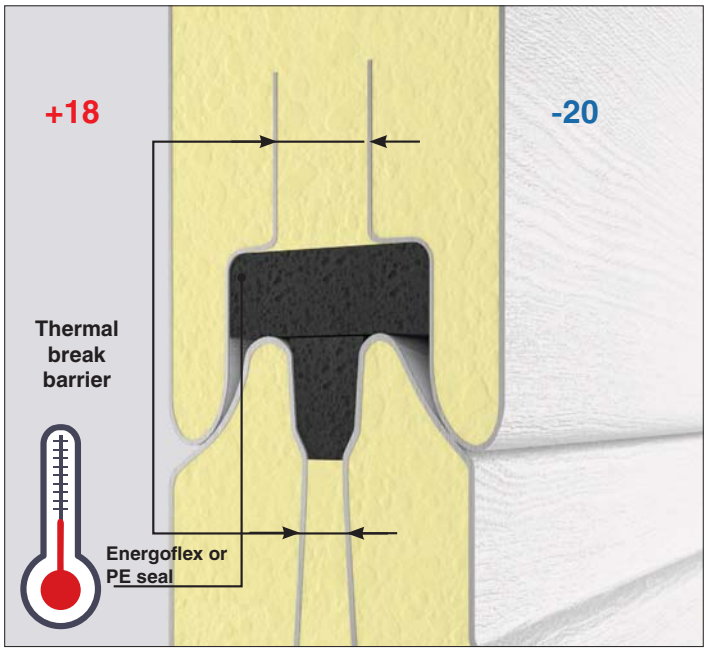
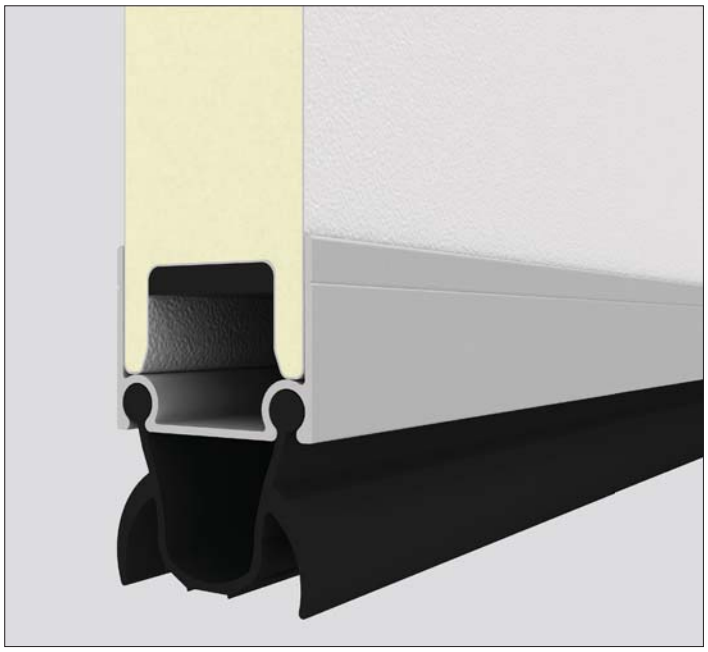
INDUSTRIAL SECTIONAL DOORS

QUALITY · RELIABILITY · SAFETY

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.



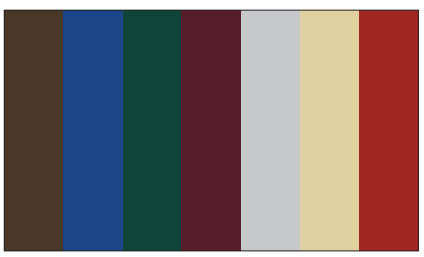
■ **Bottom weather seal**
Bottom weather seal fitted on the bottom aluminium profile.

■ **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.

ADVANTAGES

1 DESIGN

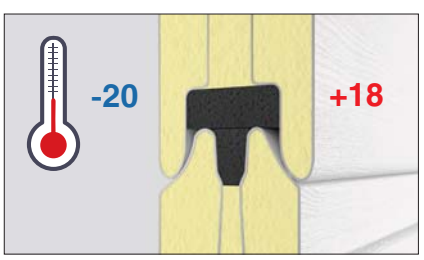


Paint to any colour.

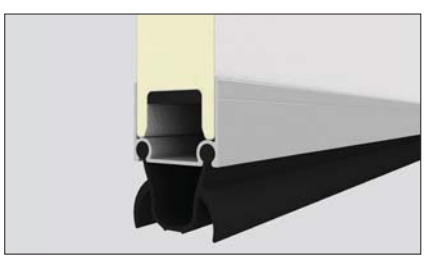
Doors of any design.

Exclusive accessories.

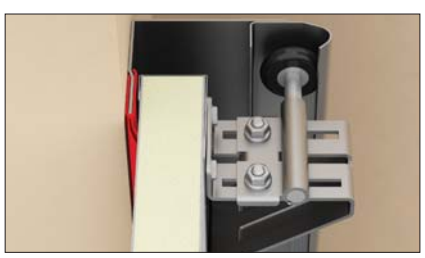
2 HIGH ENERGY-SAVING



Maximum temperature insulation.



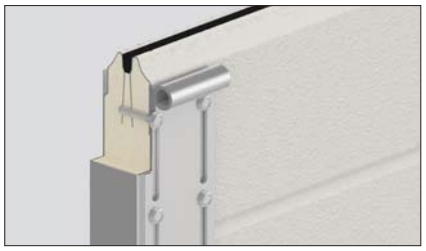
Bottoms seal protects from rodents, rain water and covers floor defects.



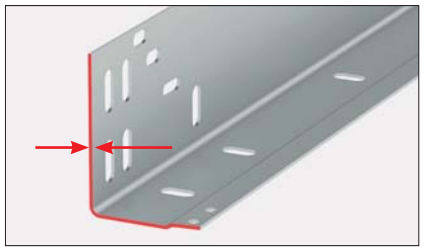
Air tight side seal.

3 DURABILITY

Zinc-coated double roller carrier for big doors.



Sturdy design of panels.



Thickness of profiles 2 mm.

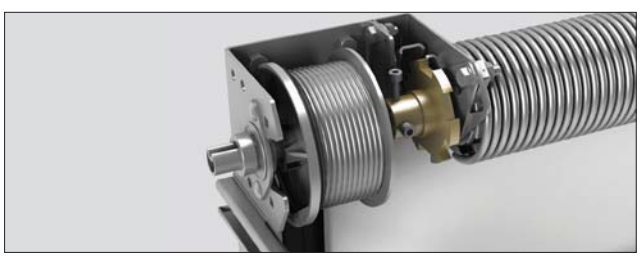
4 CONVENIENCE

Space-saving.

Optional windows and pass doors.

Automatic operation.

5 SAFETY

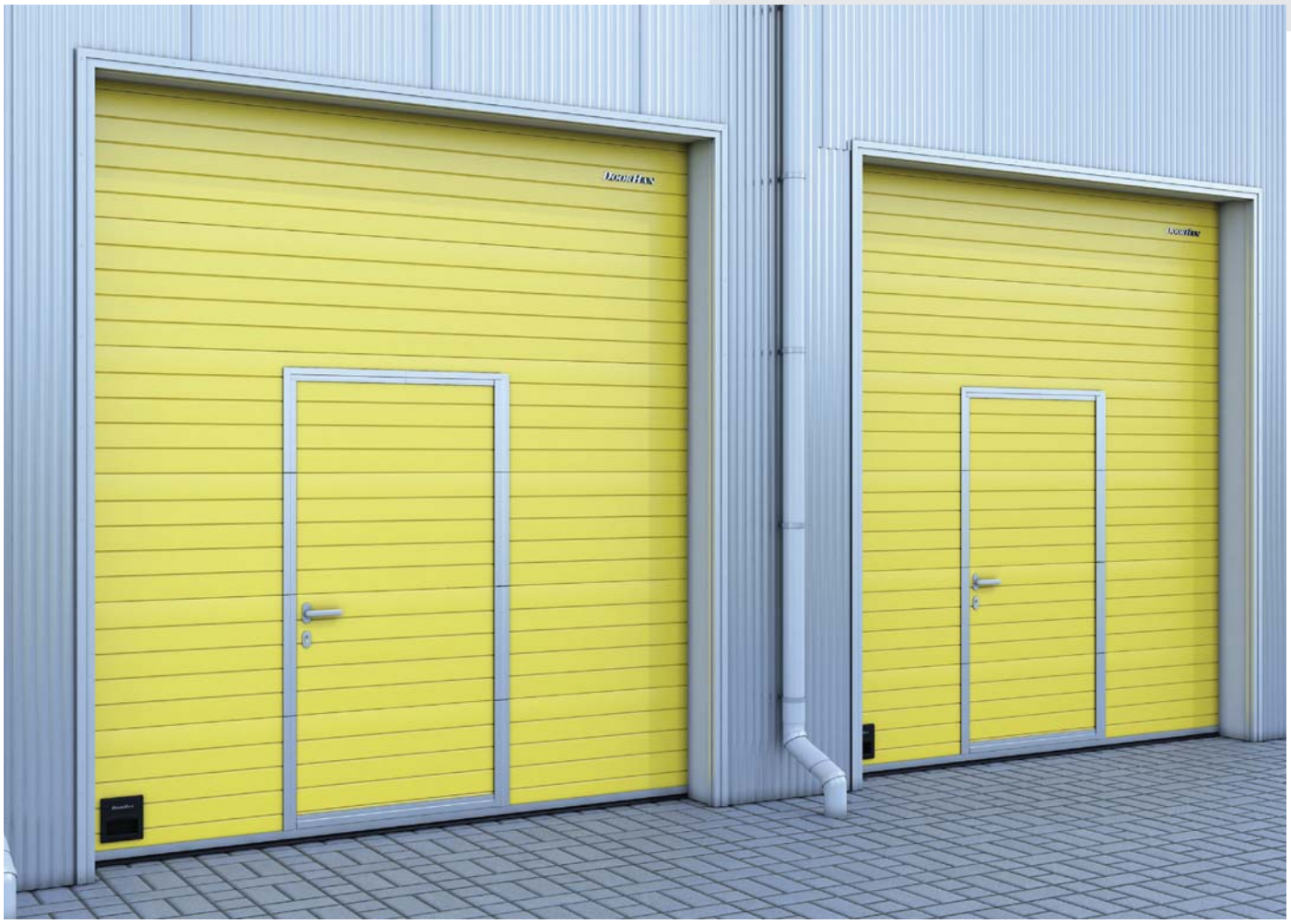


Spring break safety device.

Cable break safety device.

SECTIONAL DOORS
SERIES ISD01

Sizes:
width — from 2 000 to 8 000 mm;
height — from 2 000 to 8 000 mm.



Production: tailored to customer's opening size.

Advantages: sturdy panels, safety features, ease of installation, thermal break, perimeter sealing.

Torsion spring mechanism: zinc-coated springs calculated for minimum 25 000 cycles operation.

DESIGN

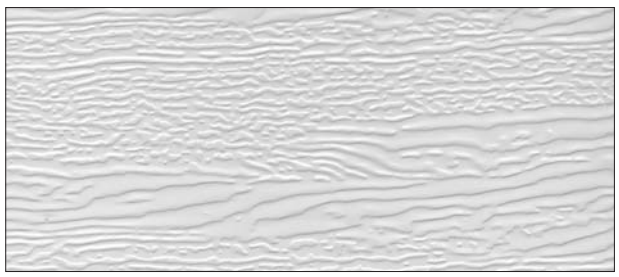
DOORS ISD01

PANEL TYPES

☐ S-line

☐ D-line

TYPE OF SURFACE AND COLOUR



☐ Woodgrain RAL9003

☐ Stucco RAL 9003

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.

INSIDE SURFACE TEXTURE AND COLOUR

☐ D-line

☐ Stucco RAL 9003

HANDLES AND ACCESSORIES

HANDLES

DoorHan handles look good and provide easy grip for manual operation. Handle for pass door made of stainless steel.

☐ Footstep handle for ISD

☐ Pass door lock

LOCKING SYSTEMS

Mechanical lock automatically blocks when you close the door leaf.

☐ Optional for doors ISD01

☐ Optional for doors ISD01

WINDOWS

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

☐ Dimensions: 635 × 330 mm; frame design: black

☐ Dimensions: 607 × 202 mm; frame design: black

AUTOMATION SYSTEMS

ELECTRIC OPERATORS

☐ Shaft-50PRO/85PRO

☐ Shaft-30IP65/60IP65

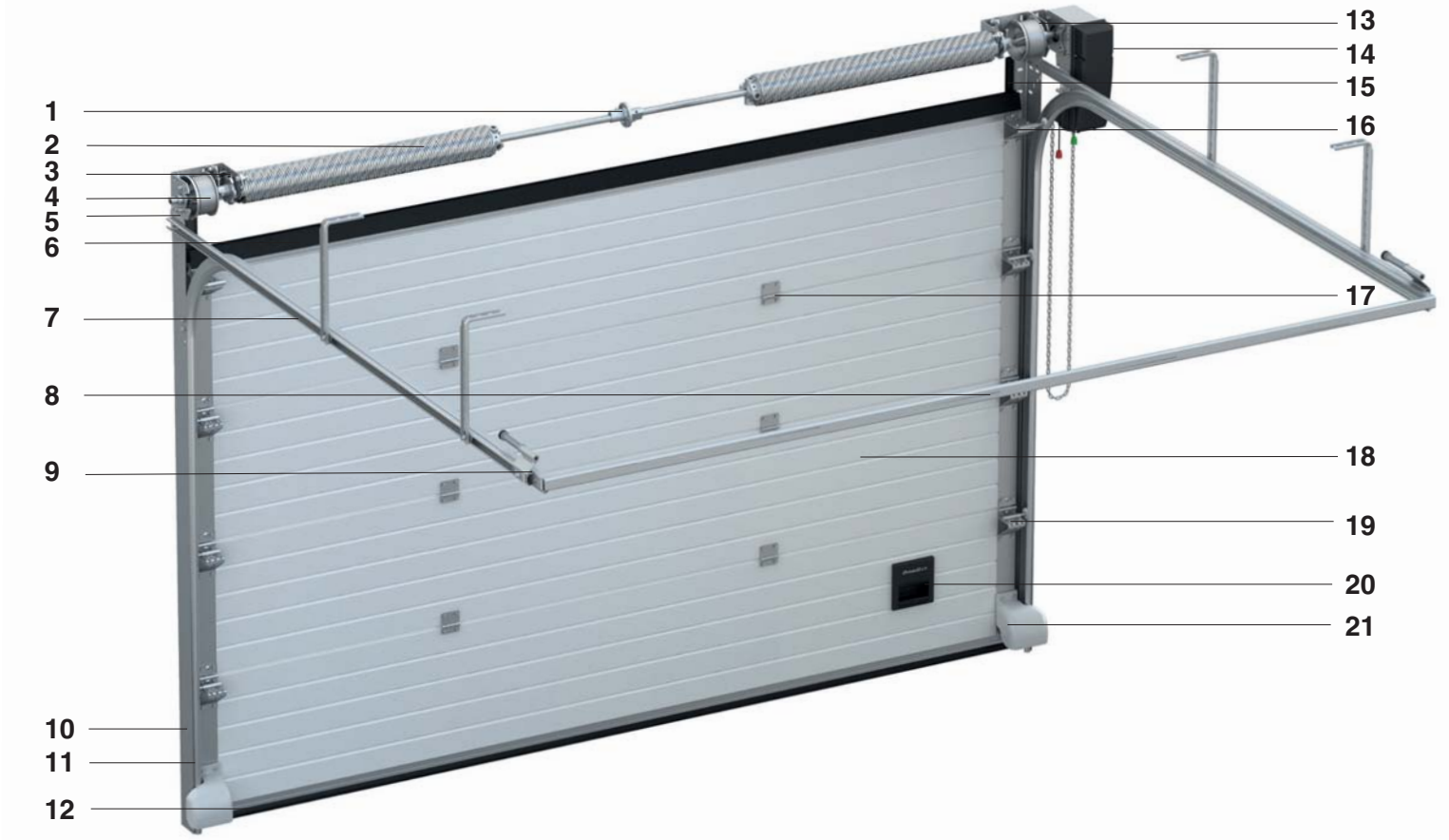
☐ Shaft-50

☐ Shaft-120

Shaft	Shaft-30	Shaft-50	Shaft-50PRO	Shaft-85PRO	Shaft-60	Shaft-120
Supply voltage	220 V, 50/60 Hz				380 V, 50/60 Hz	
Maximum power consumption	300 W	370 W	370 W	480 W	350 W	700 W
Torque	30 Nm	50 Nm	50 Nm	85 Nm	60 Nm	120 Nm
Shaft speed	32 RPM	24 RPM	24 RPM	24 RPM	32 RPM	22 RPM
Degree of protection	IP65	IP54	IP54	IP54	IP65	IP44
Intensity	50 %	65 %	65 %	65 %	60 %	65 %
Temperature range	-40...+55 °C	-25...+50 °C	-25...+50 °C	-25...+50 °C	-40...+55 °C	-40...+55 °C
Maximum door area	18 m^2	25 m^2	25 m^2	35 m^2	28 m^2	40 m^2
Chain length	8 m	8 m	8 m	8 m	8 m	12 m
Smooth start and stop	no	no	yes	yes	no	no

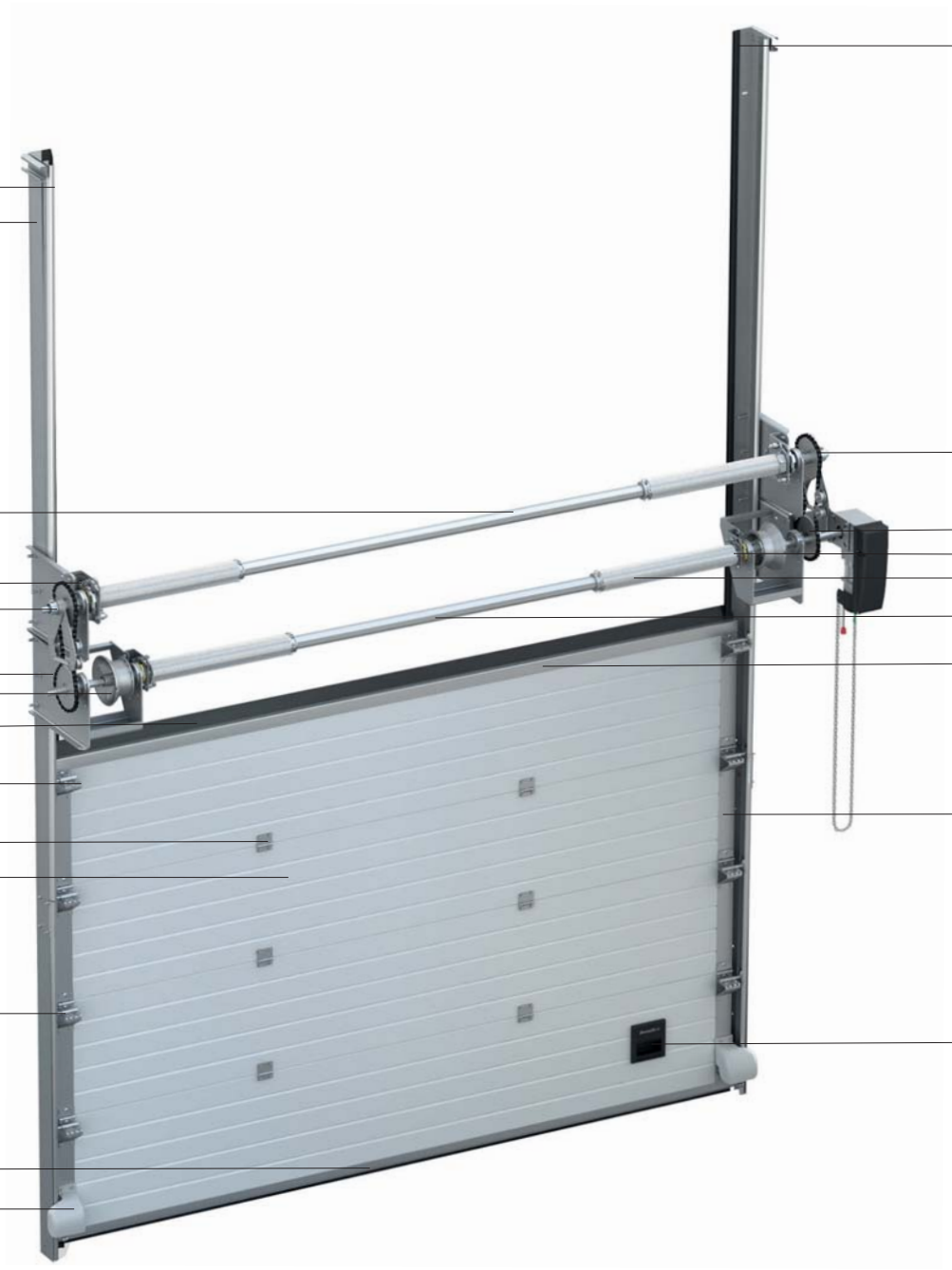
HARDWARE SPECIFICATIONS OF INDUSTRIAL SECTIONAL DOORS

STANDARD LIFT



1. Coupler
2. Torsion spring mechanism
3. Spring break safety device
4. Drum
5. Bracket
6. Top profile with seal
7. Horizontal track
8. C-profile
9. Spring buffer
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 support
20. Footstep handle
21. Cable break safety device

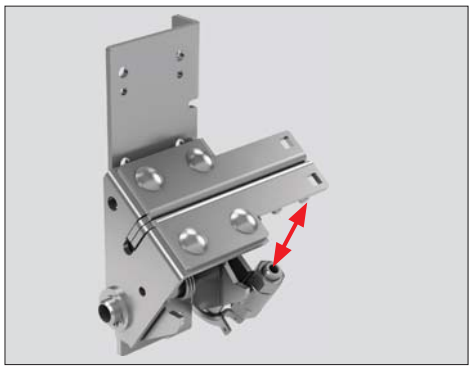
VERTICAL LIFT, SHAFT BELOW



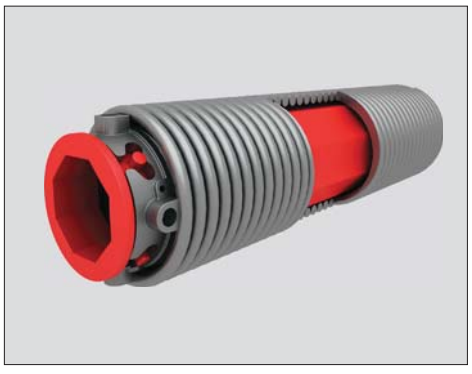
1. Vertical track
2. Vertical angle
3. Octagonal shaft
4. Spring break safety device
5. Bracket for octagonal shaft
6. Bracket for octagonal shaft (drums inside)
7. Drum
8. Top rubber seal
9. Top roller carrier
10. Hinges
11. Panel
12. Roller carrier
13. Bottom aluminium profile
14. Cable break safety device
15. Side seal
16. Chain tensioning device for a double shaft system
17. Steel sprocket
18. Adapter for octagonal shaft
19. Torsion spring mechanism
20. Spring plug
21. Top profile with seal
22. Side cap
23. Footstep handle

* Note: the shown double shaft spring mechanism is for big doors

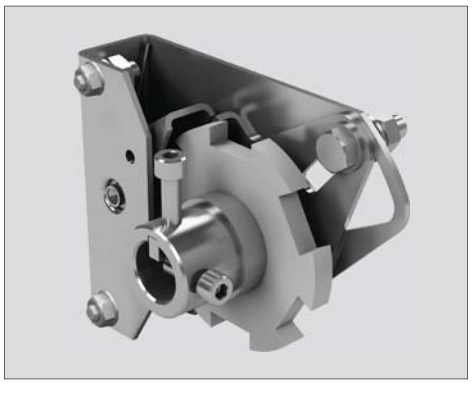
■ Zinc-coated double roller carrier for big doors ISD01



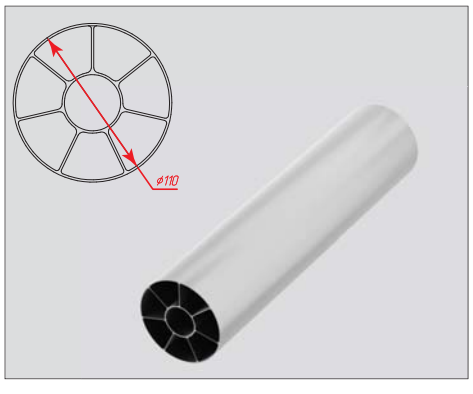
■ Cable break safety device for prevention of accidental door drop



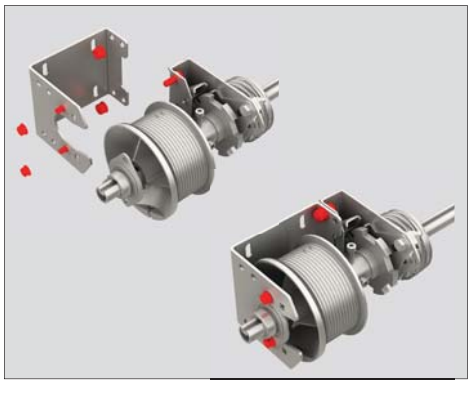
■ Quick fix system. Fast torsion spring and plugs fitting



■ Updated spring break safety device

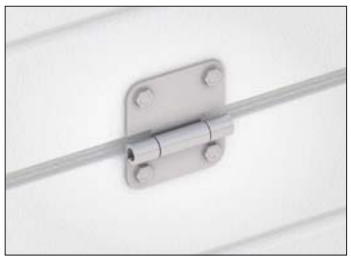


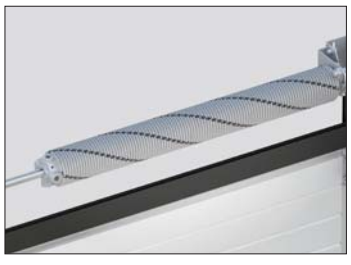
■ Spring filler for 152 mm torsion springs. Reduced noise and high density plastic material



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

ANTI CORROSION SET

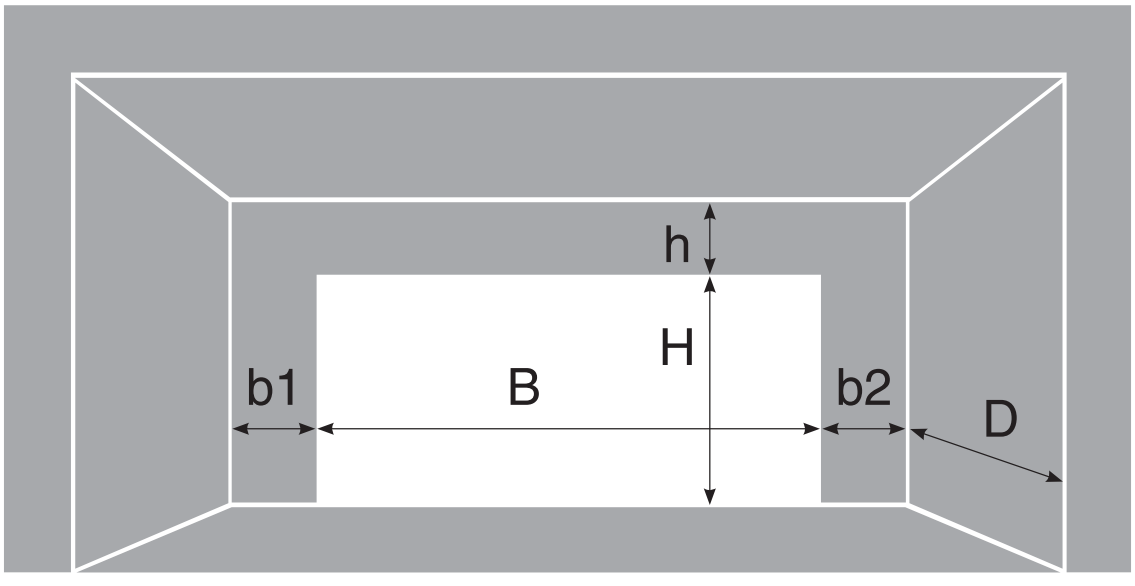




■ Anti corrosion set: for use in aggressive environment

* 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.

OPENING CLEARANCES



Description:
H — height of opening (distance from floor to top of opening);
B — 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).

BASIC HARDWARE AND OPTIONS

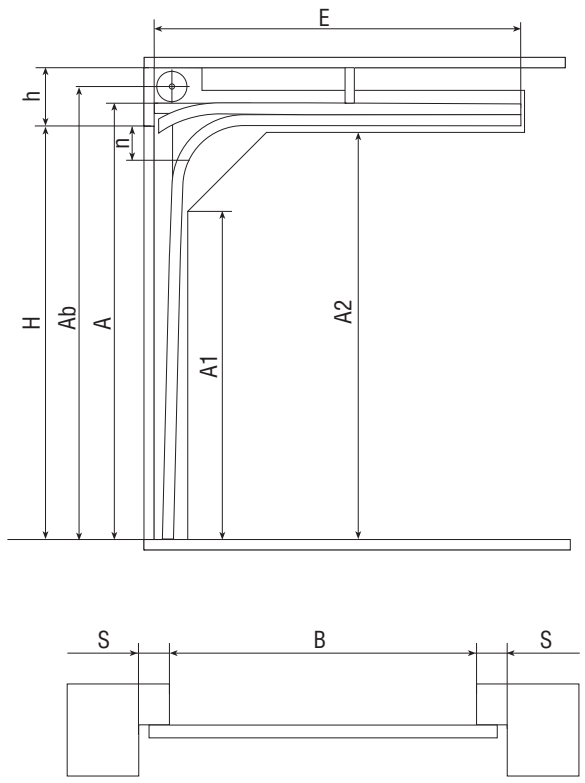
Standard components:
- Torsion spring mechanism for minimum 25 000 cycles operation
- Spring break safety device
- Cable break safety device
- Spring bumpers (if operator on shaft)
- Handle
- Latch
- Technical data

Optional components:
- Torsion spring mechanism for 50 000, 75 000, 100 000 cycles operation
- Windows
- Pass door
- Key lock
- Automation
- Manual emergency chain hoist
- Anticorrosion set

LIFT TYPES

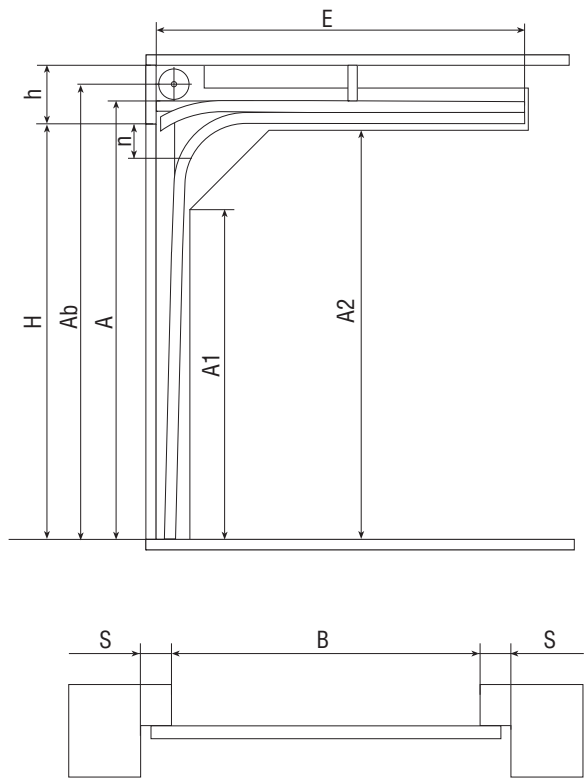
LOW LIFT FRONT DRUM

Parameter	Description	Space requirements
H, mm	Height of opening	H
h, mm	Headroom height	h ≥ 230 manual (260 mm operator)
B, mm	Opening width	B
A, mm	Vertical angle height	H + 110
Ab, mm	Shaft axis height and drum height	≥ 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



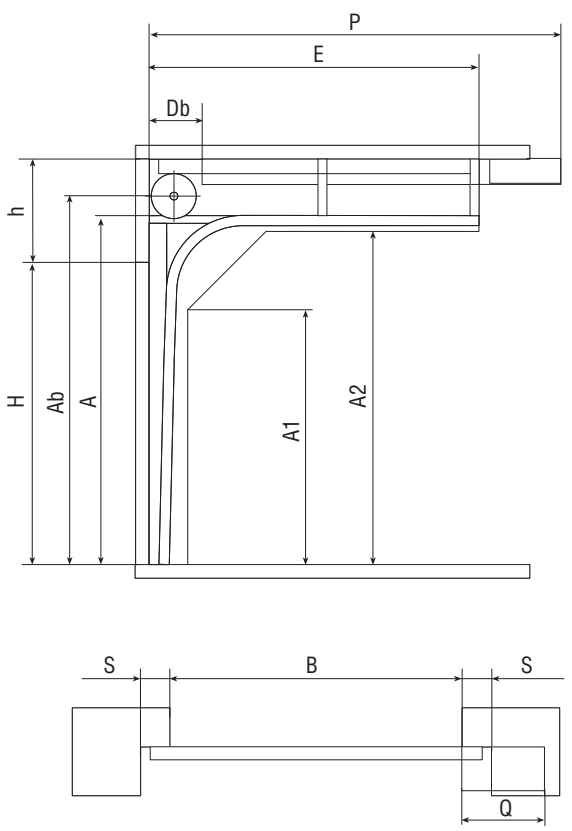
LOW LIFT FRONT DRUM (RKTN)

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	h ≥ 160 manual (200 mm operator)
B, mm	Opening width	B
A, mm	Vertical angle height	H + 54
Ab, mm	Shaft axis height and drum height	≥ 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



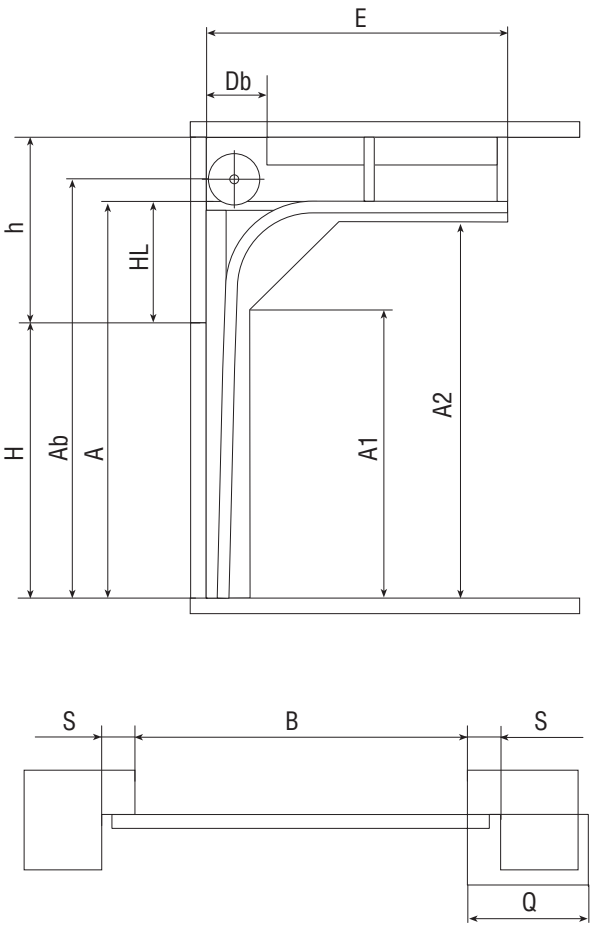
STANDARD LIFT

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	R381 h ≥ 420; R305 h ≥ 350
B, mm	Opening width	B
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



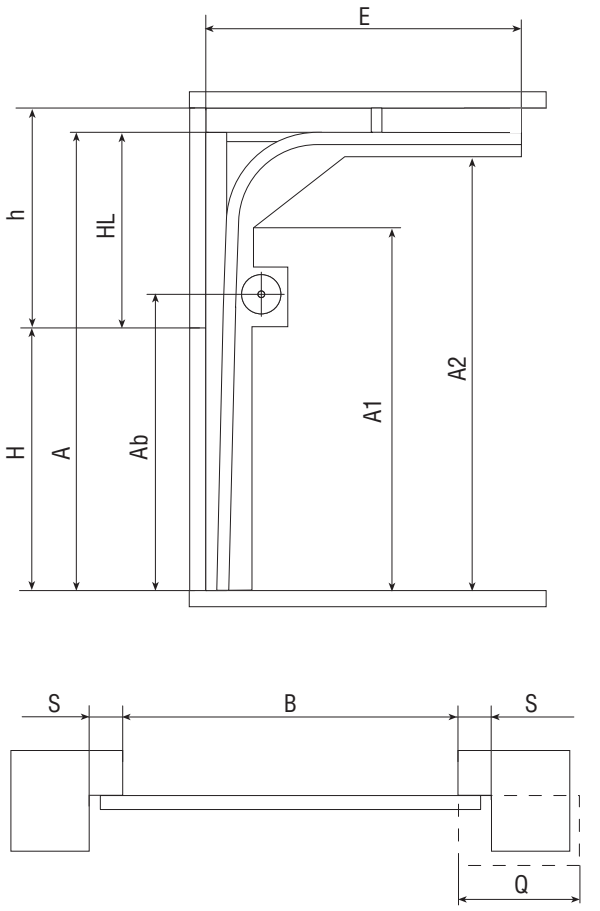
HIGH LIFT

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	h > 520
B, mm	Opening width	B
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



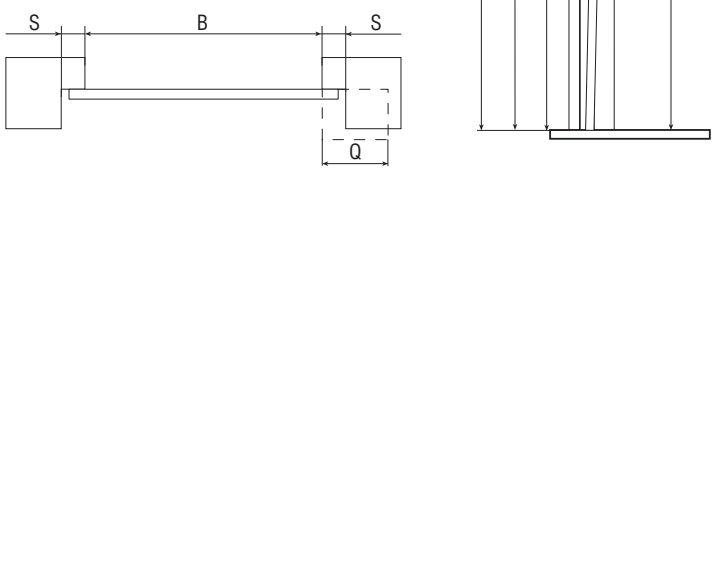
HIGH LIFT, SHAFT BELOW

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	h ≥1 600
B, mm	Opening width	B
HL, mm	Distance from the top of the opening to the horizontal track	1 330 ≤ HL ≤ h - 150
A, mm	Vertical angle height	H + HL
Ab, mm	Shaft axis height and drum height	H + 400...600 + 280 (tube); H + 1 203 (octagonal shaft)
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 and weight
S, mm	Minimum side room	300 min
Q, mm	Side room for shaft when electric operation	≥ 500



VERTICAL LIFT

Parameter	Description	Space requirements
H, mm	Opening height	H
h, mm	Headroom height	> H + 500
B, mm	Opening width	B
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	Расчетная формула
H, mm	Opening height	H
h, mm	Headroom height	> H + 120
B, mm	Opening width	B
A, mm	Vertical angle height	2H + 120
Ab, mm	Shaft axis height and drum height	H + 680 (tube); H + 1 203 (octagonal shaft)
A1, mm	Vertical track height	H + 850
S, mm	Minimum side room	500 min
Q, mm	Side room for shaft when electric operation	≥ 650