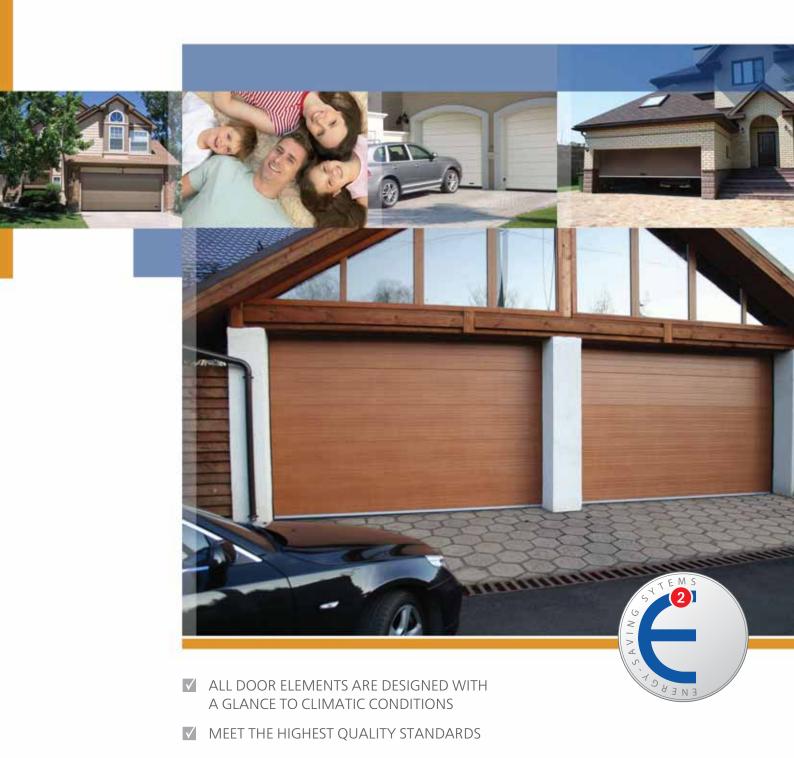


GARAGE SECTIONAL DOORS AND ENTRANCE DOORS



In the following you will find description of the DoorHan sectional door series.



DoorHan



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SEVEN BENEFITS FOR YOU



DoorHan sectional door is a perfect solution if you look both for comfort and safety at door operation. The DoorHan company offers high quality product, that will make for eye appeal of your garage.



BENEFITS FOR YOU



ENERGY-SAVING DOORS

Conducted by the Building Physics Institute tests proved the highest energy-saving characteristics of DoorHan sectional doors. Our doors keep heat inside the premise in cold season and they keep comfort temperature when it is hot outside.



SERVICEABILITY AND COMFORT

DoorHan automatic sectional doors are provided with remote control. You can open or close your garage just pushing the key and staying in your car. You are always protected against wind, rain and snow.



INDIVIDUAL APPEARANCE OF YOU GARAGE

Due to many design options, offered by the DoorHan company, your will find the most suitable garage design for your house. A wide colour box and wide range of accessories enable unique appearance of your door.



SPACE SAVING

Having installed the DoorHan sectional doors you get more space for parking manoeuvring, because while opening the door moves up to the ceiling.



RELIABILITY AND DURABILITY

DoorHan many years' experience ensures reliability of the products, designed and produced in compliance with current standards and state-of-the-art technology.



YOUR SAFETY

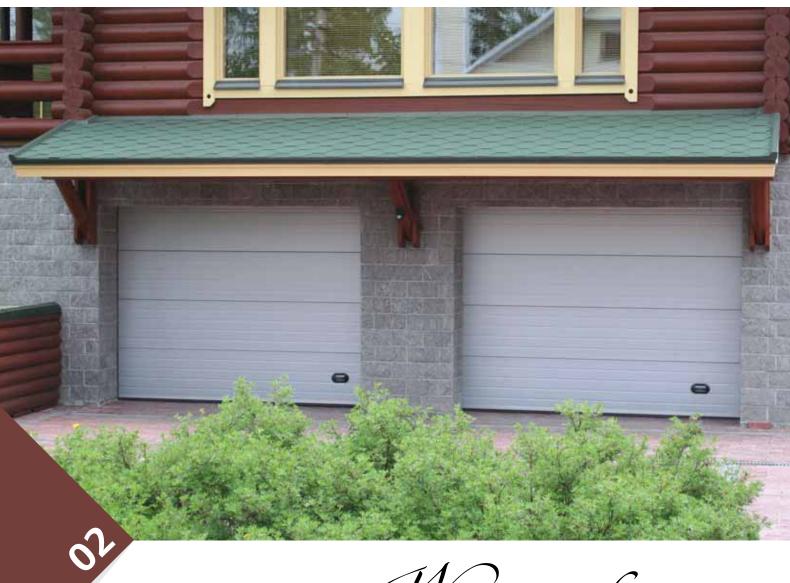
The DoorHan sectional doors are equipped with multistage safety system to increase protection of your garage against breaking-in and to prevent the door leaf collapse.



THE SHORTEST ORDER TIME

Specialists of the DoorHan company do their best at all stages of work: from order processing to after sale servicing. As a result the doors are installed in the shortest possible time and can serve for many years.

STANDARD RIBS PANEL



Me care for you





Stucco



Woodgrain surface



Standard ribs sandwich panel is a classic panel design that suits perfectly any architectural building and makes for eye appeal of your garage.

Door dimensions:

Width up to 5000 mm Height up to 3000 mm

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.









(SECTION ABOUT ENTRANCE DOORS SEE P.20)

Maple Brown Cherry Walnut Golden oak Green oak RAL9003 RAL8014 RAL5005 RAL6005 RAL3005 RAL9006 RAL1000 RAL7004 beige gray

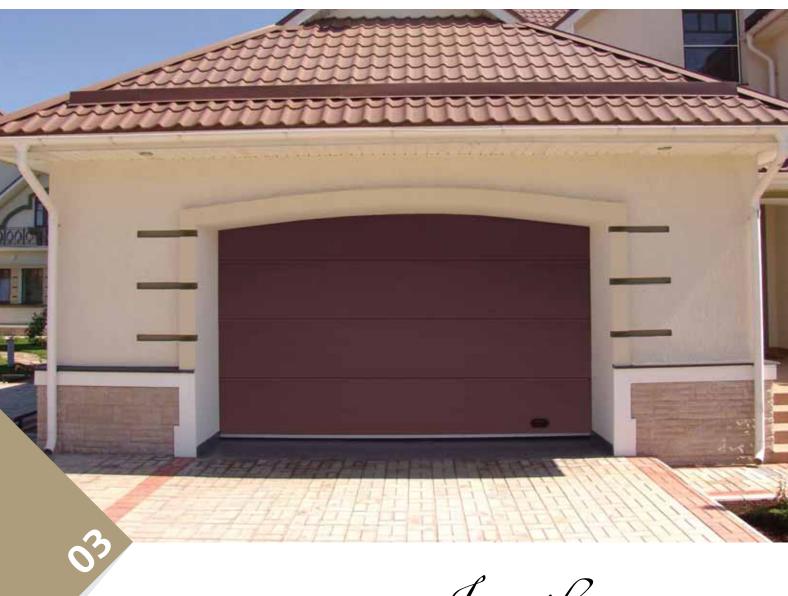
Benefit



Design of the DoorHan sectional doors is adopted to meet climatic conditions, that is why they do not freeze in cold season and are able to keep the garage microclimate.

The main function of the sectional doors is protective function (protection against dust, noise and draughts). In order to provide proper insulation of your garage a multichamber contour system is positioned along the door leaf perimeter.

SMOOTH SURFACE





Smoot Stucco Woodgrain surface surface surface Smooth panel doors look especially elegant and appealing.

Door dimensions:

Width up to 5000 mm Height up to 3000 mm

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.







Maple Brown Walnut Golden oak Green oak RAL9003 RAL8014 RAL5005 RAL6005 RAL3005 RAL9006 RAL1000 RAL7004 white dark-blue green claret silver beige

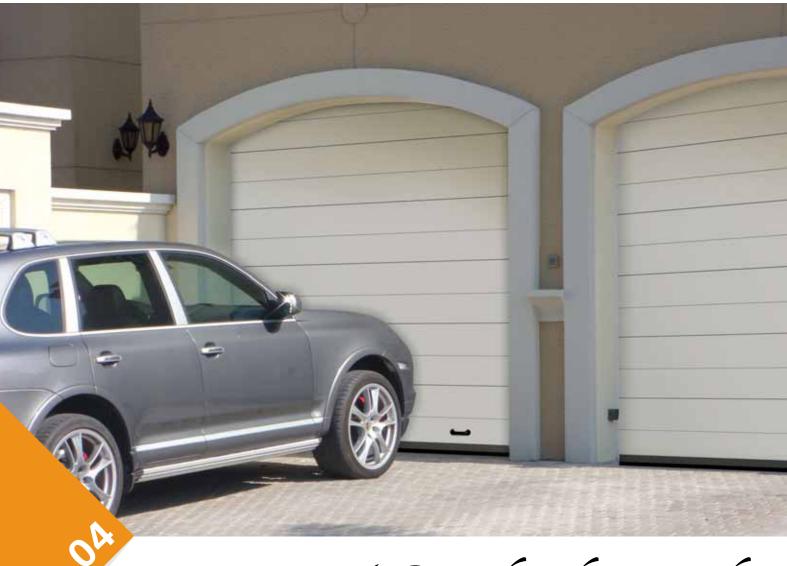
Benefit



By production of the doors DoorHan uses only ecologically friendly materials.

Today every person has to keep clean both its own house and yard and the environment. That is why the DoorHan company take care not only about quality but also about ecological purity of their products. The DoorHan doors are reliable and easy-to-use due to application of current technology materials for their production. Surface of the DoorHan sectional doors is easy to clean using water with no need in any detergents.

PANEL WITH CENTRAL RIB



(Warmth philosophy)



surface



surface





Woodgrain surface



The panel with central rib forms monolithic door leaf appearance and gives solidity and modern aspect to the door.

Door dimensions:

Width up to 5000 mm Height up to 3000 mm

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.





Benefit



white

brown

Nowadays we pay special attention to safety. The DoorHan door is an easy-to-use and safe construction even when heavy operated. It is provided with safety devices to secure long and safe operation of the door. The DoorHan doors are equipped with reliable locks to prevent unapproved opening of the door.

beige

gray

RAL9003 RAL8014 RAL5005 RAL6005 RAL3005 RAL9006 RAL1000 RAL7004

claret

silver

dark-blue green



Simplicity and style







surface



Woodgrain surface



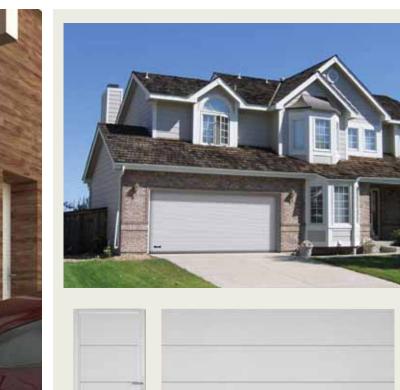
Micro profiling panel is an ideal solution for those who set much by simple and laconis design. Your door will have strict and elegant appearance.

Door dimensions:

Width up to 5000 мм Height up to 3000 мм

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.













Benefit



The DoorHan company cares about its customers. We are ready to care for your door. Our specialists will advise you on any question by telephone and in case of need the specialist will be on site at the earliest possible date.

We have service centers throughout the country and we are able to carry out quick after sale servicing of our products. If you need any help to operate our products you can contact our specialists.



(Ne feel your rhythm







Stucco surface





Cassette panel is a perfect solution to emphasize your status and social position.

Door dimensions:

Width up to 5000 mm Height up to 3000 mm

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.



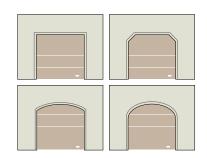








Benefit



Due to special design of the DoorHan garage sectional door, they do not require strict opening geometry. The seal system allows to close up clearances between the door leaf and the opening, thus it improves heat insulation of the premise. That's why the DoorHan sectional doors can be installed into the opening of any type: rectangular one, one with beveled edges, one with roundish top or an arch.



Panel with aluminum facing is a new product of the company DoorHan. It allows to decorate your garage doors with geometric patterns using the special aluminium profiles with refined design.

Door dimensions:

Width up to 5000 mm Height up to 3000 mm



At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.



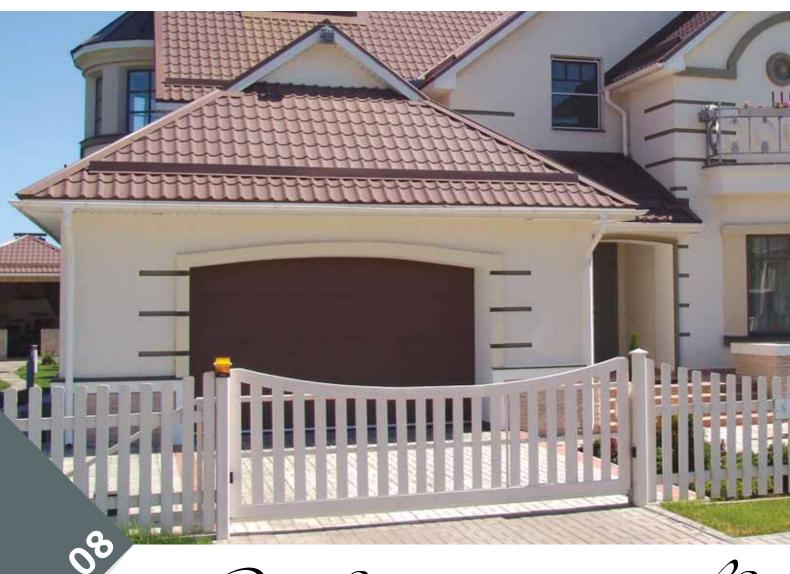


Benefit

We all aspire to beauty and individuality. Due to the panels with aluminium facing which are offered by the company DoorHan, you will have the door with exclusive design. In our new panels with aluminium facing we realized new technologies and materials, and their design exceeds any other panels as to energy-saving.

The panels keep heat almost at any weather.

Use of the panels with aluminium facing increases the door resistance against the breaking in. If you choose the panel with aluminium facing you choose the recent design trends.



Quality at a reasonable price

At do it your self door series the standart ribs, central ribs and cassette panels are used. The panel with simple and fine design suits any building and makes for its new and elegant appearance.

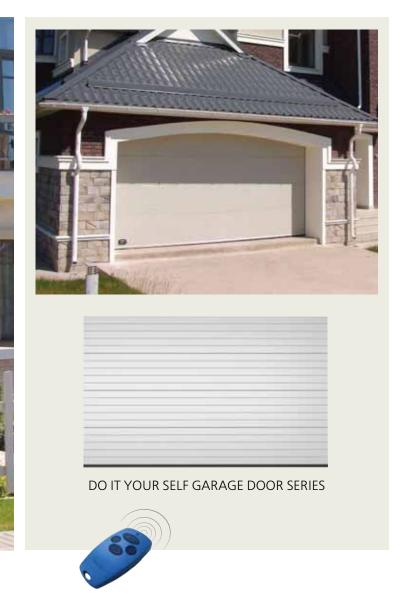


Stucco

Door dimensions:

Width up to 3000 мм Height up to 2585 мм







RAL9003 white

Golden oak

While printing out colour errors are possible, please use the original RAL-

Do it your self

Do it your self sectional door series are the modern garage doors, which you can install on your own, thus you will save on mounting. The door leaf of do it your self doors consists of the sandwich panels designed with a glance of cold season. Mounting of do it yourself doors by two people who are not professionals, using regular household tools takes only 4 hours. The purchased door component set you can bring home on you car.

ENTRANCE AND GARAGE DOOR

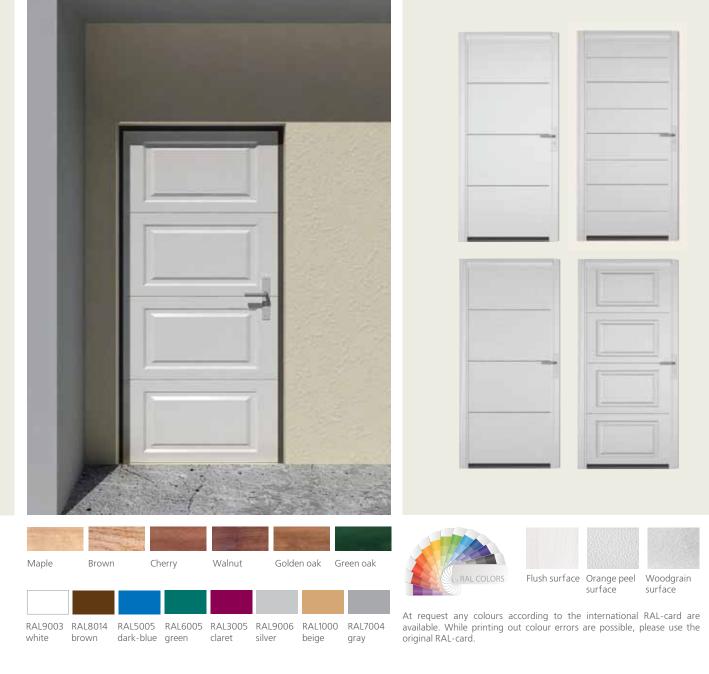


Fineness of lines

Benefit

By designing and production of our entrance doors we use current technologies and that guarantees high quality and reliability of our products. You can choose entrance doors of various design. Our doors made of ecologically pure materials. The DoorHan entrance doors present high-technology and high quality solution for you and your house.

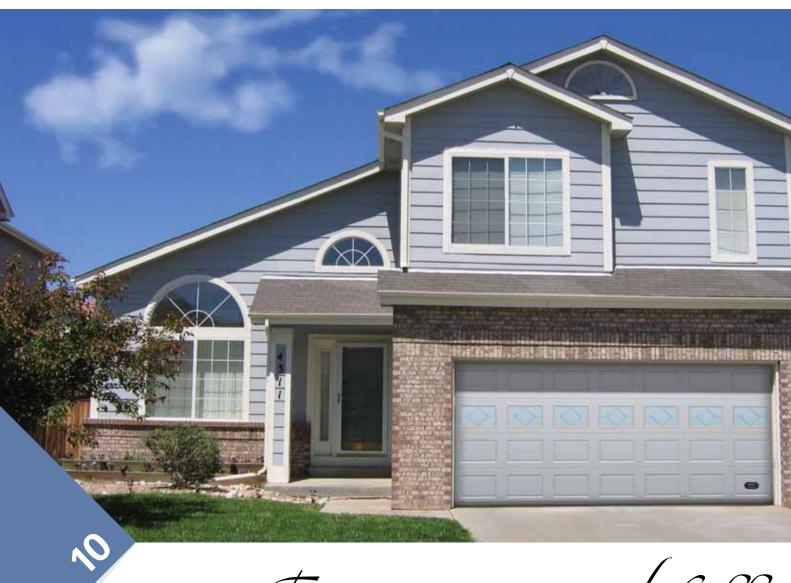




Garage pass door DoorHan is a modern design solution. It is made of aluminium profiles and sandwich panels and that's why it possesses all characteristics of sectional door.

Benefit

The pass door will keep its imposing appearance due to the materials they are made of. A single DoorHan door suits any facade, emphasizes the owner's status and gives elegance. You can choose any of standard designs with sandwich panels: cassette, smooth, micro profiling, with central rib, standart ribs or order an exclusive design to find the solution that will suit your garage design perfectly.



Easy-to-use and full

Window

You garage will have natural lighting due to the windows DoorHan. The windows have shockproof glazing. You can select the windows with decorative metal cross-shaped or rhombus-shaped inserts of goldish colour.

Window types

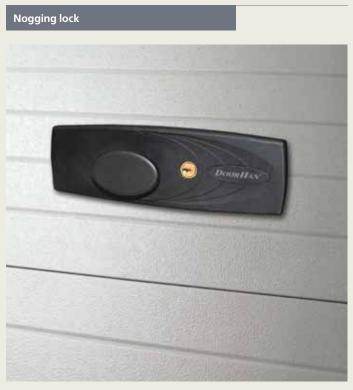


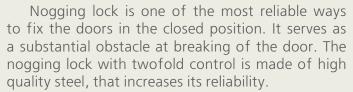




















Handles

All sectional doors DoorHan are equipped with special handles, which allow to open the doors by hand. Nice design of the handle makes for eye appeal of the doors. Due to ergonomic shape of the handle it is very easy to open the doors.

Standard window colours



RAL9003 white

RAL8014 brown

At request any colours according to the international RAL-card are available. While printing out colour errors are possible, please use the original RAL-card.



Pass door

Through the DoorHan built-in pass door you will get into the garage without opening the doors. Due to the improved construction and specially designed aluminum profile system, our pass door is very reliable. To ensure proper impermeability of the pass door we use double system of seals.

Pass door width:
Pass door height:
Minimum shield height:
Minimum distance from
the opening edge
to the pass door:

Footstep height:

800 mm 1800 mm или 1900 mm 2130 mm

1000 mm (assymetrically built-in pass door) 75 mm (without seal)











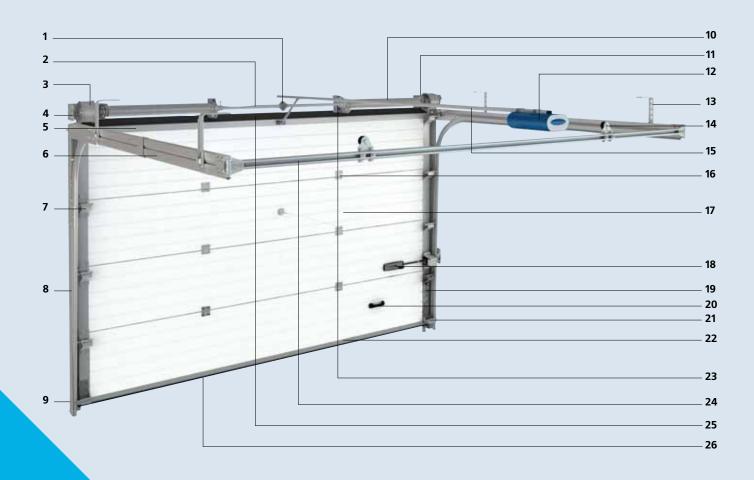


Mechanical lock with handle and door closer

To prevent unapproved entering through the pass door, it has a reliable mechanical lock with nice handle. A standard door component set of the pass door includes the sliding truck for door closer.

The pass door footstep has high strength (due to steel galvanized reinforcement), at that its height is only 75 mm.

DESIGN AND SAFETY CONCEPT





Construction of sectional doors

- 1. Coupler
- 2. Shaft
- 3. Drums
- 4. End U-shaped support bracket
- 5. Top profile
- 6. Tracks for door leaf
- 7. Adjustable bracket with rollers
- 8. Vertical angles
- 9. Bottom cap
- 10. Torsion spring mechanism
- 11. Spring failure safety device
- 12. Operator DoorHan SE-750
- 13. System of horizontal track fastening to the ceiling
- 14. Special restriction devices

- 15. Track for operator
- 16. Hinges
- 17. Door leaf made of sandwich panels
- 18. Lock
- 19. Side cap
- 20. Handle
- 21. Bottom bracket with cable break safety device
- 22. Bottom profile
- 23. Multipurpose internal support bracket
- 24. C-profile
- 25. Top seal
- 26. Bottom seal





Safety devices

Cable break safety device is installed on the door leaf and serves as a bottom bracket. In case of cable break it snaps into action and prevents downfall of the door.

Spring failure safety device disables the shaft to avoid downfall of the door leaf.

The safety device prevents finger pinching between the roller and the track.

Finger safe device



Technical characteristics	RSD02 and Assemble yourself series
Reduced heat transfer resistance	1.13 m ² °C/W
Sound insulation	24 Db
Wind load	5 class (200 km/h)
Air impermeability	2 class (air pressure 50 Pascal)
Water impermeability	1 class (air pressure 30 Pascal)
Lift force	up to 22.5 kg
Combustibility group	Γ2 as per State Standard (GOST) 30244-94
Combustibility group	B2 as per State Standard (GOST) 30244-94
Door leaf weight	11.2 kg/m²



Comfort is above all

Benefit

Automatic electric operator DoorHan of Sectional series is ideal for sectional door automation, you can open and close the doors staying in your car using a remote control.

Drive housing has modern and stylish design and is equipped with built-in lamp to lighten the garage.







Model	Se-750	Se-1200	
Supply voltage	220 V,	220 V, 50 Hz	
Maximum required power	150 V	400 V	
Force	750 N	1200 N	
Door speed	8.4 m/mn	11 m/mn	
Protection class	IP	IP 20	
Intensity	50	1%	
Temperature range	-20	+55°C	
Maximum embrasure height	2800 mm	3800 mm	
Maximum embrasure area	10 m ²	16 m ²	





The remote controllers DoorHan are used to control automatics DoorHan or any other device that is connected to the reciever DoorHan. One remote controller can cover from 1 to 4 different devices.

Release

In case if there is no other entrance into your garage and the power supply is off you can open the doors manually using the release to unblock the operator.



The operator is easy to assemble with a guide and to fix it on the ceiling. The doors are opened through the chain-drive.



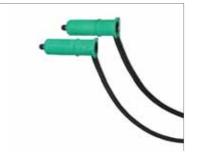
Photocells

Photocells are installed in the garage opening, in case if there is a restriction in the working zone the door leaf stops or reverses.

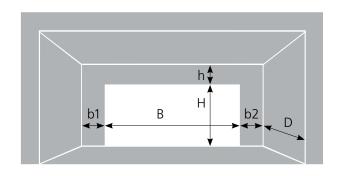


Optoelectronic safety sensors

The optoelectronic safety sensors are two infrared safety sensors (reciever and transmitter) positioned in the sectional door bottom seal. In case of coming across a restriction the doors stop, rise and give the way.



GARAGE DOORS RSD02 SERIES



DIMENSIONS

- **H** opening height (distance from the floor to the opening top);
- **B** opening width (distance from the left edge of the opening to its right edge);
- **h** intel (distance from the opening top to the ceiling) not less than 150 mm (for low lift drum behind);
- **b1** and **b2** distances from the opening edge to the side internal wall should not exceed 130 mm;
- **D** garage depth (distance from the opening edge to the internal garage wall) more than H+500 mm.

TABLE OF PERMISSIBLE DIMENSIONS FOR DOORS RSD02 SERIES

If door leaf width If door leaf If door leaf width If door leaf width is up to exceeds 3500 width is up to exceeds 4500 mm mm a protruding 3500 mm a 4500 mm light reinforced kitting light handle is handle is used kitting is used. and omega profile used (article (article DH25131) are installed. DH25130) 2900 2800 Installation if 2700 the built-in wicket is 2600 possible only 2500 if door leaf 2400 height exceeds 2130 mm. 2300 2200 2130 2100 2000 1900

1800

2100

2300

2600 2700 2800 2900 3100

3300

3600

4000

4600

4900



STANDARD COMPONENT SET

- spring mechanism rated for 25,000 door opening/closing cycles.
- track system
- door leaf
- bottom brackets with fine adjustment of the cable
- rubber bumpers or spring bumpers (according to the selected construction)
- handle
- catch
- capronic cord for door closing
- set of technical documentation
- spring failure safety device

OPTIONS

- lock
- windows 452x302 mm
- pass door with door closer (min. door leaf height is 2130 mm)
- cable break safety device
- automatics
- outside release for electric operator (fastened to the lock handle)
- universal PVC handle&footstep

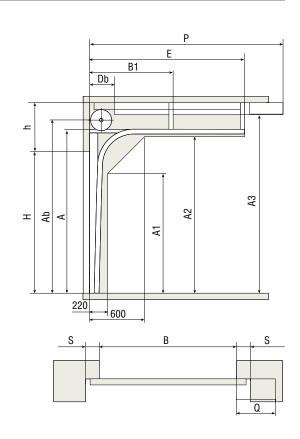
PACKING

Door leaf panels are packed in foam plastic to secure 100% protection of the item at transportation. Surface of the panels is covered with protective stretch film to avoid scratching when mounting.

Track profiles and components are boxed in carton and wrapped with polyethylene film.

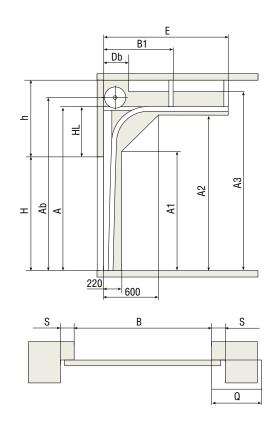
LIFT TYPES OF SECTIONAL DOORS

Standard lift			
Parameter	Description	Design formula	
H, mm	Opening height	Н	
h, mm	Lintel height	R381h ≥ 410 R305h ≥ 350	
B, mm	Opening width	В	
A, mm	Vertical track height	R381 A = H+235 R305 A = H+165	
Ab, mm	Shaft axis height and drum height	A+86 (if H>5500:+156)	
A1, mm	Bounding dimension of the door working space in front of vertical tracks	A-500	
A2, mm	Bounding dimension of the door working space in front of horizontal tracks	A-110	
A3, mm	Bounding dimension of the door working space (with drive or without drive for shaft)	A+150	
E, mm	Horizontal track length	H+270	
B1, mm	Position data of via point for track fastening to the ceiling	E/2	
Db, mm	Torsion mechanism operation space	According to the opening size and the shield weight	
S, mm	Minimum side space	120	
Q, mm	Shaft drive position zone	240	
P, mm	Ceiling operator position zone	H+1060	

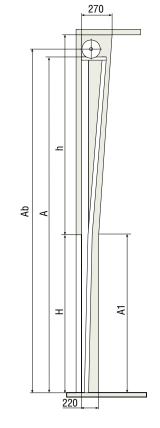


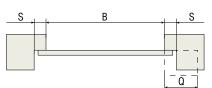
TECHNICAL CHARACTERISTICS

Hign lift		
Parameter	Description	Design formula
H, mm	Opening height	Н
h, mm	Lintel height	h > 600
B, mm	Opening width	В
HL, mm	Distance from the horizontal track level to the opening	≤ h-250
A, mm	Vertical track height	H+HL
Ab, mm	Shaft axis height and drum height	A+86
A1, mm	Bounding dimension of the door working space in front of vertical tracks	A-500
A2, mm	Bounding dimension of the door working space in front of horizontal tracks	A-110
A3, mm	Bounding dimension of the door working space (with drive or without drive for shaft)	A+120
E, mm	Horizontal track length	H-HL+350
B1, mm	Position data of via point for track fastening to the ceiling	E/2
Db, mm	Torsion mechanism operation space	According to the opening size and the shield weight
S, mm	Minimum side space	120
Q, mm	Zone of the drive position on the shaft	240



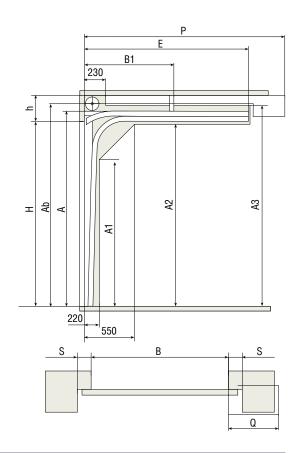
Vertical lift			
Parameter	Description	Design formula	
H, mm	Opening height	Н	
h, mm	Lintel height	>H+580	
B, mm	Opening width	В	
A, mm	Vertical track height	2H+250	
Ab, mm	Shaft axis height and drum height	A+166	
A1, mm	Bounding dimension of the door working space in front of vertical tracks	Н	
S, mm	Minimum side space	120	
Q, mm	Zone of the operator position on the shaft	240	





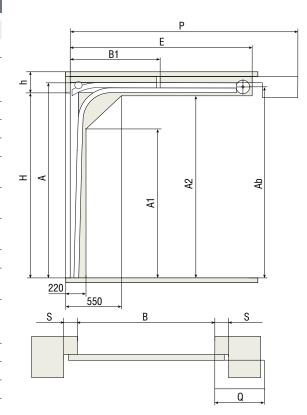


Low lift w	ith drum front	
Parameter	Description	Design formula
H, mm	Opening height	Н
h, mm	Lintel height	h ≥ 230
B, mm	Opening width	В
A, mm	Vertical track height	H+110
Ab, mm	Shaft axis height and drum height	A+86
A1, mm	Bounding dimension of the door working space in front of vertical tracks	A-470
A2, mm	Bounding dimension of the door working space in front of horizontal tracks	A-120
A3, mm	Bounding dimension of the door working space (with drive or without drive for shaft)	A+70
E, mm	Horizontal track length	H+300
B1, mm	Position data of via point for track fastening to the ceiling	E/2
Db, mm	Torsion mechanism operation space	According to the opening size and the shield weight
S, mm	Minimum side space	120
Q, mm	Zone of the operator on shaft position	240
P, mm	Zone of ceiling operator position	H+1185



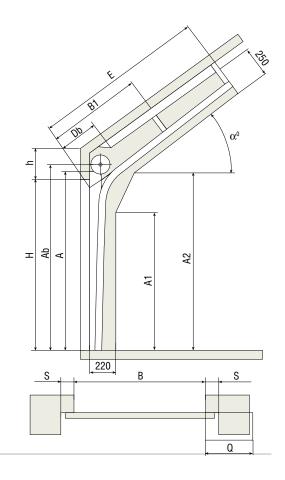
Low lift with drum from behind

Parameter	Description	Design formula
H, mm	Opening height	Н
h, mm	Lintel height	Without ceiling operator - 150, with ceiling shaft - 200
B, mm	Opening width	В
A, mm	Vertical track height	H+110
Ab, mm	Shaft axis height and drum height	H+55
A1, mm	Bounding dimension of the door working space in front of vertical tracks	H-360
A2, mm	Bounding dimension of the door working space in front of horizontal tracks	H-10
A3, mm	Bounding dimension of the door working space (with drive or without drive for shaft)	H+180
E, mm	Horizontal track length	H+400
B1, mm	Position data of via point for track fastening to the ceiling	E/2
Db, мм	Torsion mechanism operation space	According to the opening size and the shield weight
Ѕ, мм	Minimum side space	120
Q, мм	Shaft operator position zone	360
Р, мм	Ceiling operator position zone	H+1185

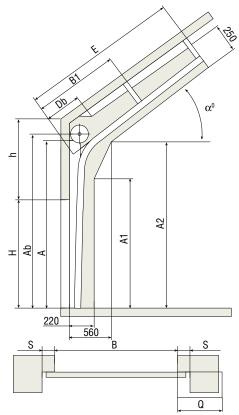


TECHNICAL CHARACTERISTICS

Standard inclined lift				
Parameter	Description	Design formula		
Н, мм	Opening height	Н		
h, мм	Lintel height	500 1500 (depends on α°)		
В, мм	Opening width	В		
А, мм	Vertical angle height	H+(250 990)		
Ab, мм	Shaft axis height and drum height	A+86		
А1, мм	Bounding dimension of the door working space in front of vertical tracks	H-270		
А2, мм	Bounding dimension of the door working space in front of horizontal tracks	H-110		
Е, мм	Bounding dimension of the working area into the garage (depth)	H+(250+1000)		
В1, мм	Position data of via point for track fastening to the ceiling	E/2		
Db, мм	Torsion mechanism operation space	According to the opening size and the shield weight		
S, MM	Minimum side space	120		
α_0	Track inclined angle with respect to the horizontal	≤360		
Р, мм	Zone of ceiling operator position	240		

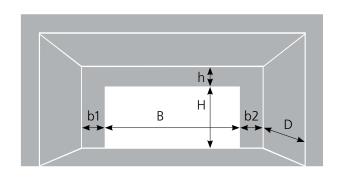


High inclined lift			
Parameter	Description	Design formula	
H, mm	Opening height	Н	
h, mm	Lintel height	HL+(20+1260)	
B, mm	Opening width	В	
A, mm	Vertical angle height	H+HL+(250 990)	
Ab, mm	Shaft axis height and drum height	A+86	
A1, mm	Bounding dimension of the door working space in front of vertical tracks	H-270	
A2, mm	Bounding dimension of the door working space in front of horizontal tracks	H-110	
E, mm	Bounding dimension of the working area into the garage (depth)	H-HL+(250+1000)	
B1, mm	Position data of via point for track fastening to the ceiling	E/2	
Db, mm	Torsion mechanism working space	According to the opening size and the shield weight	
S, mm	Minimum side space	120	
$\alpha^{\scriptscriptstyle 0}$	Track incline angle with respect to the horizontal	≤ 65	
Q, mm	Zone of shaft operator position	240	





DO IT YOUR SELF GARAGE DOOR SERIES



DIMENSIONS

- **H** opening height (distance from the floor to the opening top);
- **B** opening width (distance from the left edge of the opening to its right edge);
- **h** lintel (distance from the opening top to the ceiling) not less than 150 mm (for low lift drum behind);

b1 and **b2** - distances from the opening edge to the side internal wall should not exceed 130 mm; **D** - garage depth (distance from the opening edge to the internal garage wall) - more than H+500 mm.

DOOR SET PARAMETERS

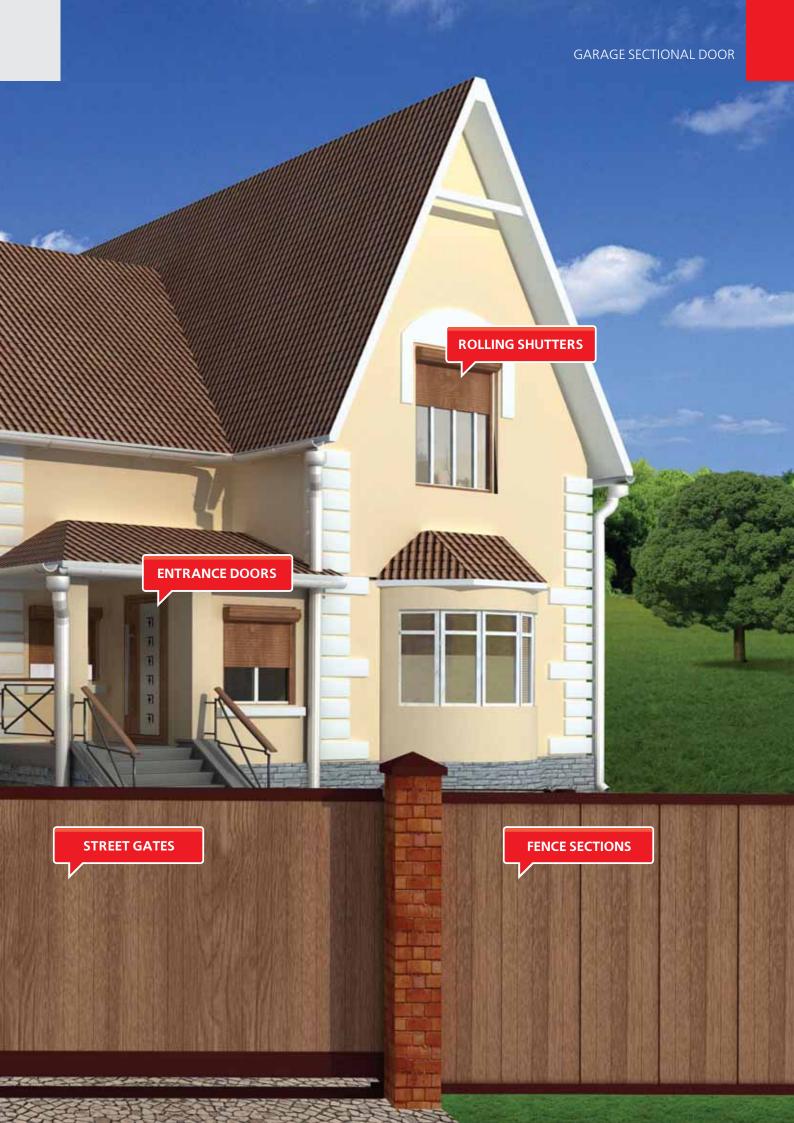
Set No	opening width, mm	opening height, mm	spring D x d x L	amount of turns	panel set
1	2000-2500	2010	67 x 7 x 1015	7.4	475 475 475 575
2	2000-2500	2110	67 x 7 x 1015	7.7	475 575 575 475
3	2000-2500	2220	67 x 7 x 1015	8	575 575 575 475
4	2000-2500	2380	67 x 7 x 979	8.5	475 475 475 475 475
5	2000-2500	2480	67 x 7 x 979	8.9	475 475 475 475 575
6	3000-2500	2010	67 x 7 x 875	7.4	475 475 575 575
7	3000-2500	2110	67 x 7 x 875	7.7	475 575 575 575
8	3000-2500	2220	67 x 7 x 875	8	575 575 575 575
9	3000-2500	2380	67 x 7,5 x 1170	8.5	475 475 475 475 575
10	3000-2500	2480	67 x 7,5 x 1170	8.9	475 475 475 575 575

STANDARD COMPONENT SET

- Spring mechanism rated for 25,000 door opening /closing cycles
- track system
- door leaf
- rubber bumpers
- handle
- lock for garage doors
- · installing manual for door assembly and mounting

GOING BEYOND THE LIMITS





NOTES

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NETWORK OF WAREHOUSES



DOORHAN

- Door systems
- Roller shutter systems
- ✓ Warehouse systems
- Aluminium systems
- ▼ Fire door systems
- Automatics systems
- Hangar sliding door systems

CONTACTS:

tel.: +7 (495) 933-2400 e-mail: info@doorhan.com www.doorhan.com