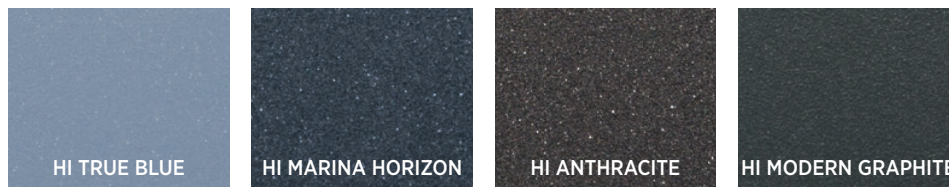
HI EARTH



HI STONE



HI STEEL



HI RUBY



Doors in light colours should be fitted on the side exposed to sunlight. It is not recommended to fit dark colour doors in such conditions, in particular RAL: 3007, 4006, 4007, 5004, 5008, 5010, 5011, 5020, 5022, 6008, 6009, 6015, 6022, 7015, 7016, 7021, 7024, 7026, 7043, 8014, 8019, 8022, 9004, 9005, 9011, 9017, 9021, Anthracite, Walnut, Macore, Dark Oak, Swamp Oak, Siena Noce, Siena Rosso, Quartz Anthracite, Summer Cherry, Sapeli, Dark Green, Sheffield Oak Brown, Rustic Oak, Chocolate Brown, Black Ulti-Mat, Brush Schwarzbraun, Umbragrau, Anthrazitgrau. When a dark colour is chosen for doors installed on the side exposed to sunlight, the panels can heat up, which may result in deformation. The door leaf cannot be painted from the inside. When ordering doors in matching colours in different orders (supply batches), the colour hues can differ due to technological reasons.

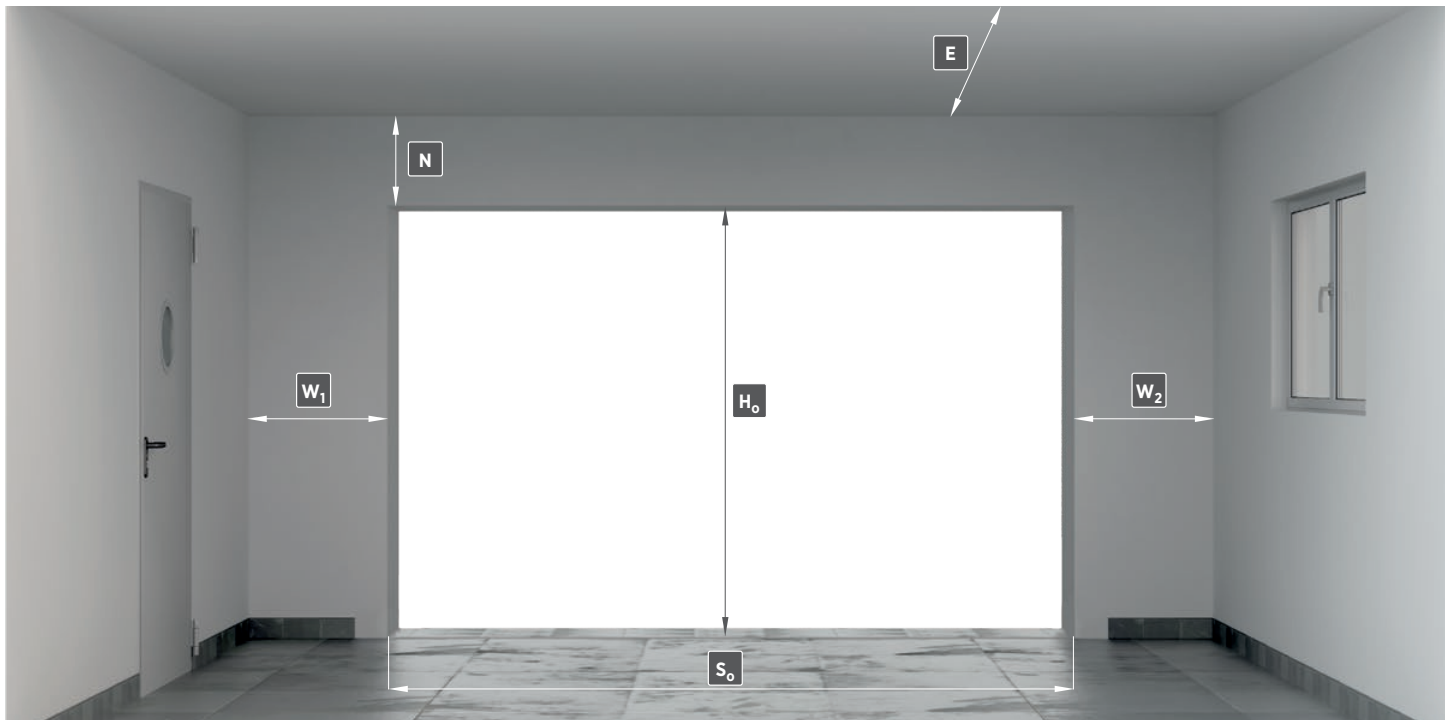


U THERMAL TRANSMITTANCE FACTOR [W/m²K]

		Door width in [m]																
		2,250	2,375	2,400	2,500	2,600	2,750	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,750	5,000	5,500	6,000
Door height in [m]	2,000	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	2,100	1,3	1,3	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	2,125	1,3	1,3	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	2,200	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	2,250	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,1
	2,375	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	2,500	1,3	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	2,625	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	2,750	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	2,875	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	3,000	1,3	1,3	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	3,250	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	3,500	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	

The factors are provided for doors without glazing, wicket doors, ventilation grilles, aluminium panels, and additional thermal gaskets.

INSTALLATION DIMENSIONS



S_o – opening width, ordering dimension

H_o – opening height, ordering dimension

N – minimum required lintel height

W₁ – minimum required side clearance

W₂ – minimum required side clearance

E – minimum garage depth with clearance under the ceiling



TRACKS



Sp tracks

Torsion springs installed in the front by the lintel, garage door with double horizontal tracks.

Minimum garage door dimensions:

- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **W**, **V**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**
- $S_o = 2000$ [mm] when $H_o > 3000$ [mm]

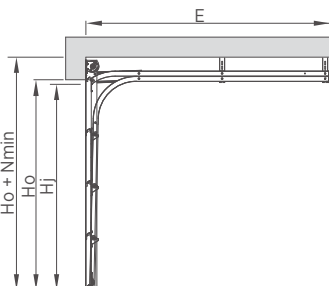
Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to																
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500	6000
2000																	
2100																	
2125																	
2200																	
2250																	
2375																	
2500																	
2625																	
2750																	
2875																	
3000																	
3250																	
3500																	

⁽¹⁾ - Ordering dimension.

Installation dimensions

<input type="checkbox"/> <input checked="" type="checkbox"/> Sp <input type="checkbox"/>		SSpN		SSpN, SSpG, SSpW, SSpK		SSpG, SSpW		SSpV
Colour/Structure	RAL 8014, RAL 9006, RAL 9016, other RAL (Woodgrain)		Golden Oak, Walnut RAL 7016, RAL 8014, RAL 9016, RAL 9006 panel type <input checked="" type="checkbox"/> G , <input checked="" type="checkbox"/> W , <input checked="" type="checkbox"/> K (Woodgrain) film coating (Smoothgrain)		Golden Oak, Walnut (Smoothgrain), Anthracite (Sandgrain) RAL 7016, RAL 9016, RAL 9005, other RAL (Silkline), Home Inclusive 2.0		RAL 9006, RAL 7016, other RAL (Silkline)	
Dimension	standard	special	standard	special	standard	special	special	
N_{min}	=200[mm] for $H_o = 2000$ [mm] $H_o = 2100$ [mm] $H_o = 2250$ [mm] $H_o = 2500$ [mm] =220[mm] for $H_o = 2125$ [mm] $H_o = 2200$ [mm]	=200 [mm]	=200[mm] for $H_o = 2100$ [mm] $H_o = 2250$ [mm] =220[mm] for $H_o = 2125$ [mm] $H_o = 2200$ [mm]	=200 [mm]	=200[mm] for $H_o = 2000$ [mm] $H_o = 2100$ [mm] $H_o = 2125$ [mm] $H_o = 2250$ [mm] $H_o = 2375$ [mm] $H_o = 2500$ [mm] =220[mm] for $H_o = 2200$ [mm]	=200 [mm]	=200 [mm]	
S_j			$S_o - 40$ [mm]					
H_j	Manual		$H_o - 160$ [mm]					
	Manual + catcher		$H_o - 80$ [mm]					
	With a drive unit		$H_o - 50$ [mm]					
E_{min}	W_1, W_2		110 [mm]					
	Manual		$H_o + 400$ [mm]					
	With the MOTO drive		$L_s + 300$ [mm]					
	With the METRO drive		$L_s + 410$ [mm]					
L_s	With the SPARK drive		$L_s + 363$ [mm]					
	With the MOTO drive		2900 [mm] for $H_o \leq 2250$; 3500 [mm] for $H_o > 2250$ and $H_o \leq 2850$; 4500 [mm] for $H_o > 2850$ [mm]					
	With the METRO drive		3288 [mm] for $H_o \leq 2250$; 3831 [mm] for $H_o > 2250$ and $H_o \leq 2750$; 4384 [mm] for $H_o > 2751$ and $H_o \leq 3250$; 4927 [mm] for $H_o > 3251$ [mm]					



So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



St tracks

Torsion springs installed at the end of the horizontal tracks, garage door with double horizontal tracks.

Minimum garage door dimensions:

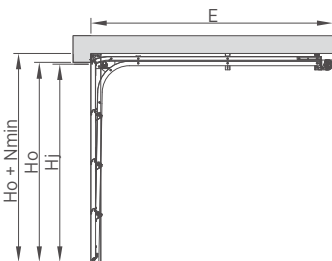
- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **W**, **V**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**

Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to															
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500
2000																
2100																
2125																
2200																
2250																
2375																
2500																
2625																
2750																
2875																
3000																

⁽¹⁾ - Ordering dimension.

Installation dimensions



<input checked="" type="checkbox"/> St		SStN, SStG, SStW, SStK		SStV
Colour/Structure		all available colour and structure combinations		RAL 9006, RAL 7016, other RAL (silklite)
Dimension		standard	special	special
N _{min}	Manual	100 [mm]		
	With the MOTO drive	140 [mm]		
	With the METRO drive	140 [mm]		
	With the SPARK drive	150 [mm]		
S _j		S _o - 40 [mm]		
H _j	Manual	H _o - 160 [mm]		
	Manual + catcher	H _o - 90 [mm]		
	With a drive unit	H _o - 90 [mm]		
	W1, W2	110 [mm]		
E _{min}	Manual	H _o + 750 [mm]		
	With the MOTO drive	L _s + 300 [mm]		
	With the METRO drive	L _s + 410 [mm]		
	With the SPARK drive	L _s + 363 [mm]		
L _s	With the MOTO drive	2900 [mm] for H _o ≤ 2250; 3500 [mm] for H _o > 2250 and H _o ≤ 2850; 4500 [mm] for H _o > 2850 [mm]		
	With the METRO drive	2900 [mm] for H _o ≤ 2250; 3500 [mm] for H _o > 2250 and H _o ≤ 2850; 4500 [mm] for H _o > 2850 [mm]		
	With the SPARK drive	3288 [mm] for H _o ≤ 2250; 3831 [mm] for H _o > 2250 and H _o ≤ 2750; 4384 [mm] for H _o > 2751 [mm]		

S_o - opening width, ordering dimension. **S_j** - clear passage width after garage door installation. **H_o** - opening height, ordering dimension. **H_j** - clear passage width after garage door installation. **N** - minimum required lintel height. **W₁** - minimum required side clearance. **W₂** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **L_s** - drive rail length.



Sj tracks

Torsion springs installed in the front by the lintel, garage door with double horizontal tracks (active and passive reinforcing track).

Minimum garage door dimensions:

- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **W**, **V**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**
- $S_o = 2000$ [mm] when $H_o > 3000$ [mm]

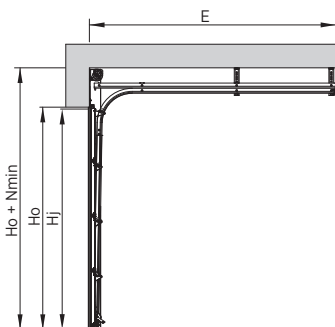
Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to																
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500	6000
2000																	
2100																	
2125																	
2200																	
2250																	
2375																	
2500																	
2625																	
2750																	
2875																	
3000																	
3250																	
3500																	

⁽¹⁾ - Ordering dimension.

Installation dimensions

<input checked="" type="checkbox"/> Sj	SSJN		SSJN, SSJG, SSJW, SSJK		SSJG, SSJW	
Colour/Structure	RAL 8014, RAL 9006, RAL 9016, other RAL (Woodgrain)		Golden Oak, Walnut RAL 7016, RAL 8014, RAL 9016, RAL 9006 panel type <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> K (Woodgrain) film coating (Smoothgrain)		Golden Oak, Walnut (Smoothgrain), Anthracite (Sandgrain), RAL 7016, RAL 9016, RAL 9005, other RAL (Silkline), Home Inclusive 2.0	
Dimension	standard	special	standard	special	standard	special
N_{min}	=400[mm] for $H_o = 2000$ [mm] $H_o = 2100$ [mm] $H_o = 2250$ [mm] $H_o = 2500$ [mm] =420[mm] for $H_o = 2125$ [mm] $H_o = 2200$ [mm]		=400 [mm]		=400 [mm]	
Sj		$S_o - 40$ [mm]				
Hj	Manual	$H_j = H_o - 20$ [mm]				
	Manual + catcher					
	With a drive unit					
W1, W2		110 [mm]				
E _{min}	Manual	$H_o + 400$ [mm]				
	With the MOTO drive	$L_s + 300$ [mm]				
	With the METRO drive	$L_s + 410$ [mm]				
	With the SPARK drive	$L_s + 363$ [mm]				
Ls	With the MOTO drive	2900 [mm] for $H_o \leq 2250$; 3500 [mm] for $H_o > 2250$ and $H_o \leq 2850$; 4500 [mm] for $H_o > 2850$				
	With the METRO drive	3288 [mm] for $H_o \leq 2250$; 3831 [mm] for $H_o > 2250$ and $H_o \leq 2750$; 4384 [mm] for $H_o > 2751$ and $H_o \leq 3250$; 4927 [mm] for $H_o > 3251$ [mm]				
	With the SPARK drive					



So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



N tracks

Pull springs, garage door with double horizontal tracks.

Minimum garage door dimensions:

- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **W**, **V**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**

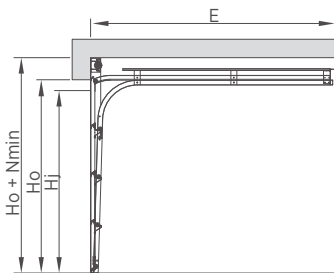
Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to														
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000															
2100															
2125															
2200															
2250															
2375															
2500															
2625															
2750															
2875															
3000															

⁽¹⁾ - Ordering dimension.

Installation dimensions

	<input checked="" type="checkbox"/> N	SNN		SNN, SNG, SNW, SNK		SNG, SNW	
Colour/Structure		RAL 8014, RAL 9006, RAL 9016, other RAL (Woodgrain)		Golden Oak, Walnut RAL 7016, RAL 8014, RAL 9016 panel type <input checked="" type="checkbox"/> G , <input checked="" type="checkbox"/> W , <input checked="" type="checkbox"/> K (Woodgrain)		Golden Oak, Walnut (Smoothgrain), Anthracite (Sandgrain) RAL 7016, RAL 9016, other RAL (Silkline), Home Inclusive 2.0, film coating (Smoothgrain)	
Dimension		standard	special	standard	special	standard	special
N_{min}		=220[mm] for $H_o = 2000$ [mm] $H_o = 2100$ [mm] $H_o = 2250$ [mm] $H_o = 2500$ [mm] =240[mm] for $H_o = 2125$ [mm] $H_o = 2200$ [mm]		=220 [mm]		=220[mm] for $H_o = 2000$ [mm] $H_o = 2100$ [mm] $H_o = 2125$ [mm] $H_o = 2250$ [mm] $H_o = 2375$ [mm] $H_o = 2500$ [mm] =240[mm] for $H_o = 2200$ [mm]	
S_j		$S_o - 40$ [mm]					
H_j	Manual	$H_o - 130$ [mm]					
	Manual + catcher	$H_o - 80$ [mm]					
	With a drive unit	$H_o - 80$ [mm]					
E_{min}	W1, W2	110 [mm]					
	Manual	$H_o + 800$ [mm]					
	With the MOTO drive	$L_s + 300$ [mm]					
	With the METRO drive	$L_s + 410$ [mm]					
L_s	With the SPARK drive	$L_s + 363$ [mm]					
	With the MOTO drive	2900 [mm] for $H_o \leq 2250$; 3500 [mm] for $H_o > 2250$ and $H_o \leq 2850$; 4500 [mm] for $H_o > 2850$ [mm]					
	With the SPARK drive	3288 [mm] for $H_o \leq 2250$; 3831 [mm] for $H_o > 2250$ and $H_o \leq 2750$; 4384 [mm] for $H_o > 2751$ [mm]					



S_o - opening width, ordering dimension. S_j - clear passage width after garage door installation. **H_o - opening height, ordering dimension.** H_j - clear passage width after garage door installation. N - minimum required lintel height. W_1 - minimum required side clearance. W_2 - minimum required side clearance. E - minimum garage depth with clearance under the ceiling. L_s - drive rail length.



StA tracks

Tracks at an angle, torsion springs installed at the end of the diagonal tracks.

Minimum garage door dimensions:

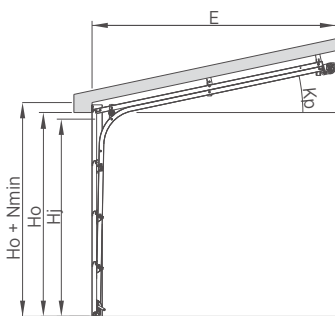
- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **w**, **v**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**

Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to															
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500
2000																
2100																
2125																
2200																
2250																
2375																
2500																
2625																

⁽¹⁾ - Ordering dimension.

Installation dimensions



StA	Nmin			Hj			Sj	W1, W2
	Kp	manual	with the MOTO, METRO drive	with the SPARK drive	manual	manual + catcher		
degrees [°]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2	140	170	190	Ho - 100	Ho - 80	Ho - 70	So - 40	110
3	135	165	185	Ho - 110	Ho - 90	Ho - 70		
4	130	160	180	Ho - 120	Ho - 90	Ho - 70		
5	120	150	170	Ho - 130	Ho - 90	Ho - 70		
6	110	140	160	Ho - 140	Ho - 90	Ho - 70		
7	110	140	155	Ho - 140	Ho - 90	Ho - 70		
8	100	130	145	Ho - 140	-	Ho - 70		
9	100	120	135	Ho - 140	-	Ho - 70		
10	100	110	125	Ho - 140	-	Ho - 70		
11	100	100	115	Ho - 140	-	Ho - 60		
12	100	100	110	Ho - 140	-	Ho - 60		
13	100	100	110	Ho - 140	-	Ho - 60		
14 to 20	100	100	100	Ho - 140	-	Ho - 60		

Minimum garage depth

E_{min}
Automatic: $E_{min} = \cos(K_p) \times E_{min}'$
Manual: $E_{min} = \cos(K_p) \times (H_o + 800)$
H_o - opening height
E_{min}' - value from the table, depending on the automatic operating unit and H_o
K_p - inclination angle of the ceiling in relation to the floor

Drive unit	E_{min}'	Height H_o
MOTO	3,200	0 - 2,250
	3,800	2,251 - 2,625
METRO	3,310	0 - 2,250
	3,910	2,251 - 2,625
SPARK	3,650	0 - 2,250
	4,190	2,251 - 2,625

So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



SpA tracks

Tracks at an angle, torsion springs installed in the front by the lintel.

Minimum garage door dimensions:

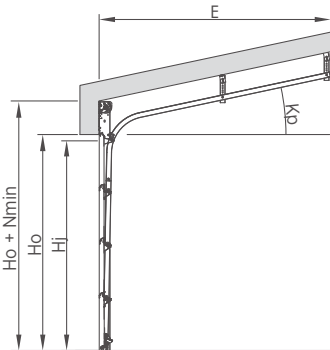
- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **w**, **v**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**

Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to														
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000															
2100															
2125															
2200															
2250															
2375															
2500															
2625															

⁽¹⁾ - Ordering dimension.

Installation dimensions



..... SpA	N_{min}			H_j		S_j	W_1, W_2
	K_p	manual	with the MOTO, METRO drive	with the SPARK drive	manual		
	degrees [°]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
	2 to 3	360	390	390	$H_o - 50$	$H_o - 20$	$S_o - 40$
	4	350	380	380	$H_o - 50$	$H_o - 20$	
	5 to 6	350	370	370	$H_o - 50$	$H_o - 20$	
	7	350	360	360	$H_o - 50$	$H_o - 20$	
	8 to 20	350	350	350	$H_o - 50$	$H_o - 20$	

Minimum garage depth

E_{min}
Automatic: $E_{min} = \cos(K_p) \times E_{min}'$
Manual: $E_{min} = \cos(K_p) \times (H_o + 450)$
H_o - opening height
E_{min}' - value from the table, depending on the automatic operating unit and H_o
K_p - inclination angle of the ceiling in relation to the floor

Drive unit	E_{min}'	Height H_o
MOTO	3,200	0 - 2,250
	3,800	2,251 - 2,625
METRO	3,310	0 - 2,250
	3,910	2,251 - 2,625
SPARK	3,650	0 - 2,250
	4,190	2,251 - 2,625

So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



HL tracks

High tracks, torsion springs installed by the lintel.

Minimum garage door dimensions:

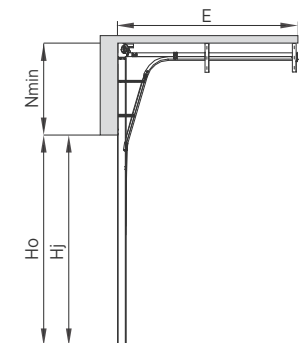
- $S_o = 1500$ [mm] and $H_o = 1955$ [mm] - garage doors type **G**, **W**, **V**, **N**
- $S_o = 2230$ [mm] and $H_o = 2040$ [mm] - garage doors type **K**

Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to															
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500
2000																
2100																
2125																
2200																
2250																
2375																
2500																
2625																
2750																
2875																
3000																

⁽¹⁾ - Ordering dimension.

Installation dimensions



<input type="checkbox"/> HL		SHLN, SHLG, SHLW, SHLK	
Colour/Structure		all available colour and structure combinations	
Dimension		standard	special
Nmin	Manual	400 < N ≤ 1300	
	With a drive unit		
Sj		$S_o - 40$ [mm]	
Hj	Manual	$H_o - 20$ [mm]	
	With a drive unit		
W1, W2		110 [mm]	
Emin	Manual	$H_o - 0,8 \times N + 645$ [mm]	
	With the MOTO drive	3200 [mm] for $H_o \leq 2080$; 3800 [mm] for $2080 < H_o \leq 2680$; 4800 [mm] for $H_o > 2680$	
	With the METRO drive	3310 [mm] for $H_o \leq 2080$; 3910 [mm] for $2080 < H_o \leq 2680$; 4910 [mm] for $H_o > 2680$	

So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



UniPro Nano80 garage door

Nano80 – low tracks, torsion springs installed at the end of horizontal tracks.

The design of the UniPro Nano80 garage door was adapted to the installation conditions in which a small lintel makes it impossible to fit an automatic garage door. Thanks to the special profile of the tracks, the UniPro Nano80 automatic door can even be installed to lintels just 80 mm high.

Minimum garage door dimensions:

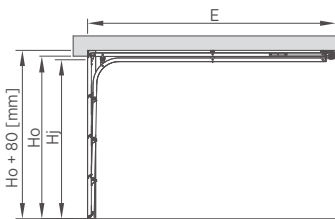
- $S_o = 1500$ [mm] and $H_o = 1955$ [mm] – garage doors type **G**, **W**, **V**, **N**
- $S_o = 2230$ [mm] and $H_o = 2040$ [mm] – garage doors type **K**

Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to															
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500
2000																
2100																
2125																
2200																
2250																
2375																
2500																
2625																
2750																
2875																
3000																

⁽¹⁾ – Ordering dimension.

Installation dimensions



Nano80		SStN, SStG, SStW, SStK	
Colour/Structure		all available colour and structure combinations	
Dimension		standard	special
Nmin	With a drive unit	80 [mm]	
	Sj	$S_o - 40$ [mm]	
Hj	With the MOTO drive	$H_o - 80$ [mm]	
	With the METRO drive	$H_o - 80$ [mm]	
W1, W2		110 [mm]	
Emin	With the MOTO drive	$L_s + 600$ [mm]	
	With the METRO drive	$L_s + 600$ [mm]	
Ls		2900 [mm] for $H_o \leq 2250$; 3500 [mm] for $H_o > 2250$ and $H_o \leq 2850$; 4500 [mm] for $H_o > 2850$	

So – opening width, ordering dimension. **Sj** – clear passage width after garage door installation. **Ho** – opening height, ordering dimension. **Hj** – clear passage width after garage door installation. **N** – minimum required lintel height. **W1** – minimum required side clearance. **W2** – minimum required side clearance. **E** – minimum garage depth with clearance under the ceiling. **Ls** – drive rail length.



SNP tracks

Pull springs mounted along the vertical tracks.

Minimum garage door dimensions:

- $S_o = 1500$ [mm] and $H_o = 1800$ [mm] - garage doors type **N**
- $S_o = 1500$ [mm] and $H_o = 1900$ [mm] - garage doors type **G**, **W**, **V**
- $S_o = 2230$ [mm] and $H_o = 1990$ [mm] - garage doors type **K**
- $S_o \leq 1750$ [mm] and $H_{o\ max} = 2500$ [mm], 1750 [mm] < S_o < 2000 [mm] $H_{o\ max} = 2750$ [mm].

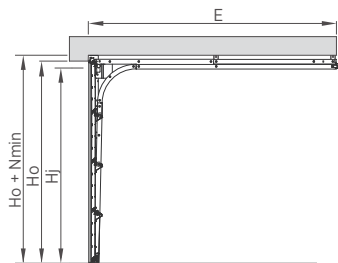
Available range of dimensions for tracks

Opening height ⁽¹⁾ (H_o) in [mm] up to	Opening width ⁽¹⁾ (S_o) in [mm] up to														
	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
2000															
2100															
2125															
2200															
2250															
2375															
2500															
2625															
2750															
2875															
3000															

⁽¹⁾ - Ordering dimension.

- not applicable for doors with Sandgrain and RAL 9005 Silkline..

Installation dimensions



<input checked="" type="checkbox"/> SN		SNPN, SNPG, SNPW, SNPK		SNPV
Colour/Structure		all available colour and structure combinations		RAL 9006, RAL 7016, other RAL (silklime)
Dimension		standard	special	special
Nmin	Manual	90 [mm]		
	With the MOTO drive	100 [mm]		
	With the METRO drive			
	With the SPARK drive	120 [mm]		
Sj		$S_o - 40$ [mm]		
Hj	Manual + catcher (standard)	$H_o - 60$ [mm]		
	With a drive unit	$H_o - 60$ [mm]		
W1, W2		100 [mm]		
Emin	Manual	$H_o + 600$ [mm]		
	With the MOTO drive	$L_s + 300$ [mm]		
	With the METRO drive	$L_s + 410$ [mm]		
	With the SPARK drive	$L_s + 363$ [mm]		
Ls	With the MOTO drive	2900 [mm] for $H_o \leq 2250$; 3500 [mm] for $H_o > 2250$ i $H_o \leq 2850$; 4500 [mm] for $H_o > 2850$		
	With the METRO drive			
	With the SPARK drive			

So - opening width, ordering dimension. **Sj** - clear passage width after garage door installation. **Ho** - opening height, ordering dimension. **Hj** - clear passage width after garage door installation. **N** - minimum required lintel height. **W1** - minimum required side clearance. **W2** - minimum required side clearance. **E** - minimum garage depth with clearance under the ceiling. **Ls** - drive rail length.



UniPro SNP 2.0 and UniPro SSt 2.0

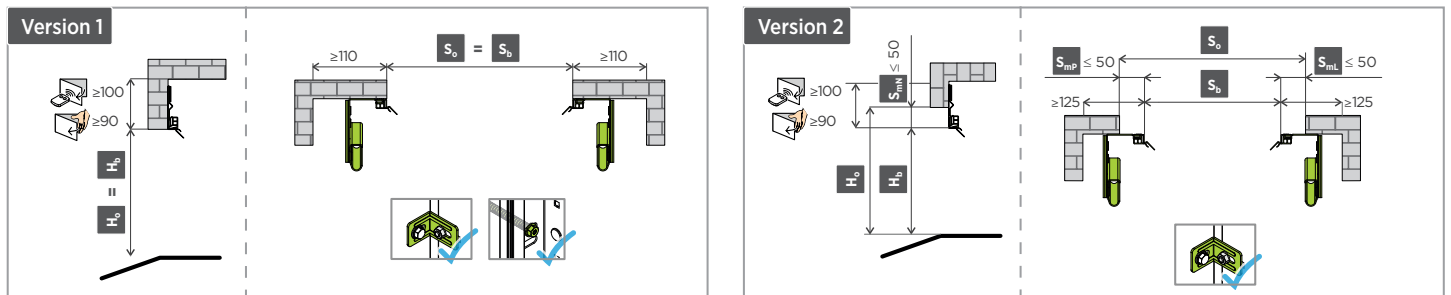
The UniPro SNP 2.0 and UniPro SSt 2.0 sectional garage door structure is based on the structure of the UniPro SNP/SSt door, but it additionally features a purpose-designed system of tracks and opening frames, which enables adjustment of the door position during fitting. This is possible because the tracks are fastened to the opening frames with screws, as well as thanks to the use of special opening frame fascia panels in the garage door colour and because special angle bars can be used to move their fixing point outside their outline. Depending on the customer's preferences, the colour of the fascia panels can be changed. Opening frames in the SNP 2.0 and SSt 2.0 garage door are provided with a marking (an arrow) at the height of 950 mm from the opening frame base, which makes it possible to accurately determine the proper height of the opening frame. Additionally, the opening frames feature a double fixing hole system, which facilitates installation when fitting issues occur.

UniPro SNP 2.0



FITTING VERSIONS

The cross-sections below show two versions of the SNP 2.0 / SSt 2.0 door installation: when the opening matches the ordering dimension (Version 1) and when the opening is wider by up to 100 [mm] and higher by up to 50 [mm] than the ordering dimension (Version 2).



S_o - opening width.

S_b - door width, ordering dimension.

H_o - opening height.

H_b - door height, ordering dimension.

Example: if a customer orders a 3,000x2,500 [mm] door, it can be installed in an installation opening with a width of 3,000-3,100 [mm] and a height of 2,500-2,550 [mm]. When a garage door with dimensions smaller than the garage door opening is installed, the fascia panel is placed inside the clear opening, and side clearance W_1 and W_2 necessary in order to fit the door is decreased with special angle bars to min. 75 mm, whereas the lintel N_{min} - to 50 mm (automatic garage door) and 40 mm (manually operated garage door). Special angle bars are only used for fixing opening frames. The lintel is not fixed with angle bars.

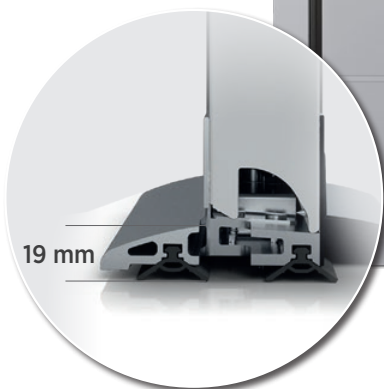
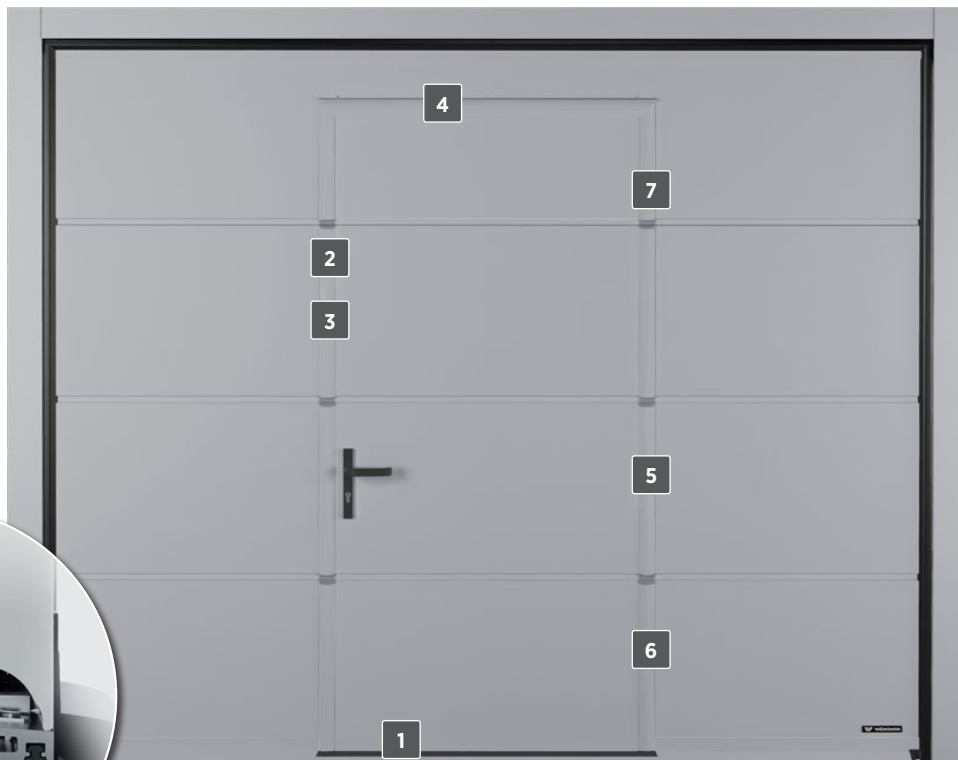


OPTIONAL ACCESSORIES

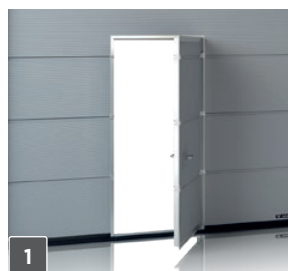
WICKET DOOR

The standard clear passage width is 900 [mm], the clear passage height can range from 1700 [mm] to 2027 [mm] depending on the height of the door and panels used.

- The minimum dimensions of a garage door in which a wicket door can be fitted are 2000 x 2000 [mm] (So x Ho).
- The wicket door is available for garage doors with a glazed or ventilated panel with $S_o \geq 2400$ [mm].
- Drip strip in door hardware colour.
- Threshold -100 [mm] high (including the door gasket -40 [mm] high).
- The bottom door edge is fitted with a brush seal.
- Wicket door for doors with the SSt and SSt 2.0 tracks can be manufactured with a minimum lintel of 140 [mm]. In doors with the SNP and SNP 2.0 tracks, with a minimum lintel of 115 [mm] for doors with the MOTO io and METRO Smart io drive units, 135 [mm] for doors with the SPARK drive unit. Not applicable to RenoSystem SSt.
- As standard, the wicket door is installed in the centre of the door leaf. In doors with the following tracks: SSp, Sj, SSt, SSt 2.0, and RenoSystem SSt, the door can be installed close to the right or left edge (as seen from the inside), opening direction: right or left, outswing, outfitted with a handle with a cover plate on both sides and a lock with a cylinder lock (three keys).
- One-key system – the lock in the wicket door and the lock in the garage door are both opened with a single key (this does not apply to doors fitted with an anti-burglary lock cylinder).
- The door hardware, as well as the top and bottom hardware of the garage door is made of aluminium.
- The wicket door option in automatic doors includes a wireless wicket door opening sensor for doors with the MOTO io and METRO Smart io drive units, and a wired wicket door opening sensor for doors with the STARK drive unit.



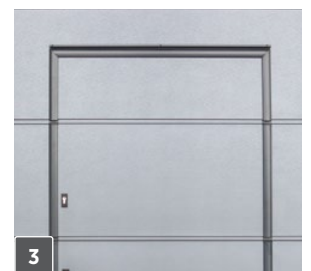
Low threshold 19 mm high minimizes the number of obstacles in the passageway (optional accessory).



1 Wicket door fitted with a threshold 100 [mm] high (including a 40 [mm] gasket) as standard.



2 The wicket door opening sensor prevents activation of the garage door when the wicket door is open. The wicket door option in automatic doors includes a wicket door opening sensor.



3 Hardware made of aluminium, in a colour matching the garage door leaf colour.



4 Drip cap (standard accessory).



6 Concealed hinges that can be adjusted.



Rail door closer (standard accessory).

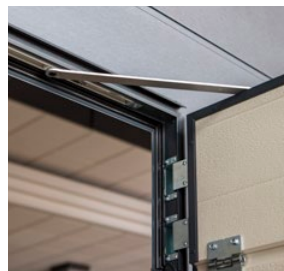
The rail door closer is supplied as standard with a wicket door installed in manually operated and power operated doors. It is fixed to the top hardware of the wicket door on the inside of the door. It is fitted with a restrictor. The hold open device cannot be installed in a wicket door.



5 System preventing the leaf from dropping.



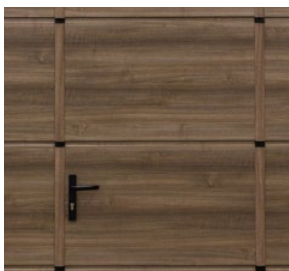
7 Distance brackets with a safe shape, ensuring better tightness.



Concealed door closer (optional accessory).

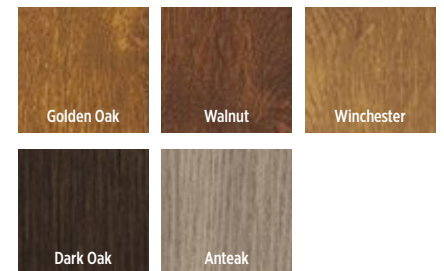
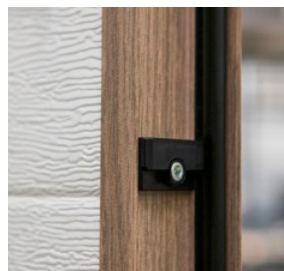
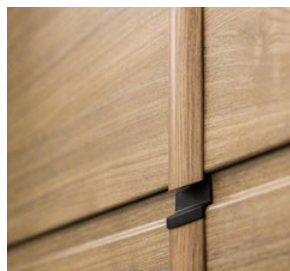
Concealed door closer available in a full scope of dimensional ranges of the doors compatible with a wicket door. The wicket door can optionally be fitted with a concealed door closer instead of a rail door closer. A wicket door restrictor cannot be installed. A hold open device can be fitted.

HARDWARE IN A DECOR COLOUR



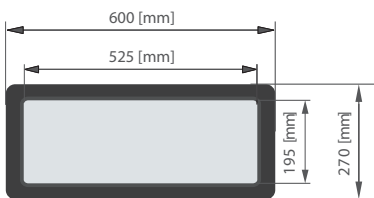
Decor colour of the wicket door hardware

a method of decorating aluminium parts by transferring photosensitive organic pigments from a special film onto a layer of polyester powder coat. As a result, a durable and decorative coating which imitates the natural grain of wood is obtained.



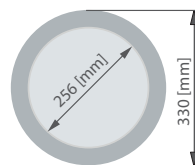
Decor colour of the wicket door hardware - available colours

PORTHOLES/GLAZING

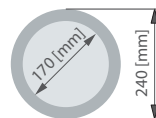


Type A-1

Type A-1 - made of double, clear acrylic glass, with a rough frame surface. The external frame is available in RAL 7016, RAL 8003, RAL 8011, RAL 8014, RAL 8017, RAL 9005, and RAL 9016. The internal frame is always white. Internal/external frame made of PVC. External dimensions of the frame: 600 x 270 [mm]. Light transmission 86%.

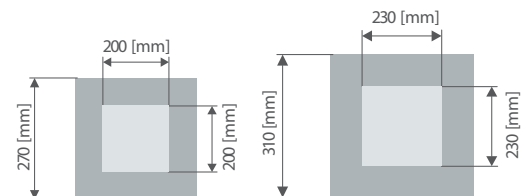


Type O-1A



Type O-2A

Type O-1A, O-2A - infill: triple clear acrylic glass unit; frame: external and internal, made of stainless steel with a satin finish.



Type R-1A

Type R-2A

Type R-1A, R-2A - infill: triple clear acrylic glass unit; frame: made of stainless steel with a satin finish.



HORIZON GLAZING



Aluminium panel without or with a thermal break, for doors $S_o \leq 3,000$ without glazing bars, for doors $S_o > 3,000$ with a single glazing bar. The Horizon panel height is 215-250 [mm] depending on the total height of the door. As standard, the HORIZON panel is positioned between the last and last but one panel from the bottom. The panel is painted on both sides in the colour of the external part of the door. An aluminium panel without a thermal break can be fitted with LED strip lighting.

VISUAL GLAZING



Aluminium panel without a thermal break with a clear acrylic glass without glazing bars. The door is available with one or two VISUAL panel glazings. Available with garage door widths up to $S_o - 3,000$ [mm]. Not available with a wicket door.

GLAZING WITH ALUMINIUM PANEL



The UniPro garage door is available with an aluminium panel glazing without or with a thermal break (for doors with $S_o < 5,250$). The panel is fitted with a double acrylic glass - a 21 [mm] glass unit. The garage door can be fitted with one or two aluminium panels.

GLASS

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 to the standard glazing.

Satin

Glass with a milky white tint. Double glazed pane opaque from the outside and clear from the inside. Light transmission 78%.

Glass pane SAN R

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

Grey

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

VENTILATED PANEL

Aluminium panel without a thermal break or with a thermal break (for doors with $S_o < 5,250$), infilled with expanded mesh. The door can be fitted with only one ventilated panel.



Ventilated panel - expanded mesh

TOP PANEL TILT



The kit makes it possible to tilt the top panel without the need to lift the door curtain. The bottom panel remains seated against the floor.

Top panel tilt for ventilation or airing of the garage is available with the following automatic garage doors fitted with the METRO Smart io, MOTO io or SPARK drive unit: **UniPro SSp, UniPro SSt, UniPro SSt 2.0, UniPro SN.**

This solution is not available with garage doors fitted with the top aluminium panel with $S_o \geq 4,500$.

The kit includes: 2 brackets for garage doors with $S < 4,500$ | 4 brackets for garage doors with $S \geq 4,500$.



LOCK/HANDLE

The lock is fitted with a single-side lock cylinder, the lock cylinder is accessible from the outside (three keys), from the inside the lock is operated with a latch. In the manually operated SNP door with $So \geq 4,000$ [mm], the lock engages the deadbolt on both sides (single-side locking is available as an optional accessory). On the outside of the door leaf, a plastic handle with a cover plate type PVC-1 or KL-2 is fitted. A black plastic handle is installed on the inside. The UniPro SNP and SNP 2.0 doors are not available with the lock and handle fitted in the middle of the door. The PVC-1 handle is available in black. The KL-2 handle is available in the following colours:

- **MAT** – RAL 9005, RAL 9016, RAL 8014.
- **GLOSS** – RAL 9006, RAL 1036, RAL 1035, RAL 7048.



KL-2 handle, colour: RAL 9006



KL-2 handle, colour: RAL 1036



KL-2 handle, colour: RAL 1035



KL-2 handle, colour: RAL 7048



KL-2 handle, colour: RAL 9016



KL-2 handle, colour: RAL 9005



KL-2 handle, colour: RAL 8014



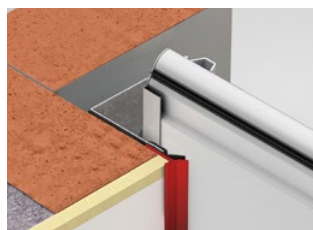
Standard handle

ADDITIONAL SEALS

The UniPro doors are fitted with circumferential double-lip seals as standard. The UniPro door can be fitted with additional **thermal seals**, which enable the structural steel elements to be isolated from the wall surface, or **finishing thermal seals**, which make it possible to provide an aesthetic finish of the garage door opening by eliminating the gap between the thermal insulation and the door leaf surface, which further improves door insulation. The sealing is not available with the SNP 2.0, SSt 2.0 and RenoSystem door series.



Thermal seal



Finishing thermal seal



EXAMPLE UniPro DESIGNS

GLAZING



Garage door with portholes - type A-1



Garage door with portholes - type C-1



Garage door with portholes - type E-1



Garage door with portholes - type O



Garage door with portholes - type O-1A,
stainless steel frame



Garage door with portholes - type O-2A,
stainless steel frame



Garage door with portholes - type R-1A,
stainless steel frame



Garage door with portholes - type R-2A,
stainless steel frame



Garage door with portholes - type W3-1



Garage door with portholes - type W4-1



Garage door with portholes - type W5-1



Garage door with portholes - type W6-1



DECORATIVE MOTIFS



Type Ap-1



Type Ap-2



Type Ap-3



Type Ap-4



Type Ap-5



Type Ap-6



Type Ap-7 in garage doors with panels without ribs



Type Ap-7 in garage doors with panels with high ribs



The Ap-1 – Ap-6 decorative motifs are available in stainless steel colour and RAL 9005. Ap7 decorative motifs are available in stainless steel and copper-clad stainless steel colours.

OTHER MANUFACTURING OPTIONS



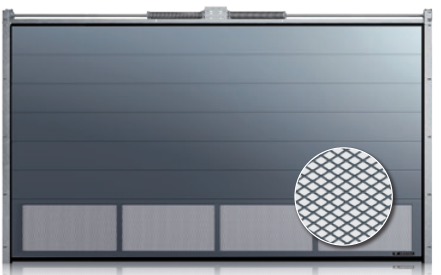
Garage door with an aluminium panel glazing



Garage door with the VISUAL glazing - available for garage door widths up to So = 3000 [mm]



Garage door with a wicket door



Garage door with a ventilated panel - expanded mesh



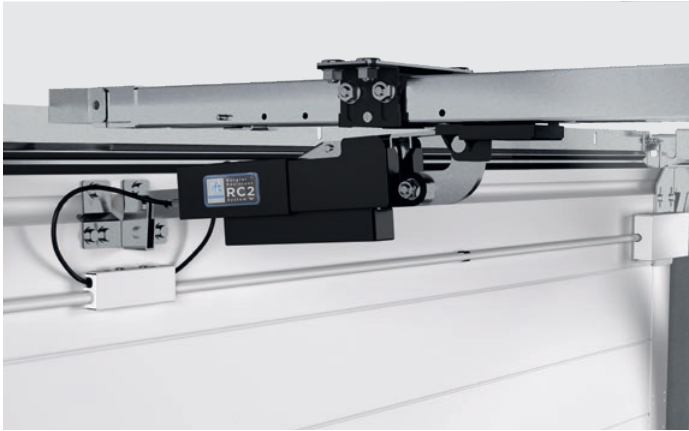
Garage door with the HORIZON glazing



Garage door with a cat door



RC2 ANTI-BURGLARY KIT



The anti-burglary kit, available with automatic garage doors with the METRO Smart io and MOTO io drive units, provides RC2 class burglary protection (confirmed with a certificate issued by the IFT notified body in Rosenheim, Germany).

The kit includes:

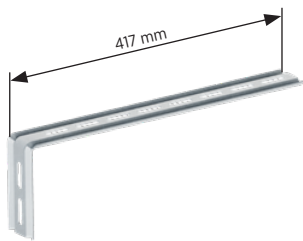
- automatic locking mechanism,
- reinforced deadbolt system,
- deadbolt plates,
- safeguard preventing the carriage from being unlocked,
- track bumper.

LED LIGHTING UNDER THE TRACKS AND TRACK CONNECTOR

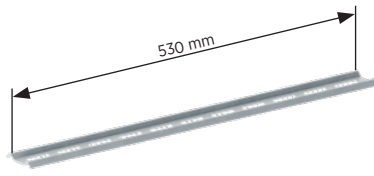


It is often the case that the lighting installed in the garage does not provide enough light. Sometimes, older garages do not have any lighting at all. LED lighting mounted under the tracks and track connector makes it possible to illuminate the room, guaranteeing low energy consumption. Easy installation, long-life LEDs, and compatibility with the METRO Smart io drive unit ensure comfort in daily use.

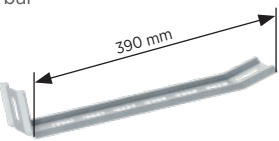
AUXILIARY SUSPENSION BARS



Type "L" suspension bar



Type "I" suspension bar connector



Type "C" suspension bar bracket

Tracks	Maximum lintel for the suspension bar supplied with the garage door
SSp, SSt	400 [mm]
N80	340 [mm]
SNP, SNP 2.0	360 [mm]
SSt 2.0	390 [mm]
SN	428 [mm]
SSj	570 [mm]
HL	1485 [mm]
RenoSystem	255 [mm], 355 [mm] for SSt, installation behind the opening



AUTOMATIC OPERATING UNIT KITS

The METRO Smart io, MOTO io, and SPARK series drive units are dedicated for garage doors and ensure full functionality and overload protection as standard.

The EXTENDED CARE warranty lets you extend the standard warranty for the complete product - automatic sectional garage door:

- up to 5 years when factory configured with the METRO Smart io or SPARK drive unit,
- up to 3 years when factory configured with the MOTO io drive unit.



Drive unit type		METRO smart io	MOTO io	SPARK
Technical data	Power supply / Motor	220-230V, 50/60Hz / 24V DC	220-230V, 50/60Hz / 24V DC	220-240V, 50/60Hz / 24V DC
	Force	800N / 1000N	600N / 750N	500N / 600N / 800N / 1100N
	Power consumption (power-saving mode)	< 0,5 W	< 0,5 W	< 1 W
	Efficiency	30%	30%	40%
	Track	single, steel	single, steel	split, steel
	Transmission	chain or belt*	chain or belt*	carriage
	Speed	max. 14 cm/s	max. 14 cm/s	max.: 18 / 24 / 21 / 18 cm/s
	Central control unit	integrated	integrated	integrated
	Radio receiver	io-homecontrol; integrated: 868-870 MHz	io-homecontrol; integrated: 868-870 MHz	WIŚNIOWSKI; integrated: 868 MHz
	Radio receiver storage:	30 transmitters	30 transmitters	40 transmitters
	Two-way radio transmission	yes	yes	yes
	Auto selection of operating parameters	yes	yes	yes
	Limit switches	encoder + mechanical bumper	encoder + mechanical bumper	encoder + mechanical limit switch
	Emergency uncoupling	yes	yes	yes
	Application	sectional / up and over	sectional / up and over	sectional / up and over
	Operating conditions	-20°C / +60°C ; IP20	-20°C / +60°C - in a dry room	-25°C / +65°C - in a dry room
	Wicket door opening sensor	yes	yes	yes
Rotating automatic operating unit head	yes	yes	no	
Warranty	5 years	3 years	5 years	
Functionality	Obstacle detection	yes	yes	yes
	Obstacle detection adjustment	4 adjustment levels	4 adjustment levels	4 adjustment levels
	Action following obstacle detection	stop and full opening	stop and full opening	stop and partial opening
	Photocells	yes	yes	yes
	Automatic closing	60 sec. / 120 sec. or after photoc.	yes, only with TaHoma Pro	yes / max. 240 sec.
	Release in end position	yes	yes	yes
	Low energy consumption mode	yes	yes	yes
	Independent exterior lighting	yes / 230V, 500 W	no	no
	Exterior lighting control	yes	no	no
	Auxiliary warning light	yes / 24V, 15 W	yes / 24V, 15W	yes / 24V, 25W
	Delayed drive unit light switch off	yes / fixed - 60 s	yes / fixed - 30 s	yes / fixed - 30 s
	Independent lighting control in the drive unit	yes	yes	yes
	Emergency power supply	yes	yes	yes
	Display / LEDs	no / yes	no / yes	no / yes
	Partial opening of the door - slightly open	yes	yes	yes
	Information about a fault	yes, LEDs	yes, LEDs	yes, LED
	Smart home	yes, io-homecontrol technology ⁽¹⁾	yes, io-homecontrol technology ⁽¹⁾	yes ⁽²⁾

⁽¹⁾ - for full functionality, the TaHoma switch is required.

⁽²⁾ - optional, for wired Smart Home systems; CONEX and OUTPUT boards required

* Extra charge.



OPTIONAL ACCESSORIES

WALL-MOUNTED TRANSMITTER



The 3-channel transmitter makes it possible to control drive units and wireless receivers. Examples of use:

- - full opening/closing the door,
- - LED lighting under the tracks, and/or under the track fastener,
- - top panel tilt.

Wireless communication makes it possible to install it in any place and doesn't require any cables.

KEYPAD 2 CODE KEYPAD



The 2-channel code keypad makes it possible to control drive units and wireless receivers.

EXTERNAL RADIO RECEIVER io



Makes it possible to control the drive units of other manufacturers using the Pulsar transmitter. It is a two-channel device which makes it possible to program as many as 32 transmitters.

BACKUP POWER SUPPLY BATTERY



When connected to the METRO Smart io and MOTO io drive, it provides power for several cycles of emergency operation.

MECHANICAL CARRIAGE LOCK



It is an additional safeguard which increases garage door safety when mounted to the carriage.

SIGNAL LIGHT



Supports the METRO Smart io and MOTO io drive units. Warning function. Orange blinking light indicates that the door is operating.

EXTERNAL CODE KEYPAD



The single-channel device can be used to control the garage door with a code. For outdoor installation, requires cabling.

PHOTOCELLS



They prevent uncontrolled door leaf movement when an obstacle is present within the clear passage.



OPTIONAL ACCESSORIES FOR THE SPARK AUTOMATIC OPERATING UNITS

2CH WALL-MOUNTED TRANSMITTER



2-channel device which lets you control both your drive units and radio receivers. Communication between the transmitter and the receiver occurs wirelessly, so the device can be mounted in any place. The wall-mounted transmitter has a feedback function that informs the user about the position of the door using a LED.

WIŚNIEWSKI 868 RADIO RECEIVER



It makes it possible to control other drive units with the DART and DART Vibe transmitters, and the wall-mounted transmitter. The radio receiver is a two-channel device operating at the frequency of 868 MHz, making it possible to program up to 40 transmitters.

LOCK - MOTOR LOCK



A magnetic lock which blocks the drive unit in any position of the door. An additional element able to withstand loads up to 300 kg, increasing door safety.

ACCU - EMERGENCY POWER SUPPLY BATTERY



Connected to the SPARK drive unit, it provides power for several cycles of emergency operation in case of the main power supply outage.

PHOTOCELLS 180



Prevent uncontrolled door leaf movement when an obstacle is present within the clear passage.

SIGNAL LIGHT



Connected to the SPARK drive unit, it has a warning function. Orange blinking light indicates that the door is operating.

CONEX - INPUT BOARD



Additional board with signal, impulse inputs, whose inputs were defined for opening and closing. Compatible with wired Smart Home systems.

OUTPUT - SIGNAL BOARD



Additional board with a signal input. Information about the position of the door: door not open (NO)/door not closed (NC). Compatible with wired Smart Home systems.

DART/ DART VIBE REMOTE CONTROL TRANSMITTER



The transmitter makes it possible to control the operation of several drive units. The DART Vibe transmitter has a feedback function in the form of vibration, which is a confirmation that the signal from the transmitter was received.



UniPro SECTIONAL DOOR



UniPro | RAL 9004 | silklite



UniPro | RAL 3000 | silklite



TECHNICAL DATA

	UniPro
Leaf	A panel made of galvanized steel sheet with two-side polyester coating, galvanized and painted on both sides, infilled with high density PU foam $g=42 \text{ kg/m}^3$ without HCFC
Minimum number of cycles	25,000 for doors with torsion springs / 20,000 for doors with pull springs
Thermal transmittance factor U of the panel [W/m ² ·K]	0.48
Watertightness class	2 in accordance with PN-EN 13241-1 section 4.4.2
Wind load resistance class	3 in accordance with PN-EN 13241-1 section 4.4.3
Air permeability class	4 in accordance with PN-EN 13241-1 section 4.4.6
Sound reduction index Rw [dB] without a wicket door / with a wicket door	23 / 24 in accordance with PN-EN ISO 717-1: 1999
Safeguards	The special shape of the panel protecting fingers from getting crushed, safeguards against breaking of load-bearing cables, safeguard against breaking of torsion springs (on each spring), wicket sensor used in doors with an electric drive and a wicket. Option: photocells.
Optional accessories	Various types of tracks, electric drive, ventilated panel, glazing with an aluminium panel, VISUAL glazing without glazing bars, portholes, glass panes: No-Scratch, GREY, SATIN, SAN R, ventilation grilles, wicket doors (low threshold in wicket doors), auxiliary lock, photocells, transmitter.
Maximum width / height of the door [mm]	6000 / 3500
Available panel rib designs	low ribs, high ribs, V ribs, without ribs, caisson ribs
Available panel structures	woodgrain, smoothgrain, sandgrain, silkline
Available colours:	other RAL, special colours, including wood imitating colours, (film coated panels)
Track type	N, Sp, St, Sj, SpA, StA, HL, SNP

CONTROL THE GARAGE DOOR WITH YOUR SMARTPHONE!

The smartCONNECTED technology brings WIŚNIOWSKI automatic sectional garage doors to the next level of product development, tailoring them to the requirements of increasingly demanding customers. On the one hand, it makes it possible to control the devices with a smartphone, and on the other, it gives the users full control and lets them stay in touch with their home from any place in the world.

io-homecontrol® makes it possible to wirelessly connect the METRO Smart io and METRO io drive units to the smart home system controlled by the selected TaHoma Switch central control unit. Building a comprehensive smart home provides a number of benefits and additional features that enhance your comfort every single day.



Let us inspire you!
See other solutions from WIŚNIOWSKI!



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WIŚNIOWSKI

WIŚNIOWSKI 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.pl/en