



NAVIFLEX INDUSTRIAL DOORS



NAVIFLEX

Naviflex specializes in consulting, designing, and manufacturing industrial door systems that support temperature circulation and control such as **PVC High Speed Doors**, **Roller Shutter Doors**, **Overhead Doors** and **Cold Doors**...with standard and customized sizes, which conform to European standards.



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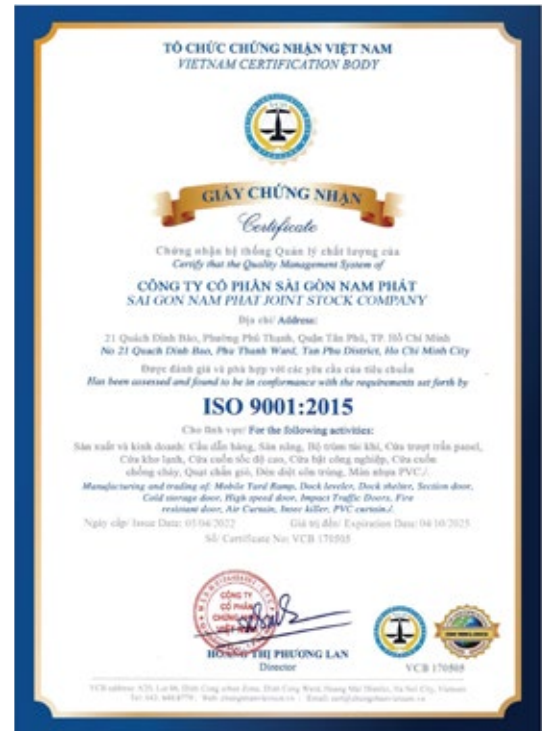
Production capacity

Naviflex operates its own facility with an area of up to **8,500 m²** with many advanced machines and equipment such as welding robots, CNC Plasma cutting machines, punching-stamping machines and powder coating systems, etc. Naviflex is now employing more than 60 experienced engineers, technicians and production team, who are ready to satisfy any requirements in terms of manufacturing progress.





BRAND CERTIFICATE



ISO

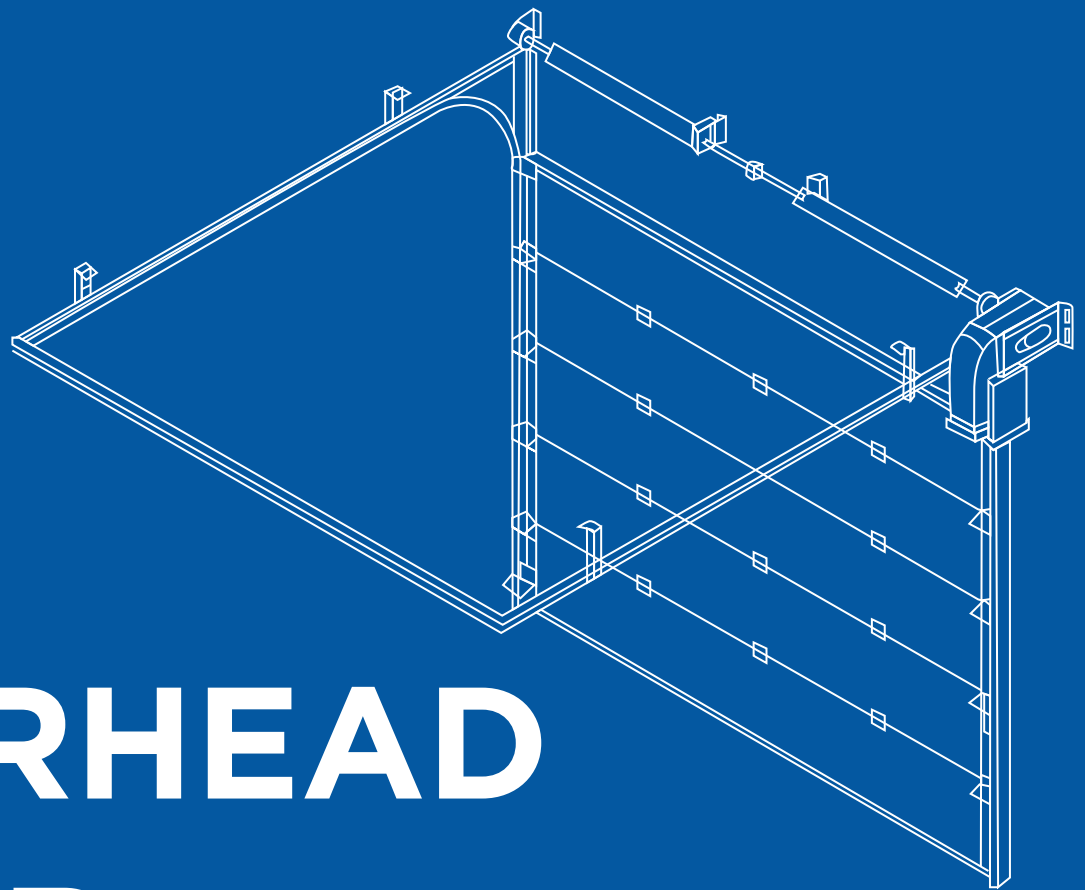


CE



INSPECTION OF FIRE PROTECTION

OVERHEAD DOOR



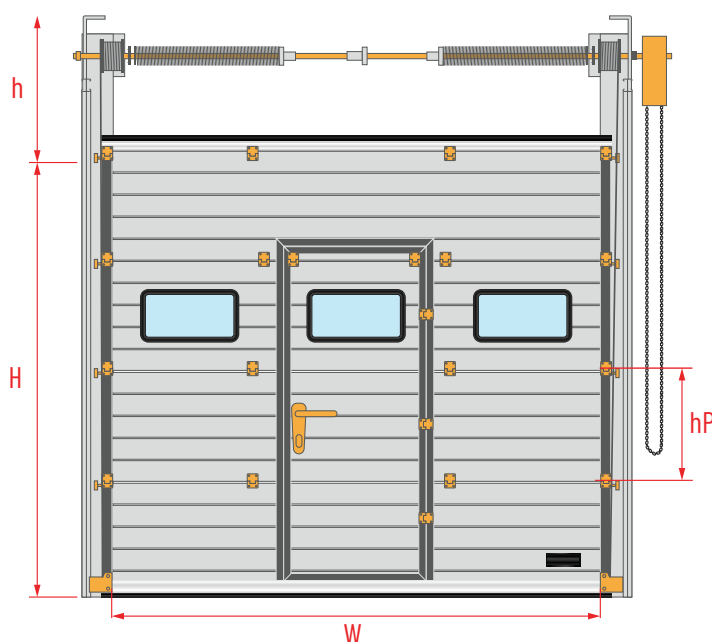
Advantages

- Protection against dirt and insects and quick ventilation.
- High wind-load resistance (wind grades of 10 - 12 (28 m/s - 35 m/s)).
- Durable and smooth operation at highest acceleration.
- Airbag sensor for safe automatic retract.

Specifications

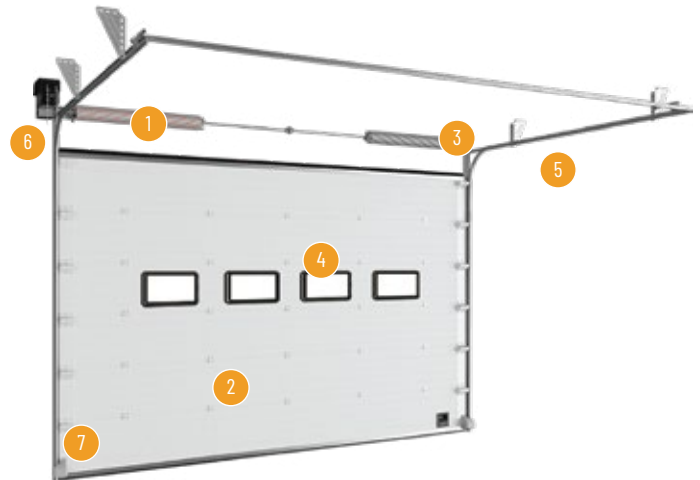
Max dimension (WxH)	8000x8000 (mm)
Opening/ closing speed	0.3 (m/s)
Panel type	2- layer PIR (PU) Sandwich Panel / Aluminum alloy
Panel thickness	42 (mm)
PU foam density	45 (kg/m ³)
Panel color	Pearl White / Customized
Galvanized steel surface	5+20 (micro) / 5+10 (micro)
Wind-load resistance	10 - 12 (28 m/s - 35 m/s)
Heat resistance	Above +10°C
Number of spring operations	10,000 - 25,000 (cycles)
Operation	Opening/closing mechanism options
Motor power	0.37 - 1.5 (Kw)
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ
Technology	ASTM-compliant powder coating

Drawings



Installation

The main door interfaces with external environment or connects warehouse and buffer room in manufacturing, processing and logistics facilities...where frequent and continuous circulation of goods is done.



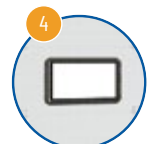
Counterbalanced torsion spring with its strength of 25000 operations



Panel



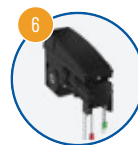
Cable Drum (Cable Roller)



Window



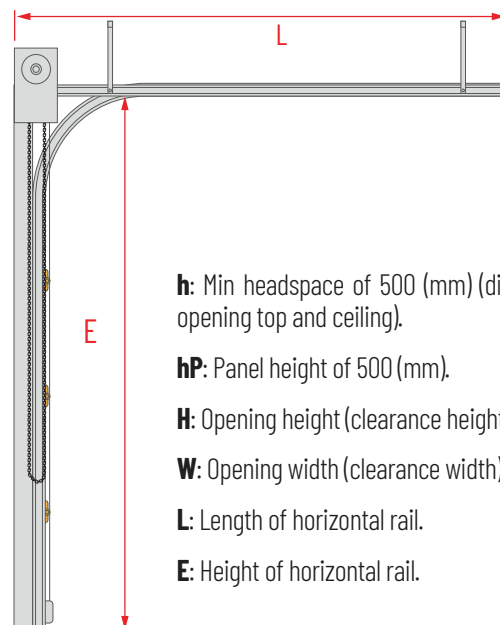
Rail



Motor



Safety pin for cable failure



h: Min headspace of 500 (mm) (distance between opening top and ceiling).

hP: Panel height of 500 (mm).

H: Opening height (clearance height).

W: Opening width (clearance width).

L: Length of horizontal rail.

E: Height of horizontal rail.

Advantages

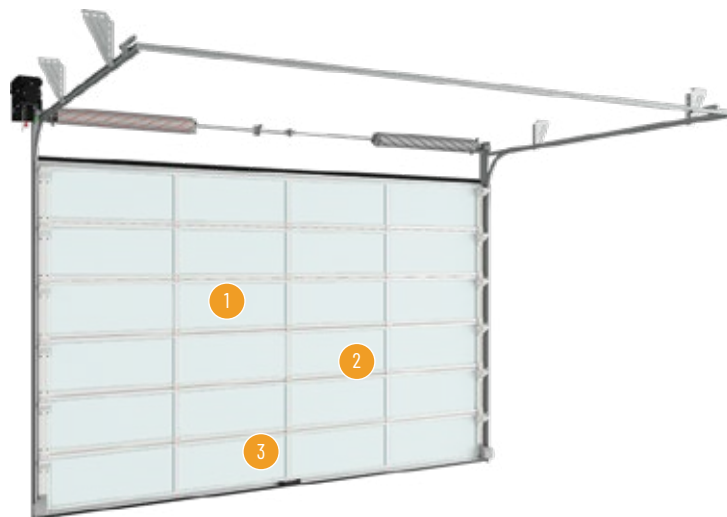
- Transparent aluminum and mica frame with good light penetration up to 98%.
- High strength with good wind-load resistance for wind scale 10 (28 m/s).
- Smooth and shiny surface for good appearance.
- Airbag sensor for safe automatic recovery.

Specifications

Max dimension (WxH)	8000x8000 (mm)
Opening/ closing speed	0.3 (m/s)
Panel type	Transparent Mica
Panel thickness	42 (mm)
PU foam density	45 (kg/m ³)
Panel color	Pearl White / Customized
Galvanized steel surface	5+20 (micro) / 5+10 (micro)
Wind-load resistance	10 - 12 (28 m/s - 35 m/s)
Heat resistance	Above + 10°C
Number of spring operations	10,000 - 25,000 (cycles)
Operation	Opening/closing mechanism options
Motor power	0.37 - 1.5 (Kw)
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ
Technology	ASTM-compliant powder coating

Installation

It is installed at the main entrance of showrooms, 4S stores and hotels..., which both help get good light as well as easier, safe and quick operation.



Transparent aluminum and mica alloy door panel

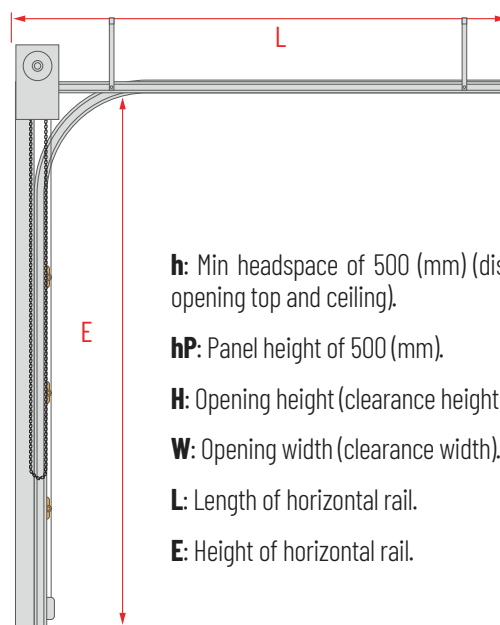
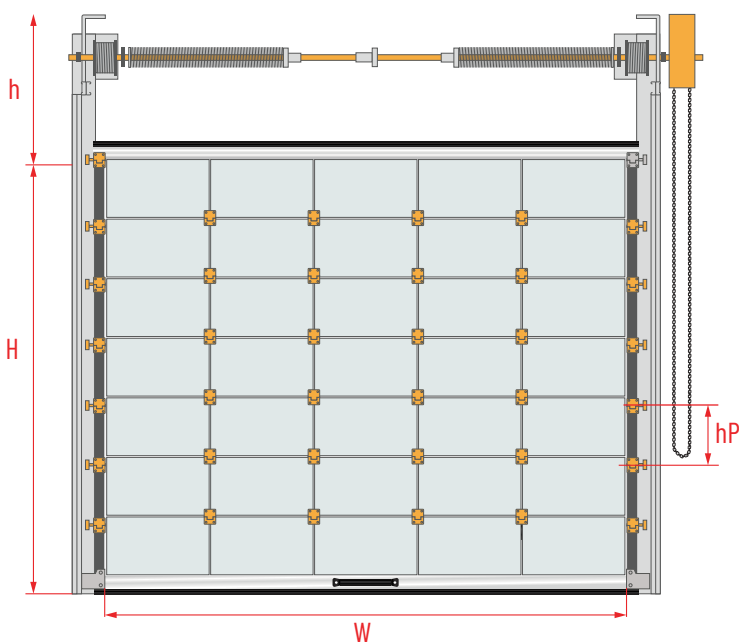


Coupling between 2 door panels



Door handle

Drawings



h: Min headspace of 500 (mm) (distance between opening top and ceiling).

hP: Panel height of 500 (mm).

H: Opening height (clearance height).

W: Opening width (clearance width).

L: Length of horizontal rail.

E: Height of horizontal rail.

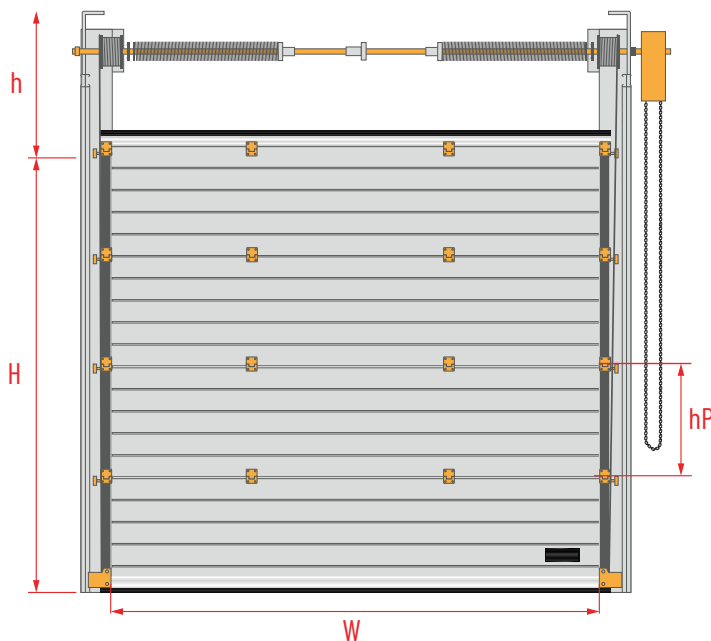
Advantages

- 99% thermal insulation performance.
- Optimal insulation with panel thickness up to 42 mm.
- Stable operation in deep-freeze environment of -15°C.
- Airbag sensor for automatic safe recovery.

Specifications

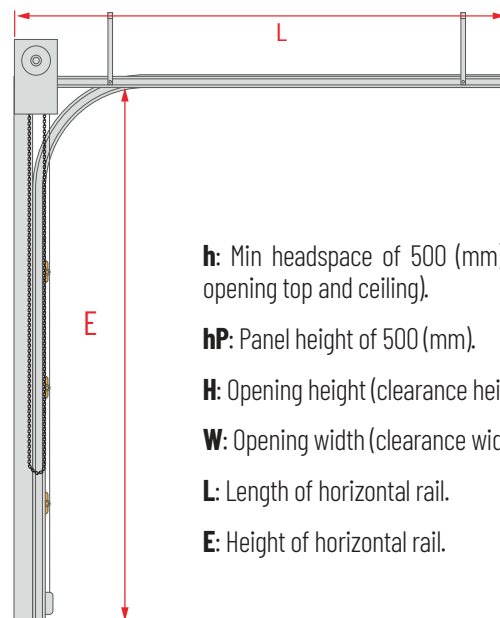
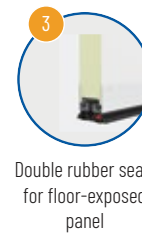
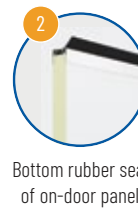
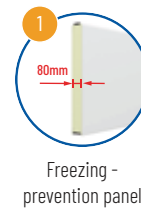
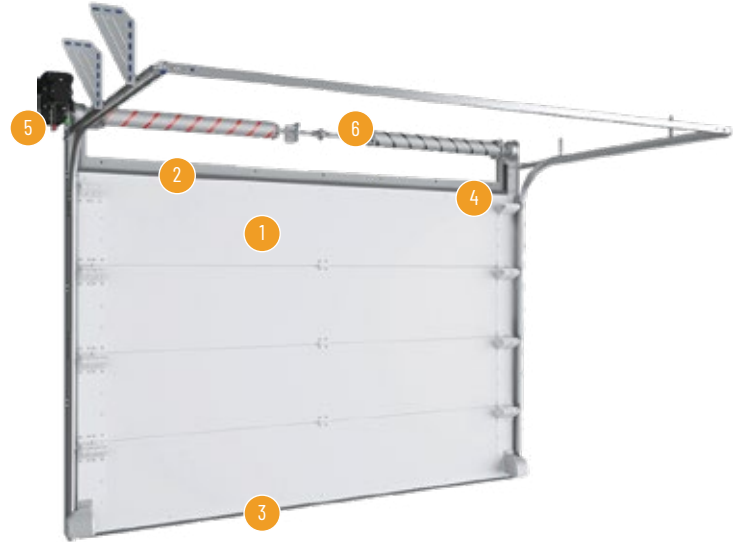
Max dimension (WxH)	8000x8000 (mm)
Opening/ closing speed	0.3 (m/s)
Panel type	2-layer PIR (PU) Sandwich Panel / Aluminum alloy
Panel thickness	42 (mm)
PU foam density	45 (kg/m ³)
Panel color	Pearl White / Customized
Galvanized steel surface	5+20 (micro) / 5+10 (micro)
Wind-load resistance	10 - 12 (28 m/s - 35 m/s)
Heat resistance	-15°C to 0°C (no condensation)
Number of spring operations	10,000 - 25,000 (cycles)
Operation	Opening/closing mechanism options
Motor power	0.37 - 1.5 (Kw)
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ
Technology	ASTM-compliant powder coating

Drawings



Installation

It is installed at interfaces with external environment or at the transitions between warehouses and buffer rooms in pharmaceutical, food and electronic facilities, etc., where strict temperature conditions must be satisfied.



h: Min headspace of 500 (mm) (distance between opening top and ceiling).

hP: Panel height of 500 (mm).

H: Opening height (clearance height).

W: Opening width (clearance width).

L: Length of horizontal rail.

E: Height of horizontal rail.

Advantages

- Smooth operation and good sound insulation with $R = 24$ dB.
- High wind-load resistance and high fire resistance.
- High aesthetics for building architecture.
- Airbag sensor for automatic safe recovery.

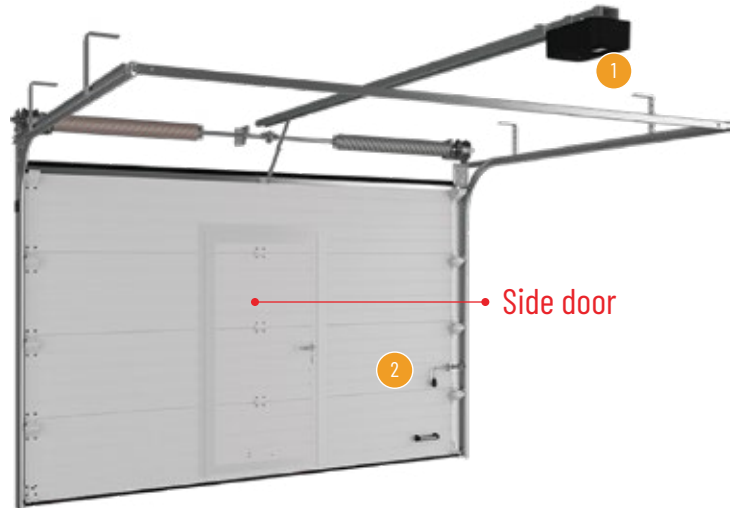
Specifications

Max dimension (WxH)	8000x8000 (mm)
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Panel thickness	42 (mm)
PU foam density	45 (kg/m ³)
Panel color	Pearl White / Customized
Galvanized steel surface	5+20 (micro) / 5+10 (micro)
Wind-load resistance	10 - 12 (28 m/s - 35 m/s)
Heat resistance	Above + 10°C
Number of spring operations	10,000 - 25,000 (cycles)
Operation	Opening/closing mechanism options
Motor power	0.37 - 1.5 (Kw)
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ

Technology ASTM-compliant powder coating

Installation

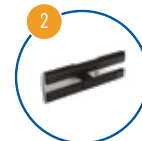
It is installed at main entrance of garages or parking lots of apartments, buildings...



Motor

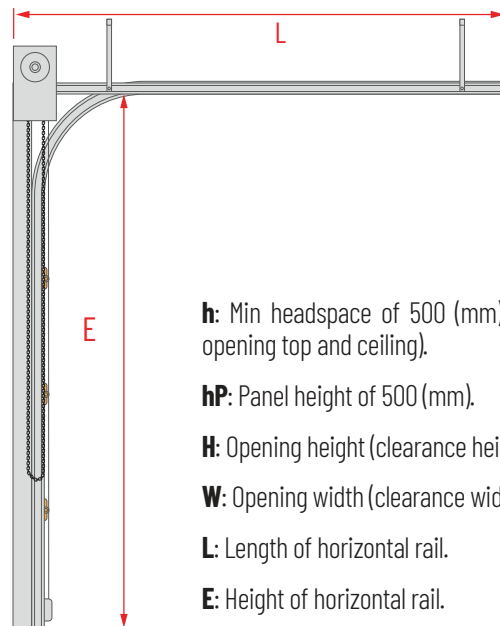
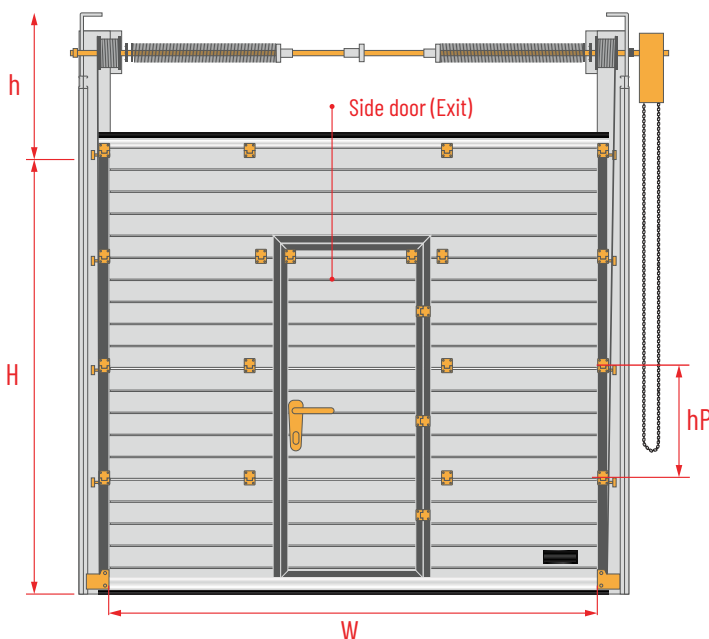


Door handle



Door lock

Drawings



h: Min headspace of 500 (mm) (distance between opening top and ceiling).

hP: Panel height of 500 (mm).

H: Opening height (clearance height).

W: Opening width (clearance width).

L: Length of horizontal rail.

E: Height of horizontal rail.

Advantages

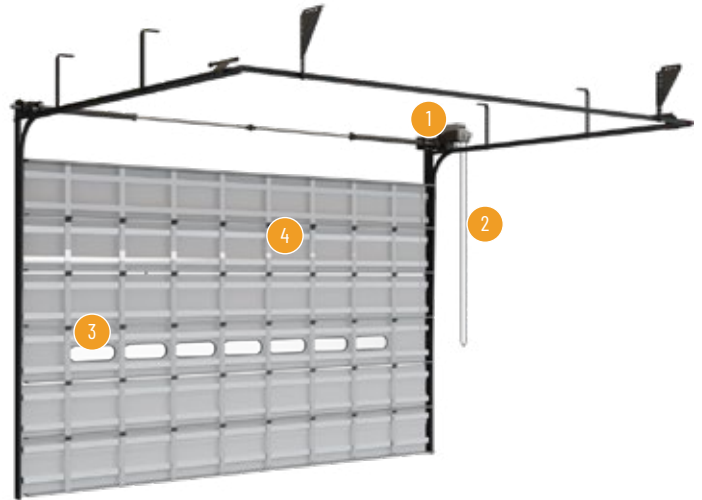
- Strong support frame with windload performance up to 750Pa.
- The U-shaped brace for high wind load resistance.
- High-grade steel hinges for good stability and anti-vibration strength.
- Good-looking design, aluminum surface coated with anti-rust paint for high durability.

Specifications

Max size (WxH)	15000x8000 (mm)
Opening/closing speed	0,25m/s
Aluminum type	Galvanized aluminum 0.7 mm (±0.1mm)
Thickness	0.2µm double-sided PE coating
Rail	2mm hot-dip galvanized steel
Color	Gray white / Customized
Wind-load resistance	750 Pa
Heat resistance	Above +10°C
Number of spring operations	25.000 - 30.000 (Cycles)
Operation	Opening/closing mechanism options
Voltage	380V, 3 phases, 50Hz
Technology	ASTM-compliant powder coating

Installation

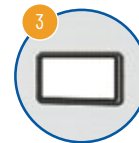
It is used as a main door or transitive door of a warehouse and a buffer room in manufacturing, processing and logistics facilities... and it is suitable for the sites where storms, high winds or harsh climatic conditions are present.



Motor



Chain block

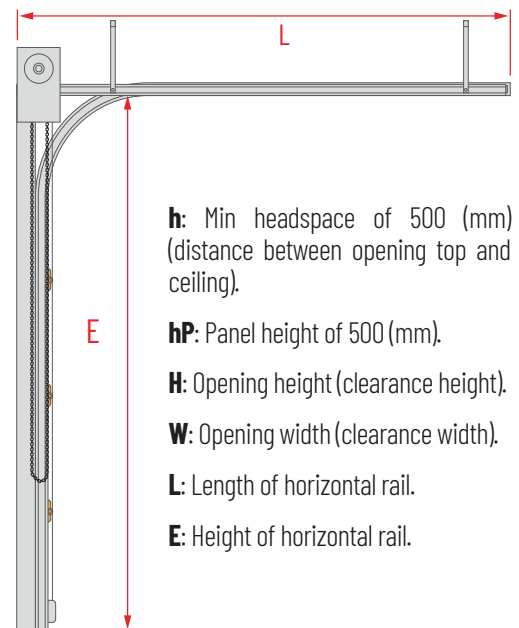
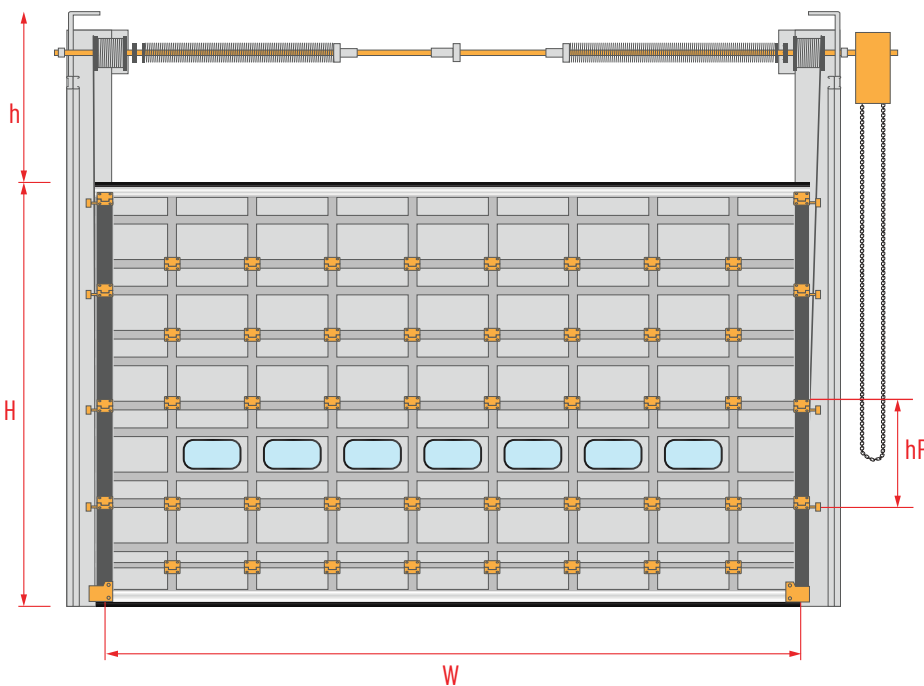


Window



Hinge

Drawings



h: Min headspace of 500 (mm) (distance between opening top and ceiling).

hP: Panel height of 500 (mm).

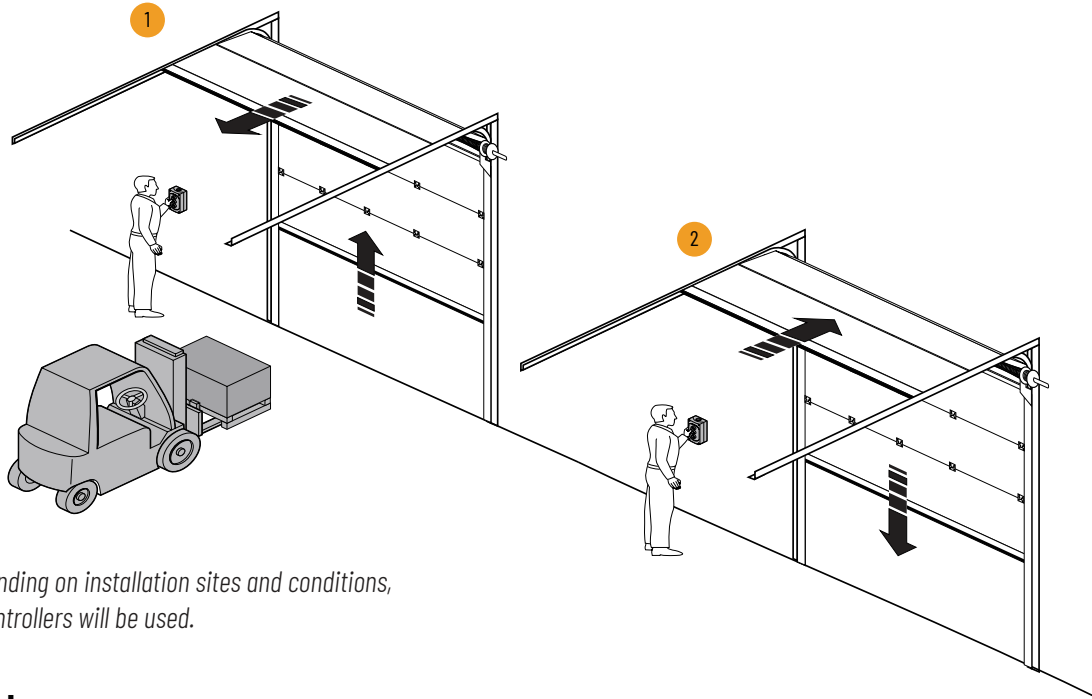
H: Opening height (clearance height).

W: Opening width (clearance width).

L: Length of horizontal rail.

E: Height of horizontal rail.

How to Operate Door



**Note: Depending on installation sites and conditions, different controllers will be used.*

Accessories



Rail



Motor



Motor



Door lock



Counterbalance spring



Cable roller



Door handle



Cable



Safety lock



Window

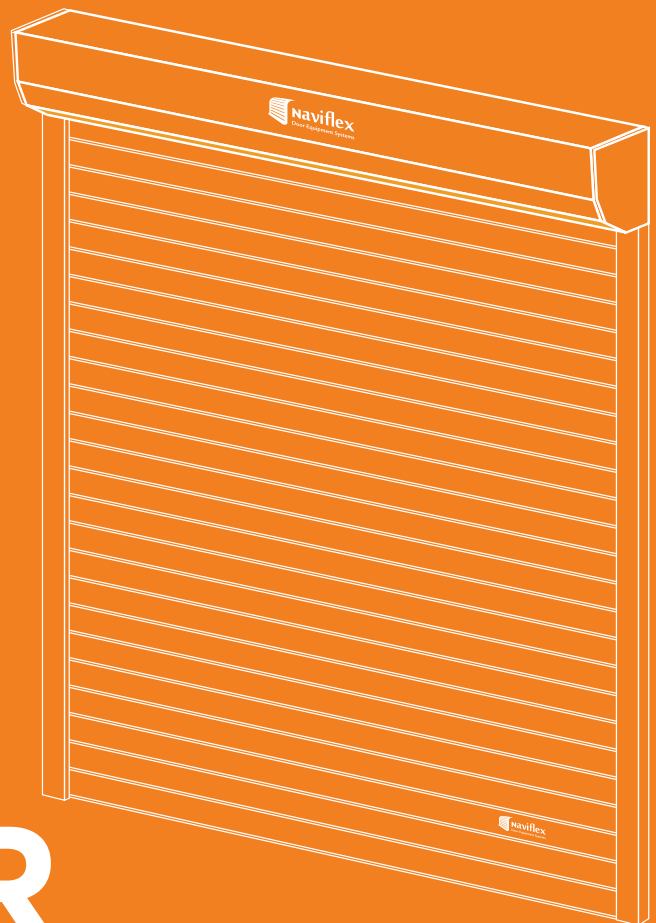


Manual winch



Escape bar

ROLLER SHUTTER DOOR



Advantages

- Steel plate with a thickness of 0.6 - 1.2 (mm) for high strength.
- Vent provided with 2-3 middle slats for good air circulation.
- Optimal impact resistance, sound insulation and noise reduction.
- Alarm when fault detected, manual operation in case of power failure.

Specifications

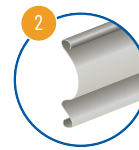
Max size (WxH)	6000x6000 (mm)
Opening and closing speed	0.3 (m/s)
Material of slat	Steel
Slat width	84 (mm)
Color of slat	Cream (standard color) / Customized
Technology	ASTM-compliant powder coating
Continuous operation frequency	<10 minutes
Operation temperature	0°C to +50°C
Noise level	R<60dB
Wind-load resistance	Level 8
Operation	Push button / Remote controller
Power (motor)	Subject to door cross section and operation environment
Voltage	1 phase 220 ± 10% V, 50 / 60HZ

Installation

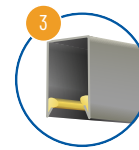
It is commonly used for residential houses, warehouses and workshops ... where it is installed at main entrances for windload and asset protection purposes.



Motor and chain



0.6 - 1.0mm slat

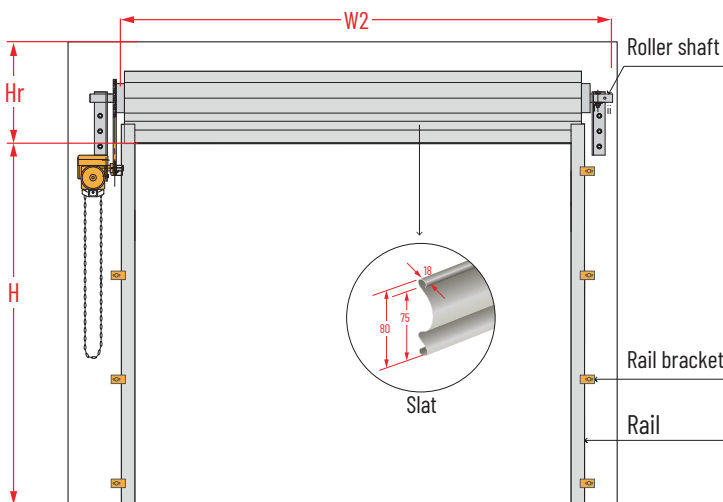


Rail

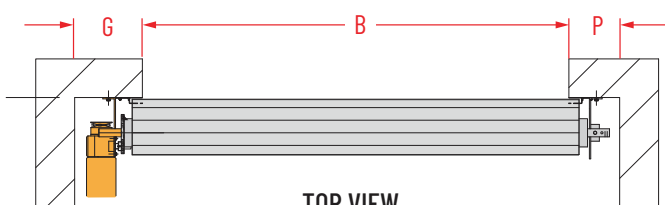


Roller shaft

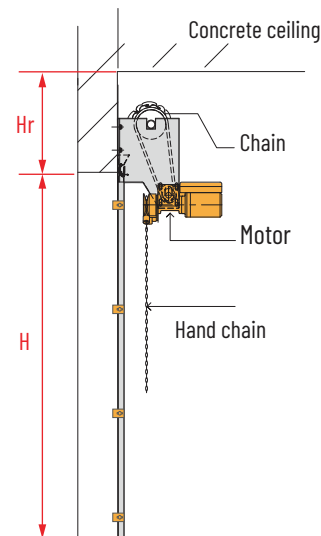
Drawings



FRONT VIEW



TOP VIEW



SIDE VIEW

Hr: Min headspace of 150 mm (distance between opening top and ceiling).

H: Opening height (distance from floor to opening top).

B: Opening width (distance between left and right side of door opening).

P: Min installation clearance at non-motor side.

G: Min installation clearance at motor side.

Advantages

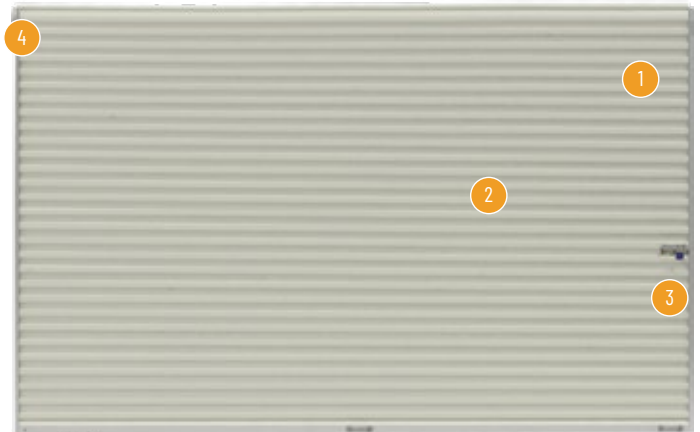
- Door cross section up to 70 m² suitable for large area workshop.
- 1.2 - 1.6 (mm) thick slats for high windload strength and good security.
- Smooth and stable operation with min risks.
- Possible manual operation thanks to spring assistance for friction reduction.

Specifications

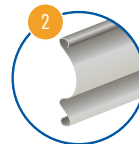
Max size (WxH)	10000x8000 (mm)
Opening and closing speed	0.3 (m/s)
Material of slat	Steel
Slat width	1.2 - 1.6 (mm)
Color of slat	Cream (standard color) / Customized
Technology	ASTM-compliant powder coating
Continuous operation frequency	<10 minutes
Operation temperature	0°C to to 50°C
Noise level	R<60dB
Wind-load resistance	Level 8
Operation	Push button / Remote controller
Power (motor)	Subject to door cross section and operation environment
Voltage	1 phase 220 ± 10% V, 50 / 60HZ

Installation

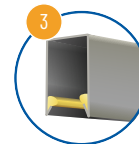
It is installed at main entrance in warehouses and manufacturing facilities... It is suitable for large spaces for super-sized vehicles and equipment.



Motor and chain of 2000 (kg) load



1,2 - 1,6 (mm) slat

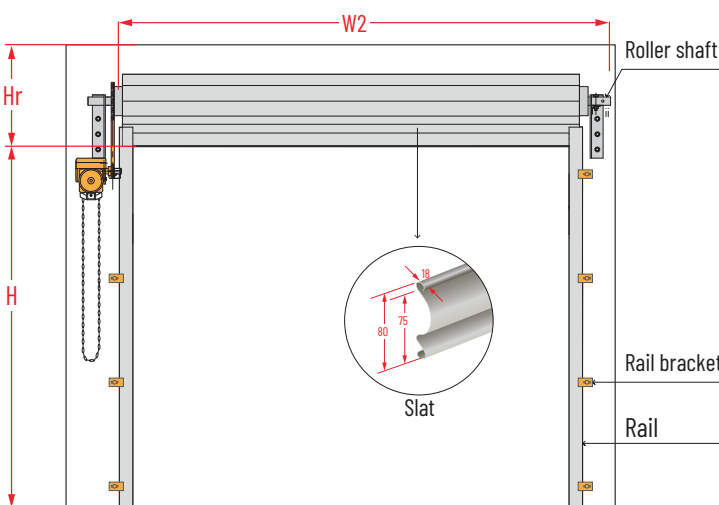


Rail

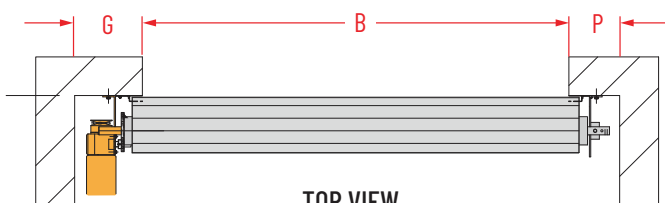


Roller shaft

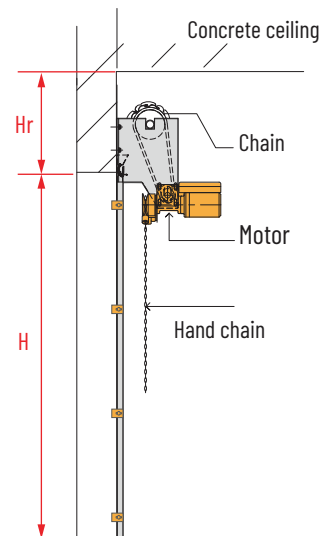
Drawings



FRONT VIEW



TOP VIEW



SIDE VIEW

- Hr:** Min headspace of 150 mm (distance between opening top and ceiling).
- H:** Opening height (distance from floor to opening top).
- B:** Opening width (distance between left and right side of door opening).
- P:** Min installation clearance at non-motor side.
- G:** Min installation clearance at motor side.

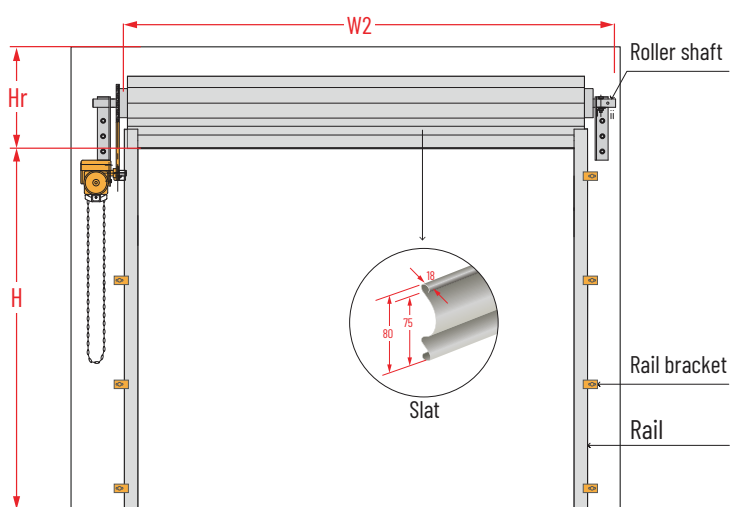
Advantages

- 2-3 times more flexible and faster than the standard ones.
- Made from 500 mm thick steel slats for high strength.
- Protection against heat transfer, high anti-rust property and cost effectiveness.
- Manual operation in case of power failure.

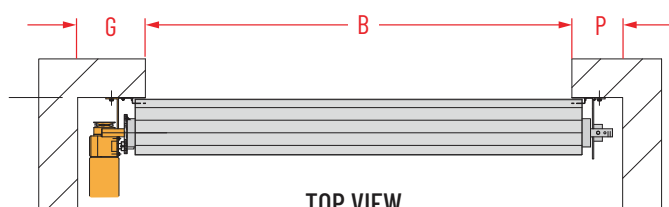
Specifications

Max size (WxH)	6000x6000 (mm)
Opening and closing speed	0.3 (m/s)
Slat material	Steel
Slat thickness	0.45 - 0.5 (mm)
Slat color	Coating with 2 colors cream- turquoise / Optional
Continuous operation frequency	< 10 minutes
Operation temperature	0°C to + 50°C
Operation	Push button / Remote controller
Motor power	Subject to door cross section and operation environment
Voltage	1 phase 220 ± 10% V, 50 / 60HZ

Drawings



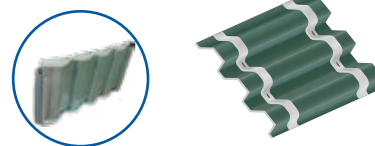
FRONT VIEW



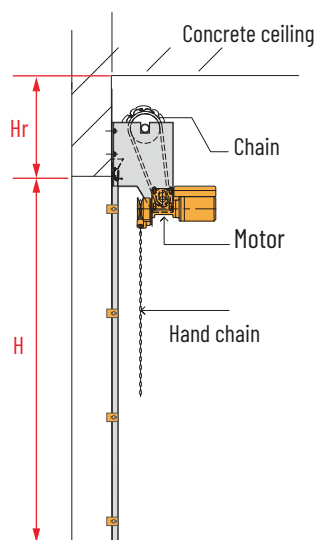
TOP VIEW

Installation

It is installed for warehouses and workshops or main entrances where high traffic density is available and security control is required such as factories and logistics warehouses.



Door with polyglines running along its body for friction reduction



SIDE VIEW

- Hr:** Min headspace of 150 mm (distance between opening top and ceiling).
H: Opening height (distance from floor to opening top).
B: Opening width (distance between left and right side of door opening).
P: Min installation clearance at non-motor side.
G: Min installation clearance at motor side.

Advantages

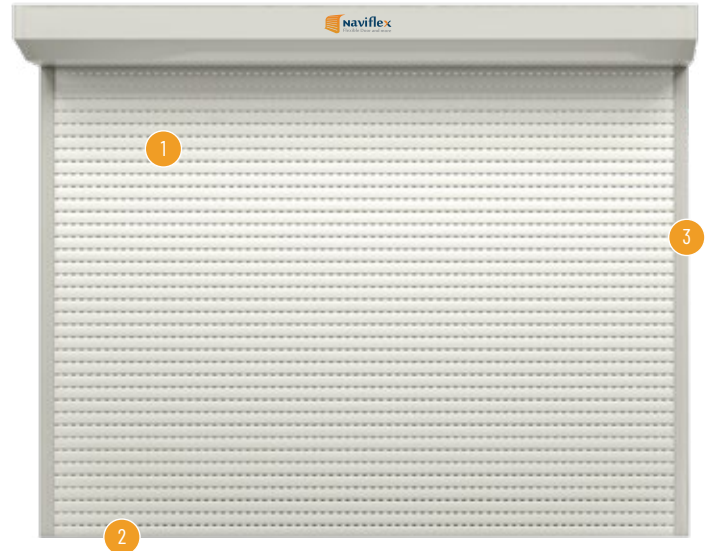
- 0.8 - 1.2 mm thick steel slat for high wind-load resistance and good bearing capacity.
- Shock-absorbing rubber seal for stable and smooth operation
- Protection against heat transfer, high anti-rust property and cost effectiveness.
- Manual operation in case of power failure

Specifications

Max size (WxH)	6000x6000 (mm)								
Slat material	Aluminum								
Slat thickness	0.8 - 1.2 (mm)								
Slat color	<table border="1"> <tr> <td>RSD - 001</td> <td>RSD - 002</td> <td>RSD - 003</td> <td>RSD - 004</td> </tr> <tr> <td>RSD - 005</td> <td>RSD - 006</td> <td>RSD - 007</td> <td>RSD - 008</td> </tr> </table>	RSD - 001	RSD - 002	RSD - 003	RSD - 004	RSD - 005	RSD - 006	RSD - 007	RSD - 008
RSD - 001	RSD - 002	RSD - 003	RSD - 004						
RSD - 005	RSD - 006	RSD - 007	RSD - 008						
Opening and closing speed	0.3 (m/s)								
Operation temperature	0°C to + 50°C								
Motor power	Subject to door cross section and operation environment								
Voltage	1 pha 220 ± 10% V, 50 / 60HZ								
Noise level	R < 60dB								
Technology	ASTM-compliant powder coating								
Operation	Push button / Remote controller								

Installation

It is installed for warehouses and workshops or main entrances where high traffic density is available and security control is required such as factories and logistics warehouses.



Slat

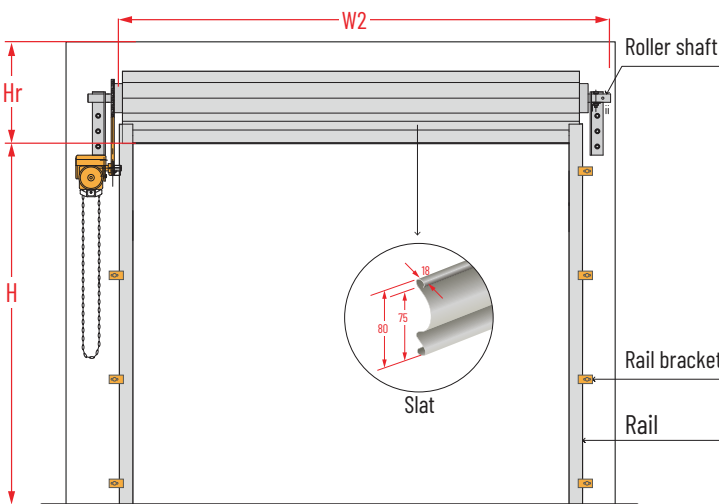


Rubber seal

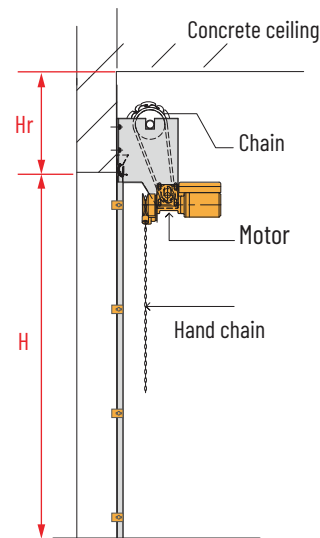


Rail

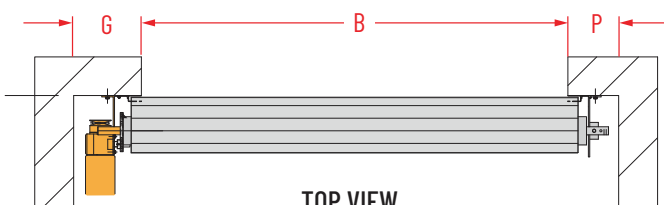
Drawings



FRONT VIEW



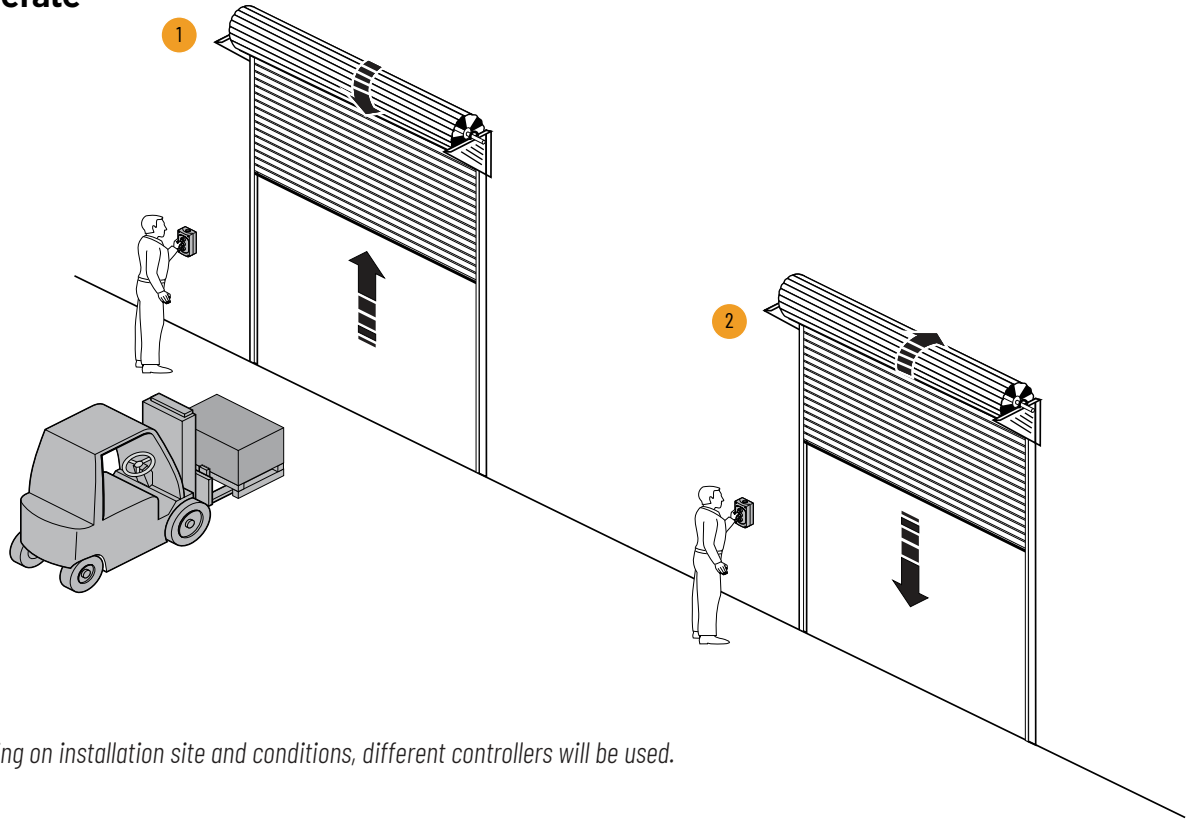
SIDE VIEW



TOP VIEW

- Hr:** Min headspace of 150 mm (distance between opening top and ceiling).
- H:** Opening height (distance from floor to opening top).
- B:** Opening width (distance between left and right side of door opening).
- P:** Min installation clearance at non-motor side.
- G:** Min installation clearance at motor side.

How to operate

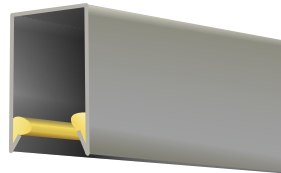


**Note: depending on installation site and conditions, different controllers will be used.*

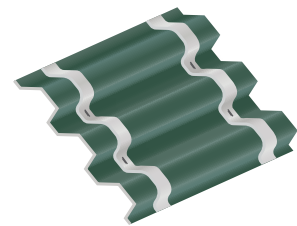
Accessories



Motor 1200 - 2000kg



Rail



Instant door slats



Rubber seal



Slat



Roller shaft house

HIGH SPEED DOOR



Advantages

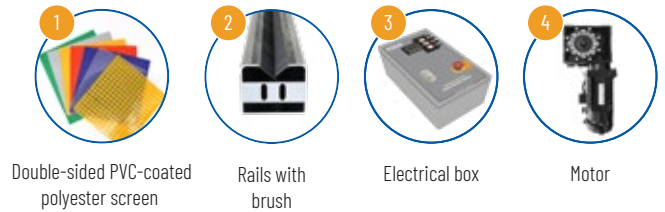
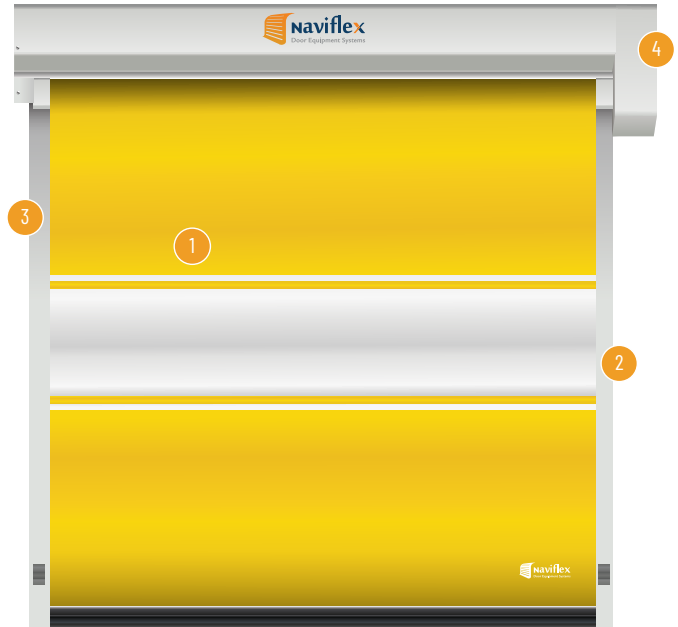
- Flexible opening and closing with a speed from 1.5 to 2.0 m/s.
- Protection against dirt and insects with high strength.
- Lightweight PVC screen without vibration for 1000 operations per day.
- Diverse control system such as: remote controller, loop sensor and push button.

Specifications

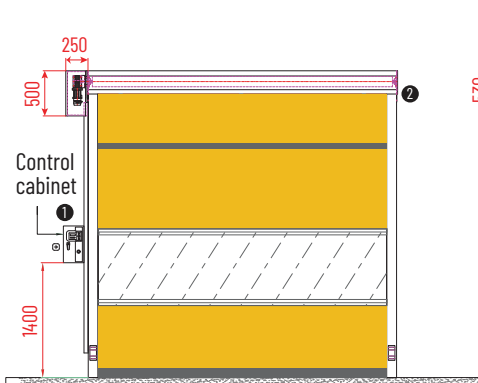
Max size (WxH)	6000x6000 (mm)
Opening/closing speed	0.6 - 2.0 (m/s)
Screen material	Double-sided PVC-coated polyester
Screen thickness	1 - 2 (mm) (Customized)
Color	RAL 5010 RAL 1003 RAL 2004 RAL 9005
Technology	ASTM-compliant powder coating (door frame and cover)
Noise level	R<30dB
Operation temperature	Above +10°C (No condensation)
Control system	Options subject to operation frequency, space and environmental conditions
Safety device	Safety sensor
Motor power	0.75 - 2.2 (Kw) (depending on door cross section and installation environment)
Ingress protection rating	IP55 / IP65
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ

Installation

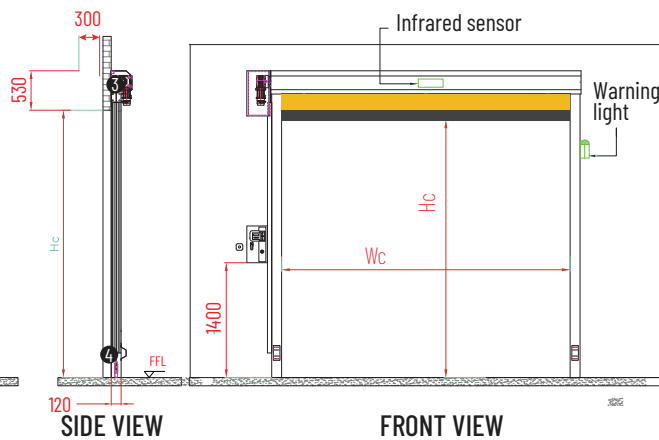
It is installed for warehouses or workshops or for entrances between workshop/warehouse and workshop/warehouse in facilities that manufacture packaging materials, electronic components, pharmaceutical products, etc., where their temperature is above 10°C.



Drawings

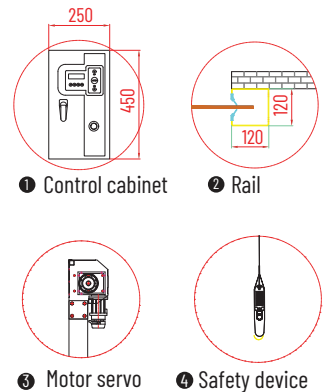


FRONT VIEW



SIDE VIEW

FRONT VIEW



1 Control cabinet

2 Rail

3 Motor servo

4 Safety device



TOP VIEW

Hc: Clearance height (clear).
Wc: Clearance width (clear).

Wt: Min installation clearance at non-motor side.
Wr: Min installation clearance at motor side.

Advantages

- Auto recovery in case of an obstacle for safety purposes
- Screen opens and automatically recovers without damage.
- Exceptional rail structure allows increasing thermal insulation by 99%
- High durability with 1000 operations per day.

Specifications

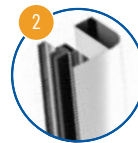
Max size (WxH)	3000x6000 (mm) / Customized		
Opening/closing speed	0.6 - 2.0 (m/s)		
Screen material	Double-side PVC-coated polyester		
Screen thickness	1 - 2 (mm) (Customized)		
Color	RAL 5010	RAL 1003	RAL 2004 RAL 9005
Technology	ASTM-compliant powder coating		
Noise level	R<30dB		
Operation temperature	0°C to +10°C (No condensation)		
Control system	Options subject to operation frequency, space and environmental conditions		
Safety device	Safety sensor		
Motor power	0.75 - 2.2 (Kw) (depending on door cross section and installation environment)		
Ingress protection rating	IP55 / IP65		
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ		

Installation

It is installed inside the cold storage or the freezer from 0°C to 10°C where high frequency of circulation is needed but specified temperature must be maintained such as pharmaceutical and seafood storages.



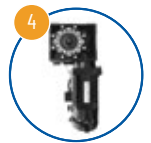
Screen and rail zip



Recovery rail

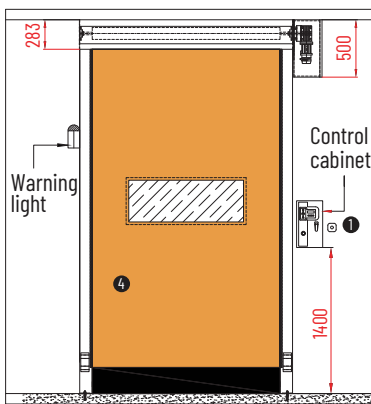


Electrical box

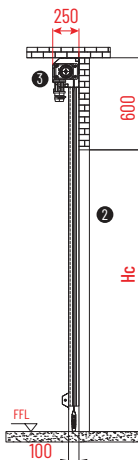


Motor

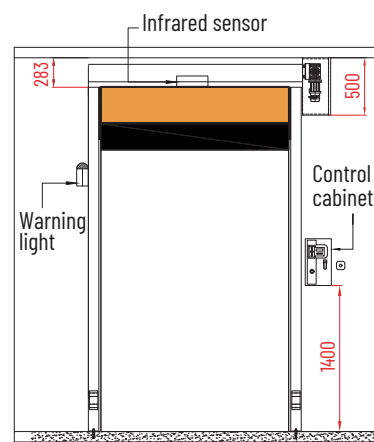
Drawings



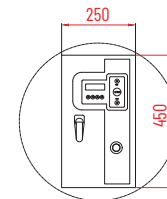
FRONT VIEW



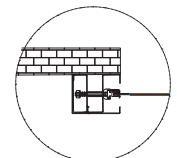
SIDE VIEW



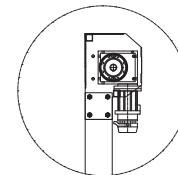
FRONT VIEW



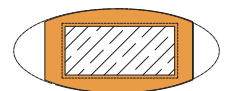
1 Control cabinet



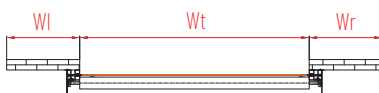
2 Recovery rail



3 Motor servo



4 Window



TOP VIEW

Hc: Clearance height (clear).

Wc: Clearance width (clear).

Wt: Min installation clearance at non-motor side.

Wr: Min installation clearance at motor side.

Advantages

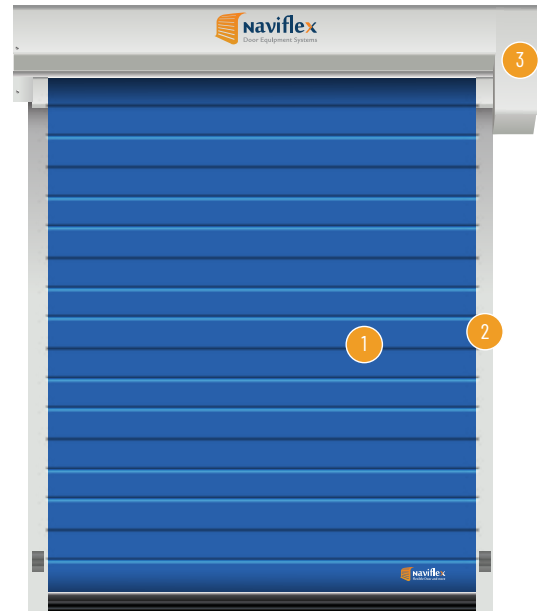
- Fast opening and closing: min 0.6 m/s- max 2 m/s, time savings.
- Durable operation for freezer storage from -25°C without condensation.
- Foam insulation for heat loss prevention.
- No tearing of screen in case of a collision, cost savings.

Specifications

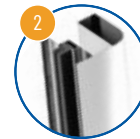
Max size (WxH)	3000x6000 (mm) / Customized
Opening/closing speed	0.6 - 2.0 (m/s)
Screen material	PVC-coated double-sided polyester
Screen thickness	5 (mm)(insulation foam included) / Customized
Color	RAL 5010 RAL 1003 RAL 2004 RAL 9005
Công nghệ	ASTM-compliant powder coating
Noise level	R<30dB
Operation temperature	-25°C to +0°C (No condensation)
Control system	Options subject to operation frequency, space and environmental conditions
Safety device	Safety sensor
Motor power	0.75 - 2.2 (Kw)
Ingress protection rating	IP65
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ

Installation

It is installed in factories for travelling and separating storages from others. Especially it is installed as a partition between cold storage and freezer in the range of -25°C to 0°C.



Screen and rail zip

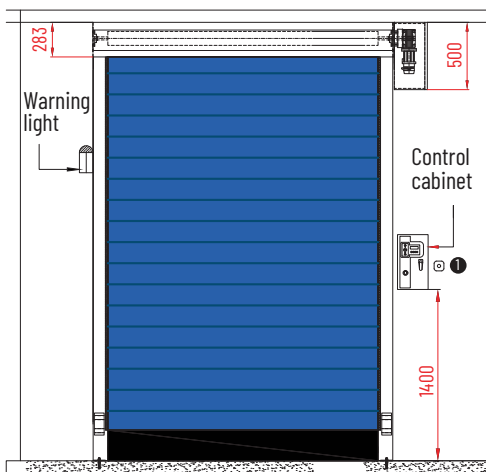


Recovery rail

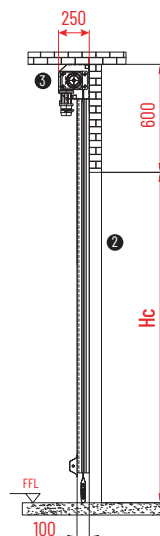


Motor

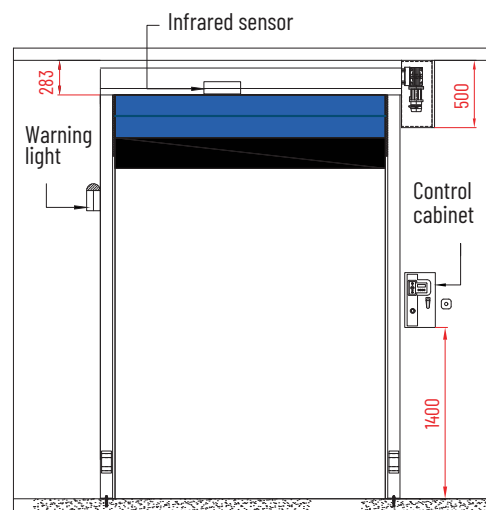
Drawings



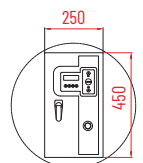
FRONT VIEW



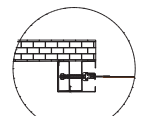
SIDE VIEW



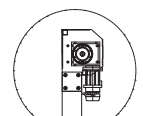
FRONT VIEW



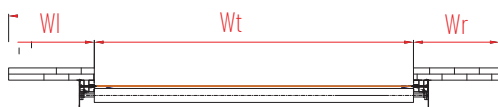
1 Control cabinet



2 Recovery rail



3 Motor servo



TOP VIEW

Hc: Clearance height (clear).

Wc: Clearance width (clear).

Wt: Min installation clearance at non-motor side.

Wr: Min installation clearance at motor side.

Advantages

- 1000 operations per day with max speed of 1.5 m/s.
- Aluminum alloy crossbar for tension and wind-load resistance.
- For larger door cross sections.
- Layer-by-layer opening and closing mechanism with high stability.

Specifications

Max size (WxH)	12000x8000 (mm) / Customized		
Opening/closing speed	0.6 - 1.5 (m/s)		
Screen material	Folding		
Screen thickness	1 - 2 (mm) (Customized)		
Color	RAL 5010	RAL 1003	RAL 2004 RAL 9005
Technology	ASTM-compliant powder coating		
Noise level	R<30dB		
Operation temperature	+10°C (No condensation)		
Control system	Options subject to operation frequency, space and environmental conditions		
Safety device	Safety sensor		
Motor power	0.75 - 2.2 (Kw)		
Ingress protection rating	IP54 / IP65		
Voltage	1 phase 220 ± 10% V, 50 / 60HZ or 3 phases 380 ± 10% V, 50 / 60HZ		

Installation

It is installed in factories for travelling and separating storages from others. Especially it is installed as a partition between cold storage and freezer in the range of -25°C to 0°C.



Drawstrings and crossbars

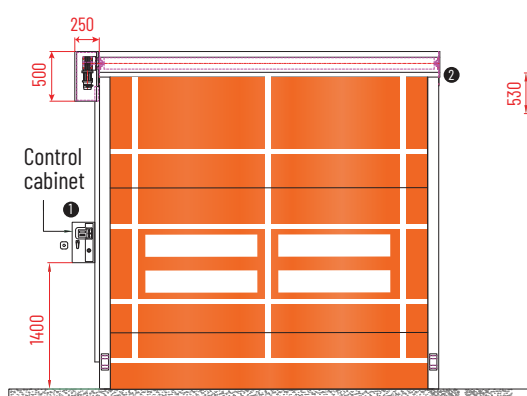


Drawstring reel

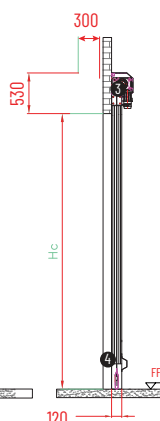


Motor

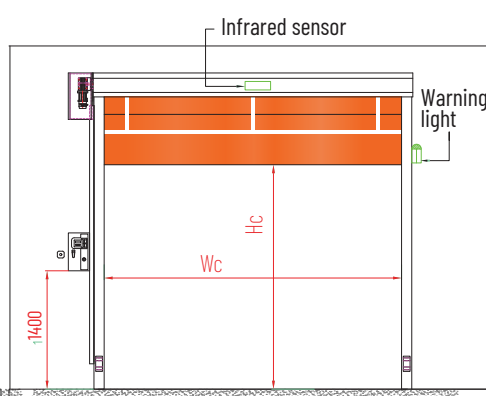
Drawings



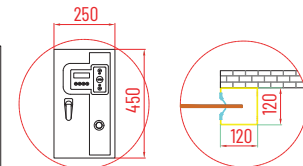
FRONT VIEW



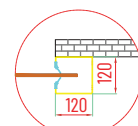
SIDE VIEW



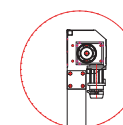
FRONT VIEW



1 Control cabinet



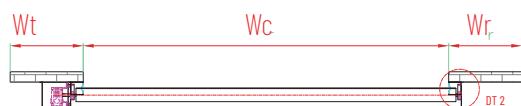
2 Door rail



3 Motor servo



4 Safety device



TOP VIEW

Hc: Clearance height (clear).
Wc: Clearance width (clear).

Wt: Min installation clearance at non-motor side.
Wr: Min installation clearance at motor side.

Advantages

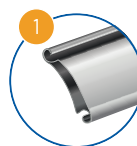
- Fast opening and closing speed (0.6 - 1.5 m/s) with 300 operations per day.
- Made of aluminum alloy laminates for high durability.
- Sound insulation, impact resistance with wind-load resistance of scale 10 (110 km/h).
- Sensor for automatic recovery in case of an obstacle.

Specifications

Max size (WxH)	6000x6000 (mm) / Customized
Opening/closing speed	0.6 - 1.5 (m/s)
Slat material	Profiled aluminum
Slat thickness	9.5 (mm)
Slat color	Cream (standard) / Customized
Open/close frequency	300 (operations/day)
Ingress protection rating	IP54 / IP65
Operation temperature	10°C (No condensation)
Operation system	Options subject to operation frequency, space and environmental conditions
Safety device	Safety sensor

Installation

It is installed at main entrances where there is high traffic density to support security control, dust and insects protection such as logistics warehouses, production and processing facilities.

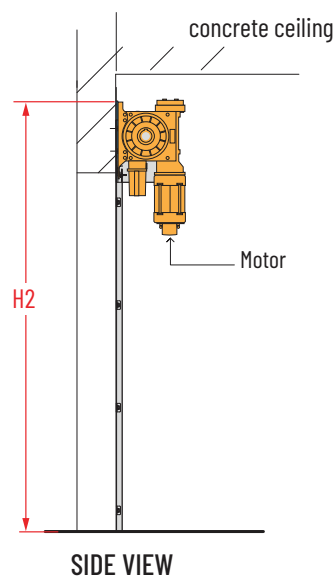
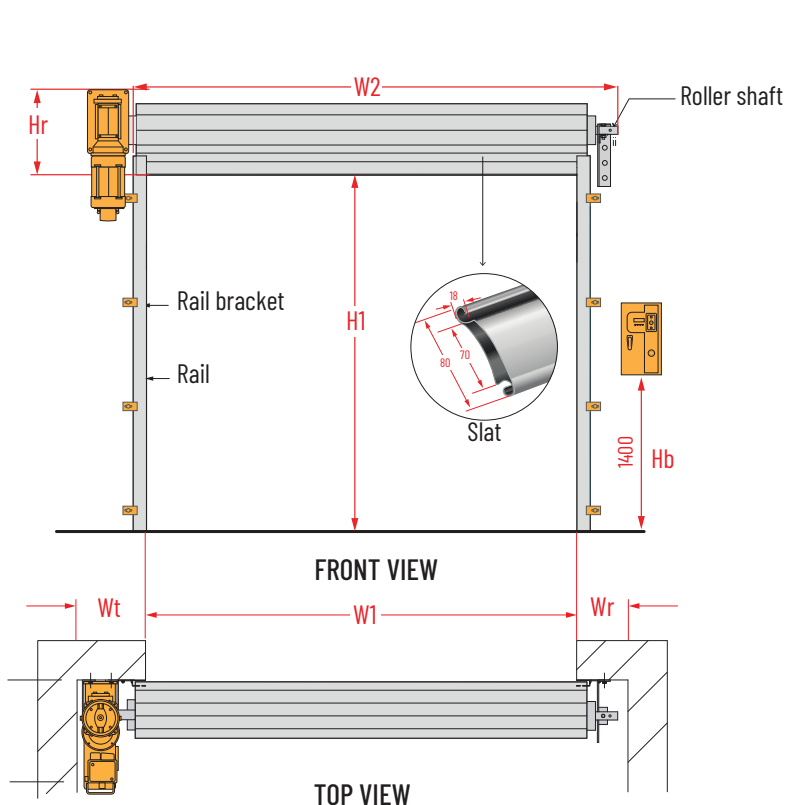


Profiled aluminum slats

Motor

Rail

Drawings



- Hr:** Headspace (distance between opening top and ceiling).
- H1:** Clearance height (clear).
- W1:** Clearance width (inside).
- H2:** Tare height.
- W2:** Tare width.
- Wr:** Min installation clearance at non-motor side.
- Wt:** Min installation clearance at motor side.
- Hb:** The height of mounting control panel (standard 1400 mm).

Advantages

- Flexible opening and closing (1 - 2 m/s) with 300 operations per day
- Profiled aluminum slats with PU foam inside for thermal insulation.
- Wind-load resistance, security and no shaking at high speed.
- Sensor for automatic recovery in case of an obstacle.

Specifications

Max size (WxH)	8000x8000 (mm) / Customized
Max opening/closing speed	1 - 2 (m/s)
Operation frequency	300 (operations per/day)
Slat	Profiled aluminum
Slat color	Profiled aluminum with colors of gray, blue, white, silver and yellow (standard) / Customized
Technology	ASTM-compliant powder coating
Operation temperature	From -25°C to 0°C (No condensation)
Ingress protection rating	IP54 / IP65
Noise level	R<25dB
Motor power	Subject to door cross section and operation environment
Safety device	Safety sensor
Operating device	Options subject to operation frequency, space and environmental conditions.

Installation

It is installed at main entrances where there is a frequent transportation of goods. It is suitable for storages with operating temperatures from -25°C to 0°C for thermal insulation and insects protection.



Profiled aluminum slats with PU foam insulation



Structure of slats

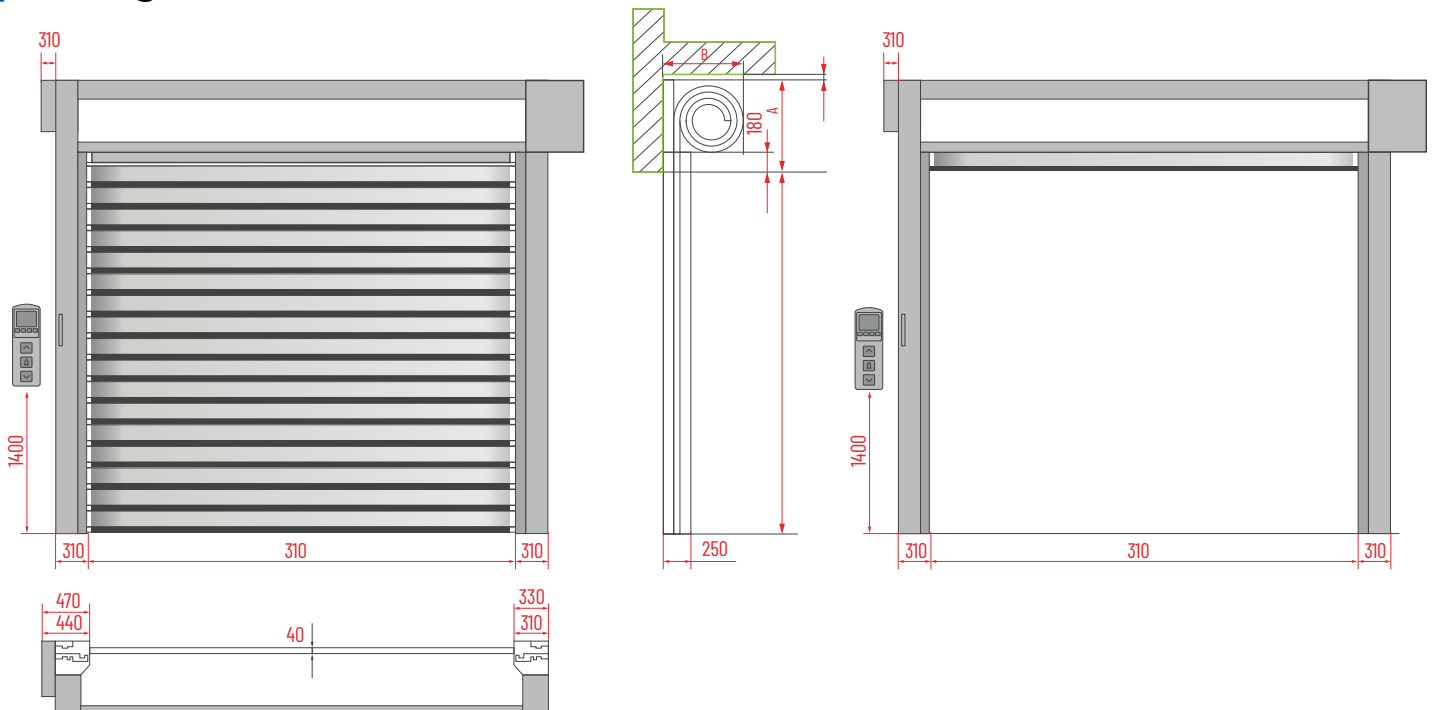


Spiral rail



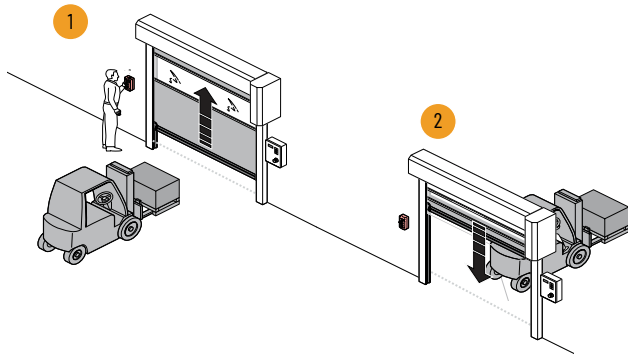
Motor

Drawings

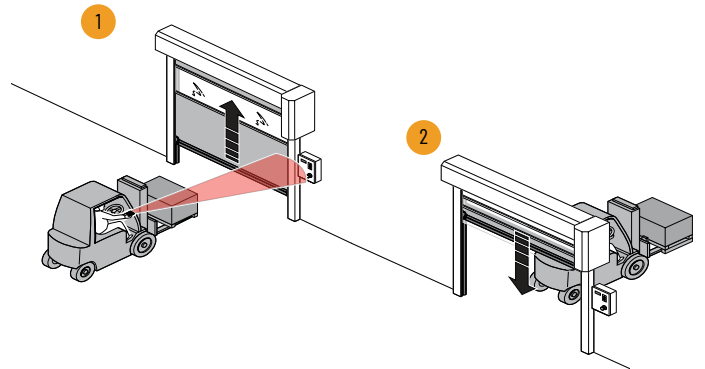


How to operate

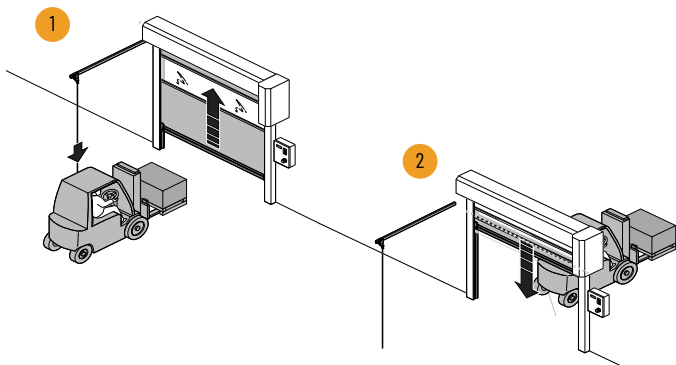
Push button



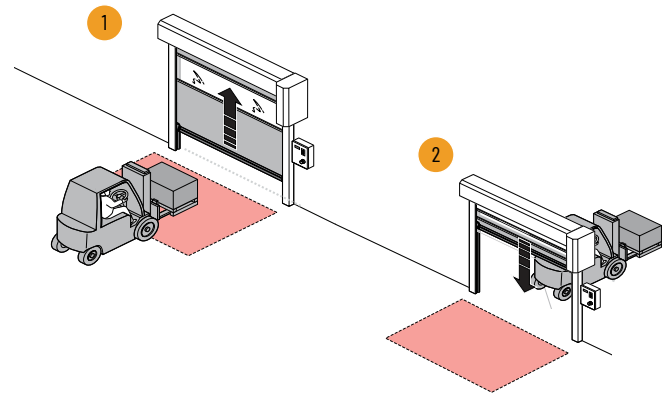
Remote Controller



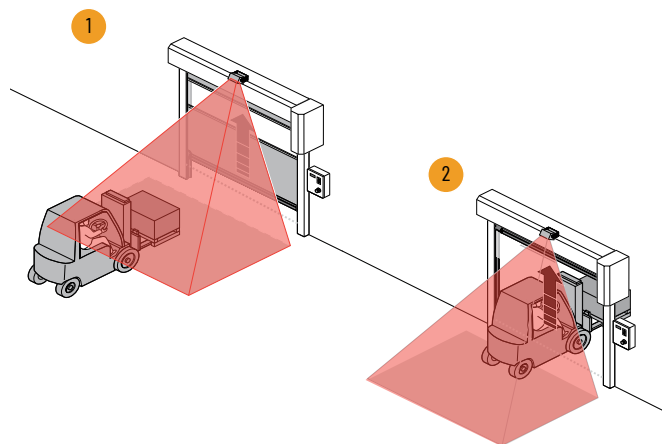
Stringdrawing



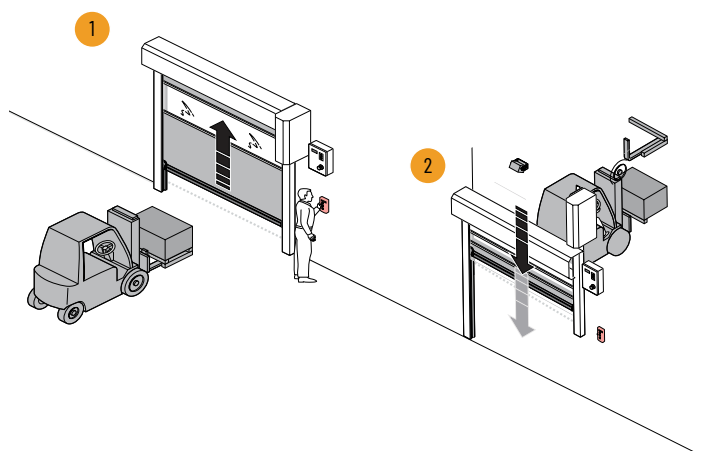
Loop Sensor



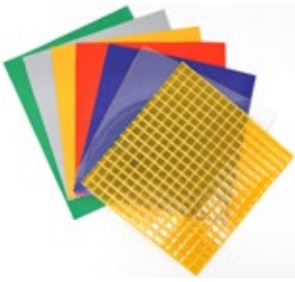
Motion Sensor



Electronic Lock



Accessories



PVC strip curtain



Door rail



Control panel



Motor



Airbag sensor



Roller shaft house



Warning post



Remote controller



Warning light



UPS



Control box



Switch journey



Radar sensor



ELS263 sensor



Autonic optical sensor



Fingerprint Sensor

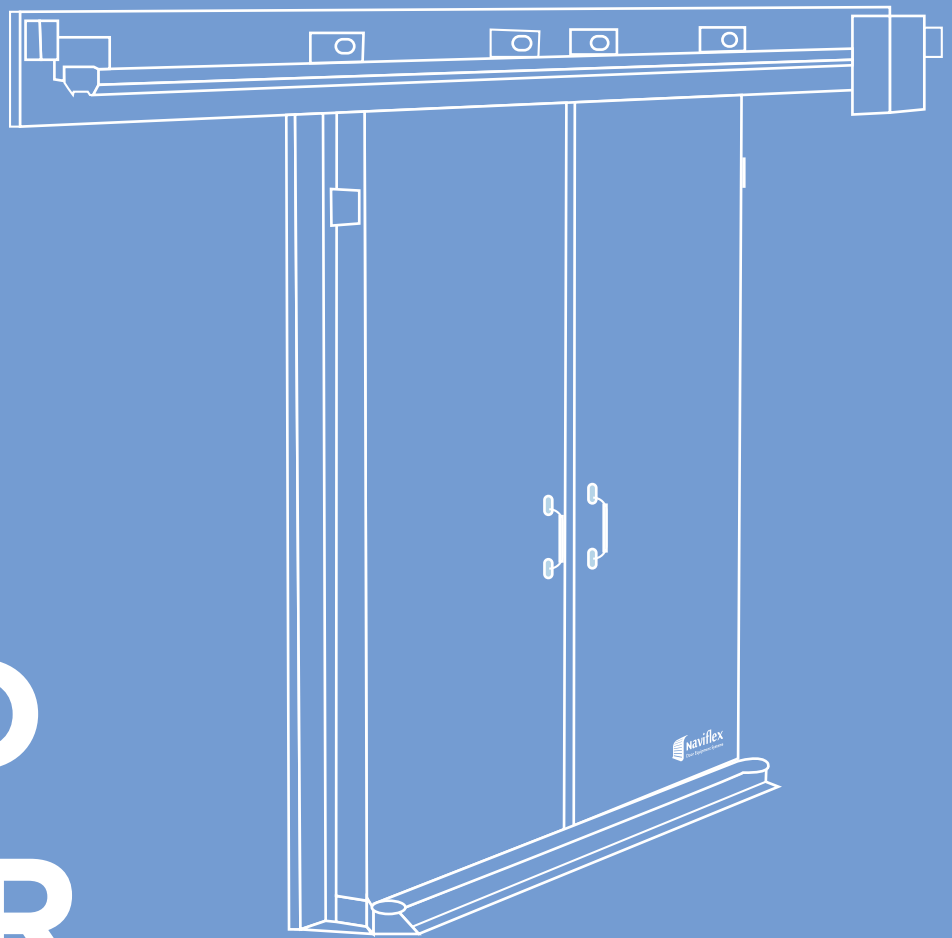


Loop sensor



Card door

COLD DOOR



Advantages

- Anodized aluminum/steel with waterproof and anti-rust features.
- Good electrical insulation, sound insulation and impact resistance.
- Tight rubber seal for thermal insulation.
- Stable operation from -50°C to 0°C, no condensation.

Specifications

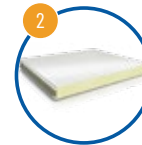
Size (WxH)	Customized
Leaf material	INOX 304
Core material	Foam PU - Polyurethane
Density of insulation foam PU	40 (kg / m ³)
Frame and border	Aluminum alloy, 2.5 (mm) thick, anodized
Opening and closing mechanism	By handle
Compressive strength	0.20 - 0.29Mpa
Sealed foam rate	95%
Leaf thickness	40 / 50 / 75 / 100 / 125 (mm)
Operation temperature	-50°C to 0°C (No condensation)

Installation

It is often installed inside cold storages that require strict temperature conditions such as clean rooms and seafood processing plants...



Hinge

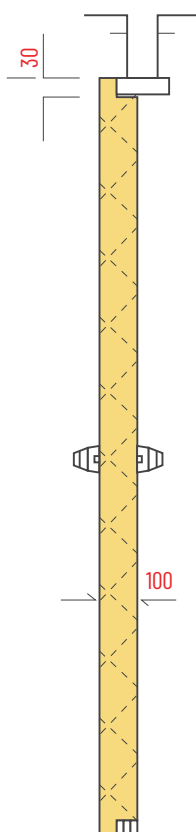
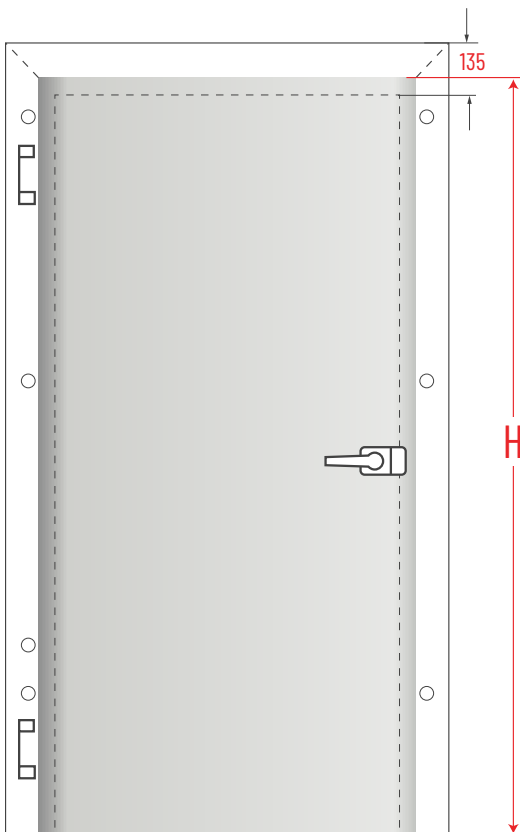


Insulation panel



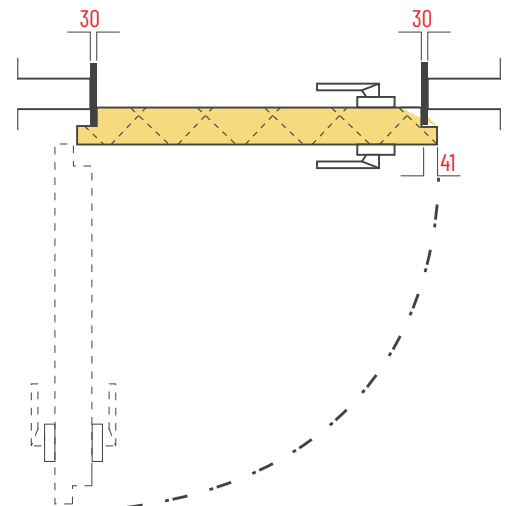
Handle lock

Drawings



H: Clearance height.

W: Clearance width.



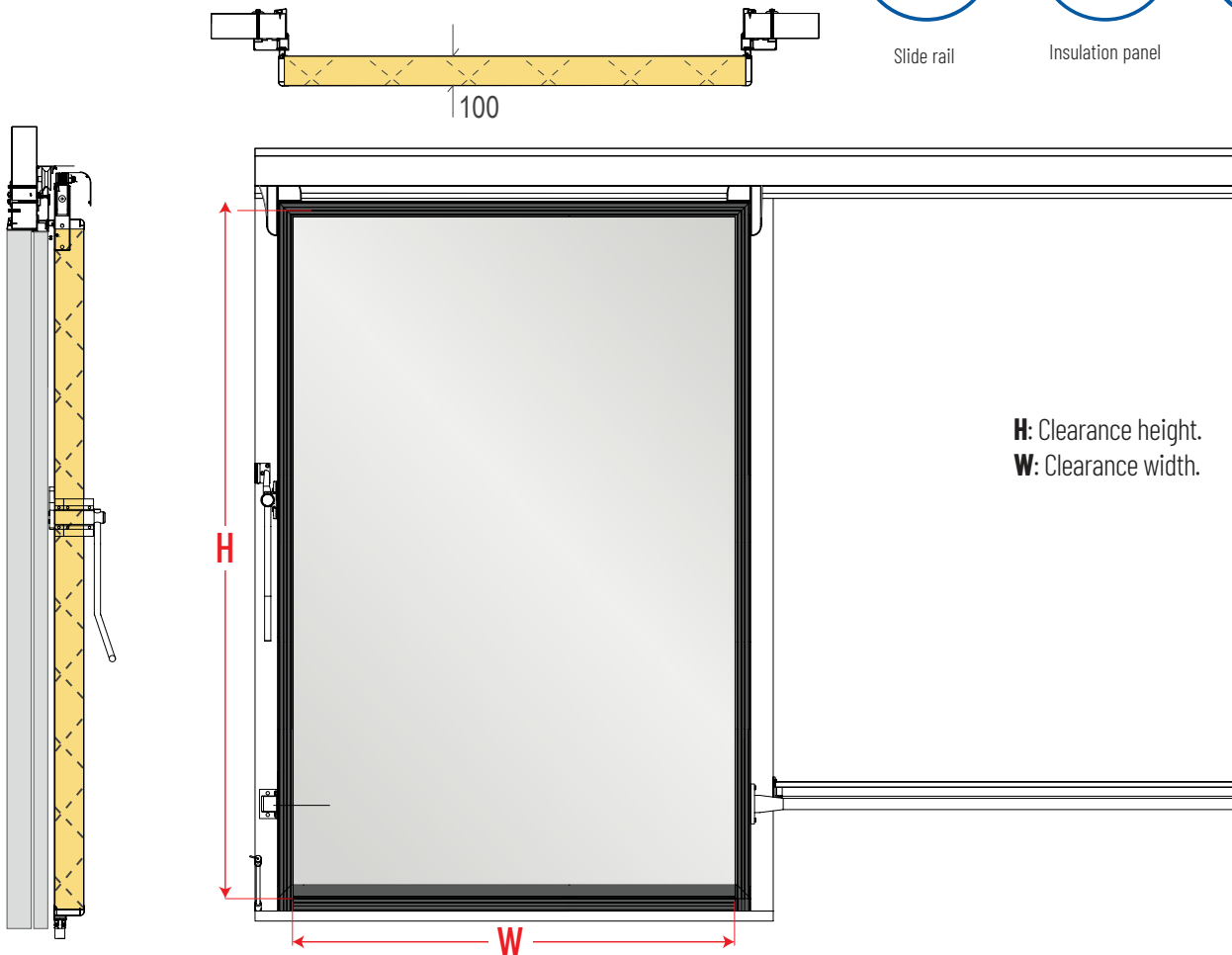
Advantages

- Multi-point locking latch to keep tight frame for optimal thermal insulation.
- Optimal sound insulation, electrical insulation and anti-oxidation.
- Flexible opening and closing thanks to sturdy and durable slide rails.
- Good operation in the deep-freeze temperature of about -50°C.

Specifications

Size (WxH)	Customized
Leaf material	INOX 304
Core material	Foam PU - Polyurethane
Density of insulation foam PU	40 (kg / m ³)
Frame, border	Aluminum alloy, 2.5 (mm) thick, anodized
Compressive strength	0.20 - 0.29 Mpa
Sealed foam rate	95%
Leaf thickness	40 / 50 / 75 / 100 / 125 (mm)
Operation temperature	-50°C to 0°C (No condensation)

Drawings

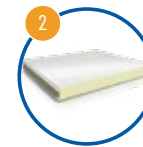


Installation

It is usually used in deep-freeze storage for in-out thermal insulation. Automated door system is designed specifically for clean rooms, storage of goods, vaccines...



Slide rail



Insulation panel



Motor

H: Clearance height.
W: Clearance width.

Advantages

- Automatic rotation to the original position in quick and smooth manner.
- PVC screen for a clear view, limiting collision risks.
- Inox with good impact resistance and harsh weather protection.
- PU foam core for high heat resistance and optimal sound insulation.

Specifications

Size (WxH)	Customized
Leaf thickness	50 mm
Leaf material	Inox 304
Frame, border	Inox
Sealed foam rate	95%
Compressive strength	0.20 - 0.29 Mpa
Operation temperature	-5°C to +50°C

Installation

It is installed between production areas and cold, dust and insect-prevention storages such as pharmaceutical, cold and seafood storages, including supermarkets and commercial centers...



Rubber shock absorber

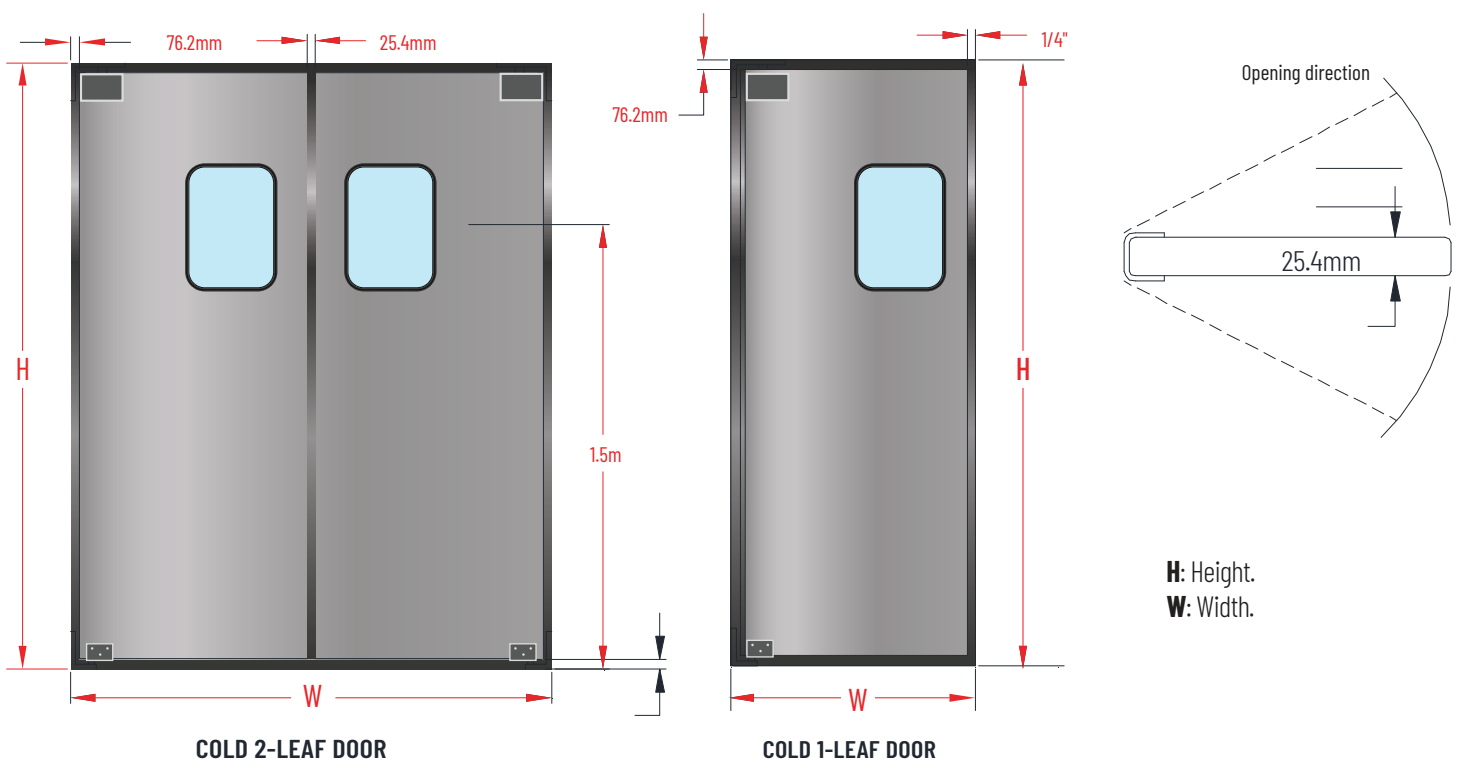


Bracket



Window

Drawings



How to operate



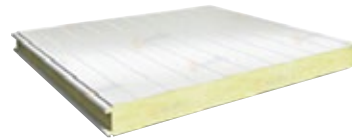
Accessories



Rubber seal



Handle lock



Insulated panel



Motor



Hinge



Rubber shock absorber



Window

FIRE DOOR



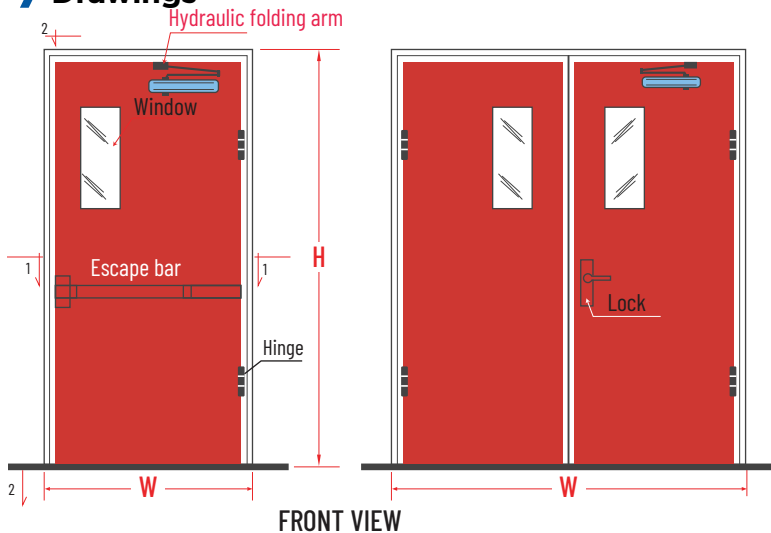
Advantages

- Made of 2 layers of powder coated steel for good fire resistance.
- Core with density of 100kg/m³ for good sound and thermal insulation
- Not deformed due to exposure to fire for safety of people and properties.
- Multiple fire resistance grades of 60 minutes, 70 minutes and 90 minutes to 120 minutes.

Specifications

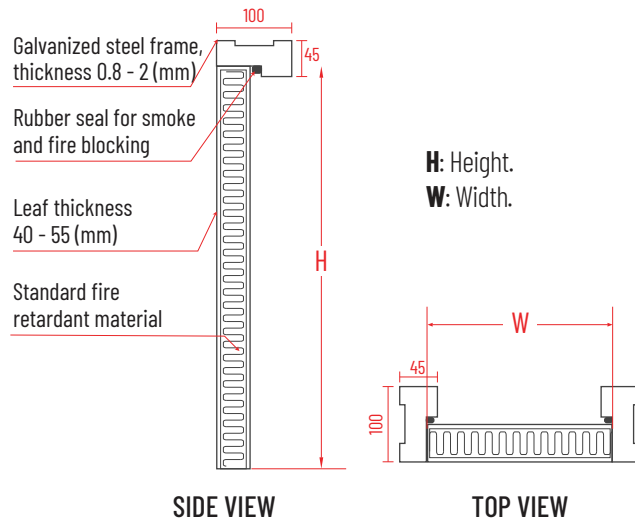
Max size of 1-leaf door (WxH)	1260x2550 (mm)
Max size of 2-leaf door (WxH)	2510x2550 (mm)
Door material	Galvanized steel
Core	Insulation material
Door thickness	0.8 - 2 (mm)
Leaf thickness	40 - 55 (mm)
Frame	Galvanized steel, thickness of 0.8 - 1.2 (mm)
Door frame cross-sectional dimensions	50x100 (mm)
Window thickness (optional)	5 - 12 (mm)
Fire resistance duration	60 / 90 / 120 minutes
Doorsill	Inox SU304, thickness 1.2 (mm)
Technology	Flame retardant powder coating

Drawings



Installation

It is installed at emergency exit of factories, apartments, commercial centers, hospitals, supermarkets...



Single-leaf steel door (not fireproof)



Standard Specs	
Door material	Galvanized steel
Door thickness	0.8 - 2 (mm)
Doorsill	Inox SU304, dày 1.2 (mm)
Frame	Galvanized steel, thickness of 0.8 - 1.2 (mm)
Window	Customized
Technology	ASTM-compliant powder coating (door frame and cover)

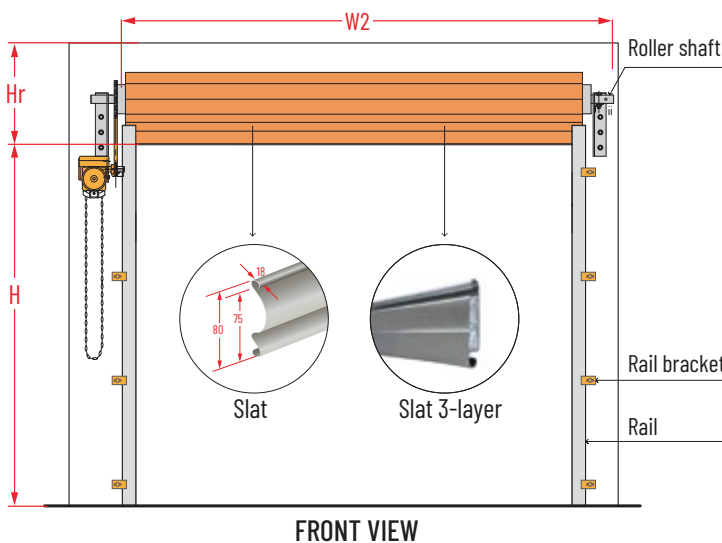
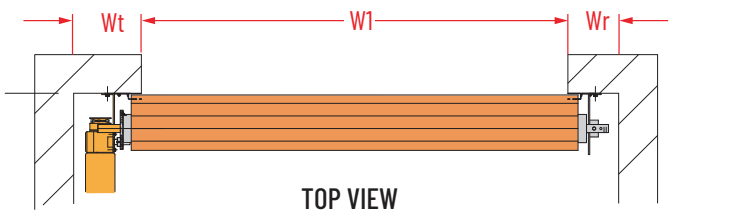
Advantages

- Sensor for automatic closing in case of a fire for fire spread prevention.
- High heat resistance without deformation.
- Effective sound insulation and good ingress protection.
- Multiple fire resistance class from 60 minutes, 70 minutes and 90 minutes to 120 minutes.

Specifications

Size (WxH)	6000x6000 (mm) / Customized
Slat material, roller shaft house	Galvanized steel
Slat type	1 layer / 3 layers
Frame	Fixed welding steel box
Paint	Flame retardant powder coating
Coating thickness	300 - 700 (micro)
Load (fireproof motor)	300 - 2000 (kg)
Opening and closing mechanism	Downward stroke
Fire resistance duration	60 / 90 / 120 minutes

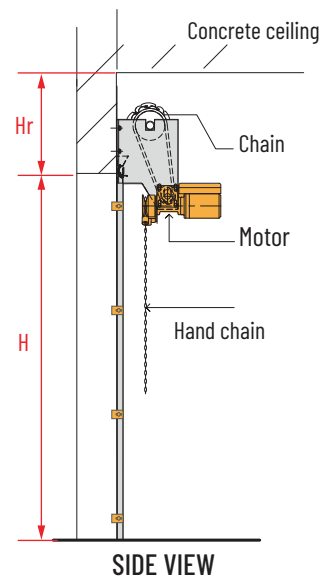
Drawings



- Hr:** Min headspace of 150 mm (distance between opening top and ceiling).
- H1:** Clearance height (in the center).
- W1:** Clearance width (in the center).

Installation

It is suitable for installation between 2 workshops in a factory and at entrance of storage or the garage...



- H2:** Cover height.
- W2:** Cover width.
- Wr:** Min installation clearance at non-motor side.
- Wt:** Min installation clearance at motor side.

Advantages

- Guide rails with rubber seals for smoke blocking and sound insulation.
- Good performance in high temperature without deformation.
- Integrated with fire alarm system for emergency escape.
- Special material for thermal insulation and fire blocking for 60 - 120 minutes.

Specifications

Size (WxH)	1260x2505 (mm)
Material	Galvanized steel
Leaf thickness	40 - 55 (mm) (Customized)
Frame thickness (WxH)	0.8 - 1.2 (mm)
Frame cross-sectional dimension	50x100 (mm)
Leaf core	Standard-compliant fire retardant material
Doorsill	Inox SU304
Opening and closing mechanism	Sliding system
Paint	Flame retardant powder coating
Fire resistance duration	60 / 90 / 120 minutes
Window options	Glass, thickness 5 - 6 (mm)
Fire resistance systems	Motor, roller, slider

Installation

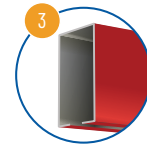
It is installed between two workshops in a factory, which both creates a clear path and supports fire resistance, electrical and sound insulation to protect people and property.



Door panel with fireproof core

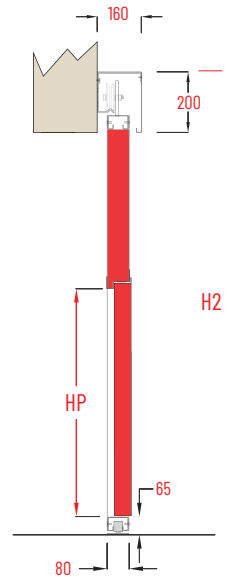
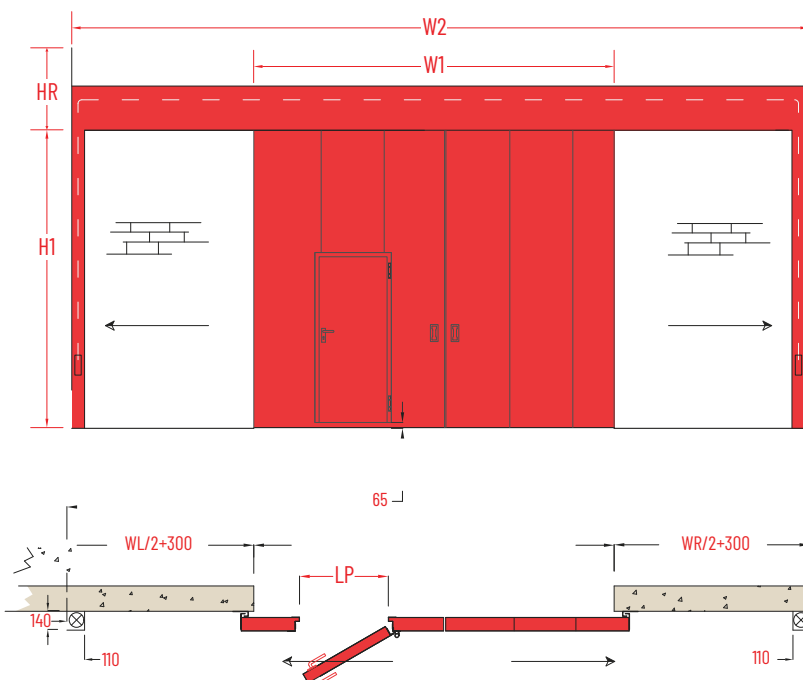


Fire detector



Door rail

Drawings



Hr: Headspace (distance between opening top and ceiling).

H1: Clearance height.

W1: Clearance width.

H2: Tare height.

W2: Tare width.

P: Side door height.

LP: Side door width.

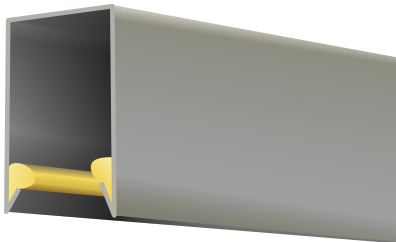
Accessories



Fireproof motor



Fire sensor



Door rail



Hydraulic door closer



Escape bar



Door panel with fireproof core



Fireproof door lock

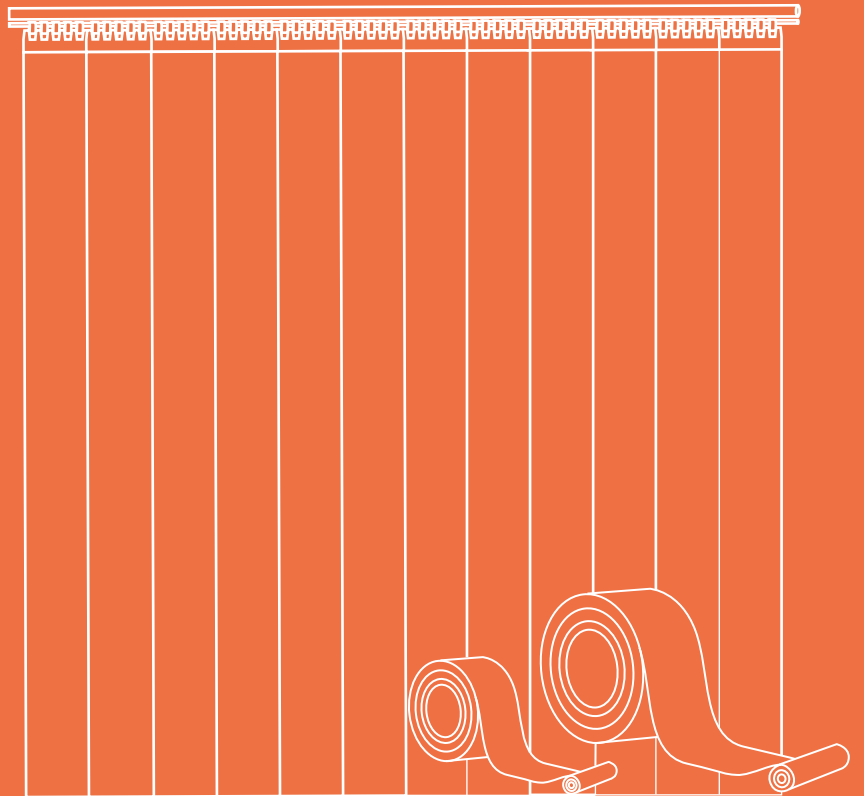


Hinge



- 1 In case of a fire, heat and smoke detectors transmit signals to control system.
- 2 After getting signals, the control system transmits them to the fire alarm system.
- 3 The fire alarm system sounds to alert local people.
- 4 After receiving the signals from the system, the fire door will automatically close to limit the spread of fire to other areas.
- 5 People escape through exit fire doors.

PVC STRIP CURTAIN





Specifications

Material	Polyvinylchlorua
Thickness	1 - 3 (mm)
Width of small version	200 - 300 (mm)
Width of large version	1200x1600 (mm)
Color	Milky white, clear grean, blue, turquoise, yellow, red, black
PVC curtain type	Large version, small version, partition
Roll length	50 - 150 (m)
Surface	Plain / Ribbed

Installation

Civil:

- Bed room curtain for thermal insulation.
- Partition between living room and kitchen.
- Water and dust curtain at balcony, entrance...

Industrial:

- Anti-insect curtains for manufacturing & processing facilities.
- Partitions between temperature and dirt control zones.
- Covers for construction, machining and welding areas to block welding sparks.
- Sliding curtains at garages, motorbike and car care shops...

Phụ Kiện



Hanger bar (Stainless steel or powder-coated steel)



Bracket (Inox or powder coated steel)

▼ Milky White PVC Curtain / hindering visibility



● **Smooth**

Thickness (mm)	Width (mm)
2.0	200

▼ Turquoise PVC Curtain / Static electricity prevention



● **Smooth**

Thickness (mm)	Width (mm)
2.0	200, 300

▼ Clear, Transparent Green PVC Curtain Thermal insulation, dust prevention



● **Smooth**

Thickness (mm)	Width (mm)
1.5	200
2.0	200, 300
3.0	200, 300



● **Double ribbed**

Thickness (mm)	Width (mm)
2.0	200
3.0	300



● **Smooth**

Thickness (mm)	Width (mm)
1.5	200
2.0	200, 300
3.0	200, 300



● **Smooth**

Thickness (mm)	Width (mm)
1.0	20
1.5	20
2.0	15
3.0	30

▼ Clear, Transparent Green PVC Curtain Thermal insulation, dust prevention



● **Smooth**

Thickness (mm)	Width (mm)
2.0	200
3.0	300



● **Double ribbed**

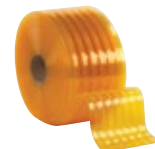
Thickness (mm)	Width (mm)
2.0	200
3.0	300

▼ Clear Yellow PVC Curtain/ Insect Prevention



● **Smooth**

Thickness (mm)	Width (mm)
1.5	200
2.0	200, 300
3.0	200, 300



● **Ribbed**

Thickness (mm)	Width (mm)
2.0	200
3.0	300

▼ Clear Red, Black PVC Curtain Welding Spark Prevention



● **Smooth**

Thickness (mm)	Width (mm)
1.5	200
2.0	200, 300
3.0	200, 300

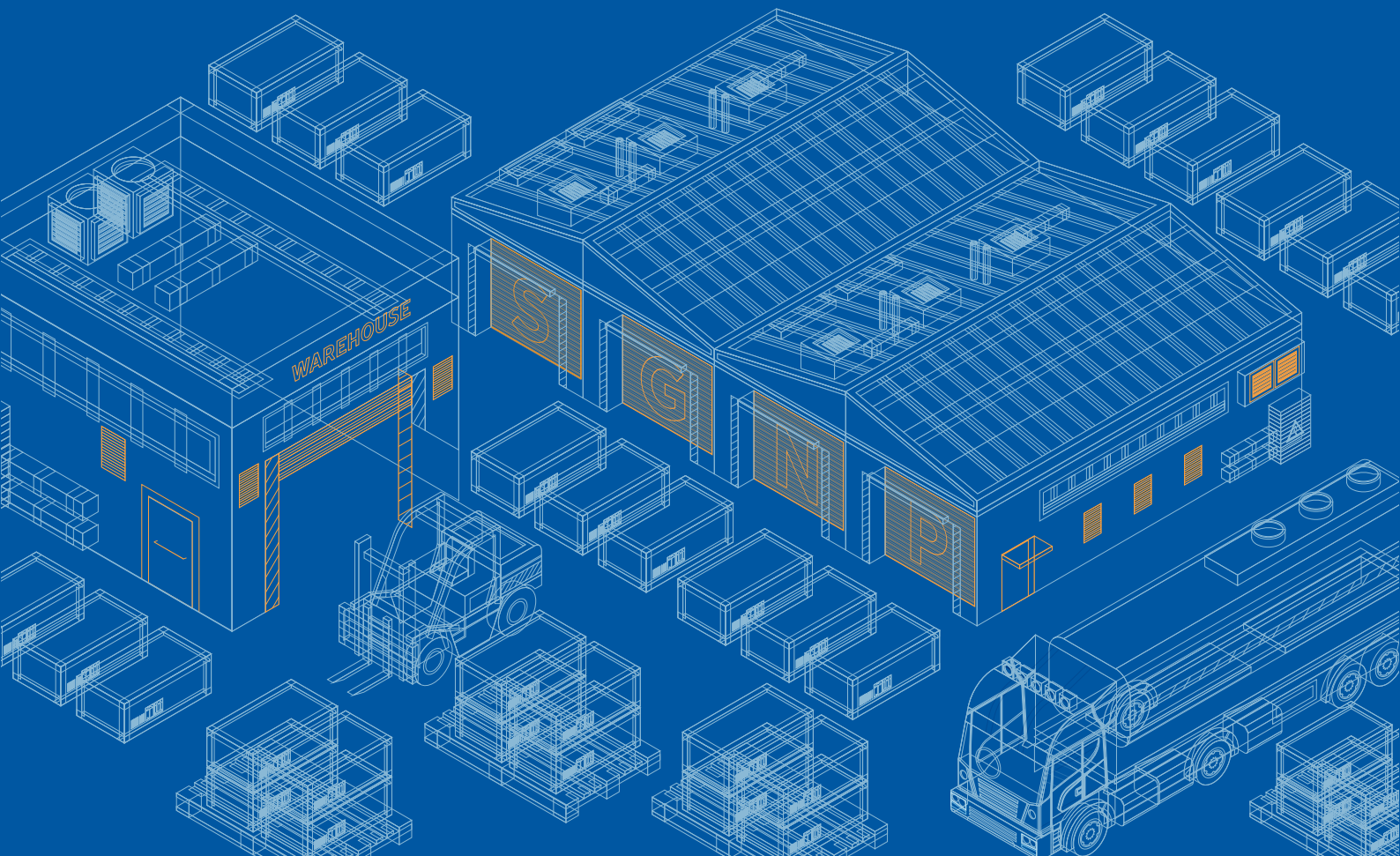


● **Smooth**

Thickness (mm)	Width (mm)
2.0	200
3.0	300

Note

A series of horizontal dashed lines for writing notes.





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