

GARAGE DOORS



WIŚNIEWSKI

GATES | WINDOWS | DOORS | FENCES

SECTIONAL DOORS UniTherm

Intended use: The sectional garage door is intended for use in private residential buildings. It was developed in response to the requirements of energy-efficient and passive buildings. The warm INNOVO panel with a thickness of 60 mm and a sealing system makes it possible to save energy. Heat losses have been eliminated even in the most affected areas.

THERMAL INSULATION

The unique design of the INNOVO 60 mm panel ensures a low thermal transmittance factor. 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.

SAFETY

Safety systems focus on minimizing all traces of risk. Regardless of the method of operation, WIŚNIEWSKI doors ensure comfort, safety, and security. Our products are fully compliant with the PN-EN 13241 standard.

FUNCTIONALITY

UniTherm doors are available with three track types. This makes it possible to install them even when installation conditions are limited. A properly selected track type enables you to take advantage of all the benefits that our door has to offer, regardless of whether the door is installed in newly built or refurbished buildings.

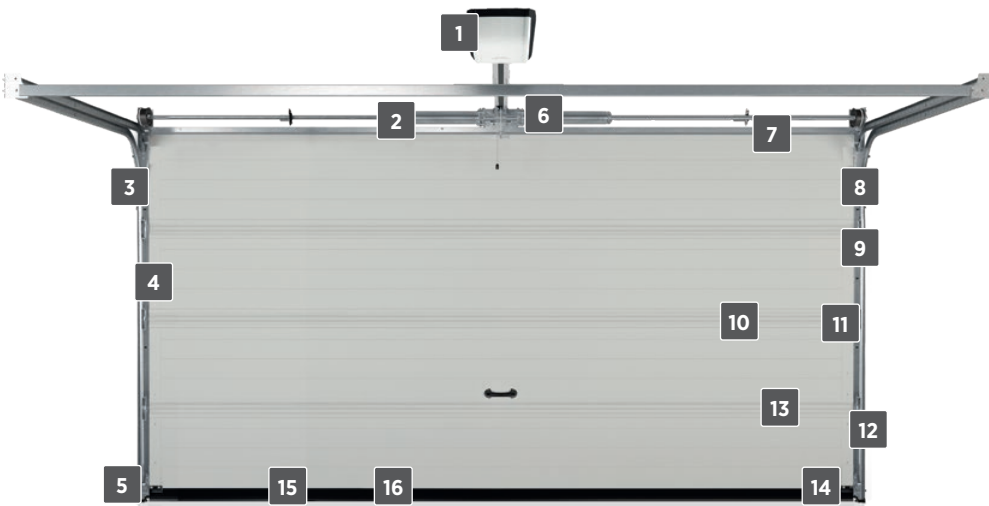


STRUCTURE

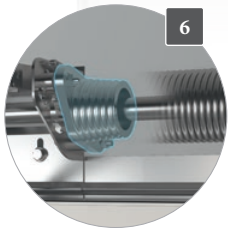
The sectional door is installed behind the opening, it opens vertically upwards, and does not take up any space in the driveway. Sectional doors let you use the space available in front of the door and inside the building to its maximum potential. The load-bearing structure and tracks are made of galvanized steel elements. Optionally, painting in RAL 9002 is available. 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 thanks to the use of a torsion spring system. Springs are preselected with computer precision and guarantee the best balancing of the door, maximum comfort, and safety of use. The INNOVO 60 mm thick panels are designed so as to prevent fingers from being crushed. Another safety element is a panel joint cover system, which also serves as additional sealing and improves the door aesthetics. The door is fitted with double guiding rollers with bearings, which ensure proper guiding of the door leaf, while a dedicated profile of the tracks prevents derailing.

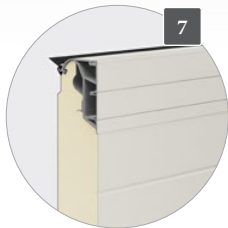
Large dimension gates are additionally reinforced with special elements that increase the rigidity of the entire structure. Additional steel reinforcements come in the panel's interior colour and are terminated with plastic caps. Door panels are coated with high quality polyester paints. This provides 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.



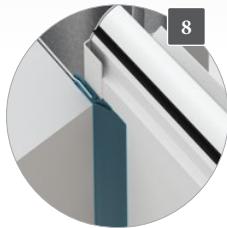
- 1 Automatic operating units**
Proven and reliable METRO Smart io, MOTO io or SPARK drive units.
- 2 Drive shaft and springs**
Spring system responsible for balancing out the door leaf weight. The guaranteed minimum number of cycles: 25,000.
- 3 Tracks and opening frames**
Made of galvanized sheet, 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 Plastic opening frame foot**
Corrosion protection and an additional anchoring point to the garage floor



6 Integrated spring break safety device



7 Additional sealing in the top aluminum profile



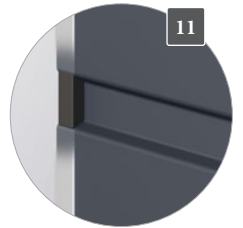
8 Double-lip circumferential seal
Used as standard, it ensures improved sealing of the door.



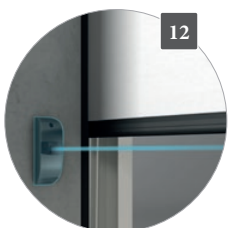
9 Double guiding rollers with bearings
They ensure proper running of the door leaf.



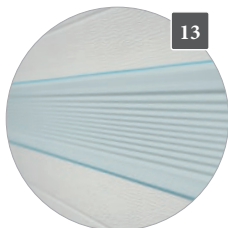
10 Special panel shape
They prevent fingers from being crushed.



11 Rib infill elements
As standard, for even better leaf tightness



12 Photocells
They prevent uncontrolled door leaf operation when an obstacle is present within the clear passage – optional accessory.



13 Flexible panel joint covers
Provide additional sealing and protection, cover the hinges, and elegantly finish off the door leaf.



14 Cable break safety device
Prevents the door leaf from dropping if a cable breaks – standard in all UniTherm doors.



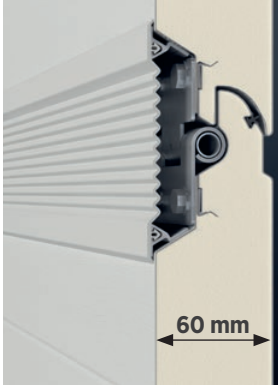
15 Overload safety device
In automatic doors; the door leaf stops and reverses when the bottom edge contacts an obstacle.



16 Double 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.



PANEL STRUCTURE



Robust and reliable design

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. Our purpose-designed original 60 mm thick INNOVO panel which features a **5-ply** sheet bending system is manufactured in-house and ensures good thermal and acoustic insulation, as well as durability and safety. The panel is made of galvanized steel sheet, infilled with freon-free polyurethane foam. The top section is fitted with a lip gasket and a flexible cover is provided on the inside between the panels. The internal side of the panel in the RAL 9002 colour. Panel heat transfer coefficient $U_p=0.33 \text{ W/m}^2\text{K}$.

RIB TYPES



G - without ribs

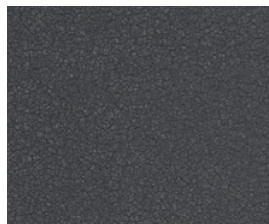


W - high ribs

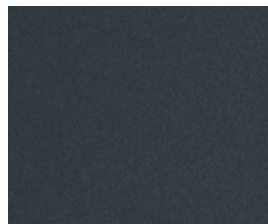
TEXTURES



Smoothgrain



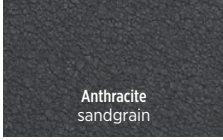

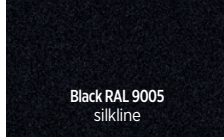





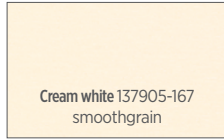
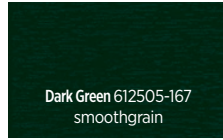
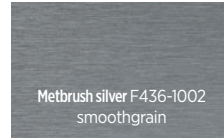


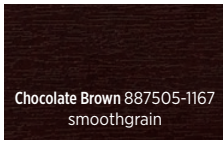
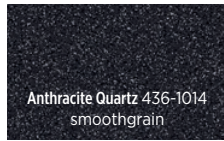
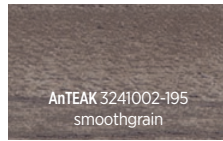
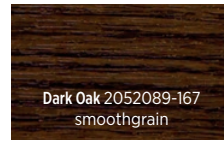
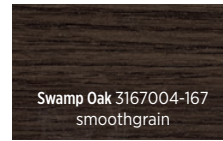
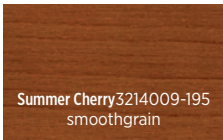
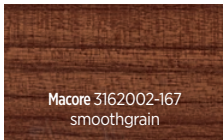
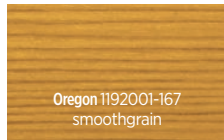
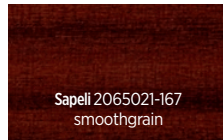
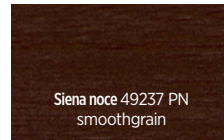
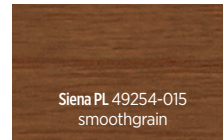
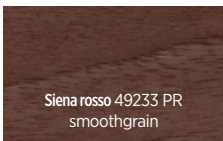
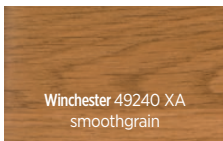
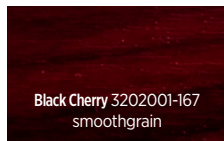
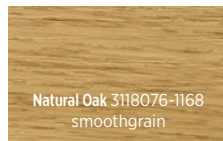
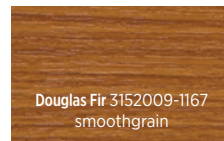
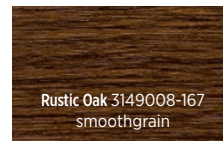
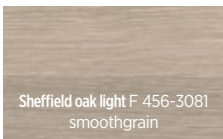

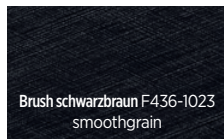
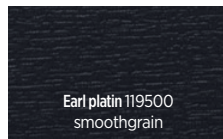

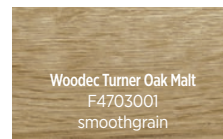
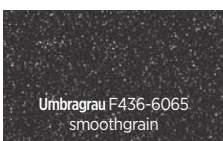

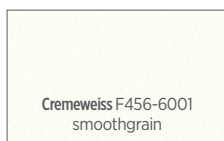
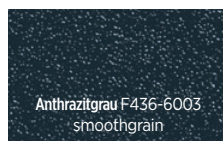


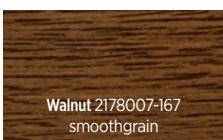
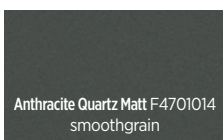
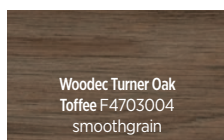
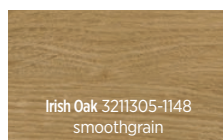

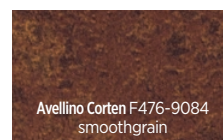
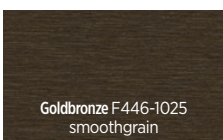
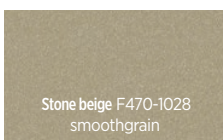
Sandgrain



Silkline

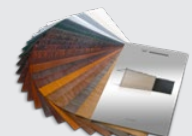


AVAILABLE COLOURS:

| | | | | | |
|--|--|--|---|--|--|
|  Anthracite sandgrain |  Graphite RAL 7016 silkline |  Black RAL 9005 silkline |  Silver RAL 9006 silkline |  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 |  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 light F 456-3081 smoothgrain |  Sheffield oak grey F 436-3086 smoothgrain |  Brush schwarzbraun F436-1023 smoothgrain |  Earl platin 119500 smoothgrain |  Black ultra-mat PX47097 smoothgrain |  Woodec Turner Oak Malt F4703001 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 |  Avellino Corten F476-9084 smoothgrain |
|  Goldbronze F446-1025 smoothgrain |  Stone beige F470-1028 smoothgrain | | | | |



Our paint range includes over 200 colours from the RAL palette.



Film coatings available with garage doors with the panel:
G - without ribs, W - with high ribs



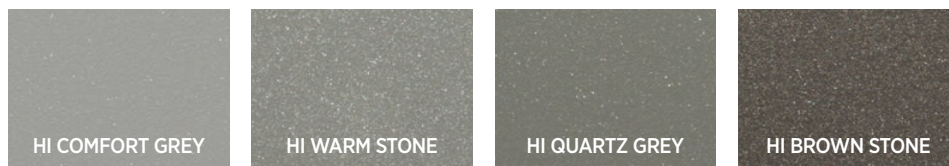
HOME INCLUSIVE 2.0 colours

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



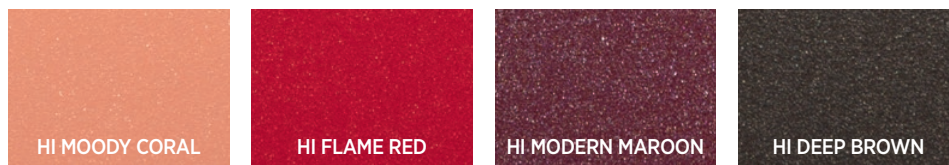
HI STONE



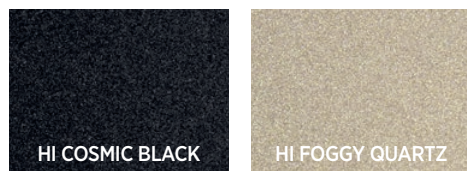
HI STEEL



HI RUBY



Special colours from the HI palette:



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.

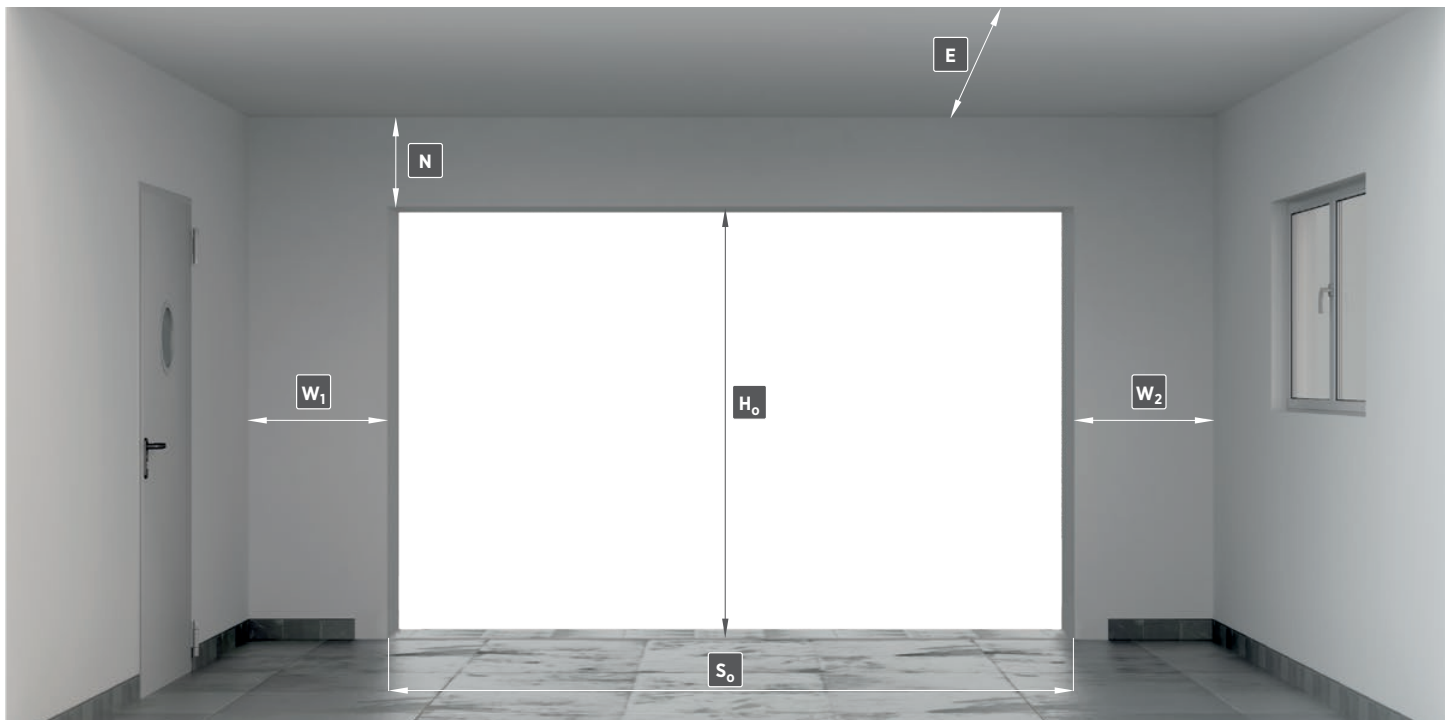


U THERMAL TRANSMITTANCE FACTOR [W/m²K]

| | | 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 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,99 | 0,98 | 0,97 | 0,97 |
| | 2,100 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,98 | 0,97 | 0,97 | 0,96 | 0,95 |
| | 2,125 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,98 | 0,97 | 0,97 | 0,96 | 0,95 | 0,95 |
| | 2,200 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,99 | 0,98 | 0,97 | 0,96 | 0,96 | 0,95 | 0,95 | 0,94 | 0,93 |
| | 2,250 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,96 | 0,95 | 0,95 | 0,94 | 0,94 | 0,93 | 0,92 |
| | 2,375 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,96 | 0,95 | 0,94 | 0,93 | 0,93 | 0,92 | 0,92 | 0,91 | 0,90 |
| | 2,500 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,99 | 0,98 | 0,98 | | |
| | 2,625 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,97 | | | | |
| | 2,750 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,96 | 0,96 | 0,95 | | | | |
| | 2,875 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,98 | 0,97 | 0,96 | 0,95 | 0,95 | 0,94 | 0,93 | | | | |
| | 3,000 | | | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,96 | 0,95 | 0,94 | 0,93 | 0,92 | | | | | |
| | 3,250 | | | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,99 | 0,98 | 0,97 | 0,96 | | | | | | |
| | 3,500 | | | | | 1,0 | 0,99 | 0,97 | 0,96 | 0,95 | | | | | | | | |

U thermal transmittance factor [W/m²K] of the UniTherm sectional doors (INNOVO 60 [mm] panel)
 The thermal transmittance factors are provided for doors without additional circumferential seals.

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:

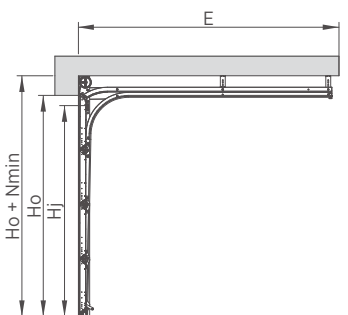
- $S_o = 2000$ [mm] and $H_o = 1800$ [mm] – garage doors type **e** , **w**

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



| | UniTherm | SSp |
|---------------------|----------------------|--|
| Sj | | $S_o - 40$ [mm] |
| Hj | Manual | $H_o - 280$ [mm] |
| | Manual + catcher | $H_o - 140$ [mm] |
| | With the MOTO drive | $H_o - 100$ [mm] |
| | With the METRO drive | $H_o - 100$ [mm] |
| W1min, W2min | | 110 [mm] |
| Emin | 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 $H_o > 2850$ [mm] |
| | With the METRO drive | |
| | 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 $H_o > 2751$ and $H_o \leq 3250$; 4927 [mm] for $H_o > 3251$ [mm] |

Minimum required lintel height

| Standard garage door height [mm] | Nmin [mm] | |
|----------------------------------|-----------|-----------------------------------|
| | Manual | With the MOTO, METRO, SPARK drive |
| 2000 | 200 | 200 |
| 2100 | 200 | 200 |
| 2125 | 200 | 200 |
| 2200 | 220 | 220 |
| 2250 | 200 | 200 |
| 2375 | 200 | 200 |
| 2500 | 200 | 200 |
| Custom garage door height | 200 | 200 |

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.



St tracks

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

Minimum garage door dimensions:

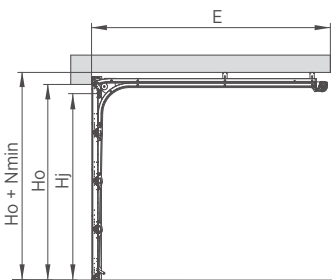
- $S_0 = 2000$ [mm] and $H_0 = 1800$ [mm] - garage doors type **e** , **w**

Available range of dimensions for tracks

| Opening height ⁽¹⁾ (H_0) in [mm] up to | Opening width ⁽¹⁾ (S_0) 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



| UniTherm | | SSt |
|---------------------|----------------------|--|
| Sj | | $S_0 - 40$ [mm] |
| Hj | Manual | $H_0 - 190$ [mm] |
| | Manual + catcher | $H_0 - 140$ [mm] |
| | With the MOTO drive | $H_0 - 140$ [mm] |
| | With the METRO drive | $H_0 - 140$ [mm] |
| W1min, W2min | | 110 [mm] |
| Emin | Manual | $H_0 + 750$ [mm] |
| | With the MOTO drive | $L_S + 300$ |
| | With the METRO drive | $L_S + 410$ |
| | With the SPARK drive | $L_S + 363$ [mm] |
| Ls | With the MOTO drive | 2900 [mm] for $H_0 \leq 2250$; 3500 [mm] for $H_0 > 2250$ and $H_0 \leq 2850$; 4500 [mm] for $H_0 > 2850$ [mm] |
| | With the METRO drive | |
| | With the SPARK drive | 3288 [mm] for $H_0 \leq 2250$; 3831 [mm] for $H_0 > 2250$ and $H_0 \leq 2750$; 4384 [mm] for $H_0 > 2751$ [mm] |

Minimum required lintel height

| Door standard height [mm] | Nmin [mm] | | | |
|------------------------------|-----------|---------------------|---------------------|----------------------|
| | Manual | With the MOTO drive | With the MOTO drive | With the SPARK drive |
| 2000 | 105 | 140 | 140 | 150 |
| 2100 | 105 | 140 | 140 | 150 |
| 2125 | 105 | 140 | 140 | 150 |
| 2200 | 115 | 150 | 150 | 160 |
| 2250 | 105 | 140 | 140 | 150 |
| 2375 | 105 | 140 | 140 | 150 |
| 2500 | 105 | 140 | 140 | 150 |
| Door non-standard height | 105 | 140 | 140 | 150 |

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.



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:

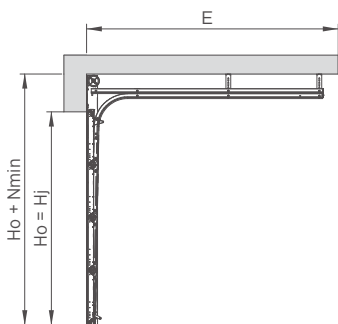
- $S_0 = 2000$ [mm] and $H_0 = 1800$ [mm] - garage doors type **e**, **w**

Available range of dimensions for tracks

| Opening height ⁽¹⁾ (H_0) w [mm] do | Opening width ⁽¹⁾ (S_0) 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 | | | | | | | | | | | | | | | | |
| 3250 | | | | | | | | | | | | | | | | |
| 3500 | | | | | | | | | | | | | | | | |

⁽¹⁾ - Ordering dimension.

Installation dimensions



| | UniTherm | SSj |
|---------------------|----------------------|--|
| Sj | | $S_0 - 40$ [mm] |
| Hj | Manual | — |
| | Manual + catcher | H_0 |
| | With the MOTO drive | H_0 |
| | With the METRO drive | 110 [mm] |
| W1min, W2min | | $H_0 + 400$ [mm] |
| Emin | Manual | $L_s + 300$ [mm] |
| | With the MOTO drive | $L_s + 410$ [mm] |
| | With the METRO drive | $L_s + 363$ [mm] |
| | With the SPARK drive | $L_s + 363$ [mm] |
| Ls | With the MOTO drive | 2900 [mm] for $H_0 \leq 2250$; 3500 [mm] for $H_0 > 2250$ and $H_0 \leq 2850$; 4500 [mm] for $H_0 > 2850$ [mm] |
| | With the METRO drive | |
| | With the SPARK drive | 3288 [mm] for $H_0 \leq 2250$; 3831 [mm] for $H_0 > 2250$ and $H_0 \leq 2750$; 4384 [mm] for $H_0 > 2751$ and $H_0 \leq 3250$; 4927 [mm] for $H_0 > 3251$ [mm] |

Minimum required lintel height

| Door standard height [mm]. | Nmin [mm] | |
|----------------------------|-----------|-----------------------------------|
| | Manual | With the MOTO, METRO, SPARK drive |
| 2000 | 400 | 400 |
| 2100 | 400 | 400 |
| 2125 | 400 | 400 |
| 2200 | 410 | 410 |
| 2250 | 400 | 400 |
| 2375 | 400 | 400 |
| 2500 | 400 | 400 |
| Custom garage door height | 400 | 400 |

S_0 - opening width, ordering dimension. **S_j - clear passage width after garage door installation.** **H_0 - 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.**



OPTIONAL ACCESSORIES

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.

The lock for manually-operated and power-operated UniTherm doors is available as an optional accessory.

A plastic handle with a cover plate type PVC-1 or KL-2 is fitted on the outside of the door leaf. A black plastic handle is installed on the inside. The KL-2 handle is available in the following colours:

- **MAT** – RAL 9005 (black), RAL 9016 (white), RAL 8014 (brown),
- **GLOSS** – RAL 9006 (silver), RAL 1036 (gold), RAL 1035 (pearl beige), RAL 7048 (pearl mouse grey).



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

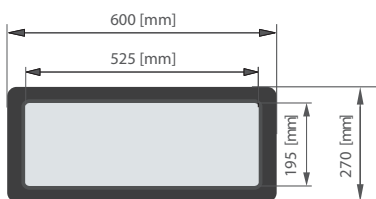


KL-2 handle, colour: RAL 8014

AUTOMATIC DEADBOLTING WITH A LOCK

The set includes: a lock, steel cable, panel handle. The lock with a bolting system can be coupled with a drive unit which automatically deadbolts the door once its closed. This applies only to the UniTherm SSp automatic doors with $S_o \leq 5,500$ [mm].

PORTHOLES/GLAZING



Type A-1 – made of triple, clear acrylic glass, rough frame surface. The external frame is available in RAL 7016, RAL 8003, RAL 8011, RAL 8014, RAL 8017, RAL 9005, 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%.



OPTIONAL ACCESSORIES

DECORATIVE MOTIFS

The decorative motifs are made of stainless steel with a satin finish or powder-coated steel in the RAL 9005 colour. Located vertically on the garage door – on the left or on the right. Available for the typical dimensions of UniTherm doors with a panel without ribs (G).



Type Ap-1



Type Ap-2



Type Ap-3



Type Ap-4



Type Ap-5



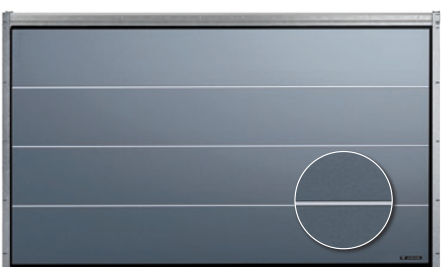
Type Ap-6

Horizontal decorative motifs in stainless steel or copper-clad 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 and in Silkline, Smoothgrain, and Sandgrain structures.

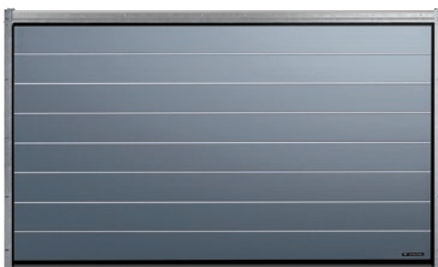
For garage doors with the following widths:

| AP-7 stainless steel | | AP-7 copper-clad steel | |
|----------------------|-------------------------------------|------------------------|-------------------------------------|
| So [mm] | Number of decorative motif elements | So [mm] | Number of decorative motif elements |
| 2,981 - 5,500 | 2 | 2,281 - 4,780 | 2 |
| > 5,501 | 3 | > 4,780 | 3 |

The decorative element pieces on one garage door are joined at the same garage door width. Cannot be used in garage doors when matched to a garage door with a wicket.



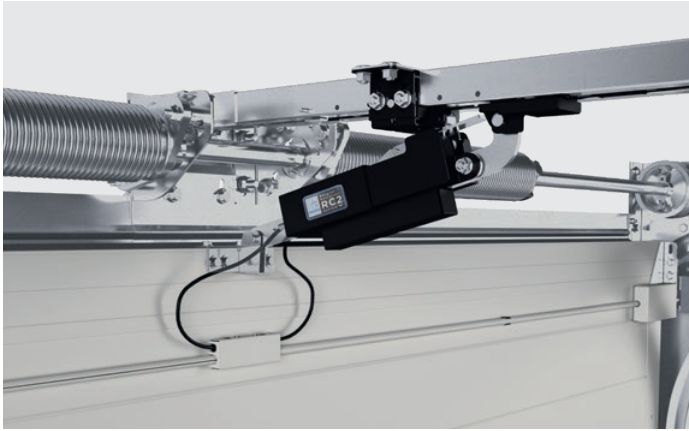
Type Ap-7 in garage doors with panels without ribs



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



RC2 ANTI-BURGLARY KIT



The anti-burglary kit provides an RC2 class burglary protection (confirmed with a certificate issued by the IFT notified body in Rosenheim, Germany).

Available with automatic gates equipped with a METRO or MOTO drive.

The kit includes:

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

TOP PANEL TILT



The kit makes it possible to tilt the top panel without the need to lift the door. 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 and SPARK drive unit:

- UniTherm SSp,
- UniTherm SSt.

The kit includes:

- 2 brackets for garage doors with $S < 4,500$ [mm],
- 4 brackets for garage doors with $S \geq 4,500$ [mm].

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-lasting LED diodes, and compatibility with the METRO Smart io and SPARK drive units (the SPARK automation set additionally includes the RELAY transmitter) ensure everyday convenience.

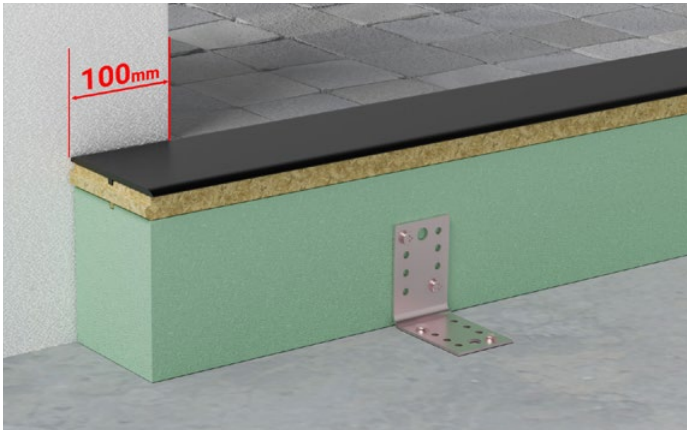
DIFFERENT COLOUR OF THE STRUCTURE AND GUIDES



Option to order painting of the UniTherm door structure in RAL 9002 available. Painted elements: frames, tracks, fascia panel, track connector, suspension bar bracket, safety and shaft bracket, and track corners.



WARM THRESHOLD OF A SECTIONAL GARAGE DOOR

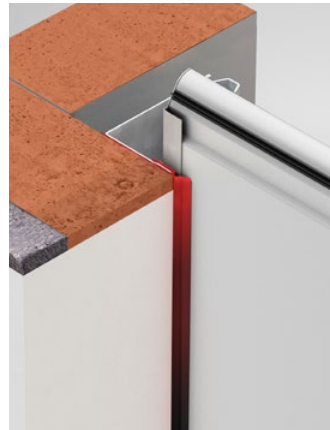


The threshold is made of condensed polyurethane foam, a recycled PET material with a density of 115 kg/m³, and an EPDM gasket. Available in sets consisting of a specific number of thresholds measuring 1,190x220x100 [mm], a gasket, and installation accessories (steel angle bars, anchors, and fixing screws). To install the threshold, installation adhesive, gasket adhesive, and polyurethane foam must be used – they are not included in the sets.

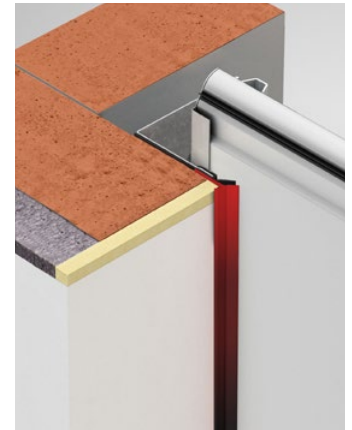
| Width (So) | Set contents |
|-------------------------|--|
| up to 3,370 [mm] | 3 thresholds + gasket 3,600x110x5 [mm] + installation accessories |
| 3371 – 4560 [mm] | 4 thresholds + gasket 4,800x110x5 [mm] + installation accessories |
| 4561 – 5750 [mm] | 5 thresholds + gasket 6,000x110x5 [mm] + installation accessories |
| 5751 – 6000 [mm] | 6 thresholds + gasket 7,200x110x5 [mm] + installation accessories |

Installation behind the opening is recommended; the threshold should extend 100 [mm] behind the wall reveal. In the case of using a warm threshold, the Ho dimension should be reduced by 5 [mm] (height of the gasket) when ordering the garage door.

ADDITIONAL SEALING



Thermal seal



Finishing thermal seal

As standard, the UniTherm doors feature a double-lip perimeter seal. It is possible to equip the UniTherm door with additional **thermal gaskets** that isolate the steel elements of the structure from the wall surface, or with **finishing thermal gaskets** that provide an aesthetic finish for an insulated garage opening by eliminating the gap between the insulation and the door leaf surface – while further improving the door’s sealing performance.



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 allows you to extend the standard warranty for a complete product – an automatic sectional door – up to 5 years, provided it is factory-configured with the METRO Smart io, MOTO io, or SPARK 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 / 1000N | 600N / 800N / 1100N |
| | Power consumption (power-saving mode) | < 0,5 W | < 0,5 W | < 0,5 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 | 5 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⁾⁽³⁾ |
| | Control via the app | TaHoma switch | TaHoma switch | WIŚNIOWSKI Connected |

⁽¹⁾ – standard, wireless Smart Home, TaHoma switch required; ⁽²⁾ – standard, wireless Smart Home based on Wi-Fi, no additional central control unit required; ⁽³⁾ – option for wired Smart Home systems, CONNEX and OUTPUT boards or RELAY transmitter required for full functionality; ⁽⁴⁾ – RELAY transmitter required; * Extra charge.

io-homecontrol is a modern, safe, and reliable radio technology by Somfy, which lets you control your devices compatible with the smart home concept. Thanks to this technology, the drive unit not only receives commands from the controllers, but it can also send feedback. The io-homecontrol technology makes it possible to connect the METRO Smart io and MOTO io drive units to the TaHoma system to provide additional functions, connecting the garage door with smart devices available at home.

WIŚNIOWSKI 868 MHz is a modern SOMloq2 two-way radio system for controlling garage doors and entrance gates. Thanks to this technology, the drive unit not only receives commands from the transmitters, but it can also send feedback. The SPARK automatic operating units were also equipped with a wi-fi module, which makes it possible to control the gate from an application installed on a mobile device, giving the drive unit additional functionality.



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.

WALL-MOUNTED TRANSMITTER AMY 1 io



The single-channel device enables control of the drive unit via the io-homecontrol radio transmission. It features an integrated temperature sensor compatible with the TaHoma ecosystem.

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.

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.

BACKUP POWER SUPPLY BATTERY



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

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.

WIŚNIOWSKI 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.

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.

ENTRAcode+ CODE KEYPAD



Compatible with the WIŚNIOWSKI 868 MHz radio receiver. Control of up to five devices. Power supply: 4 X AA 1.5[V] batteries. IP 54 protection rating. Up to 30 m range. ENTRAcode+ is a wireless device that does not require any wiring and is designed for surface mounting.

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.

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.

RELAY - ADDITIONAL TRANSMITTER



An additional transmitter with the NO/NC output enabling e.g. switching on lights in the garage and external lights or other electrical devices.



GALLERY



UniTherm | Walnut | smoothgrain



UniTherm | RAL 9016 | silkline



TECHNICAL DATA

| | UniTherm |
|--|---|
| Leaf | A panel made of steel sheet galvanized and polyester coated on both sides, infilled with high density PU foam $g=42 \text{ kg/m}^3$ without HCFC. 60 mm thick panel with a 5-ply sheet bending system in the handle installation area. |
| Minimum number of cycles | 25 000 |
| Thermal transmittance factor U of the panel [W/m ² ·K] | 0,33 |
| Watertightness class | 2 in accordance with PN-EN 13241 p.4.4.2 |
| Wind load resistance class | 4 in accordance with PN-EN 13241 p.4.4.3 |
| Air permeability class | 5 in accordance with PN-EN 13241 p.4.4.6 |
| Sound reduction index Rw [dB] without a wicket door / with a wicket door | 24 in accordance with PN-EN ISO 717-1: 2020 |
| Safeguards | Special shape of the panel preventing fingers from getting crushed, safeguard preventing torsion springs from breaking (on each spring). spring break safety device, flexible panel joint covers. Option: photocells. |
| Optional accessories | Various track types, electric drive unit, thermal gaskets, finishing thermal gaskets, decorative motifs, sealing threshold, auxiliary lock, photocells, transmitter, C2, LED lighting under the tracks and track connector, top panel tilt. |
| Maximum width / height of the door [mm] | 6000 / 3500 |
| Available panel rib designs | high ribs, without ribs, |
| Available panel structures | smoothgrain, sandgrain, silkline |
| Available colours: | other RAL, special colours, including wood imitating colours, (film coated panels) |
| Track type | Sp, St, Sj |

CONTROL THE GARAGE DOOR WITH YOUR SMARTPHONE!

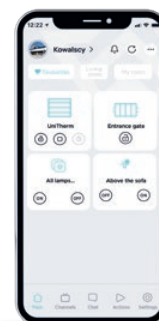
TaHoma – Your smart home

The io-homecontrol® system with radio transmission makes it possible to wirelessly connect the METRO Smart io and MOTO io drive units to the smart home controlled by Somfy's 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. The app gives you constant access to the most important functions of the elements of your home.



The WIŚNIOWSKI Connected app – new quality as standard

When you choose WIŚNIOWSKI Connected, you don't need a smart home central control unit. WIŚNIOWSKI garage doors with the SPARK drive unit are ready to connect as standard – you can connect them to the smart home without any additional devices or extra charges. WIŚNIOWSKI Connected uses Wi-Fi instead of radio transmission and the app allows you to control the garage door from almost any place in the world.



Let us inspire you!
See other solutions from WIŚNIOWSKI!



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