

# Bramy segmentowe **PRIME**



- | Torsion spring system operating life:  
20 thousand cycles
- | Galvanized structure
- | 60mm INNOVO panel
- | Heat transfer coefficient of the panel:  
 $U_p=0,33 \text{ W/m}^2\text{K}$
- | Double rollers with bearings
- | Double bottom seal
- | Flexible panel joint
- | Mechanical component safety system
- | Advanced automatic operation unit on a high accessories level

## General

**PRIME door** - a unique generation of sectional doors, normally only available in the automatic version. The structure is made of galvanized components, powder coated. The door leaf is constructed of new generation INNOVO panels, thickness 60 [mm]. The door is sealed along its entire circumference, with a double bottom seal. It is fitted with a safe torsion spring system and a safety system for mechanical elements. The door is available in 107 standard dimensions, as well as in special dimensions.

## General identification information

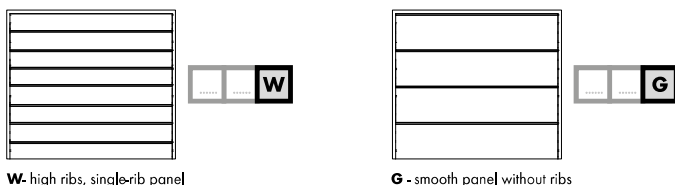
- The first symbol denotes the door type:

- sectional door

- The second symbol denotes the type of springs and rails:

„Sp” - torsion springs installed in the front at the lintel, on a galvanized steel shaft. The spring size is selected for the door size.

- The third symbol denotes the design type:



W - high ribs, single-rib panel

G - smooth panel without ribs

Fig. 1. PRIME series door leaf available with high ribs or no ribs.

## Door leaf

The door leaf consists of INNOVO panels available with the following heights: 495, 520, 526, 557, 589 [mm]. The panel height depends on the overall door height.

## INNOVO panel

Galvanized steel sheet panel, 60 [mm] thick, filled with freon-free polyurethane foam. The heat-transfer coefficient for INNOVO panels is 0.33 [W/m<sup>2</sup>K].

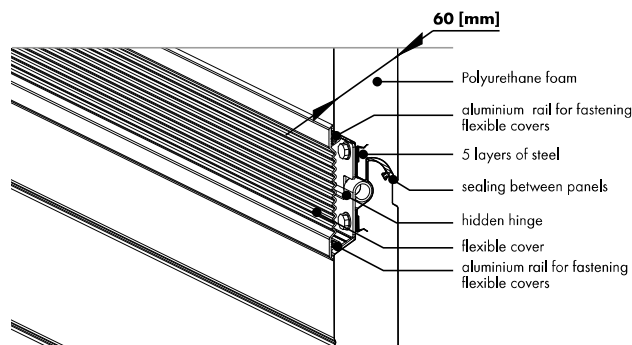


Fig. 2. Vertical section of the steel panel for PRIME doors.

## Panel texture

- Smoothgrain** - the texture is smooth with micro impressions.
- Sandgrain** - the texture imitates fine sand.
- Silkline** - the texture is smooth.

**Note !** The panels of PRIME series doors are painted on the outside only. The inside colour is RAL 9002. The marks on the panels which appear during use result from natural wear and are not covered by warranty.

## Colours

Depending on the panel texture, the PRIME door leaf is finished in the following external colours. The inside surface of the leaf is woodgrain, in the RAL 9002 colour.

colour	texture		
	Smoothgrain	Sandgrain	Silkline
golden oak	●	—	—
nut brown	●	—	—
anthracite	—	●	—
RAL 9016 (traffic white)	—	—	●
RAL 7016 (anthracite grey)	—	—	●
Other RAL (coated)	—	—	●
Veneer <sup>(1)</sup>	●	—	—
Home Inclusive 2.0	HI SMOKE GREEN	—	●
	HI WILLOW GREEN	—	●
	HI FERN GREEN	—	●
	HI DEEP GREEN	—	●
	HI COMFORT GREY	—	●
	HI WARM STONE	—	●
	HI QUARTZ GREY	—	●
	HI BROWN STONE	—	●
	HI TRULE BLUE	—	●
	HI MARINA HORIZON	—	●
	HI ANTHRACITE	—	●
	HI MODERN GRAPHITE	—	●
	HI MOODY CORAL	—	●
	HI FLAME RED	—	●
	HI MODERN MAROON	—	●
HI DEEP BROWN	—	●	

Tab. 1. The textures and colours of panels without ribs and with high ribs for PRIME door series.

See page 6 for more information.

All doors painted in any RAL palette colour (except colours with pearl, reflection, metallic finish) are coated with half-matt finish coatings.

**Note !** Doors in bright colours are recommended for sunlight sides. Do not install doors in dark colours, especially the following RAL codes: 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, nut brown. Dark colours on sunlight sides cause excessive heating which may result in deformation of door panels. If multiple doors are ordered in the same colour, partial deliveries (lots) may have varying shades.

## Framework / rails

The framework and the rails are made of galvanized steel components, powder coated in RAL 9002. The shape of the rails prevents derailing of the double bearing rollers. The side frames feature seals to which the door leaf is pressed when closed. Doors in the standard version feature suspension brackets powder coated in RAL 9002 that enable the installation of rails up to 400 [mm] from the ceiling.

## Covers / hinges

The panel end covers are made of galvanized steel sheets, powder coated in RAL 9002. Double regulated carriage rollers are set in galvanized steel hinges placed under special covers.

## Additional suspension brackets

If the headroom in the room where the door is installed exceeds 400 mm, additional suspension brackets are required. In the case of rooms with the headroom of over 900 mm, a special reinforcing framework is required. The brackets are available in sets of 4 units and powder coated in RAL 9002.

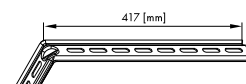


Fig. 3. L-type bracket.

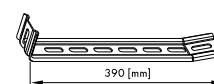


Fig. 4. C-type bracket.

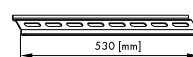
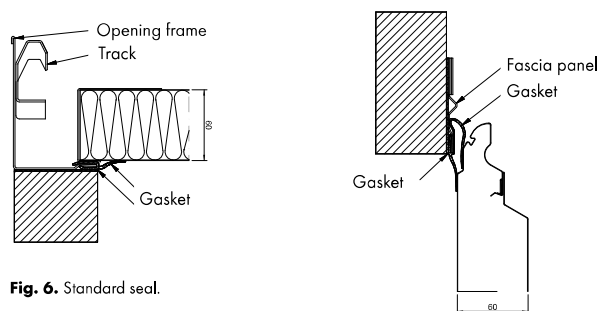


Fig. 5. H-type bracket.

<sup>(1)</sup> - Panels w/o ribs only

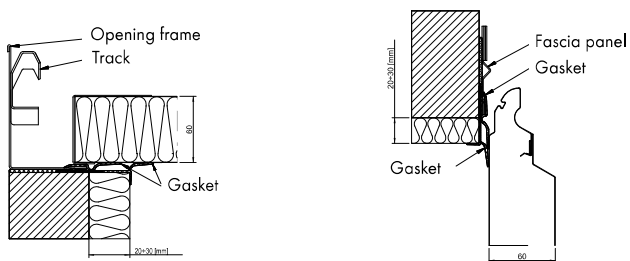
**Circumferential seals**

**Standard seal** – all doors fitted with a lintel fascia panel are fitted with a double-lip top gasket that ensures a proper seal between the door leaf and the lintel, as well as individual side gaskets.

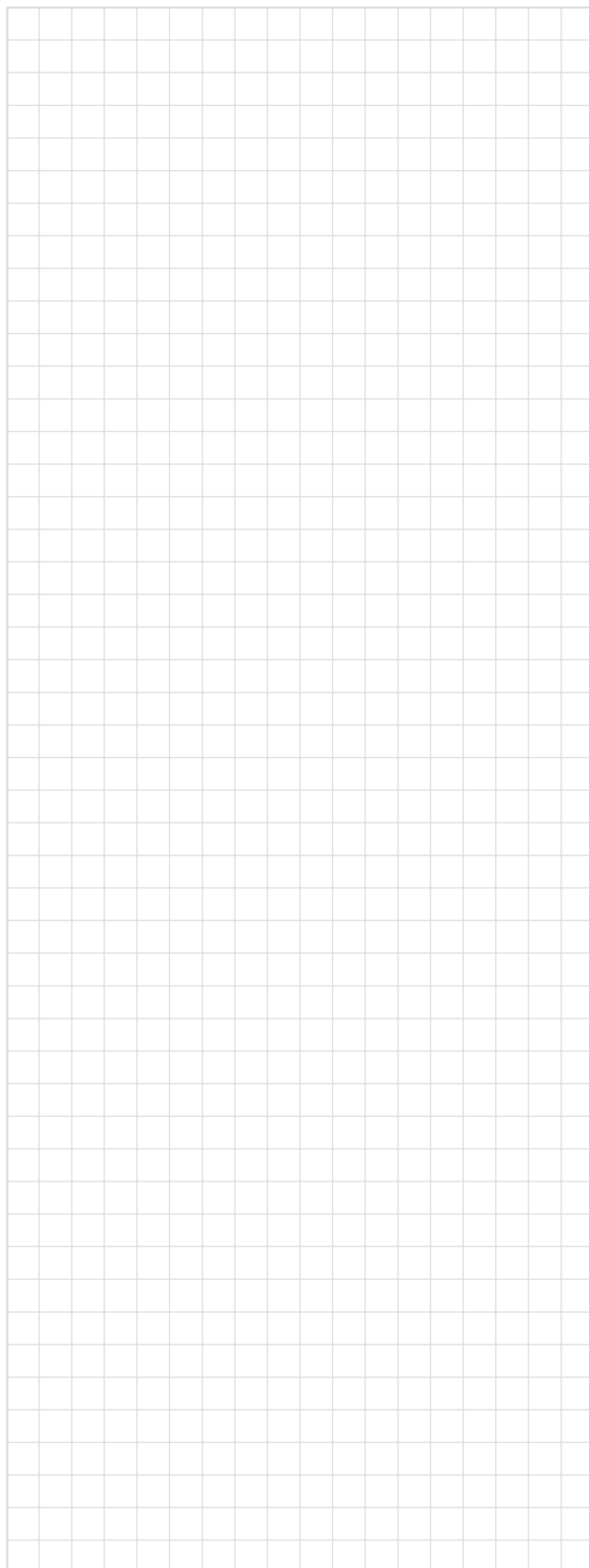


**Fig. 6.** Standard seal.

**Finishing thermal seal** – makes it possible to provide an aesthetic finish of the garage opening thermally insulated with a layer of polystyrene or Styrodur by eliminating the clearance between the thermal insulation layer and the door leaf surface, while at the same time improving the seal of the door.



**Fig. 7.** Finishing thermal seal.



### Standard safety features

- The panels are specially formed at the joints to prevent finger trapping.
  - Safety brake preventing the leaf from sliding down when the suspension cable is damaged.
  - Protection system preventing the door leaf from falling in case of a door's torsion spring break.
  - Optical safety system (photocells and sensors over the vertical covers)
  - Overload protection in the automation.
  - Safety system for mechanical elements:
    - fixed covers for vertical rails,
    - mobile covers for rollers and rails,
    - integral cover for the shaft and torsion springs,
    - side covers for the shaft and torsion springs,
    - flexible internal covers for panel joints, mounted on specially profiled aluminium rails.
- Optionally, the garage door can be fitted with a safety light curtain.

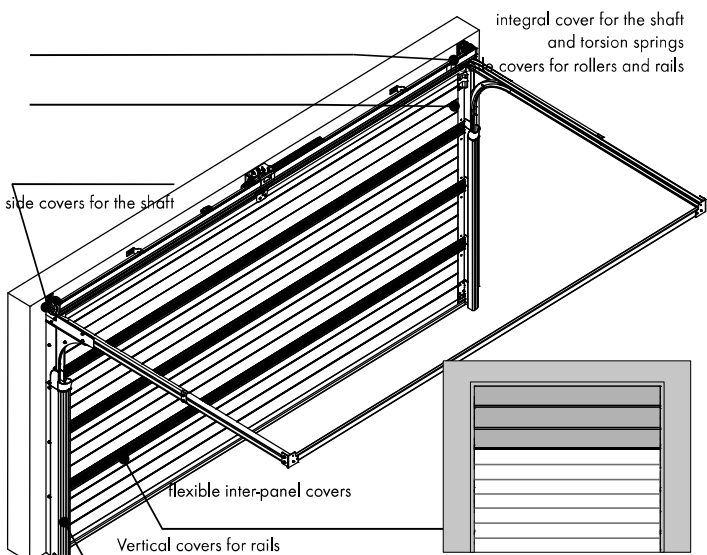


Fig. 8. Safety system for mechanical elements.

Fig. 9. Kurtyna bezpieczeństwa.

### Drive

The PRIME doors are only available in the automatic version with METRO RTS drive (optionally, the io version).

### Extra protection system

The kit includes:

- locking the drive carriage onto the running rail in the closed position provides additional locking and protection against prising the door leaf open,
- backup power supply battery ensures emergency operation of the drive when the main power supply is unavailable.

### Safety barrier

Protects the clear passage in case of uncontrolled door leaf movement when an obstacle is present within the clear passage.

### Decorative motifs

Decorative motif designs are available for the standard PRIME dimensions with a panel without the ribs in smoothgrain, sandgrain, and silkline structure. The components are made of stainless steel with satin finish. They cannot be coated. Vertical alignment. Left or right-hand position.

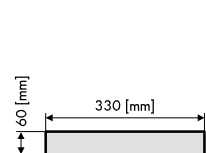


Fig. 10. Type AP-1.

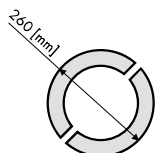


Fig. 11. Type AP-2.

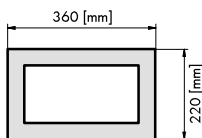


Fig. 12. Type AP-4.

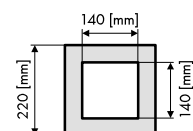


Fig. 13. Type AP-3.

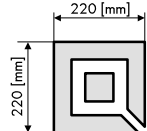


Fig. 14. Type AP-5.

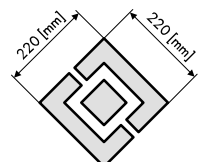


Fig. 15. Type AP-6.

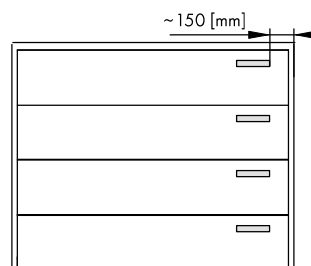


Fig. 16. AP-1 decorative motifs on the door - external view.

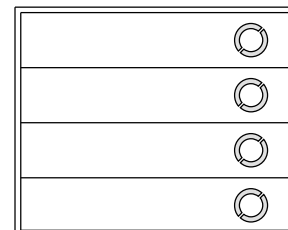


Fig. 17. AP-2 decorative motifs on the door - external view.

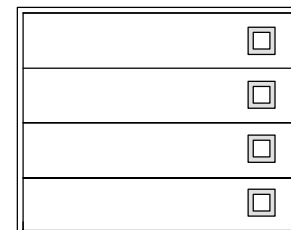


Fig. 18. AP-3 decorative motifs on the door - external view.

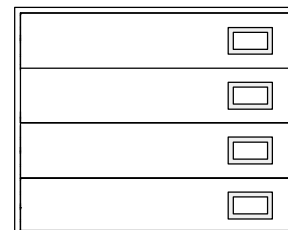


Fig. 19. AP-4 decorative motifs on the door - external view.

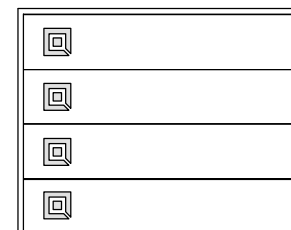


Fig. 20. AP-5 decorative motifs on the door - external view.

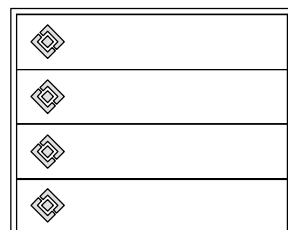


Fig. 21. AP-6 decorative motifs on the door - external view.

**AP-7** – horizontal decorative motifs in stainless steel are installed in ribs and joints on the bottom and middle panels. Available only with the W rib for the top panel. Available for garage doors with the W and G ribs in Silkline (RAL 7016, RAL 9016), Smoothgrain (golden oak, nut brown), and Sandgrain (antracyt) structure.

For garage door widths:

- $2960 \leq S_o \leq 5500$ , two-piece decorative motifs are available,
- $5500 < S_o$  three-piece decorative motifs are available.

The decorative motif pieces on one garage door are joined at the same garage door width. Not available for garage doors with the Alu panel, wicket, and portholes (for the W panel) and for garage doors when matched to the garage doors with a wicket.

### Assembly dimensions

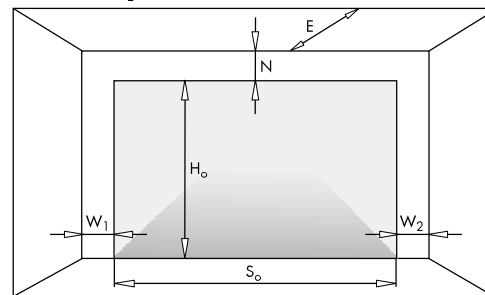


Fig. 22. The assembly dimensions and their marking required for correct selection and assembly of WIŚNIEWSKI sectional garage doors. Minimum door size  $S_o = 2000$  [mm] and  $H_o = 1900$  [mm].

**$S_o$**  - opening width, ordering dimension,

$S_j$  - clear width with the door installed,

**$H_o$**  - opening height, ordering dimension,

$H_j$  - clear height with the door installed,

**N** - required minimum headroom,

$W_1$  - required minimum side room,

$W_2$  - required minimum side room,

**E** - minimum garage depth with free space under the ceiling,

$L_s$  - drive rail length.

	PRIME
<b><math>S_j</math></b>	$S_o - 40$ [mm]
<b><math>H_j</math></b>	$H_o - 100$ [mm]
<b><math>N_{min}</math></b>	200 [mm] <sup>(1)</sup>
<b><math>W_{1min}, W_{2min}</math></b>	160 [mm]
<b><math>E_{min}</math></b>	$L_s + 410$ [mm]
<b><math>L_s</math></b>	METRO 2900 [mm] or 3500 [mm]

<sup>(1)</sup> - For door height of 2200 [mm],  $N_{min}$  is 220 [mm].