

BROUGHT TO YOU BY





JDUK Garage Door Systems

**UniPro** Sectional Door Brochure





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### Why WIŚNIOWSKI?

For the last three decades, we have been working in accordance with the idea of the founder of the WIŚNIOWSKI brand, Andrzej Wiśniowski, who made it his goal to create innovative products addressing all of our customers' needs, providing many reasons to buy WIŚNIOWSKI products:

- Side Sprung available up to 5000mm wide
- Matching profiles provided as standard
- 4 Panel arrangement up to 2375mm high
- 100mm headroom including the tolerance required for the automation
- Unique fascia specifically designed for the UK
- 34 standard RAL colours available
- 41 foiled finishes available
- Exclusive Home Inclusive colour range
- **Special** colours available on request, from Farrow & Ball to Little Greene Paint.



### Perfection in every detail

### UniPro

### Always universal

Thanks to advanced technologies, proven materials and our own innovative technical thinking, we give our customers the certainty of a good choice. We have an integrated Management System, certified on the basis of the quality standard ISO 9001: 2008 and Occupational Health and Safety OHSAS 18001:2007. This is striving for continuous improvement of processes and products. The UniPro combines precision manufacturing and attention to detail with a vast range of designs, structures, colours, and decorative motifs. This lets you match the UniPro garage door with both modern and traditional buildings. Thanks to the multitude of design solutions, the UniPro garage door is the perfect choice for a new build or renovation,



STANDARD CLASS

- Side extension springs available up to **5000mm** wide
- Coloured profiles supplied as standard
- 4 panel arrangement up to 2375mm high
- Headroom requirement including automation 100mm
- 34 Standard RAL colours to choose from
- Panel heat transfer coefficient Up=0.48 W/m²K (1)

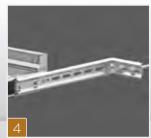


### UniPro





Adjustable ceiling



Adjustable rear side wall fix



INSTALLATION

Side sprung up to

5000mm wide

Matching profiles

supplied as **standard** 

Pre-installed cable

### Profile systems - Supplied as standard

Renovation is all about adapting the functionality of the current building to the needs of its users. The aim of the refurbishment is usually to improve the aesthetic quality of the building. Our profile systems let you install sectional garage doors in the garage opening regardless of the building conditions, even if the building has no lintel or side clearance. Enhance the functionality and the look of your garage with our profile solutions. Profiles to match all colours and foiled finishes are supplied as standard.

### Functionality and

### reliability that lasts

We insist on implementing solutions that extend the life of our garage doors at the initial design stage. Our TÜV SUD certificate guarantees that all the processes are strictly supervised along each stage, from the purchase of raw materials, through design and manufacture, up to the final product and customer support. It is a promise of the highest quality, safety, and comfort at each stage of use. A 10 year warranty covering the safe and reliable operation of the product is provided once registered to the extended care warranty programme. Would you like to find out more about controlling your home features using a smartphone? The smart CONNECTED technology brings WIŚNIOWSKI automatic sectional garage doors to the next level of product development, tailoring them to the requirements of modern customers. On the one hand, it lets you control the devices with your smartphone, and on the other, it gives you full control and lets you stay in touch with your home from any place in the world.





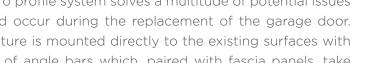
### Anti-burglary safety kit RC2



### UNIPRO PROFILE SYSTEM

The UniPro profile system is our response to the needs of buildings intended for renovation. The structure is made of door frames adapted for installation in openings without the lintel or side clearance or with uneven wall surface. This structure comprises a fascia panel system in the same colour as the door leaf, which ensures great appearance without the need for further finishing works.

The UniPro profile system solves a multitude of potential issues that could occur during the replacement of the garage door. The structure is mounted directly to the existing surfaces with a system of angle bars which, paired with fascia panels, take over the functionality of the missing wall elements.



Rear Mount Torsion

Side Sprung







Behind The Lintel



Behind The Opening



Under The Lintel



Between The Opening



In Front Of The Lintel



In Front Of The Opening



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### Sectional door

### Installation structure

It is a modern and functional solution enabling the installation of sectional garage doors regardless of thebuilding conditions in your garage. It acts as a framework and replaces the missing elements of the lintel or the side area where the structural elements of the garage door are mounted. The structure is made of corrosion resistant galvanised steel and because fascia panels can be used in the door opening, the garage entrance maintains great appearance.

### Renovation

### Cladding panels

This solution makes it possible to match the front of the building with the design of the garage door curtain. A perfect solution for owners of multi-car garages who appreciate a uniform style of buildings with a garage integrated with the building structure.

### Renovation

### Fascia panels

The garage door opening can be damaged in the process of replacing the garage door. Fascia panels matching the door leaf colour can be used to cover up the damage or some less appealing building structure features.

### Finishing thermal

### Seal

Makes it possible to provide an aesthetic finish of the garage opening thermally insulated, for example, with a layer of polystyrene or Styrodur, by eliminating the clearance between the thermal insulation layer and the door leaf surface, which improves thermal insulation. Available for torsion doors only.







Renovation fascia panel - option



Finishing thermal seal - option

### PANEL **TEXTURES**

### PANEL **DESIGNS**









Panel design - L Ribbed

Panel design - M Ribbed

Panel design - S Ribbed





Panel design - Microwave

Panel design - Georgian

### **GLAZING OPTIONS**

### **GLAZING OPTIONS**



Rectangular Windows - Type A-1



Rectangular Windows - Type C-1



Rectangular Windows - Type E-1



Square Window - Type R-1A Stainless Steel Frame



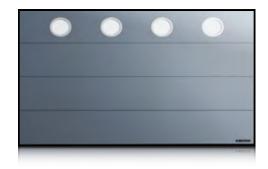
Square Window - Type R-2A Stainless Steel Frame



Rectangular Sunrise Window Type W3-1



Porthole Windows - Type O



Porthole Window - Type O-1A Stainless Steel Frame



Porthole Window - Type O-2A Stainless Steel Frame



Rectangular Sunrise Window Type W4-1



Rectangular Sunrise Window Type W5-1



Rectangular Sunrise Window Type W6-1

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### **DECORATIVE MOTIFS**



Decor Type Ap-1



Decor Type Ap-4



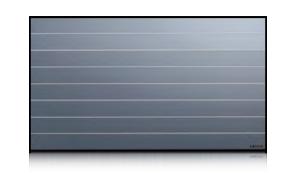
Decor Strip - L Ribbed Type Ap-7



Decor Type Ap-2



Decor Type Ap-5



Decor Strip - M Ribbed Type Ap-7



Decor Type Ap-3



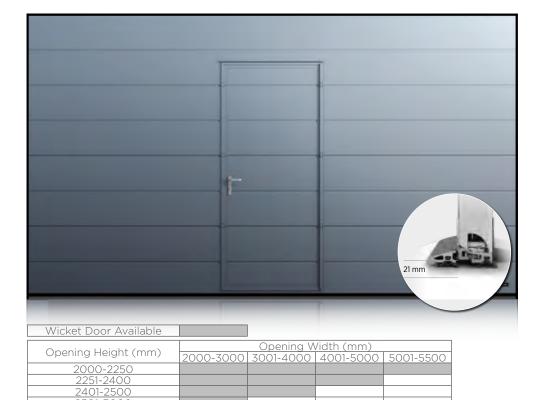
Decor Type Ap-6

### **DOOR** OPTIONS

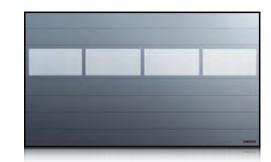
Visual glazing - Available for doors up to 3000mm wide.



Horizon glazing - Available for doors up to 5250mm wide.



### SIDE HINGED - SINGLE OR DOUBLE LEAF



Panoramic glazing - Available for doors up to 4000mm wide



Ventilated panel - Perforated sheeting



Ventilated panel - Expanded mesh panel



L Ribbed Panel Design Single or Double Leaf



M Ribbed Panel Design Single or Double Leaf



S Ribbed Panel Design Single or Double Leaf



Georgian Panel Design Single or Double Leaf



Microwave Panel Design SIngle or Double Leaf



Type A-1 Glazing



Type Ap-4 Decor

### FORM AND **FUNCTION**

UniPro sectional garage doors by WIŚNIOWSKI are manufactured using 40mm thick insulated panel. All our panels are manufactured in the WIŚNIOWSKI facility using state-of-the-art technological lines, which ensure high quality and repeatability at each stage of the manufacturing process. High technical parameters and reliable corrosion protection are obtained thanks to the use of high grade, galvanised steel with paint or film coating. The stiff polyurethane foam core ensures optimum strength for the panels and improves their thermal insulation. Special solutions, such as the 5-layer sheet bending system ensures stable fastening of elements, which further increases the strength of our design.



- 1. Closed panel construction
- 2. Five sheet layers at the hinges
- 3. Panel joint seal
- 4. Polyurethane foam







### S ribbed M ribbed L ribbed Georgian Microwave RAL9016, Standard RAL, RAL9016, Standard RAL, RAL9016. Standard RAL. RAL9016, Standard RAL, Special RAL, Non RAL Special RAL, Non RAL Special RAL, Non RAL & Woodgrain Special RAL, Non RAL Golden Oak & Walnut Golden Oak & Walnut Golden Oak & Walnut Golden Oak Smoothgrain 41 film coatings 41 film coatings Anthracite Anthracite Sandgrain RAL9016, Standard RAL, RAL9016, Standard RAL, RAL9016, Standard RAL, RAL9016, Standard RAL, Silkline Special RAL & Non RAL Home Inclusive 2.0 16 colors 16 colors 16 colors

### U thermal transmittance factor [W/m<sup>2</sup>K] for the UniPro sectional doors (40 [mm] panel)

									Doo	or widt	h in (n	nm)							
		2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	6000
	2000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2
	2100	1.3	1.3	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
E)	2125	1.3	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
3	2200	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	1.2	1.2	1.2
.⊑	2250	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	1.2
ght	2375	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	1.2
H.	2500	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			
or	2625	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2							
ŏ	2750	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2							
	2875	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2								
	3000	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2									

### AN ABUNDANCE OF COLOURS

Colour is the first feature our senses react to. We made sure that each of our customers can find the colour they are looking for. Our garage doors can be manufactured in RAL palette colours and in wood effect finishes. Together with our range of structures and extra decorative elements, this gives you hundreds of options for a totally bespoke design.



Standard RAL, special RAL and Non RAL colours available
Wide selection of wood effect and coloured foils available pages 30-33
Exclusive - Home Inclusive 2.0 available pages 34-35

### **COLOUR** OPTIONS

One of the largest pallettes of standard RAL colours available. Special RAL and non RAL colours are also available, whether your choice of colour is Farrow & Ball or Little Green please contact your dealer to arrange a sample.

TRAFFIC WHITE RAL 9016	PURE WHITE RAL 9010	CREAM RAL 9001	LIGHT IVORY RAL 1015	WHITE ALUMINIUM RAL 9006	GREY ALUMINIUM RAL 9007
FIR GREEN	MOSS GREEN	PALE GREEN	STEEL BLUE	GENTIAN BLUE	PIGEON BLUE
RAL 6009	RAL 6005	RAL 6021	RAL 5011	RAL 5010	RAL 5014
BURGUNDY	RUBY RED	FLAME RED	SEPIA BROWN	TERRA BROWN	NUT BROWN
RAL 3004	RAL 3003	RAL 3000	RAL 8014	RAL 8028	RAL 8011
LIGHT GREY	PEBBLE GREY	AGATE GREY	SILVER GREY	WINDOW GREY	STONE GREY
RAL 7035	RAL 7032	RAL 7038	RAL 7001	RAL 7040	RAL 7030
QUARTZ GREY	MOUSE GREY	BASALT GREY	SLATE GREY	GRAPHITE GREY	GRANITE GREY
RAL 7039	RAL 7005	RAL 7012	RAL 7015	RAL 7024	RAL 7026
<b>A</b> NTHRACITE GREY RAL 7016	SIGNAL BLACK RAL 9004	JET BLACK RAL 9005	GRAPHITE BLACK RAL 9011		

COLOURS ARE FOR REFERENCE PURPOSES ONLY

PLEASE REQUEST A SAMPLE

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	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	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	Douglas Fir 3152009-1167 Smoothgrain	Rustic Oak 3149008-167 Smoothgrain	Sheffield Oak Brown F 436-3087 Smoothgrain
L RIBBED	~	~	~	~	<b>~</b>	<b>~</b>	~	~	~	~	~	~	<b>~</b>	<b>~</b>	<b>~</b>	~	~	~	<b>~</b>	~	~	~	~	<b>~</b>	~	<b>~</b>
M RIBBED	~	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	~	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	~	<b>~</b>	~	<b>~</b>	<b>~</b>	~	~	<b>~</b>	<b>~</b>	~	<b>~</b>	<b>~</b>
S RIBBED						·····				•••••					•	•	•••••	•	•••••		•	•••••		•••••		
MICROWAVE						·····				•••••		····			•	•		•	•		•	•••••				
GEORGIAN			••••••••••							•••••	••••			•••••	•••••	•		•	•	•••••	•••••	•••••		•••••		
					<b>.</b>		<b>-</b>	<b>.</b>										•								

GEORGIAN	S RIBBED MICROWAVE	M RIBBED	L RIBBED	
		<b>~</b>	<b>/</b>	Sheffield Oak Light F 456-3081 Smoothgrain
	<b>.</b>	<b>~</b>	<b>~</b>	Sheffield oak grey F 436-3086 Smoothgrain
		<b>~</b>	<b>~</b>	Brusch schwarzbraun F436-1023 smoothgrain
		<b>~</b>	<b>~</b>	Earl platin 119500 smoothgrain
		<b>~</b>	<b>~</b>	Black ulti-mat PX47097 smoothgrain
	<u>.</u>	<b>✓</b>	<b>~</b>	Woodec Turner Oak Malt F4703001 smoothgrain
		<b>~</b>	<b>/</b>	Woodec Sheffield Oak Alpine F4703002 smoothgrain
		<b>~</b>	<b>Y</b>	Woodec Sheffield Oak Concrete F4703003 smoothgrain
		<b>~</b>	<b>~</b>	Umbragrau F436-60657 smoothgrain
		<b>~</b>	<b>/</b>	Fenstergrau F436-6066 smoothgrain
	··· <del>·</del>	<b>~</b>	<b>~</b>	Cremeweiss F456-6001 smoothgrain
	<u>.</u>	<b>~</b>	<b>Y</b>	Anthrazitgrau F436-6003 smoothgrain
		<b>~</b>	<b>Y</b>	Dark grey silk 4367003 smoothgrain
		<b>~</b>	<b>/</b>	Golden Oak 2178001-167 smoothgrain
	<u>.</u>	<b>~</b>	<b>~</b>	Walnut 2178007-167 smoothgrain
		<b>~</b>	<b>~</b>	Anthracite Quartz Mat F4701014 smoothgrain
		<b>~</b>	<b>/</b>	Woodec Turner Oak Toffe F4703004 smoothgrain
•	<b>/</b>		<b>/</b>	Modern White (Painted finish based on RAL 9010) silkline
•	<b>~</b>	<b>/</b>	<b>Y</b>	Modern White (Painted finish based on RAL 9010) woodgrain
<b>~</b>	<b>*</b>	<b>—</b>	<b>/</b>	Modern Black (Painted finish based on RAL9005) silkline
•	<b>~</b>	<b>-</b>	<b>~</b>	Modern Black (Painted finish based on RAL 9005) woodgrain





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### HANDLE COLLECTION







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



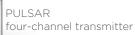
KL-2 handle, colour: RAL 8014

### METRO DRIVE

METRO is a new generation of drive units. It is a harmonious combination of power, beauty, and reliability, designed using state-of-the-art technology. It is the result of cooperation between WIŚNIOWSKI and Somfy, a leading global manufacturer of automation products and smart control solutions for home devices. The METRO drive features exceptional technical parameters in an enclosure designed according to the WIŚNIOWSKI design principles.













### **METRO**

### TECHNICAL DATA





		Metro RTS	Metro SMART io
A so so li a a Ai a sa	Sectional garage doors	•	•
Application	Up & over garage doors	•	•
Simple program	ming	•	•
Auto selection o	of operating parameters	•	•
Configurable		•	•
Display		•	_
6.61	Obstacle detection	•	•
Safety	Photocells	•	•
Radio	RTS	•	_
transmission	io	-	•
Backup power s	upply	•	•
Cycle counter		•	_(2)
Integrated signa	al light	•	•
Additional safeguard	Mechanical carriage lock	•	•
Stand-alone, ad	ditional external lamp	•	•
Recent fault log	ging	•	_(2)
90º head adjust	ment		•
Steel rail with a	chain or belt	•	•
	Ri-Co		•
Smart technologies	smartCONNECTED Box	_	•
technologies	TaHoma Switch	• (1)	•
Garage ventilati	on feature	-	•
Remote contr	ol		

<sup>(1)</sup> Control with no feedback. (2) Only with Set & Go



is a modern, safe, and reliable radio technology by Somfy that lets you control your devices compatible with the smart home concept. Thanks to this technology, the drive unit not only receives commands from controllers, but it can also send feedback. The io-homecontrol technology makes it possible to connect the Metro SMART io drive to the TaHoma and smartCONNECTED Box system, which provides the drive homecontrol" with additional functions that connect the garage door with smart devices available in your home.

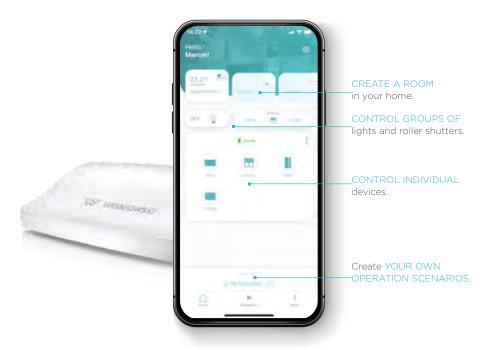
PULSAR transmitter

four channel

Smartphone app

### TREAT YOURSELF TO COMFORT AND SAFETY

- Control your garage door, gates, windows, and doors remotely
- Open garage doors and gates without touching your remote
- Manage your home via voice assistant



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® enables wireless connection of the Metro SMART io drive unit to the smart home system controlled by the WIŚNIOWSKI smartCONNECTED Box and Somfy TaHoma Switch central control units. Building a comprehensive smart home provides a number of benefits and additional features that enhance your comfort every single day.

### KEYPAD 2 RTS The two-channel code keypad makes it possible to control both drive units and radio receivers. Thanks to radio communication, they can be installed in

### **AUTOMATION ACCESSORIES**

Extra features offered by the automatic garage door equipment equal higher safety standards and more comfort.

Set&Go by Somfy is a device that guides the user through all the configuration steps of the io-home control automatic operating unit. The device includes an antenna and a PC application.





### KEYPAD 2 io lets you control the io radio drives and can support up to two devices

and can support up to two devices. The keypad is a flush-mounted wireless device and no cables are required for installation. The device is powered with a battery and features backlit keys.



RTS wall-mounted transmitter
The three-channel transmitter
lets you control both your
drive units and radio
receivers thanks to radio
communication, they can be
installed in various locations



The external radio receiver lets you control the drive units using the Pulsar transmitter. It is a two channel device where you can program as many as 16 transmitters.



The mechanical carriage lock is an additional safeguard which increases garage door safety when mounted to the carriage.



Garage ventilation feature is enabled by tilting the top panel without the need to lift the door. The bottom panel remains seated against the floor.



Warning lamp compatible with the METRO drives.



Battery backup connected to the METRO drive provides power for several cycles of emergency operation.



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



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















### N W<sub>1</sub> H<sub>0</sub> W<sub>2</sub>

- So Opening width, ordering dimension
- Ho Opening Height, ordering dimension
- N Minimum required headroom

- Minimum required side clearance
- v<sub>2</sub> Minimum required side clearance
- E Minimum garage depth with clearance

### TRACK SYSTEMS

NP - Side Extension Springs

Sp - Front Mount Torsion

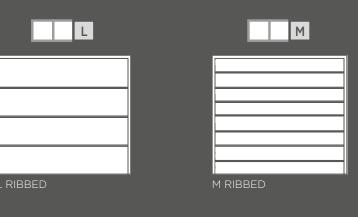
St - Rear Mount Torsion

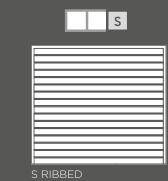
SpA - Inclined Tracks Front Mount Torsion

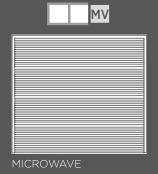
StA - Inclined Tracks Rear Mount Torsion

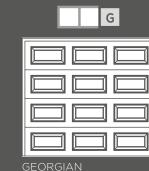
HL - High Lift Tracks Front Mount Torsion

### UNIPRO PANEL **DESIGNS**









### TECHNICAL INFORMATION **NP** - SIDE EXTENSION

Minimum garage door dimensions: Extension Springs

So = 1,500 [mm] and Ho = 1,800 [mm] - garage doors type

 $S_0$  = 1,500 [mm] and  $H_0$  = 1,900 [mm] - garage doors type

 $S_0 = 2,230 \text{ [mm]}$  and  $H_0 = 1,990 \text{ [mm]}$  - garage doors type

MV  $S_0 \le 1,750 \text{ [mm]}$  and  $H_0 \text{ max} = 2,500 \text{ [mm]}$ ,  $1,750 \text{ [mm]} < S_0 \le 2,000 \text{ [mm]}$   $H_0 \text{ max} = 2,750 \text{ [mm]}$ 

### Available dimensions for - **NP** - Side Extension

Opening height(1)						Openir	ig width	(1) (S <sub>0</sub> )	in [mm	] up to					
(H <sub>0</sub> ) 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															

-Not applicable for doors with Sandgrain and Smoothgrain Foiled Texture (1) - Ordering dimension.

### INTERNAL DIMENSIONS - NP - SIDE EXTENSION

	NP	Side Extension Springs						
NI:	Manual	95 [mm]						
Nmin	With Automation	95 [mm]						
1.16	Manual + Catcher (standard)	H <sub>0</sub> - 60 [mm]						
Hj	With Automation	H <sub>o</sub> - 60 [mm]						
	W1, W2	95 [mm]						
	Manual	Ho + 600 [mm]						
Emin	With the METRO drive	L <sub>S</sub> + 410 [mm]						
	Ls	2900mm for $H_0 \le 2250$ ; 3500mm for $H_0 > 2250$ and $H_0 \le 2850$ ; 4500mm for $H_0 > 2850$						

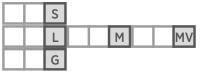


### **TECHNICAL** INFORMATION **Sp** - FRONT MOUNT TORSION

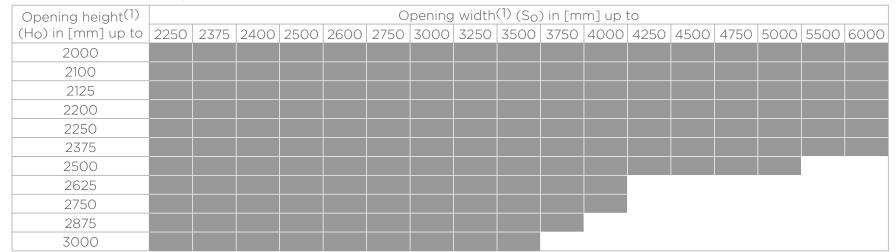
Minimum garage door dimensions: Front Mount Torsion

 $S_0$  = 1,500 [mm] and  $H_0$  = 1,800 [mm] - garage doors type  $S_0$  = 1,500 [mm] and  $H_0$  = 1,900 [mm] - garage doors type

 $S_0$  = 2,230 [mm] and  $H_0$  = 1,990 [mm] - garage doors type



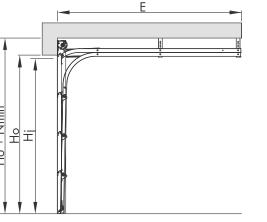
### Available dimensions for - **Sp** - Front Mount Torsion



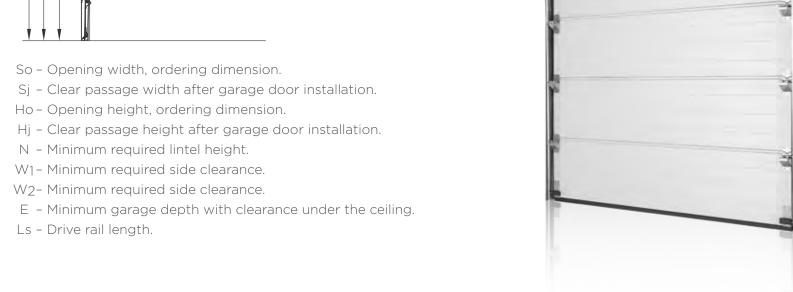
<sup>(1) -</sup> Ordering dimension.

### INTERNAL DIMENSIONS - Sp - FRONT MOUNT TORSION

	Sp	Front Mount Torsion									
	Nmin	= 220mm									
	Manual	H <sub>0</sub> - 160mm									
Hj	Manual + catcher	H <sub>O</sub> - 80mm									
	With a drive unit	Ho - 50mm									
	W1, W2	110mm									
	Manual	H <sub>o</sub> + 400mm									
Emin	With the METRO drive	L <sub>S</sub> + 410mm									
	Ls	2900mm for $H_0 \le 2250$ ; 3500mm for $H_0 > 2250$ and $H_0 \le 2850$ ; 4500mm for $H_0 > 2850$									



Tracks type: Front Mount Torsion

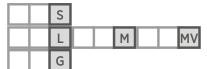


### St - REAR MOUNT TORSION

Minimum garage door dimensions: Rear Mount Torsion

 $S_0$  = 1,500 [mm] and  $H_0$  = 1,800 [mm] - garage doors type  $S_0$  = 1,500 [mm] and  $H_0$  = 1,900 [mm] - garage doors type

 $S_0 = 2,230 \text{ [mm]}$  and  $H_0 = 1,990 \text{ [mm]}$  - garage doors type



### Available dimensions for - **St** - Rear Mount Torsion

Opening height(1)							ning wi									
(Ho) 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																

<sup>(1) -</sup> Ordering dimension.

### INTERNAL DIMENSIONS - St - REAR MOUNT TORSION

	St	Rear Mount Torsion						
N I i	Manual	100 [mm]						
Nmin	With Automation	140 [mm]						
	Manual	H <sub>0</sub> - 160 [mm]						
Hj	Manual + catcher	H <sub>O</sub> - 90 [mm]						
	With a drive unit	H <sub>O</sub> - 90 [mm]						
	W1, W2	110 [mm]						
	Manual	H <sub>o</sub> + 750 [mm]						
Emin	With the METRO drive	L <sub>S</sub> + 410 [mm]						
	L <sub>S</sub>	2900mm for $H_0 \le 2250$ ; 3500mm for $H_0 > 2250$ and $H_0 \le 2850$ ; 4500mm for $H_0 > 2850$						

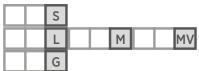


### **SpA - INCLINED TRACKS FRONT MOUNT TORSION**

Minimum garage door dimensions: Inclined Tracks Front Mount Torsion

 $S_0$  = 1,500 [mm] and  $H_0$  = 1,800 [mm] - garage doors type  $S_0$  = 1,500 [mm] and  $H_0$  = 1,900 [mm] - garage doors type

 $S_0$  = 2,230 [mm] and  $H_0$  = 1,990 [mm] - garage doors type



### Available dimensions for - SpA- Inclined Tracks Front Mount Torsion

Available diffiersions	5 101 - 3	phy- III	ziirieu ii	iacks i	I OTTE I TIE	Julit 101	31011								
Opening height <sup>(1)</sup>						Openin	g width	(1) (S <sub>0</sub> )	in [mn	n] up to	)				
(H <sub>0</sub> ) 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															

<sup>(1) -</sup> Ordering dimension.

### INTERNAL DIMENSIONS - SpA- INCLINED TRACKS

Nr	nin		łj	Si	W1,W2	
manual	automatic	manual automatic				
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
360	390	Ho - 50	Ho - 20			
350	380	Ho - 50	Ho - 20			
350	370	Ho - 50	Ho - 20	So - 40	110	
350	360	Ho - 50	Ho - 20			
350	350	Ho - 50	Ho - 20			
	manual [mm] 360 350 350 350	[mm] [mm] 360 390 350 380 350 370 350 360	manual         automatic         manual           [mm]         [mm]         [mm]           360         390         Ho - 50           350         380         Ho - 50           350         370         Ho - 50           350         360         Ho - 50	manual         automatic         manual         automatic           [mm]         [mm]         [mm]           360         390         Ho - 50         Ho - 20           350         380         Ho - 50         Ho - 20           350         370         Ho - 50         Ho - 20           350         360         Ho - 50         Ho - 20	manual         automatic         manual         automatic           [mm]         [mm]         [mm]         [mm]           360         390         Ho - 50         Ho - 20           350         380         Ho - 50         Ho - 20           350         370         Ho - 50         Ho - 20           350         360         Ho - 50         Ho - 20	

Drive unit	Emin'	Height Ho
	3,310	0 - 2,250
METRO	3,910	2,251 - 2,850
	4.910	2.851 - 3.150

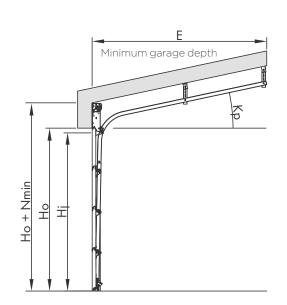
Emin
Automatic: Emin=cos(Kp) x Emin'

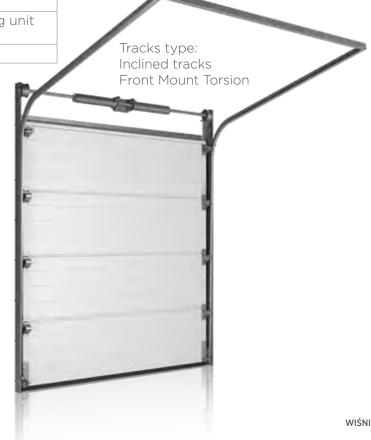
Manual: Emin=cos(Kp) x (Ho+30+450)

Ho - opening height

Emin' – value from the table, depending on the automatic operating unit and  ${\rm H}_{\rm O}$ 

Kp - inclination angle of the ceiling in relation to the floor





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### **StA -** INCLINED TRACKS REAR MOUNT TORSION

Minimum garage door dimensions: Inclined Tracks Rear Mount Torsion

 $S_0$  = 1,500 [mm] and  $H_0$  = 1,800 [mm] - garage doors type  $S_0$  = 1,500 [mm] and  $H_0$  = 1,900 [mm] - garage doors type

 $S_0$  = 2,230 [mm] and  $H_0$  = 1,990 [mm] - garage doors type

	S		
	L	M	MV
	G		

### Available dimensions for - **StA**- Inclined Tracks Rear Mount Torsion

, wandore annension																
Opening height(1)		Opening width <sup>(1)</sup> (S <sub>0</sub> ) in [mm] up to														
(H <sub>0</sub> ) 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																
2,625																

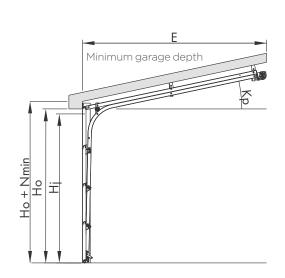
<sup>(1) –</sup> Ordering dimension.

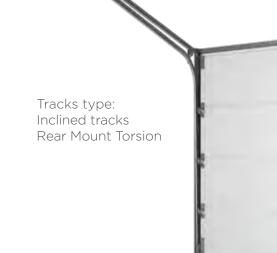
### INTERNAL DIMENSIONS - StA- INCLINED TRACKS

StA	Nr	min		Hj	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Кр	manual	automat- ic	manual	manual + catcher	automatic	Sj	W1,W2
degrees [°]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
2	140	170	Ho - 100	Ho - 80	Ho - 70		
3	135	165	Ho - 110	Ho - 90	Ho - 70		
4	130	160	Ho - 120	Ho - 90	Ho - 70		
5	120	150	Ho - 130	Ho - 90	Ho - 70		
6	110	140	Ho - 140	Ho - 90	Ho - 70	C 10	110
7	110	140	Ho - 140	Ho - 90	Ho - 70	So - 40	110
8	100	130	Ho - 140	-	Ho - 70		
9	100	120	Ho - 140	-	Ho - 70		
10	100	110	Ho - 140	-	Ho - 70		
11 to 20	100	100	Ho - 140	-	Ho - 60		

Drive unit	Emin'	Height Ho
METRO	3,310	0 - 2,250
	3,910	2,251 - 2,850
	4,910	2,851 - 3,150

Automatic: Emin=cos(Kp) x Emin'
Manual: Emin=cos(Kp) x (H <sub>0</sub> +30+450)
Ho - opening height
Emin' - value from the table, depending
on the automatic operating unit and Ho
Kp - inclination angle of the ceiling in
relation to the floor





### HL - HIGH LIFT TRACKS FRONT MOUNT TORSION

Minimum garage door dimensions: High Lift Tracks Front Mount Torsion

 $S_0 = 1,500 \text{ [mm]}$  and  $H_0 = 1955 \text{ [mm]}$  - garage doors type  $S_0$  = 2,230 [mm] and  $H_0$  = 2,040 [mm] - garage doors type

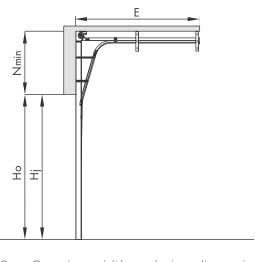
### Available dimensions for - HL - High Lift Tracks Front Mount Torsion

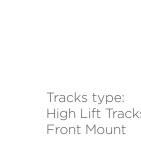
Opening height(1)	Opening width <sup>(1)</sup> (S <sub>0</sub> ) in [mm] up to															
(H <sub>0</sub> ) in [mm] up to	2250	2375	2400	2500	2600	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5500
2000																
2100																
2125																
2200																
2250																
2375																
2500																
2625																
2750																
2,875																
3,000																

<sup>(1) –</sup> Ordering dimension.

### INTERNAL DIMENSIONS - HL - HIGH LIFT TRACKS

	HL	High lift torsion
Nmin	Manual With a drive unit	400 < N ≤ 1300
Hį	Manual	H <sub>O</sub> – 20 [mm]
П	With a drive unit	H0 - 20 [IIIII]
	W1, W2	110 [mm]
	Manual	H <sub>O</sub> - 0,8 x N+645 [mm]
Emin	With the METRO drive	3310mm for $H_0 \le 2080$ ; 3910mm for 2080 < $H_0 \le 2680$ ; 4910mm for $H_0 > 2680$





So - Opening width, ordering dimension.

Sj - Clear passage width after garage door installation.

Ho - Opening height, ordering dimension.

Hj - Clear passage height 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.







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