

INTERNATIONAL  
CONCERN

<sup>®</sup>  
**DOORHAN**



**INDUSTRIAL SECTIONAL DOORS**



➤ DoorHan industrial sectional doors are designed specifically for operation in a variety of industrial buildings comprising warehouses, workshops, transport terminals and any facilities with smooth flow of materials requirements. To ensure long-term operation without failures, they have increased strength characteristics due to their sturdiness. DoorHan sectional doors can be equipped with safety systems. Resistant to corrosion are able to withstand the effects of aggressive environments. DoorHan industrial doors are reliable, and have fulfilled in many years the quality expectancy of the most demanding customers.



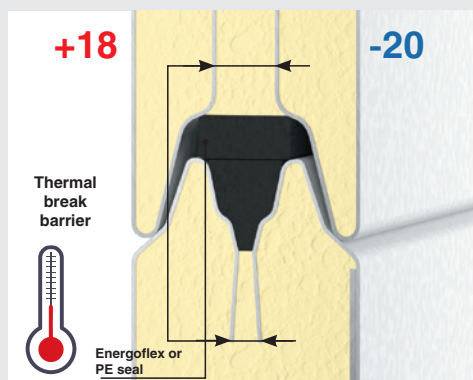


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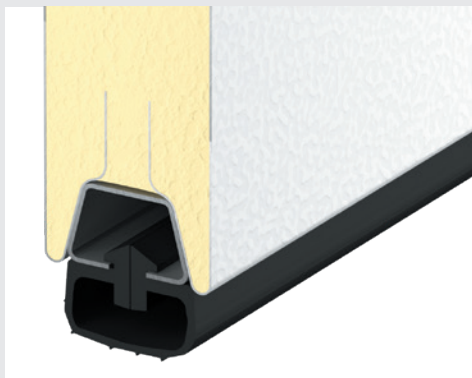
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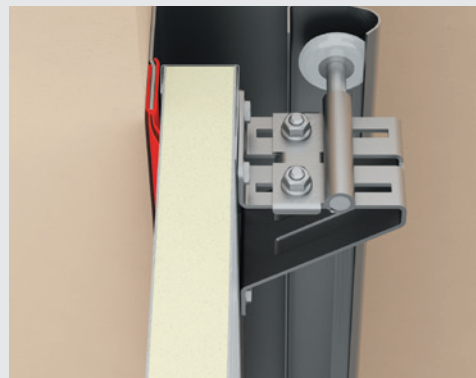
### High energy-saving characteristics



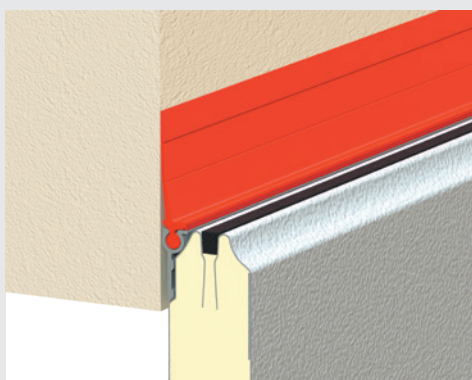
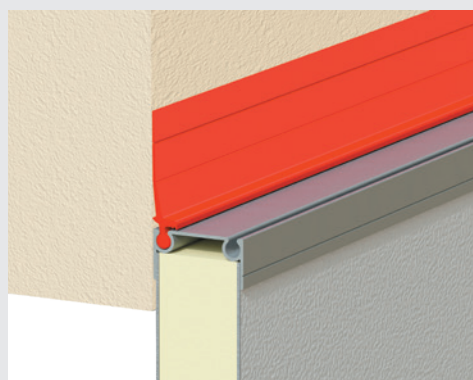
**Thermal break barrier**  
Front and back steel sheets are not connected to each other, as a result heat or cold transmission is minimized. Ideal in cold storage application.



**Bottom weather seal**  
Bottom weather seal fitted on the bottom aluminium profile (the embedded profile for door width up to 4750 mm).



**Side weather seal**  
Effective side seals fitted on the vertical mounting angles of the door ensure a tight overlap of both sides of the door panel. In conjunction with the top and bottom seals they form a perfect perimeter sealing protecting against drafts, wind and rain water. The perimeter sealing has effective noise reduction properties.



**Top weather seal**  
Top weather seal fitted on the top aluminium profile.

### Design



**Paint to any colour**



**Powder coated springs**




**Exclusive accessories**



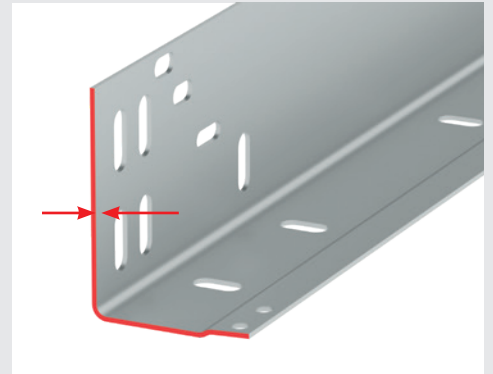
## Durability




 Zink-coated double roller carrier for big doors




 Sturdy design of panels




 Thickness of profiles 2 mm

## Convenience




 Space-saving

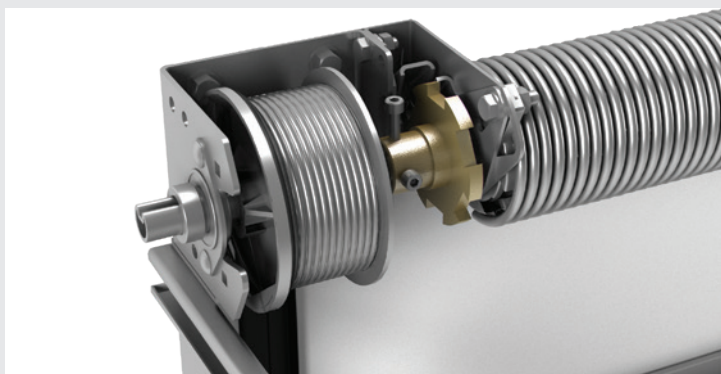



 Optional windows and pass doors

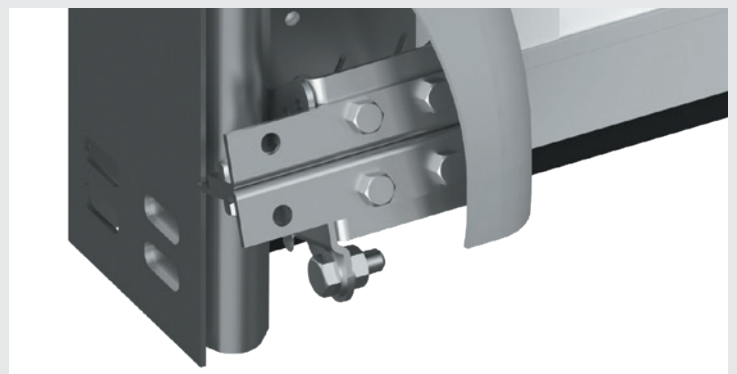


 Automatic operation

## Safety



 Spring break safety device

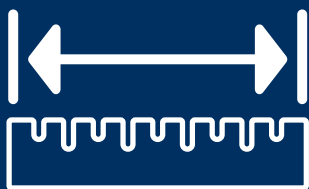


 Cable break safety device

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## SECTIONAL DOORS SERIES

### ISD01



WIDTH:  
2000–8000 MM



HEIGHT:  
2000–8000 MM





- Production: according to customer's opening size.
- Advantages: sturdy panels, safety features, ease of installation, panels with thermal break, perimeter sealing.
- Torsion spring mechanism: painted springs designed for minimum 25 000 cycles operation.







 D-line



 S-line  
(Standard design for Inside surface)

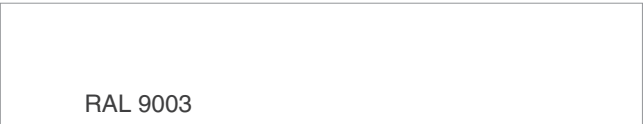







 V-line



 M-line



	RAL 9003
	RAL 9006
	RAL 7004
	RAL 1014
	RAL 6005
	RAL 5005
	RAL 7016
	RAL 3000
	RAL 3005
	RAL 8017
	RAL 8014
	Woodgrain
	Stucco (Standard design for Inside texture)

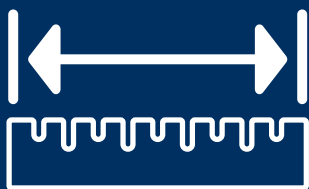


It's possible to have doors painted according to any national or international colour within the Colorbond or RAL range. The colours in this catalogue may be distorted because of printing. Please refer to the original colour chart when ordering your door.

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## FULL VISION SECTIONAL DOORS SERIES

### ISD02



WIDTH:  
2000–5900 MM



HEIGHT:  
2000–6000 MM





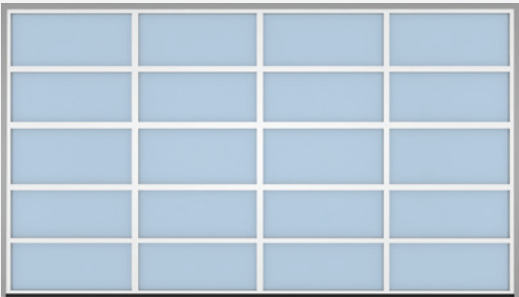
- Production: according to customer's opening size.
- Advantages: maximum internal and external visibility; modern design; corrosion resistant; possibility to mix full vision and sandwich panels.
- Torsion spring mechanism: painted springs and minimum 25000 cycles operation.




# Types of panoramic panels


TECHNICAL SPECIFICATIONS	
Wind load	2 class (EN12424:2000)
Water proof	3 class (EN12425:2000)
Weight of door leaf	17 kg/m²

## Design of panoramic panels



 **Standard vision**  
Doors with standard vision.

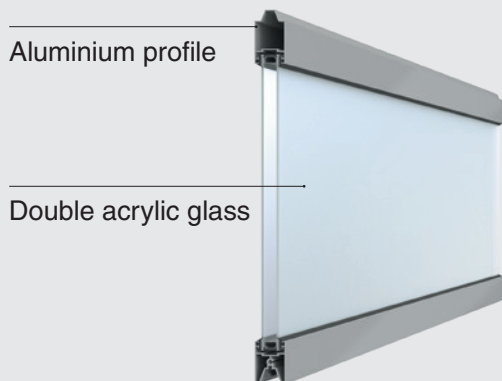



 **Full vision**  
Doors with full vision (up to 3 190 mm).

## Materials for panoramic panel


TECHNICAL SPECIFICATIONS	ACRYLIC GLAZING
Thickness of each acrylic glass, mm	3
Weight, kg/m³	3.28
Light transmission TD65, %	80
Heat insulation, m²·C/W	0.20






 **Panoramic panel** with double acrylic glass and beading details.



 **Mix of panoramic and insulated panels**  
Bottom insulated panels offer additional rigidity.



 **Acrylic glass**

RAL 9003

RAL 9006

RAL 7004

RAL 1014

RAL 6005

RAL 5005

RAL 7016

RAL 3000

RAL 3005

RAL 8017

RAL 8014

Woodgrain

Stucco (Standard design for Inside texture of sandwich panel)

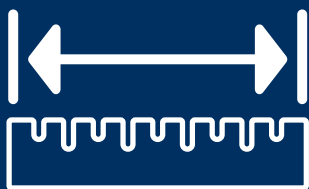


It's possible to have doors painted according to any national or international colour within the Colorbond or RAL range. The colours in this catalogue may be distorted because of printing. Please refer to the original colour chart when ordering your door.

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## SECTIONAL DOORS SERIES

### ISD03



WIDTH:  
2 000–10 000 MM



HEIGHT:  
2 000–9 500 MM





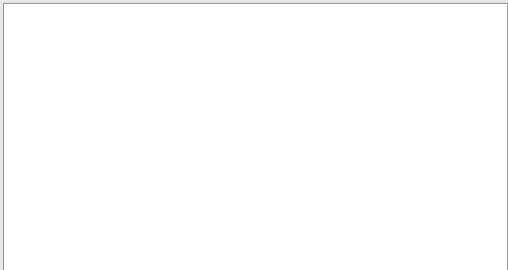
- Production: according to customer's opening size.
- Advantages: aluminium panels, stainless steel door components, doors are reinforced inside with a horizontal aluminium strut for resistance to wind load.
- Torsion spring mechanism: painted springs designed for minimum 25 000 cycles operation.



# Aluminium panel design



S-line



RAL 9003 (white)



Stucco

# Standard design



Strong aluminium reinforcement profile (door width more than 3 500mm) for best wind resistance.



The door shield hardware is made of stainless steel (side supports, upper brackets, hinges, screws and rivets)



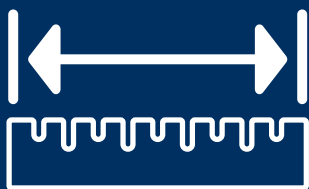




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## INDUSTRIAL SECTIONAL DOORS

### ISD01 SLP



WIDTH:  
2000–10 000 MM



HEIGHT:  
2000–6000 MM

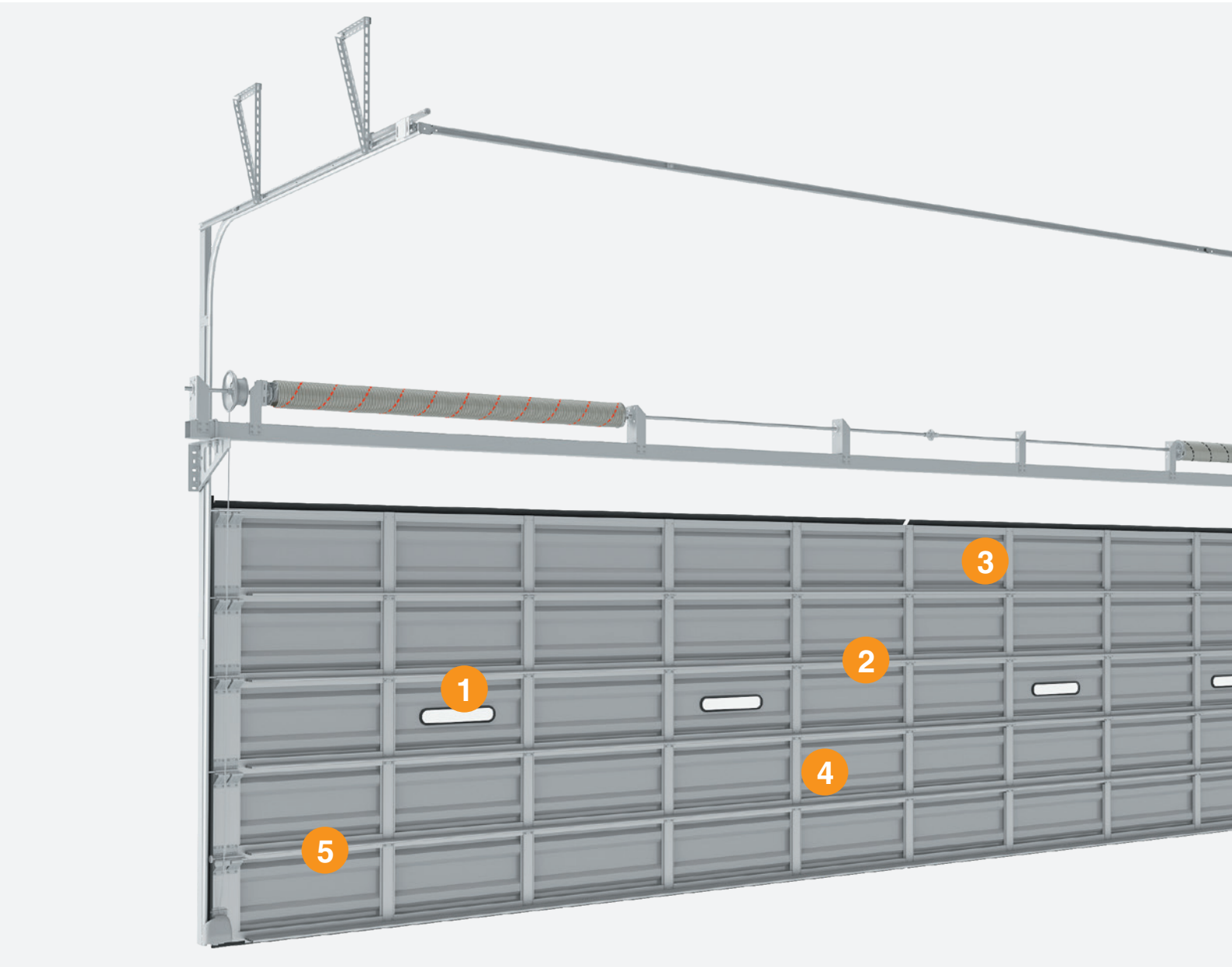




- Advantages: extra wide door, save installation cost and time, single sheet panels with aluminium profiles, vertical and horizontal reinforcements for better wind load resistance. Single sheet panels material can be chosen between 0.4mm steel and 0.6mm aluminium.
- Torsion spring mechanism: painted springs designed for minimum 25 000 cycles operation.



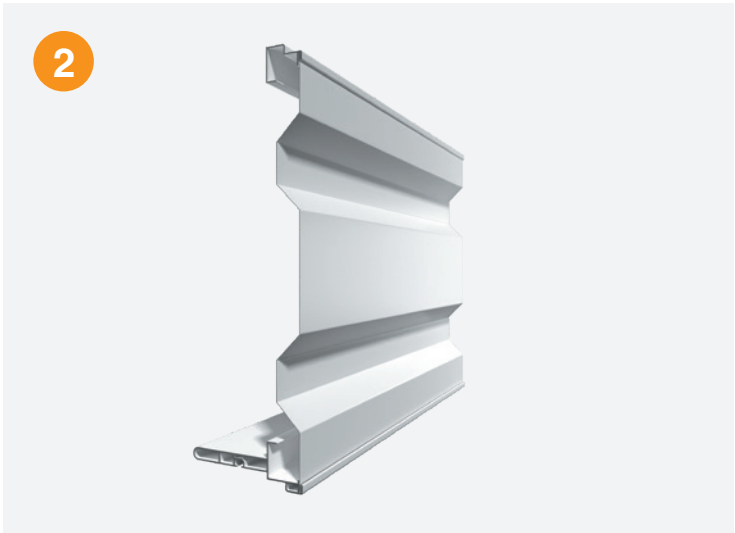




View from the inside

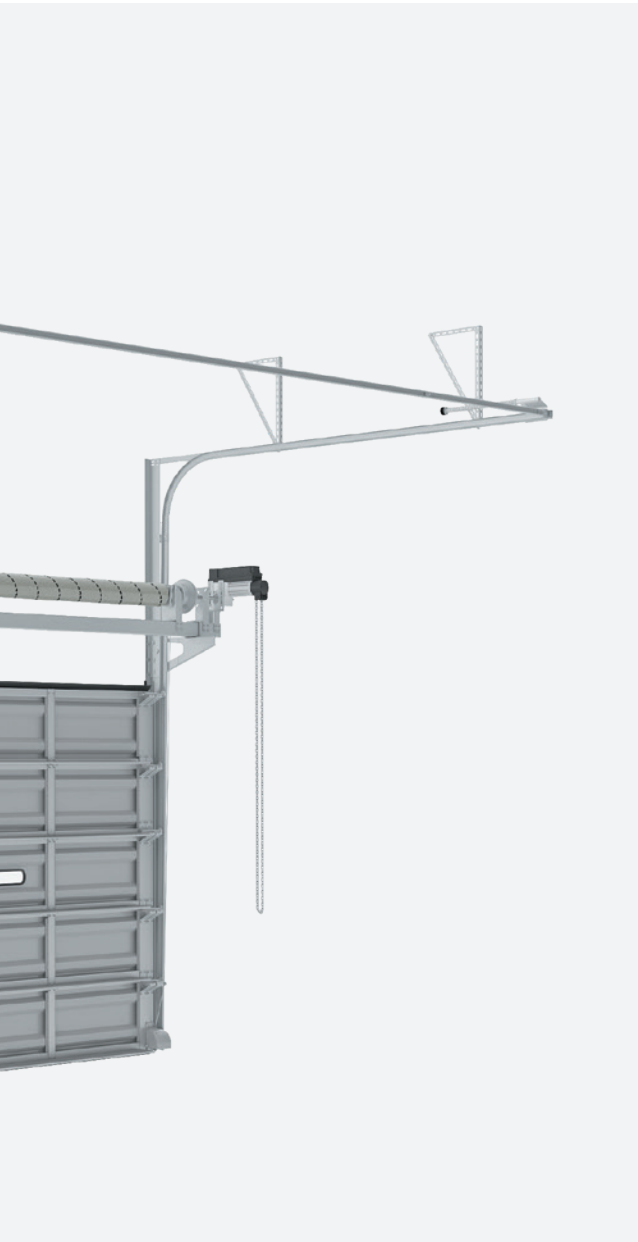


Single glass window: 505 × 90 mm

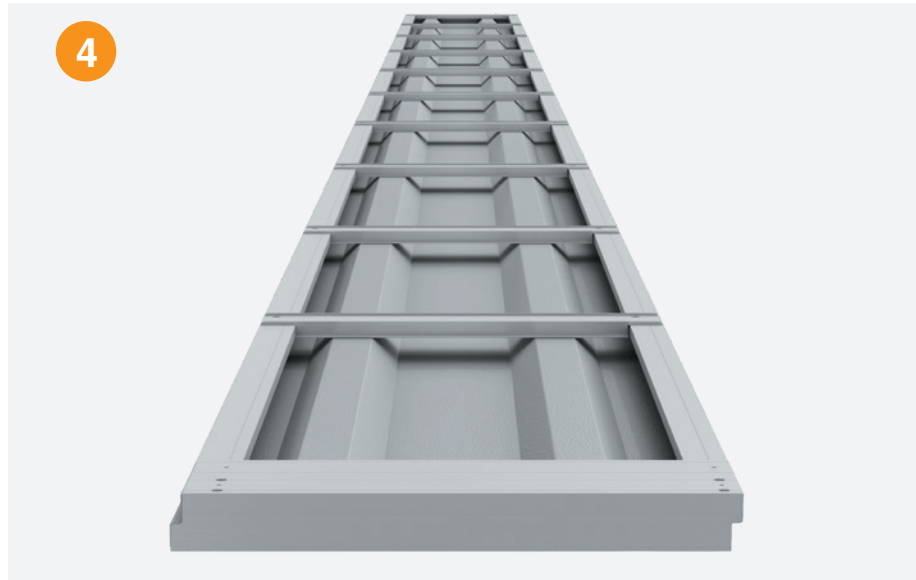


Single-layer panel with reinforcement

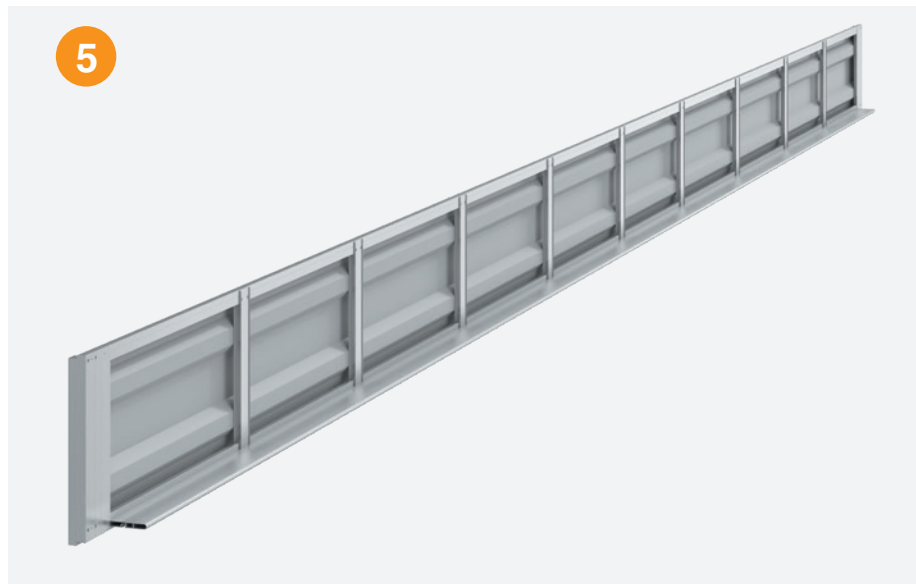




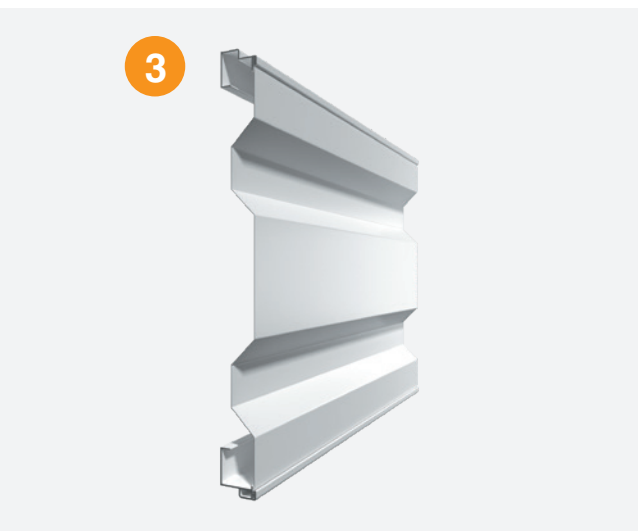
Single-layer panel without reinforcement



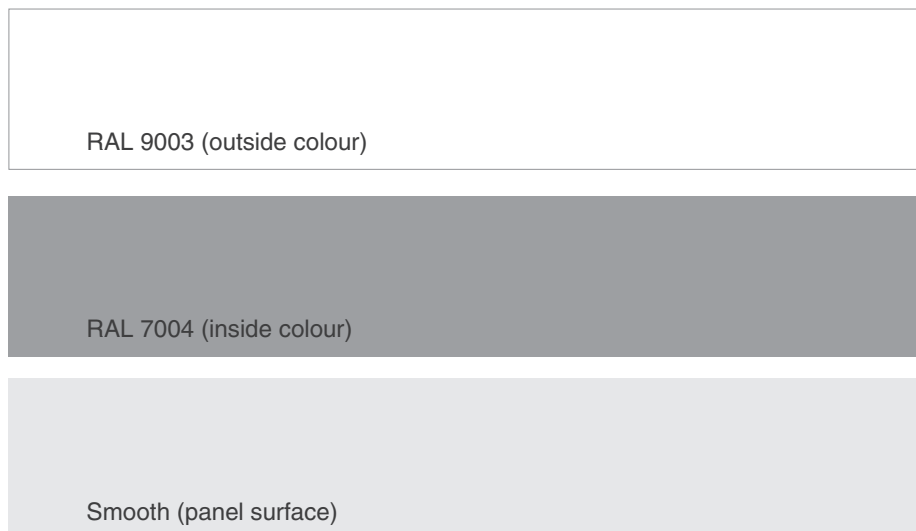
Vertical reinforcements. Ensure door panel rigidity



Panels with vertical and horizontal reinforcements. For doors more than 4 m width



Single-layer panel without reinforcement

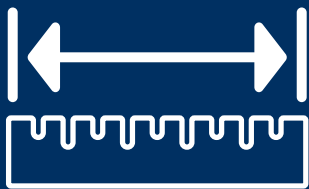


Colour and surface options

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## SECTIONAL DOORS SERIES

### ISD THERMALPRO



WIDTH:  
2 000–6 000 MM



HEIGHT:  
2 000–5 000 MM

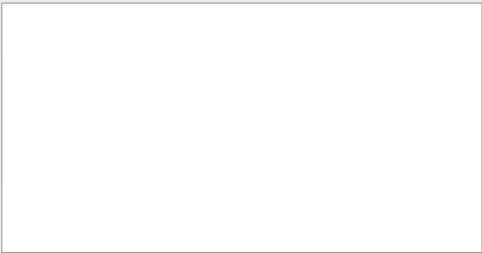





- Production: according to customer's opening size.
- Advantages: 80 mm steel panels, thermal break top and bottom aluminium profile, heating perimeter aluminium profiles and heating cable (optional).
- Torsion spring mechanism: painted springs designed for minimum 25 000 cycles operation.




80 mm panel design

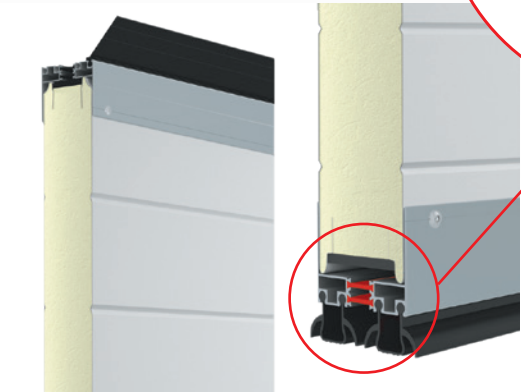
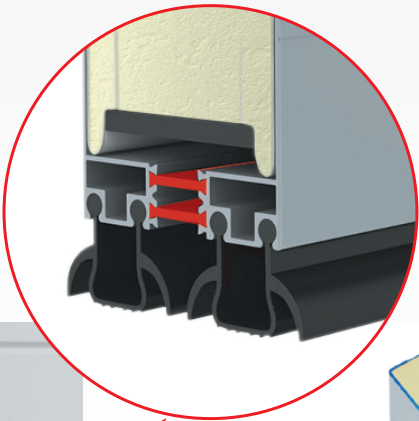



 RAL 9003 (white)

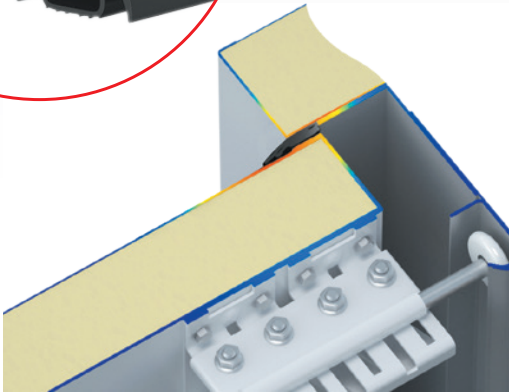



 Stucco

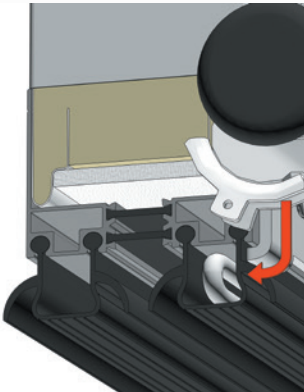
 S-line  
Standard design for Inside surface



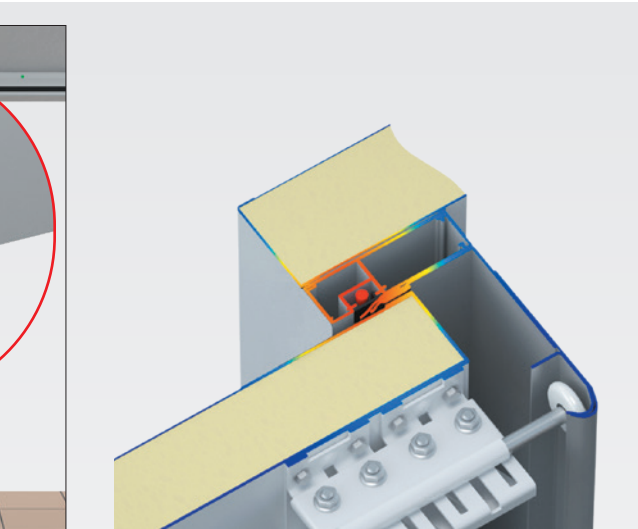
 80-mm panel with thermal break top and bottom aluminium profiles



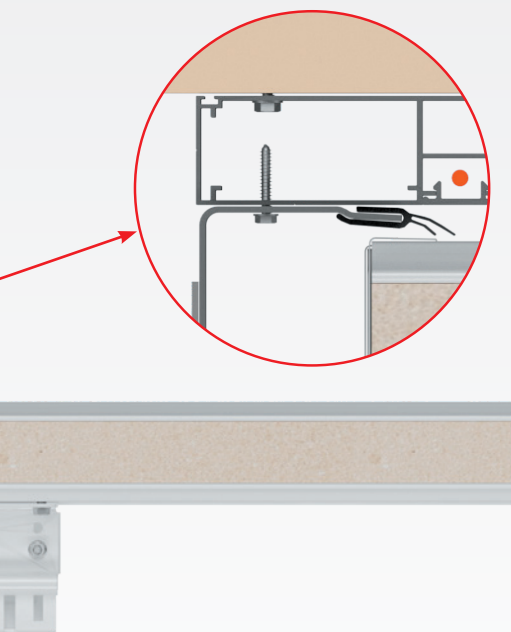
 Zink-coated double roller carrier



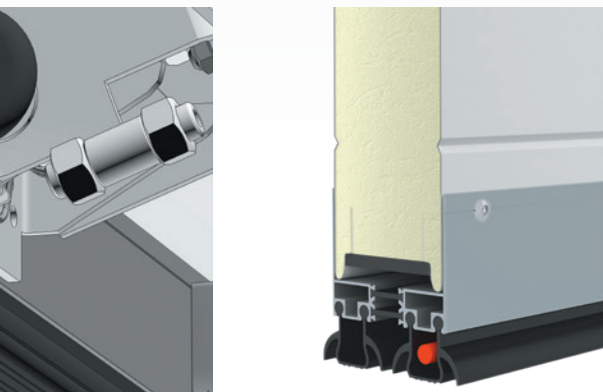




Aluminium heating perimeter profiles with heating cable (optional)



The sample of door with aluminium heating perimeter and seals

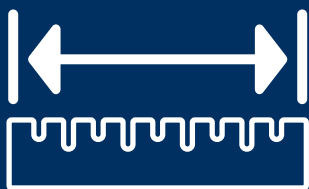


Heating cable on the bottom seal (optional)



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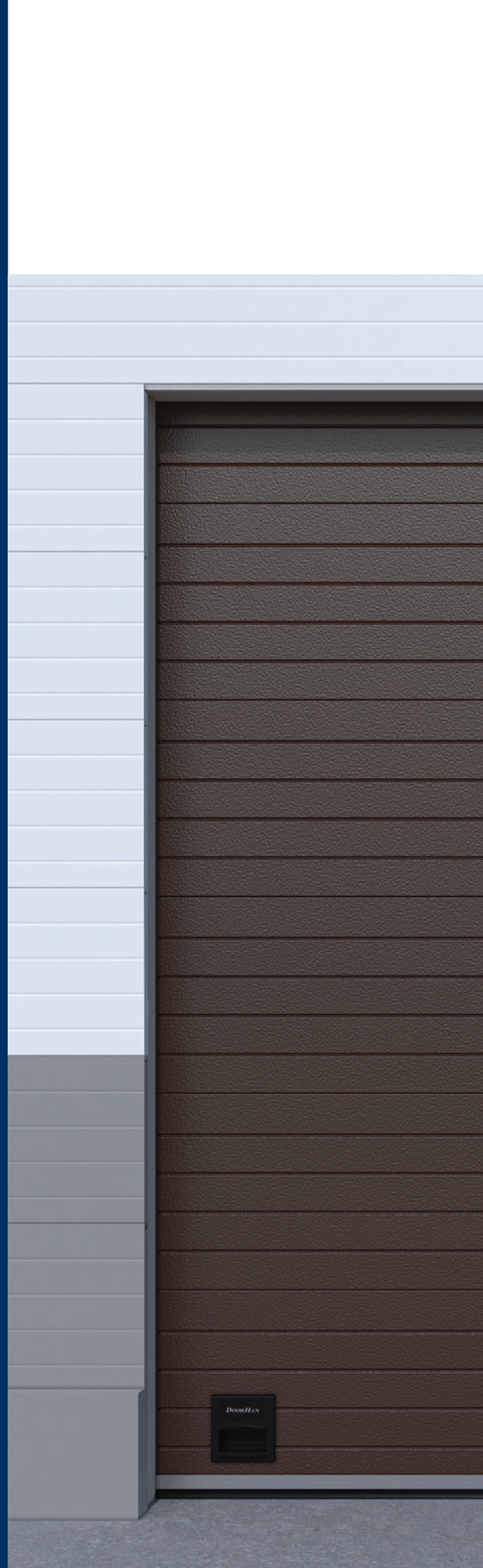
## PASS DOORS FOR SECTIONAL DOORS ISD01



WIDTH:  
800 MM



HEIGHT:  
1 800–2 100 MM





- Production: available for sectional doors ISD01.
- Advantages: special newly designed aluminium profiles provide high door leaf stability.
- Design: a variety of panels available. The maximum opening width for door installation is 6 m.





# HANDLES AND ACCESSORIES


## Handles

DoorHan handles are aesthetic and provide easy grip for manual operation.  
Pass door handle made of stainless steel.



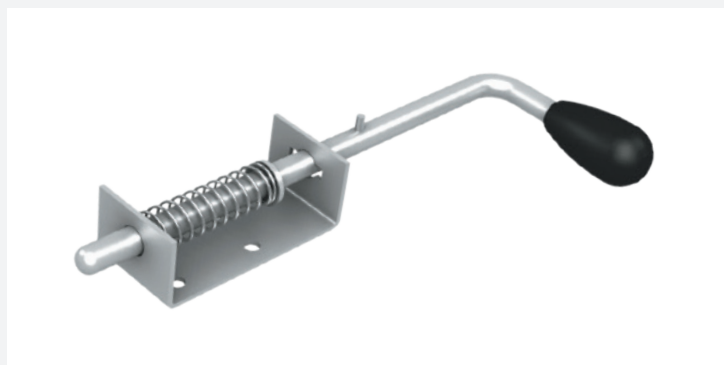
 Footstep handle for ISD01/ISD02




 Pass door lock


## Locking systems

Mechanical lock automatically blocks when you close the door leaf.



 Standard for doors ISD01/ISD02




 Optional for doors ISD01/ISD02

## Windows

All DoorHan ISD doors can be equipped optionally with double glazed acrylic windows.  
See below the choice of industrial windows.



 Dimensions: 627 x 327 mm; frame colour: black



 Dimensions: 607 x 202 mm; frame colour: black





## SHAFT-30/60 IP65KIT



TECHNICAL SPECIFICATIONS	SHAFT-30 IP65KIT	SHAFT-60 IP65KIT
Supply voltage, V	220-240	380-400
Power frequency, Hz	50/60	50/60
Maximum power consumption, W	300	350
Torque, Nm	30	60
Shaft speed, RPM	32	32
Degree of protection	IP65	IP65
Intensity, %	50	60
Temperature range, °C	-40...+55	-40...+55
Maximum door weight, kg	230	320
Chain length, m	8	8
Smooth start and stop	no	no

## SHAFT-50KIT



TECHNICAL SPECIFICATIONS	SHAFT-50KIT
Supply voltage, V	220-240
Power frequency, Hz	50/60
Maximum power consumption, W	370
Torque, Nm	50
Shaft speed, RPM	24
Degree of protection	IP54
Intensity, %	65
Temperature range, °C	-25...+50
Maximum door weight, kg	270
Chain length, m	8
Smooth start and stop	no

## SHAFT-120/200 KIT



TECHNICAL SPECIFICATIONS	SHAFT-120KIT	SHAFT-200KIT
Supply voltage, V	380-400	380-400
Power frequency, Hz	50/60	50/60
Maximum power consumption, W	700	850
Torque, Nm	120	200
Shaft speed, RPM	22	22
Degree of protection	IP44	IP44
Intensity, %	65	65
Temperature range, °C	-40...+55	-40...+55
Maximum door weight, kg	550	850
Chain length, m	8	8
Smooth start and stop	no	no

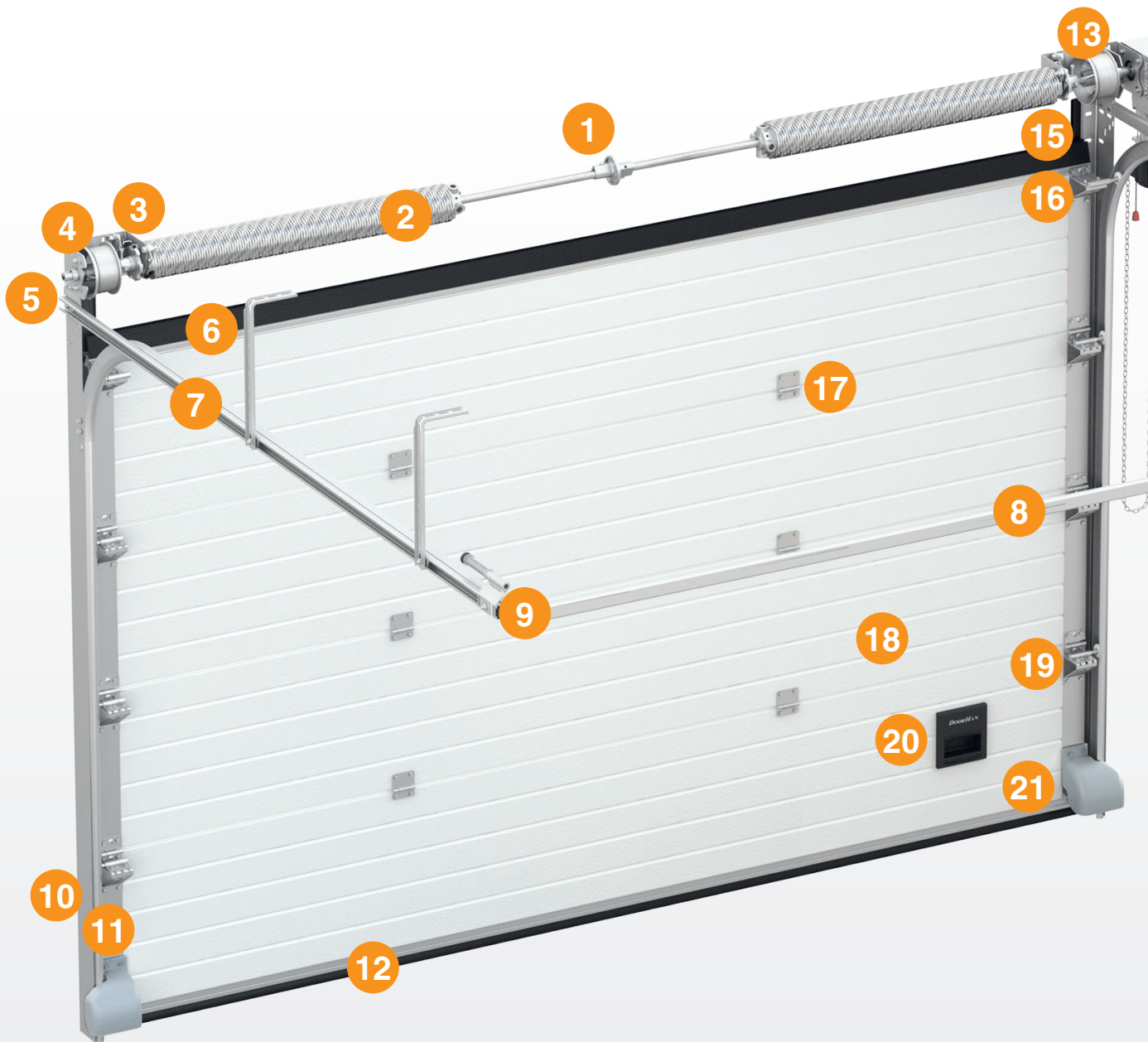
## SHAFT-50/85 PROKIT



TECHNICAL SPECIFICATIONS	SHAFT-50PROKIT	SHAFT-85PROKIT
Supply voltage, V	220-240	220-240
Power frequency, Hz	50/60	50/60
Maximum power consumption, W	370	480
Torque, Nm	50	85
Shaft speed, RPM	24	21
Degree of protection	IP54	IP54
Intensity, %	65	65
Temperature range, °C	-25...+50	-25...+50
Maximum door weight, kg	270	370
Chain length, m	8	8
Smooth start and stop	yes	yes



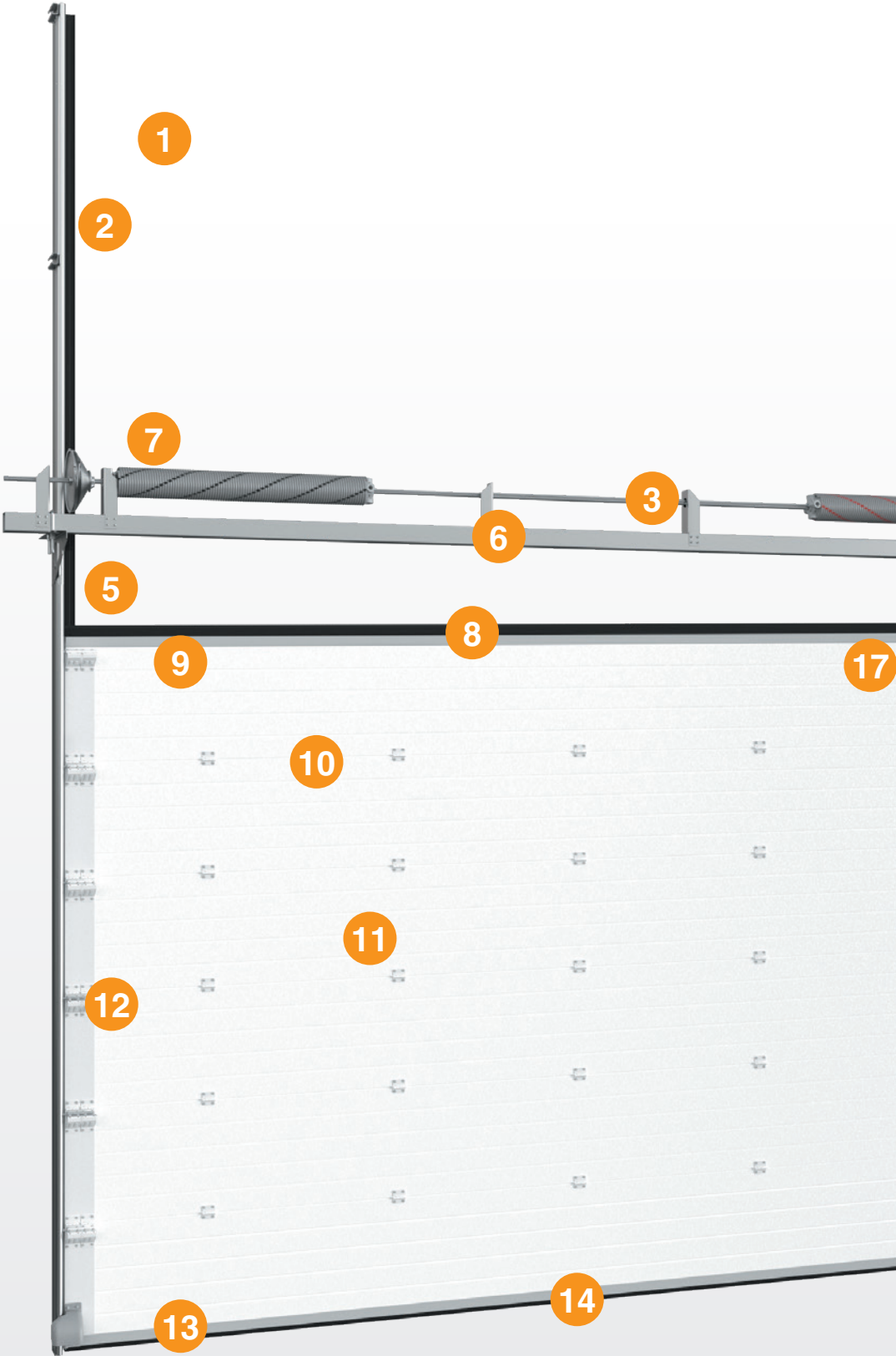








1. Coupler
2. Torsion spring mechanism
3. Spring break safety device
4. Drum
5. End bracket
6. Top profile with seal
7. Horizontal track
8. C-profile
9. Spring bumper
10. Vertical angle
11. Vertical track
12. Bottom aluminium profile with seal
13. Bracket for shaft operator
14. Shaft operator
15. Side seal
16. Top roller carrier
17. Hinges
18. Panel
19. Side roller carriers
20. Footstep handle
21. Cable break safety device




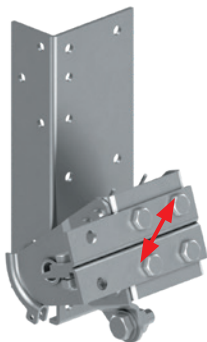





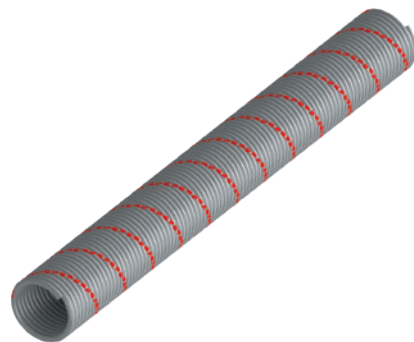
1. Vertical track
2. Vertical angle
3. Shaft
4. Spring break safety device
5. Bracket for remote system
6. Pipe 100 × 100 × 4 mm
7. Drum
8. Top rubber seal
9. Top roller support
10. Hinges
11. Panel
12. Side roller carriers
13. Cable break safety device
14. Bottom aluminium profile
15. Side seal
16. Torsion spring mechanism
17. Top profile with seal
18. End cap
19. Footstep handle




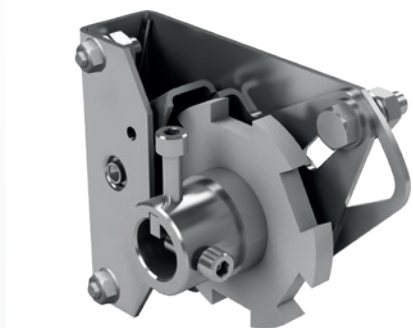
 Zink-coated double roller carrier for big doors.




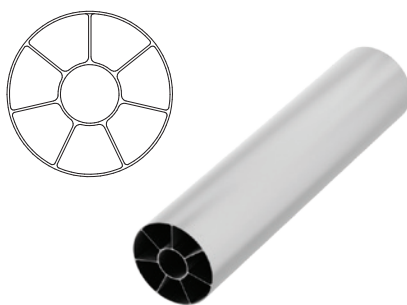
 Cable break safety device for prevention of accidental door drop.




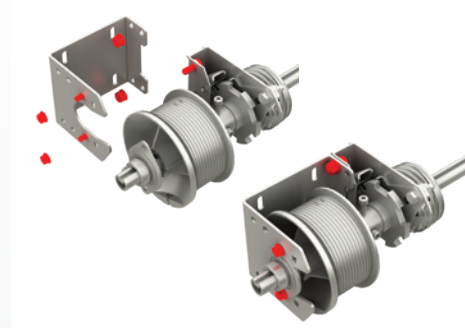
 Powder coated spring in colour RAL 7004.




 Updated spring break safety device.

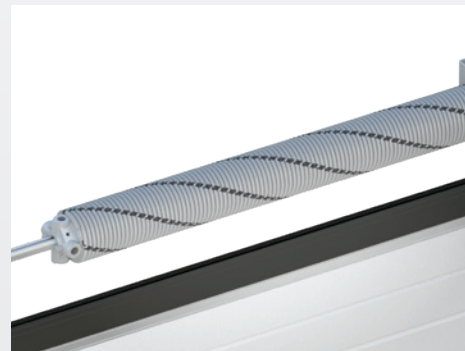



 High density spring filler for noise reduction and increased working life performance.



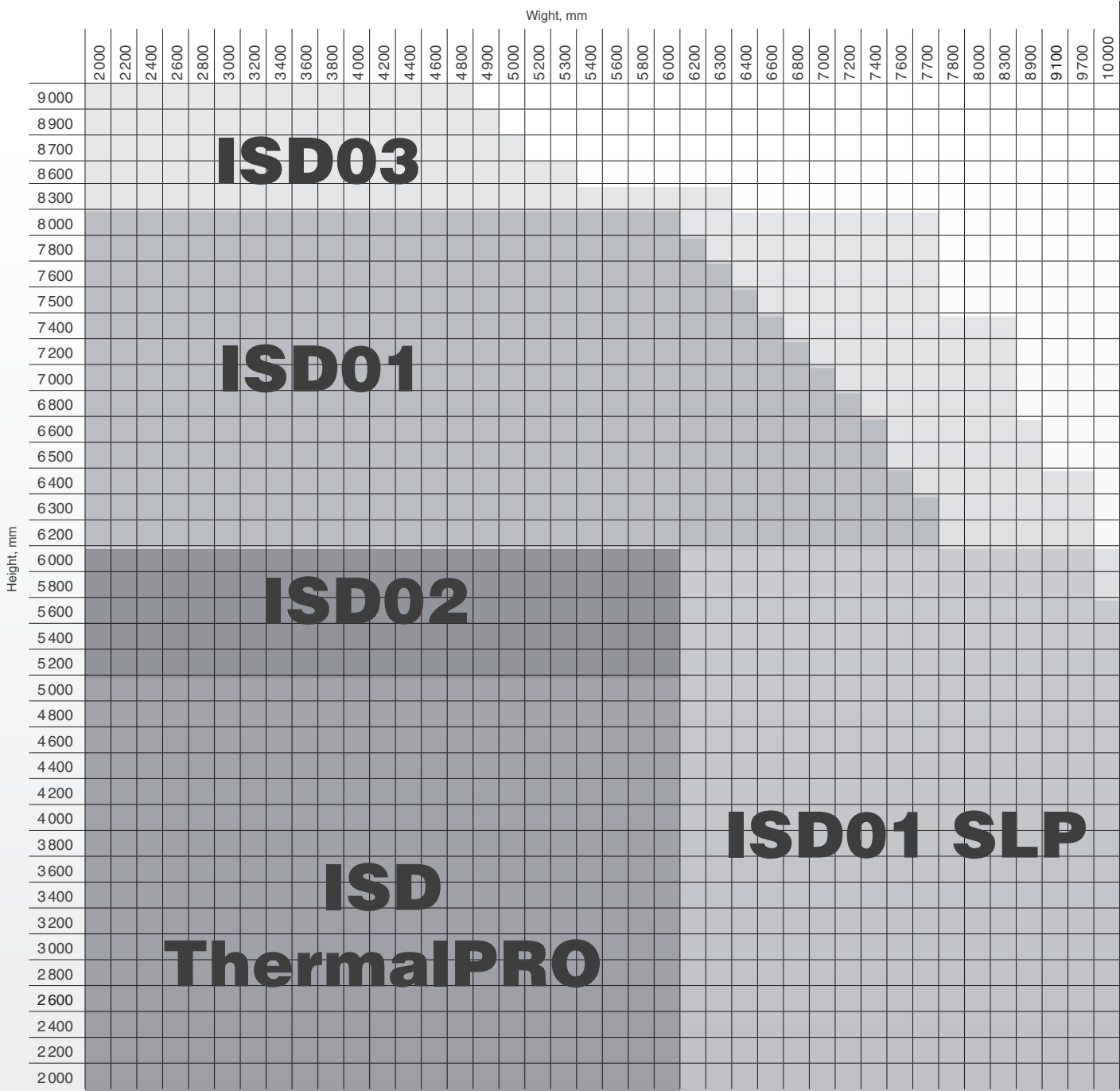
 Quick fix system. Position shaft in the bracket and fasten nuts.

## Anti corrosion set



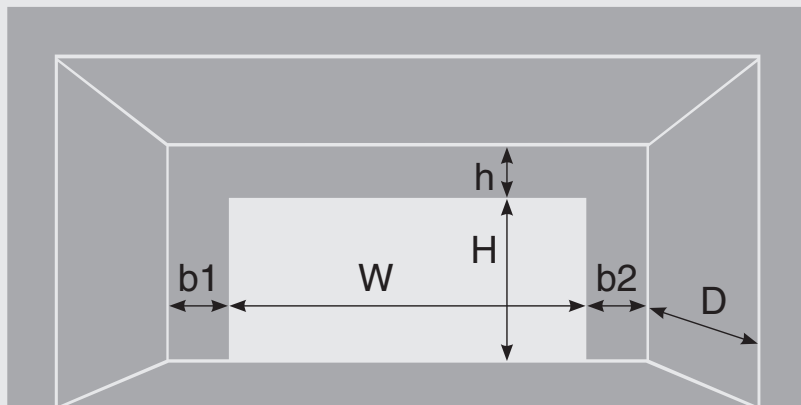
 Anti corrosion set: for use in aggressive environment.  
Note: Not all the hardware can be made of Stainless Steel. Some hardware can be powder coated like the tracks for example. Our sales department can supply full details.





The maximum door sizes are approximate and depend on the type of door lift and other parameters. Contact the manager to clarify the possibility of manufacturing a door.

## Opening clearances. General specifications



### Description:

H — height of opening  
(distance from floor to top of opening);

W — width of opening  
(distance from left side of opening to right side);

h — torsion spring mechanism for minimum  
25 000 cycles operation;

b1 and b2 — distance from edge of opening  
to side wall;

D — depth of room  
(distance from front to back wall).

Description	Value
R-value (ISD01, ISD03), $\text{m}^2 \cdot ^\circ\text{C}/\text{W}^*$	1.13
R-value (ISD ThermalPro), $\text{m}^2 \cdot ^\circ\text{C}/\text{W}^*$	2.3
R-value (ISD ThermalPro with heating perimeter), $\text{m}^2 \cdot ^\circ\text{C}/\text{W}^*$	3.3
Thermal conductivity (ISD01, ISD03), $\text{W}/\text{m}^2 \cdot ^\circ\text{C}$ (DIN4108)	0.88
Thermal conductivity (ISD ThermalPro), $\text{W}/\text{m}^2 \cdot ^\circ\text{C}$ (DIN4108)	0.43
Thermal conductivity (ISD ThermalPro with heating perimeter), $\text{W}/\text{m}^2 \cdot ^\circ\text{C}$ (DIN4108)	0.3
Wind load	2 class (EN12424:2000)
Airtightness	4 class (EN12426:2000)
Watertightness	3 class (EN12425:2000)
Acoustic insulation, dB	<35
Necessary lifting force, kg	to 22.5
Door panel weight (ISD01), $\text{kg}/\text{m}^2$	10.9
Door panel weight (ISD03), $\text{kg}/\text{m}^2$	8.8
Door panel weight (ISD ThermalPro), $\text{kg}/\text{m}^2$	16.3
Panel thickness (ISD01, ISD03), mm	40
Panel thickness (ISD ThermalPro), mm	80
Thickness of steel (ISD01), mm	0.4
Thickness of aluminium (aluminium panel ISD03), mm	0.4
Thickness of steel (ISD ThermalPro), mm	0.4

\* For a  $4000 \times 4000$  mm door

## Basic hardware and options

### Standard components:

- Torsion spring mechanism for minimum 25 000 cycles operation
- Spring break safety device
- Cable break safety device
- Spring bumpers (if operator on shaft)
- Handle
- Latch
- Technical data
- Stainless steel hardware (for ISD03)

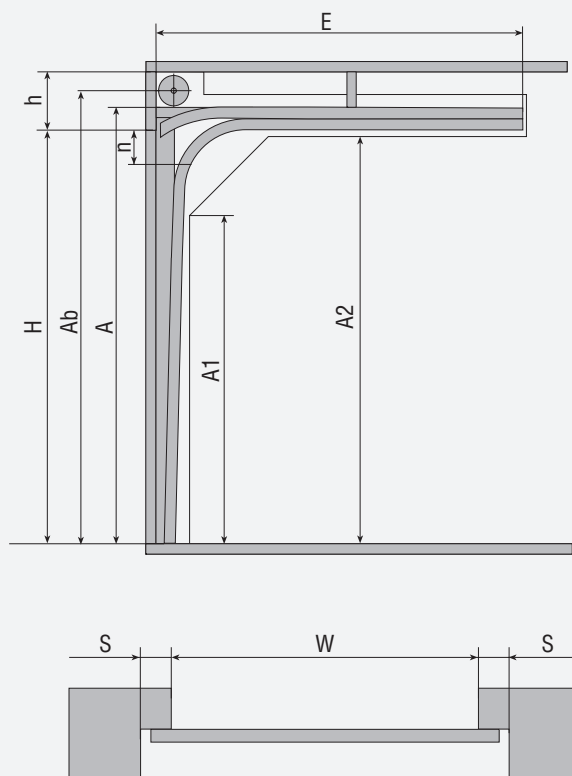
### Optional components:

- Torsion spring mechanism for 50 000, 75 000, 100 000 cycles operation
- Windows
- Pass door (except ThermalPro, ISD03, ISD01 SLP)
- Key lock
- Automation
- Anticorrosion set
- Heating perimeter aluminium profiles and heating cable (optional for ISD03)



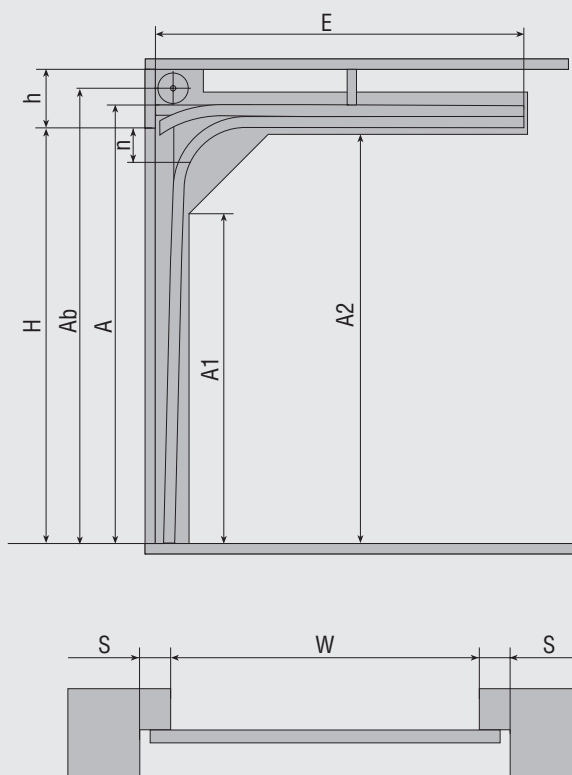
## Low lift front drum

Parameter	Description	Space requirements
H, mm	Height of opening	H
h, mm	Headroom height	$h \geq 230$ manual (260 mm operator)
n, mm	Door opening overlap (when the door is open)	0...190 (w/t operator, $W < 4\,500$ ); 0...235 (w/t operator, $W > 4\,500$ ); 0...10 (with ceiling operator, $W < 4\,500$ ); 0...70 (with ceiling operator, $W > 4\,500$ )
W, mm	Opening width	W
A, mm	Vertical angle height	$H + 110$
Ab, mm	Shaft axis height and drum height	$\geq A + 59$
A1, mm	Vertical track height	$A - 543$
A2, mm	Door working space at horizontal angle height	$A - 106$
E, mm	Door operating space horizontal track length	$H + 300$
	Points of attachment of the horizontal track to the ceiling (depends of door size)	2/4
Db, mm	Torsion spring mechanism operating space	depends of door size and weight
S, mm	Minimum side room	120



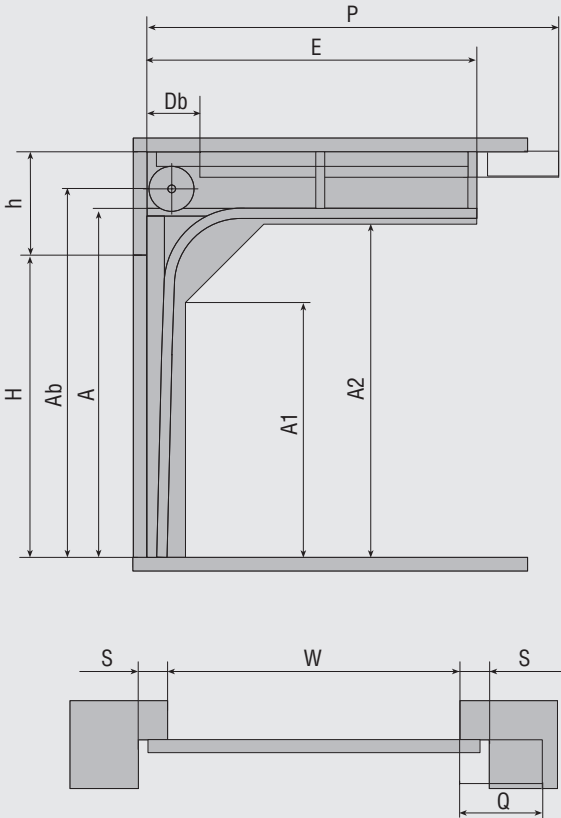
## Low lift front drum (RKTN)

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	$h \geq 160$ manual (200 mm operator)
n, mm	Door opening overlap (when the door is open)	0...245 (w/t operator, $W < 4\,500$ ); 0...300 (w/t operator, $W > 4\,500$ ); 0...60 (with ceiling operator, $W < 4\,500$ ); 0...125 (with ceiling operator, $W > 4\,500$ )
W, mm	Opening width	W
A, mm	Vertical angle height	$H + 54$
Ab, mm	Shaft axis height and drum height	$\geq A + 59$
A1, mm	Vertical track height	$A - 552$
A2, mm	Door working space at horizontal angle height	$A - 115$
E, mm	Door operating space horizontal track length	$H + 440$
	Points of attachment of the horizontal track to the ceiling (depends of door size)	2/4
Db, mm	Torsion spring mechanism operating space	depends of door size and weight
S, mm	Minimum side room	120



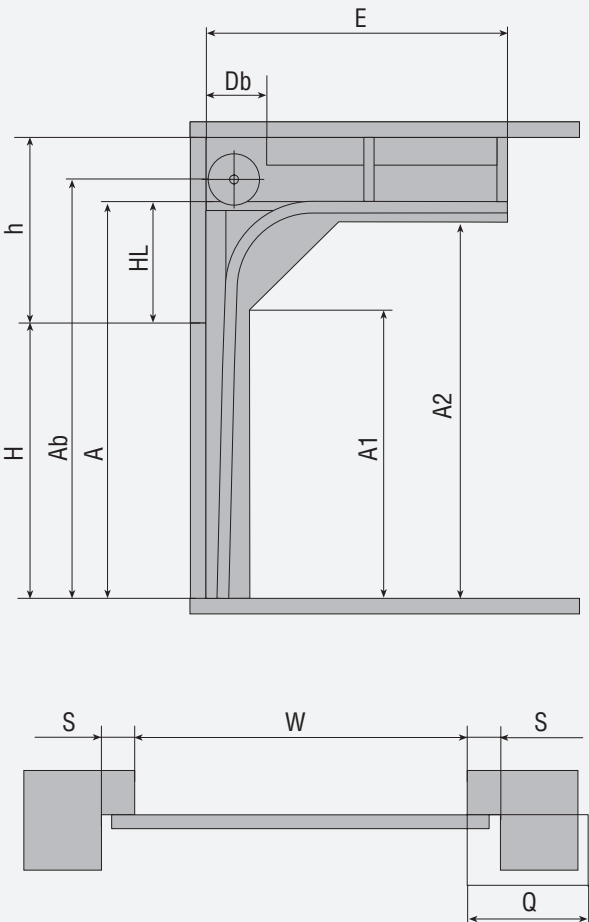
# Standard Lift

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	R381 $h \geq 420$ ; R305 $h \geq 350$
W, mm	Opening width	W
A, mm	Vertical angle height	R381 $A - H + 235$ ; R305 $A - H + 165$
Ab, mm	Shaft axis height and drum height	$A + 97$
A1, mm	Vertical track height	R381 $A - 580$ ; R305 $A - 490$
A2, mm	Door working space at horizontal angle height	$A - 110$
E, mm	Door operating space horizontal track length	R381 $- H + 200$ ; R305 $- H + 250$
	Points of attachment of the horizontal track to the ceiling (depends of door size)	2/4
Db, mm	Torsion spring mechanism operating space	depends of door size and weight
S, mm	Minimum side room	120
Q, mm	Side room for shaft when electric operation	300



# High Lift

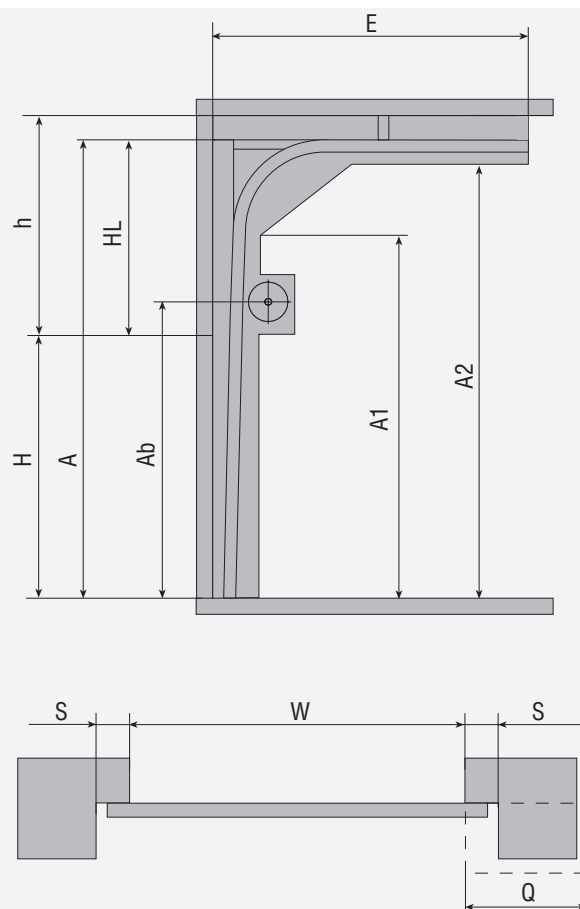
Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	$h > 520$
W, mm	Opening width	W
HL, mm	Distance from the top of the opening to the horizontal track	$h - 330$
A, mm	Vertical angle height	$H + HL$
Ab, mm	Shaft axis height and drum height	$A + 86/97$
A1, mm	Vertical track height	$A - 580$
A2, mm	Door working space at horizontal angle height	$A - 53$
E, mm	Door operating space horizontal track length	$H - HL + 470...600$
	Points of attachment of the horizontal track to the ceiling (depends of door size)	2/4
Db, mm	Torsion spring mechanism operating space	depends of door size and weight
S, mm	Minimum side room	120
Q, mm	Side room for shaft when electric operation	300





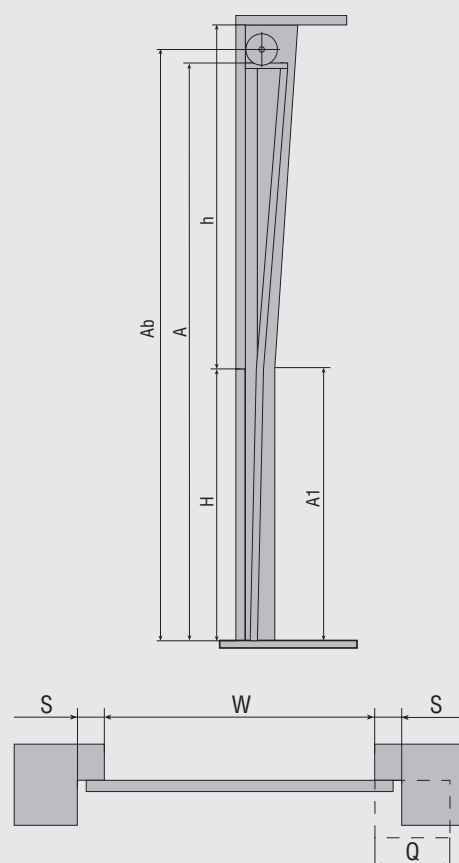
## High Lift, Shaft below

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	$h \geq 1600$
W, mm	Opening width	W
HL, mm	Distance from the top of the opening to the horizontal track	$1330 \leq HL \leq h - 150$
A, mm	Vertical angle height	$H + HL$
Ab, mm	Shaft axis height and drum height	$H + 400 \dots 600 + 280$
A1, mm	Vertical track height	$A - 580$
A2, mm	Door working space at horizontal angle height	$A - 53$
E, mm	Door operating space horizontal track length	$H - HL + 470 \dots 600$
	Points of attachment of the horizontal track to the ceiling	depends of door size and weight
S, mm	Minimum side room	300 min
Q, mm	Side room for shaft when electric operation	$\geq 500$



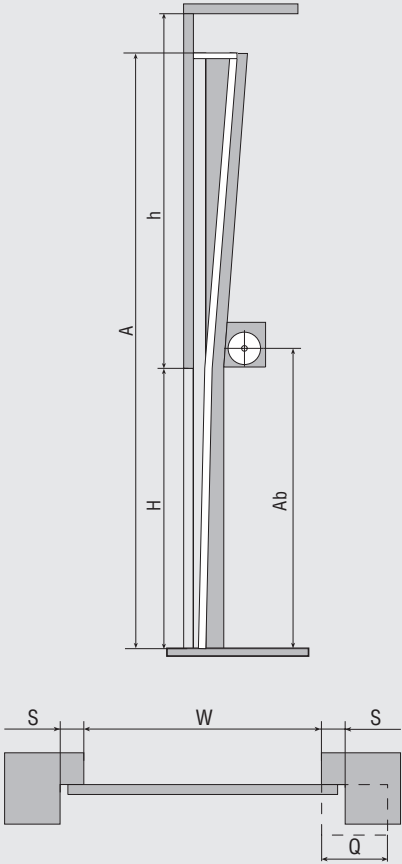
## Vertical Lift

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	$> H + 500$
W, mm	Opening width	W
A, mm	Vertical angle height	$2H + 120$
Ab, mm	Shaft axis height and drum height	$A + 166$
A1, mm	Vertical track height	H
S, mm	Minimum side room	120
Q, mm	Side room for shaft when electric operation	300



# Vertical Lift, Shaft below

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	> H + 120
W, mm	Opening width	W
A, mm	Vertical angle height	2H + 120
Ab, mm	Shaft axis height and drum height	H + 680
S, mm	Minimum side room	500 min
Q, mm	Side room for shaft when electric operation	≥ 650





## NOTES

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Production:  
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complete pre-engineered buildings,  
modular buildings,  
roof and wall sandwich panels



## RUSSIA, VORONEZH



Production:  
mineral wool slabs,  
roof and wall sandwich panels



## RUSSIA, SAINT-PETERSBURG



Production:  
sandwich panels with foam  
polyisocyanurate (PIR) core  
and heat-insulating PIR plates



## RUSSIA, NOVOSIBIRSK



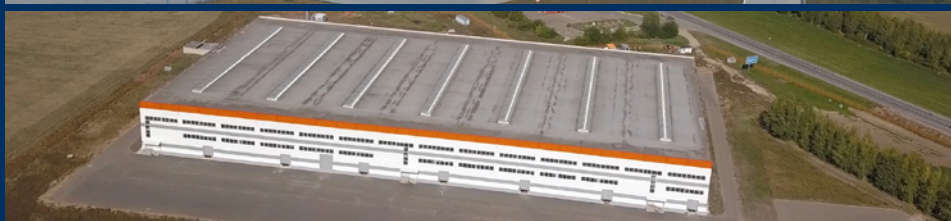
Production:  
door systems,  
modular buildings  
fence systems



## RUSSIA, KAZAN



Production:  
modular buildings, pre-fabricated  
buildings, metal construction,  
private houses construction kits



## RUSSIA, OSTASHKOV



Production:  
steel entrance doors,  
spiral doors



## CZECH REPUBLIC, KADAN



Production:  
door systems



## CHINA, SUZHOU



Production:  
door systems, automation systems,  
loading dock equipment

