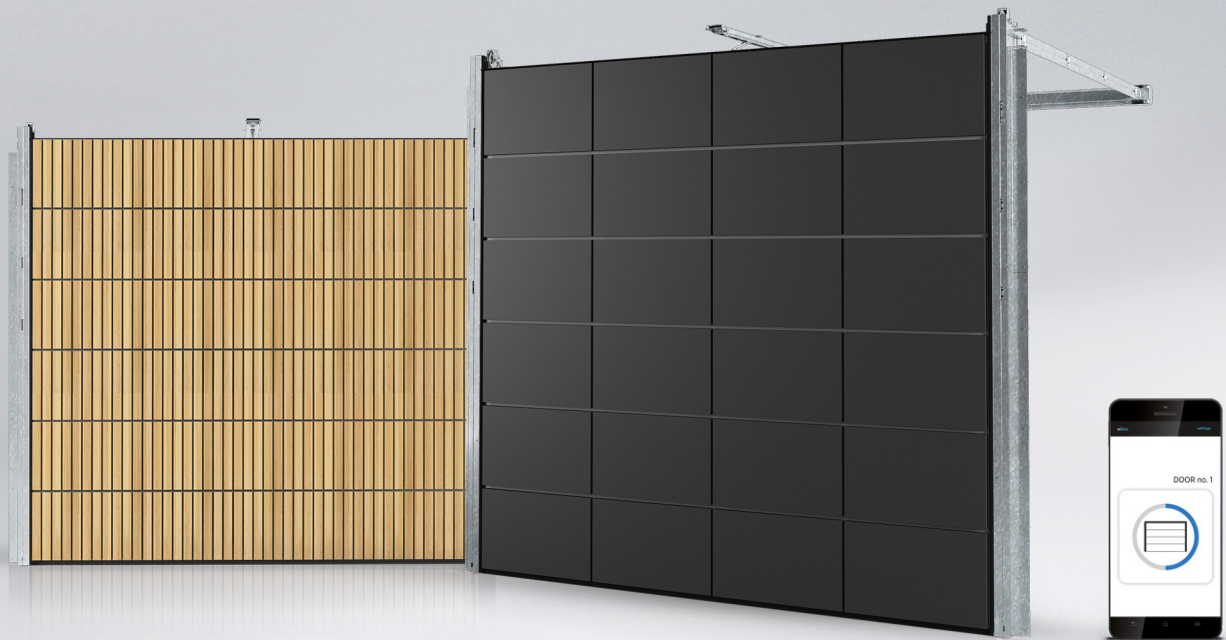


# INDUSTRIAL DOORS



## WIŚNIEWSKI

GATES | WINDOWS | DOORS | FENCES

## SECTIONAL DOORS

**MakroPro 2.0 ELH,  
MakroPro ALU 2.0 ELH**

**Door adapted for individual infill**

**Intended use:** Industrial sectional doors are intended to be used in residential buildings, public utility buildings, industrial facilities, including the food industry (without direct food contact), and in indoor car parks. The door includes vertical and/or horizontal ceiling-mounted tracks, a leaf made of steel panels infilled with freon-free polyurethane foam or aluminium panels with a sheet-expanded polystyrene-sheet infill. The structure is made of galvanized elements. The door is sealed around the entire circumference. A safe torsion spring system is used to balance the leaf weight.

### DESIGN

The ability to give the building a distinctive, individual character requires the use of non-standard solutions. Architects keep outdoing one another with ideas for providing buildings with an original finish of the façade. This also applies to doors, which have to form a consistent surface with the building's façade.

### SAFETY

The safety systems foremostly consist in minimizing all traces of risk. Regardless of the method of the WIŚNIEWSKI door operation, our doors ensure comfort and safety. Our products are fully compliant with the PN-EN 13241-1 standard.

### LUXURY CLASS

An excellent structure which may be complemented with the most fanciful infill. With the façade door, you will get an ideal combination of original design, perfect tailoring to your needs, and quality. It is a door unlike any other, always unique, and always matching your style.



## STRUCTURE

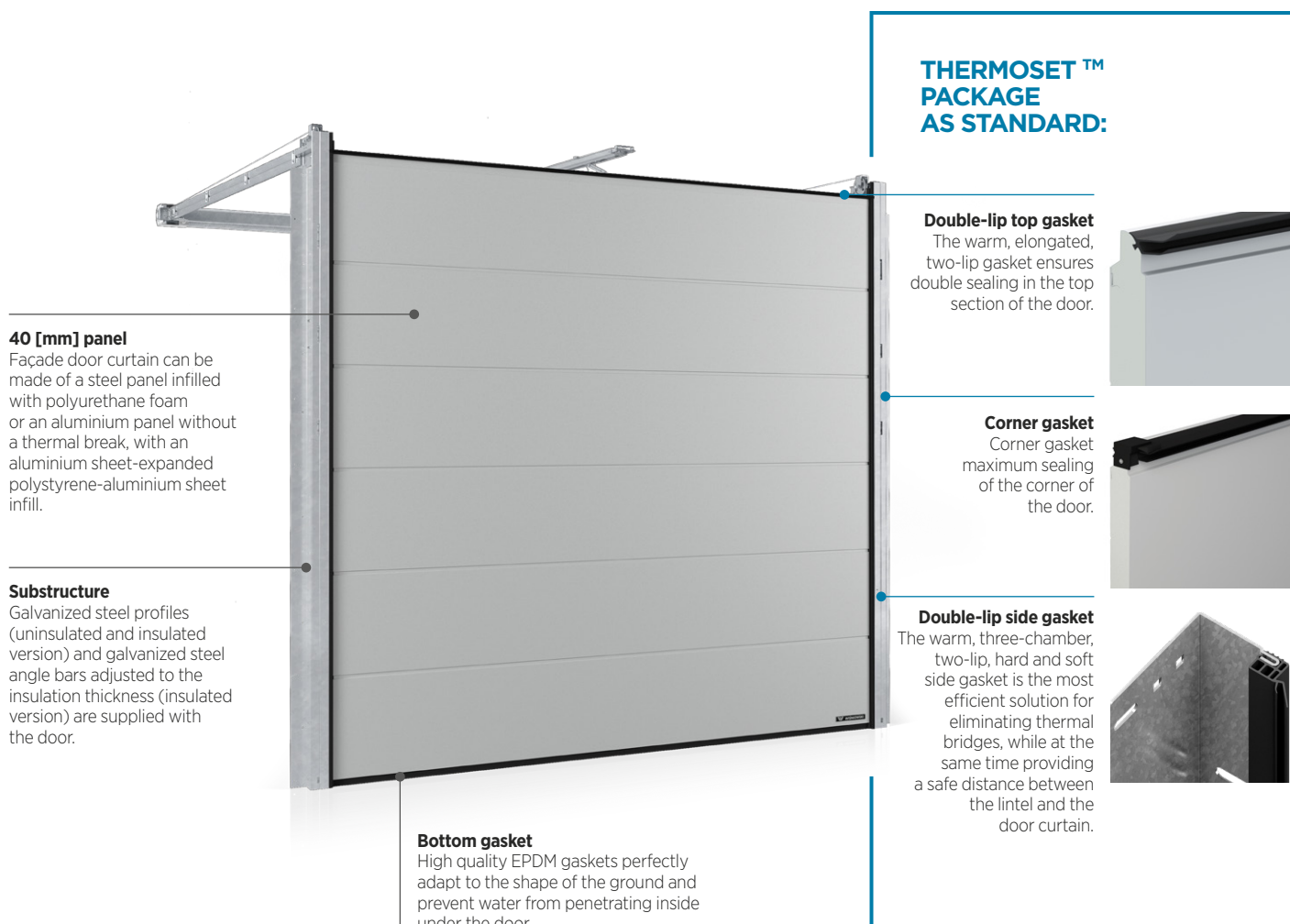
With the option to add a custom infill, you can create your own version of the façade door. When the door is closed, its leaf creates a uniform surface with the façade. The door leaf may be up to 20 m<sup>2</sup> in size, while the maximum thickness of the door leaf infill material is 4 centimetres. Importantly, the door may be part of an uninsulated or insulated building, where the insulation thickness ranges from 70 to 220 [mm]. A façade door is just a structure, and yet so much more than just a structure – which may be complemented with the most fanciful infill. The façade door is made based on the MakroPro Alu 2.0. or MakroPro Alu 2.0 models.

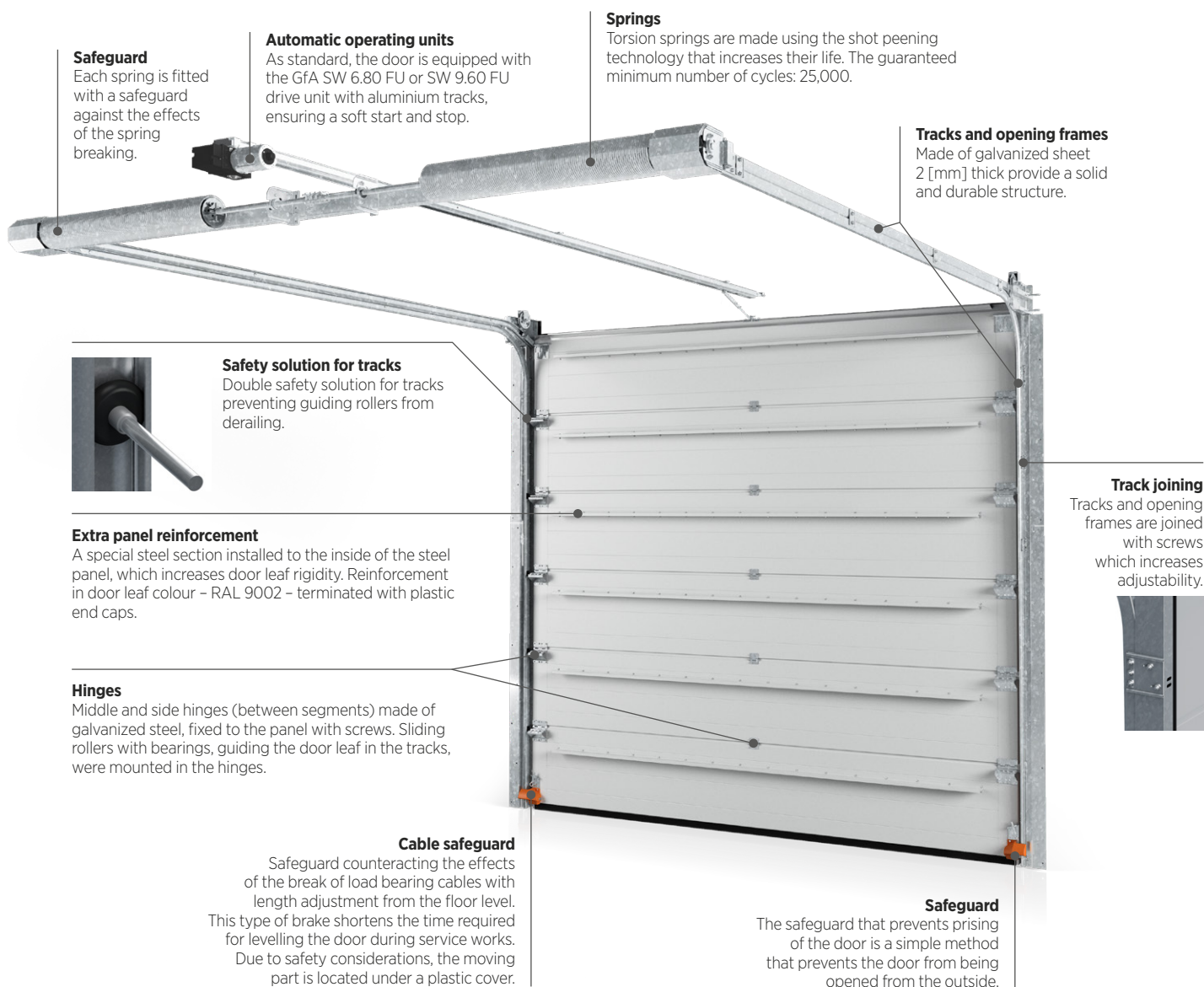
Thanks to a number of safeguards, the door is safe at every stage of opening and closing.

The weight of the leaf with a dedicated finishing material is perfectly balanced thanks to the use of a torsion spring system seated on the drive shaft. Springs are preselected with computer precision and guarantee the best balancing of the door, maximum comfort, and safety of use. All the steel elements are galvanized (tracks, frames, fastening elements). The door is fitted with guiding sliding rollers with bearings and bush fittings (quiet) providing proper running of the door curtain. Tracks featuring a special double profile prevent it from derailing.

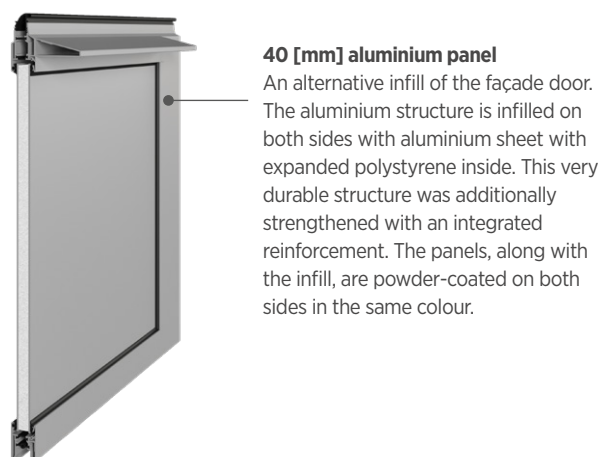
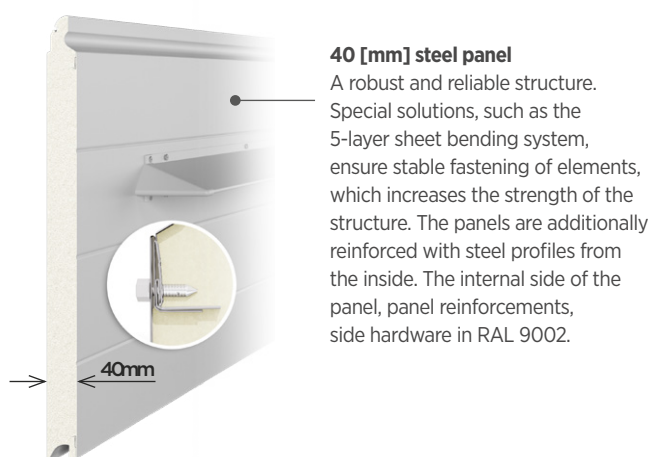
Convenient operation of the door is ensured by the quiet GfA SW6.80 or 9.60 drive unit, which guarantees a soft start and stop. As standard, each panel is reinforced with special elements enhancing the rigidity of the entire structure. In the MakroPro 2.0 ELH door, the door curtain is made of steel panels infilled with polyurethane foam and coated with polyester paint. In the MakroPro Alu 2.0. ELH door, the door curtain is made of powder-coated aluminium panels without a thermal break, with an aluminium sheet-expanded polystyrene-aluminium sheet infill.

The door is installed in the opening. As standard, the door is fitted with a substructure for installation. Additional angle bars (selected depending on the thickness of the insulation) are added to the insulated version. Optionally, a fake lintel is supplied.





## PANEL STRUCTURE







## KEY INFORMATION

The MakroPro 2.0 ELH and MakroPro ALU 2.0 ELH garage doors are installed in the opening. **Design versions:**

- without insulation and with space for insulation (angle bars adjusted to the thickness of the insulation are supplied with the door). Max. thickness of the leaf infill material: 40 [mm],
- as standard, the door is fitted with installation profiles (substructure),
- fake lintel 290 [mm] high with a max. thickness of 15 [mm] is required (supplied as an option). Max. weight of the infill: 1 – 25 kg/m<sup>2</sup> (depending on the size of the door),

- reinforcements mounted on each panel. Double quiet hinges with a bush fitting,
- individually selected drive unit (springs + motor + tracks),
- GfA Elektromaten drive unit with the SW 6.80 FU, SW 9.60 FU aluminium tracks, the highest quality of operation, soft start and stop, quiet operation.

## RIB DESIGNS



◀ MakroPro 2.0 ELH garage door with steel panels, G – No ribs (standard).

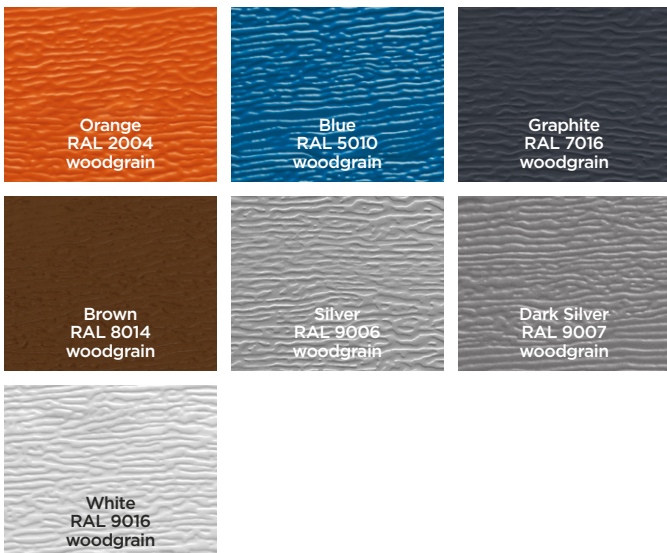
Other available ribs:  
W – High ribs,  
N – Low ribs,  
V – V ribs.



◀ MakroPro ALU 2.0 ELH door with an aluminium panel without a thermal break, with an aluminium sheet-expanded polystyrene-aluminium sheet infill.

## COLOURS | STANDARD COLOURS

### MakroPro 2.0 ELH



### MakroPro ALU 2.0 ELH







## TRACKS

### ELH – Low guides – rear torsion springs.

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

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



### The required installation parameters for the ELH tracks

ELH		MakroPro 2.0 / MakroPro ALU 2.0	
Sj		Sz	
Sz		S of the opening – 260 [mm]	
Hj		Hz – 50 [mm]	
Hz		H of the opening – 290 [mm]	
N <sub>min</sub>	Rail drive unit	fake lintel 290 [mm]	
W <sub>1min</sub> or W <sub>2min</sub>		installation in the opening	
E <sub>min</sub>		= 3750 for Hz < 2500	= 5750 for Hz > 2501

### Dimensional range for MakroPro 2.0, MakroPro ALU 2.0 doors with ELH tracks

Ordering height (Hz) in [mm] up to:	Ordering width (Sz) in [mm] up to:																
	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
2000																	
2125																	
2250																	
2375																	
2500																	
2625																	
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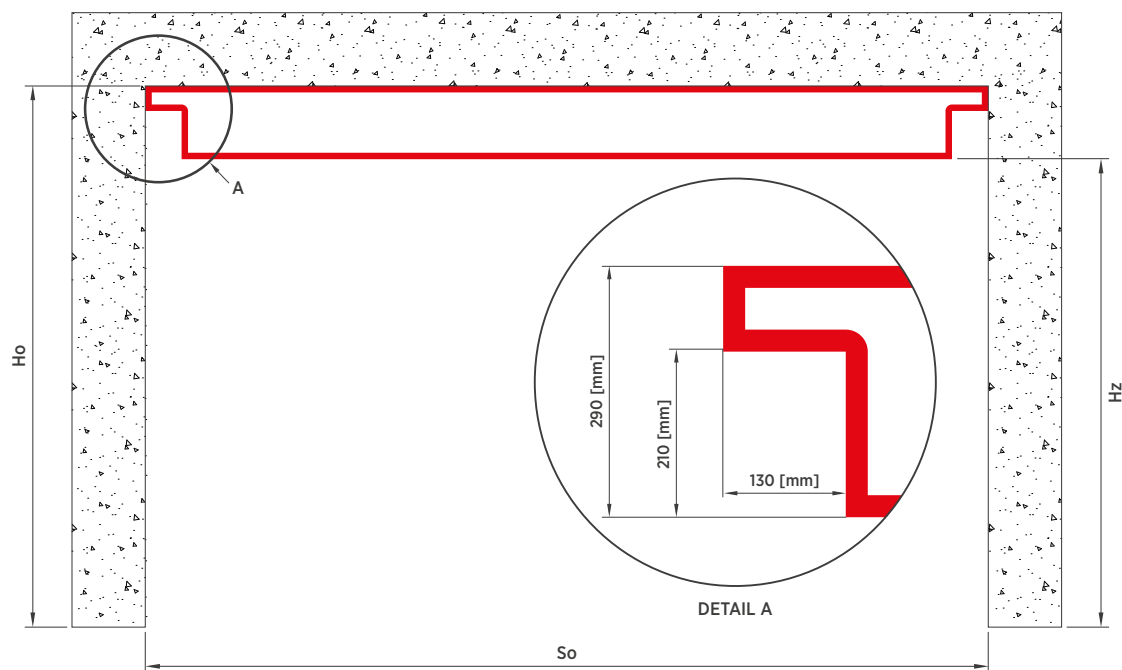
### Designations

- Sj** – clear passage width with the door installed,
- Sz** – ordering width of the door with ELH tracks,
- Hj** – clear passage height with the door installed,
- Hz** – ordering height of the door with ELH tracks,
- N<sub>min</sub>** – minimum headroom required,
- W<sub>1</sub>** – minimum side clearance required,
- W<sub>2</sub>** – minimum side clearance required,
- E<sub>min</sub>** – minimum indoor depth with clearance under the ceiling.



## FAKE LINTEL

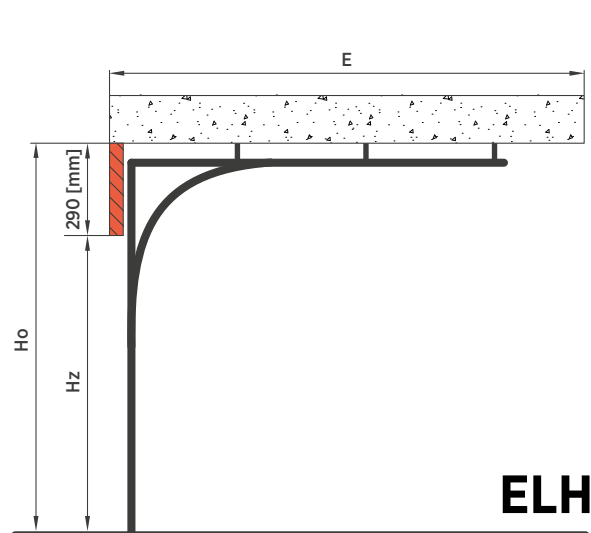
- Serves a masking function and is required due to the characteristics of the door and track structure.
- The only force acting on it is the top gasket seated against it.
- Fixed height: 290 [mm].
- Installation regardless of the existing (or not) lintel (the door can be installed in the so-called "tunnel").
- Fake lintel supplied with the door (option).
- Installation method depending on the door version.





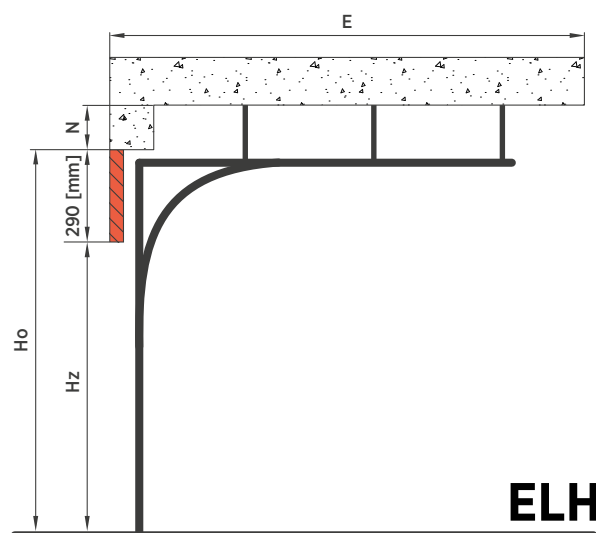
## INSTALLATION VERSIONS

### Without space for insulation



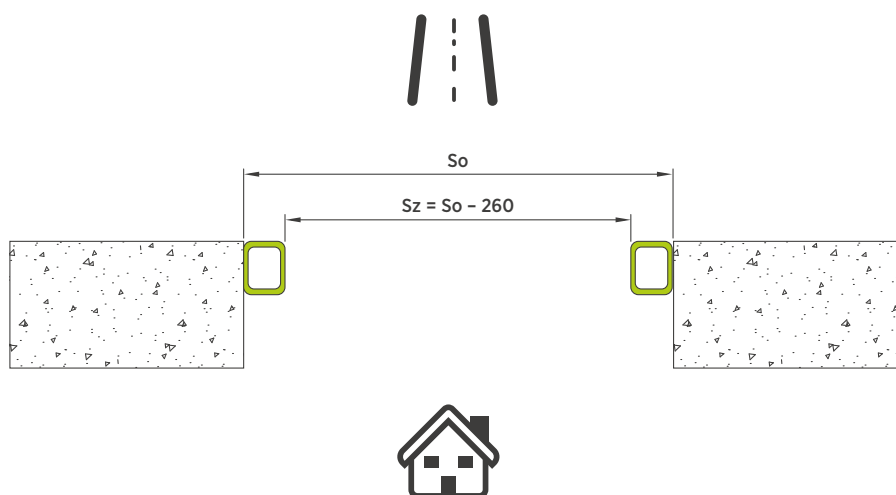
#### Door installed in a building without a lintel.

- In such case, a fake lintel is mounted directly to the ceiling (the fake lintel is supplied as an option).



#### Door installed in a building with a lintel.

- In such case, a fake lintel is mounted to the existing one.



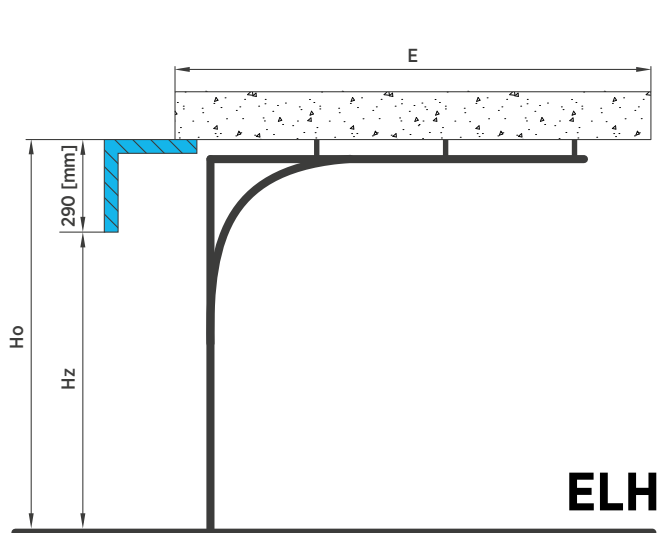
#### The door is installed in the opening – no additional side space is required.

- The opening frames of the door are mounted to the supplied galvanized steel profiles with laser-cut assembly holes. The clear passage is decreased by 260 [mm].



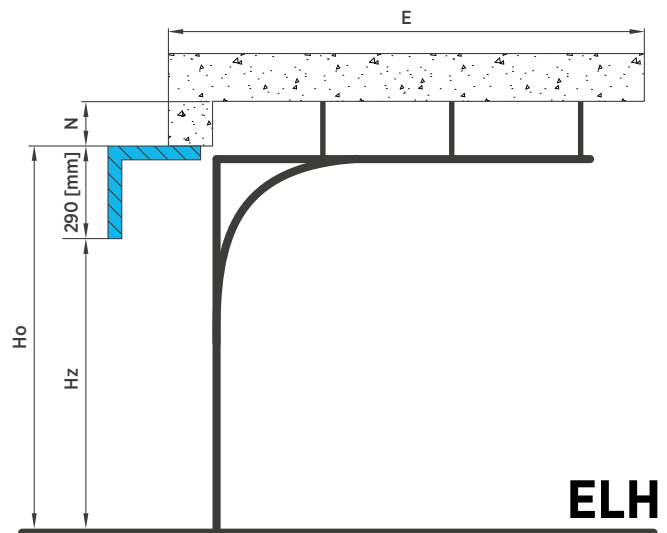


## With space for insulation



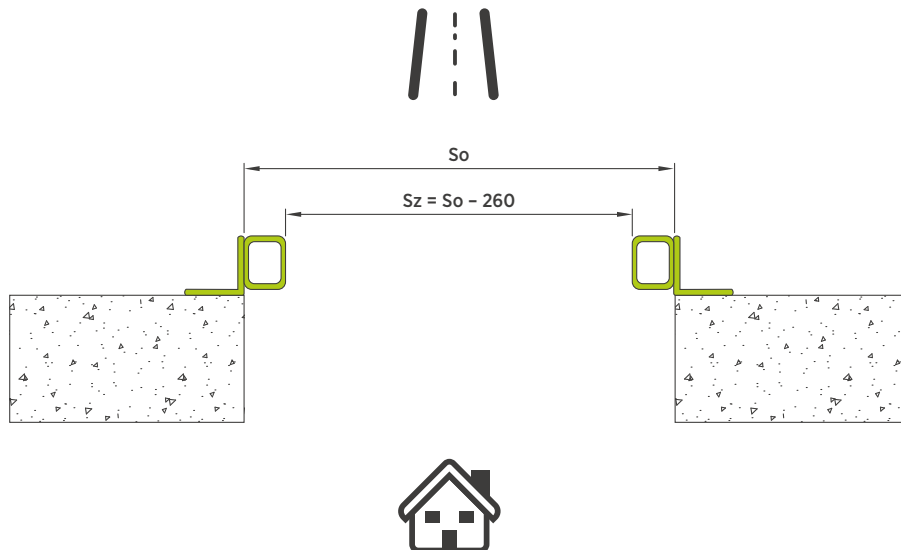
### Door installed in a building without a lintel.

- In such case, a fake lintel is mounted directly to the ceiling. The fake lintel is adjusted to the thickness of the insulation (supplied as an option).



### Door installed in a building with a lintel.

- In such case, a fake lintel is mounted to the existing one. The fake lintel is adjusted to the thickness of the insulation (supplied as an option).

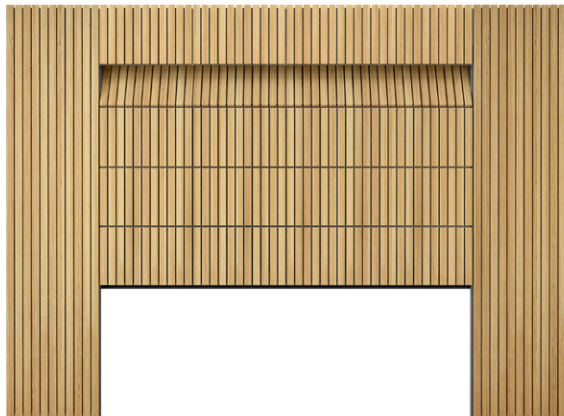


### The door is installed in the opening – no additional side space is required.

- The opening frames of the door are mounted to the supplied galvanized steel profiles with laser-cut assembly holes and angle bars adjusted to the thickness of the insulation. The profiles and angle bars are supplied with the door. The clear passage is decreased by 260 [mm].



EXAMPLE DESIGNS



The front of façade and MakroPro 2.0 industrial door covered with wood

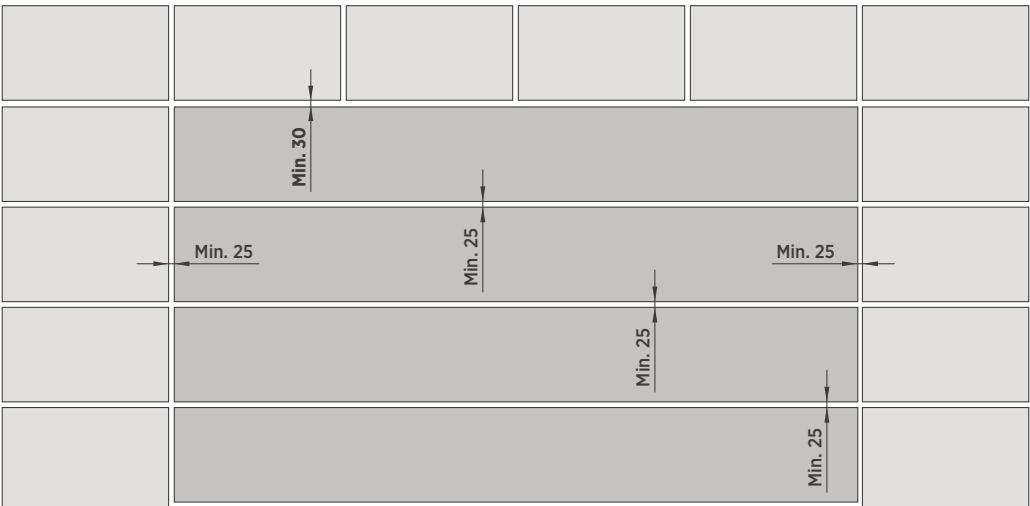


The front of façade and MakroPro 2.0 industrial door covered with panels imitating concrete



The front of façade and MakroPro 2.0 industrial door covered with Corten panels

MINIMUM CLEARANCE REQUIRED BETWEEN THE FINISHING ELEMENTS

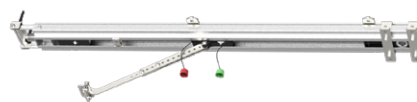


In compliance with the EN 12604 standard, safety clearance should be ensured on the finishing material to prevent the risk of shearing and/or crushing of fingers.



## AUTOMATIC OPERATING UNIT KITS

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



Technical data	SW 6.80 FU	SW 9.60 FU
Door surface area	≤ 24 m <sup>2</sup>	≤ 24 m <sup>2</sup>
Door opening speed [m/s]	0,2	0,15
Hub opening diameter D	25,4 [mm]	25,4 [mm]
Width S	137 [mm]	137 [mm]
Height H	260 [mm]	220 [mm]
Length L	553 [mm]	553 [mm]
Mains	1x230 [V]; 50–60 [Hz] or 3x400 [V]; 50–60 [Hz]	1x230 [V]; 50–60 [Hz] or 3x400 [V]; 50–60 [Hz]
RPM speed	15 – 80 rpm	10 – 60 rpm
Shaft torque	60 [Nm]	90 [Nm]
Limit switch	Electronic, available from operator level	Electronic, available from operator level
Central control unit	TS 970; Up – Stop – Down (continuous signal)	TS 970; Up – Stop – Down (continuous signal)
Display	yes	yes
Emergency opening	yes	yes
Motor power	0,4 [kW]	0,85 [kW]
Rated current	8 [A]	6,6 [A]
Slow circuit breaker	10 [A]	10 [A]
Max. switching cycles per hour <sup>(1)</sup>	17	7
Actuator ingress protection	IP65	IP65
Permissible temperature range	+ 5°C / +40°C	+ 5°C / +40°C
Noise level <sup>(2)</sup>	< 70 dB(A)	< 70 dB(A)
Power supply conductor	3 x 1,5 [mm <sup>2</sup> ] or 5 x 1,5 [mm <sup>2</sup> ]	3 x 1,5 [mm <sup>2</sup> ] or 5 x 1,5 [mm <sup>2</sup> ]

Functionality	SW 6.80 FU	SW 9.60 FU
Quick programming	yes	yes
Obstacle detection	yes; safety edge	yes; safety edge
Automatic closing	yes; from 1 ÷ 240 [s]	yes; from 1 ÷ 240 [s]
Release in end position	yes	yes
RWA – heat and smoke extraction	no <sup>(3)</sup>	no <sup>(3)</sup>
Traffic control	no <sup>(3)</sup>	no <sup>(3)</sup>
Exterior lighting control	yes	yes
Partial opening of the door	yes	yes
Cycle counter	yes	yes
Recent fault logging	yes	yes

Expandability	SW 6.80 FU	SW 9.60 FU
Signal light	yes	yes
LED signal lights (red – green)	yes	yes
Compatible with photocells	yes	yes
Quick uncoupling of the drive	yes	yes
Drive unit in the IP65 version	yes	yes
TS 971 controller	optional	optional
WSD module – wireless signal transmission from the optical strip	optional	optional
Safety barrier	optional	optional
Motion sensor	optional	optional
Induction loop detector	optional	optional
Safety photocells	optional	optional
Acoustic signal	optional	optional

<sup>(1)</sup> – The permissible number of drive power on switching per hour. If the operating temperature range is +40°C to +60°C, reduce the switching number by half. <sup>(2)</sup> – Applies to the drive unit alone.

<sup>(3)</sup> – Option available when the TS-981 control system is used.





## OPTIONAL ACCESSORIES



### Code keypad.

Operates the door after an individual access code is provided. Can be installed indoors or outdoors.



### Proximity card reader.

Can be controlled with proximity cards or fobs. Just place the card/fob against the reader to operate the door drive.



### Warning lamp.

Warning function. Orange blinking light indicates that the door is operating.



### LED signal lights.

Facilitates traffic management around the door. Set includes two lights: green and red indicating that the door is open or closed.



### External key switch.

The switch requires a key for the door to operate. Recommended where access must always be controlled.



### Microwave motion sensor.

The sensor automatically opens the door when a vehicle or a person is in front of the entrance.



### Transmitter.

Works with the radio receiver and controls the drive unit through radio waves WIŚNIEWSKI. One remote control can operate four individual doors.



### Photocells.

If an obstacle appears in the clear passage, the infrared beam is interrupted, the door stops and returns to the open position.



### Safety barrier.

Secures clear passage in case of accidental door curtain movement.



## CONTROL YOUR DOOR WITH YOUR SMARTPHONE!

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



## Ri-Co CONTROLLERS

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



## GALLERY



MakroPro 2.0 facade door.





MakroPro 2.0 facade door.



MakroPro 2.0 facade door – inside view/as seen from the inside of the garage.





MakroPro 2.0 facade door.



MakroPro 2.0 facade door.





MakroPro 2.0 facade door.



MakroPro 2.0 facade door.



## TECHNICAL DATA

	Door adapted for individual infill	
	MakroPro 2.0 ELH	MakroPro ALU 2.0 ELH
Curtain	A panel made of galvanized steel sheet with two-side polyester coating, galvanized and painted on both sides, infilled with high density PU foam $\rho=42 \text{ kg/m}^3$ without HCFC	Aluminium panel without a thermal break, with an aluminium sheet-expanded polystyrene-aluminium sheet infill
Minimum number of cycles	25 000	25 000
Heat transfer coefficient of the door U [W/m <sup>2</sup> ·K]	N.P.D.	N.P.D.
Watertightness (class)	class 3 in accordance with PN-EN 13241-1 section 4.4.2	class 2 in accordance with PN-EN 13241-1 section 4.4.2
Wind load resistance class	class 3 in accordance with PN-EN 13241-1 section 4.4.3	class 4 in accordance with PN-EN 13241-1 section 4.4.3
Air permeability class	class 4 in accordance with PN-EN 13241-1 section 4.4.6	class 4 in accordance with PN-EN 13241-1 section 4.4.6
Reaction to fire NFP	Fire properties B Smoke production s2 Flaming droplets d0 In accordance with EN 13501-1+A1:2010	N.P.D.
Acoustic absorption coefficient Rw [dB]	23 in accordance with PN-EN ISO 717-1: 1999	23 in accordance with PN-EN ISO 717-1: 1999
Drive type / power supply type	GfA Elektromaten with the SW 6.80 FU or SW 9.60 FU aluminium tracks	GfA Elektromaten with the SW 6.80 FU or SW 9.60 FU aluminium tracks
Safeguards	Double track profiling preventing guiding rollers from derailing, safeguards against breaking of load-bearing cables, spring break safety device (on each spring), safety edge. Options: photocells, light barrier, safeguard preventing the door from being prised open.	Double track profiling preventing guiding rollers from derailing, safeguards against breaking of load-bearing cables, spring break safety device (on each spring), safety edge. Options: photocells, light barrier, safeguard preventing the door from being prised open.
Optional accessories	Springs 50,000 cycles, 100,000 cycles, fake lintel made of 5 [mm] galvanized steel sheet, photocells, light barrier, code keypad, motion sensor, signal light, transmitter, acoustic signal, magnetic card reader, pull switch, safety edge wireless transmission system.	Springs 50,000 cycles, 100,000 cycles, fake lintel made of 5 [mm] galvanized steel sheet, photocells, light barrier, code keypad, motion sensor, signal light, transmitter, acoustic signal, magnetic card reader, pull switch, safety edge wireless transmission system.
Maximum width / height of the door [mm]	6000 / 4000	6000 / 4000
Available panel rib designs	G – No ribs (standard). Optionally: W – High ribs, N – Low ribs, V – V ribs	Aluminium panel without a thermal break, with an aluminium sheet-expanded polystyrene-aluminium sheet infill
Available panel structures	Woodgrain, Smoothgrain, Sandgrain, Silkline	—
Standard RAL colours	RAL 2004, RAL 3000, RAL 5010, RAL 7016, RAL 8014, RAL 9006, RAL 9007, RAL 9016	RAL 1021, RAL 3000, RAL 5010, RAL 6002, RAL 7016, RAL 7032, RAL 8014, RAL 9006, RAL 9007, RAL 9016
Custom colours	Other RAL colours, special colours, including wood imitating colours, (film coated panels)	Other RAL colours
Track type	ELH	ELH



# WIŚNIEWSKI

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Let us inspire you!  
See other solutions from WIŚNIEWSKI!



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