

The background of the entire page is a photograph of a modern industrial building. The building's facade is primarily light blue with vertical panels. Large, multi-paned overhead doors are visible, some of which are partially open, revealing a brightly lit interior where several cars are parked. The ground in front of the building is paved with grey interlocking bricks. The lighting suggests a clear, bright day.

ATTRACTIVE AND DURABLE SOLUTIONS FOR INDUSTRIAL PREMISES

KONE sectional overhead doors

HIGH-QUALITY AND DURABLE

KONE sectional overhead doors are a scalable solution for warehouses, showrooms, logistics centers, and retail and industrial premises. We can support you at every step, from planning to installation and maintenance, for the lifetime of your building.

KONE – YOUR DEDICATED PARTNER

- Complete lifecycle know-how covering design, installation, maintenance, and modernization based on decades of experience
- We provide service for 500,000 doors – and for the millions of people who use them
- High-quality products (e.g. TÜV, ISO approved), built in accordance with all applicable norms and legislation (EN -13241)
- Energy-efficient and modern-looking doors for a wide variety of building types
- Preventive maintenance performed by dedicated and trained technicians, with fast delivery of spare parts
- Support available 24 hours a day, 365 days a year from the KONE Customer Care Center



START PLANNING YOUR DOOR



1 CHOOSE THE TRACK SYSTEM

The first step is to select the track system based on how the door will be used and any specific needs you have.

2 CHOOSE THE PANEL OPTIONS

Looking for panels that provide extra insulation for demanding environments or something that offers extra visibility and allows natural light into the building? We have a wide range of options to choose from.

3 CHOOSE THE TYPE OF OPERATOR

The door size and frequency of operation determine the operator type that is needed to ensure safe and efficient people and goods flow.

4 CHOOSE THE SAFETY OPTIONS

Variety of electrical and mechanical safety options ensure your door functions according to today's standards.

5 CHOOSE ADDITIONAL OPTIONS

Choosing an optional pass door saves energy by reducing usage of the main door and helping to reduce heating or cooling losses from the building.

THE RIGHT TRACK SYSTEM FOR YOUR NEEDS

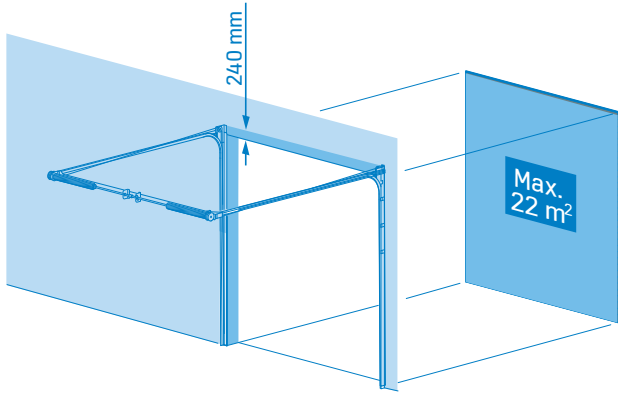
Whether you're constructing a new building or modernizing a door in an existing building, the type of track system you need is determined by the size and purpose of the door.

As well as the size of the door, the frequency of opening is also a determining factor when selecting the track system. The system can be optimized according to the dimensions of the door in question as well as your needs and the needs of the building.



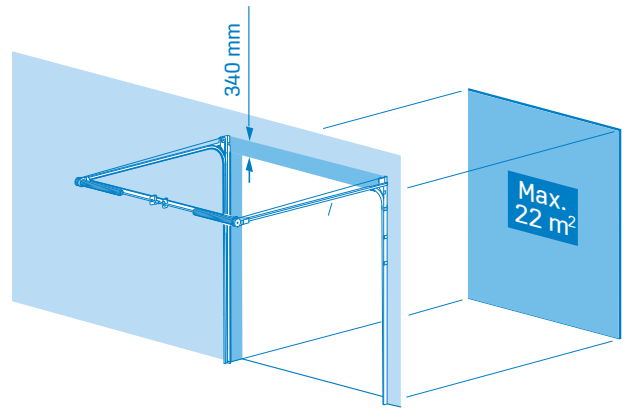
TRACK SYSTEM	T240	T 340	T 450	T 400	T 400hF	T 500	T 500 hF
Headroom above opening	40 mm door = 240 mm 60 mm door = 260 mm 80 mm door = 280 mm	40 mm door = 340 mm 60 mm door = 360 mm 80 mm door = 380 mm	430 - 700 mm	700 - 4500 mm	1775- 4500 mm	CH* + 560- 600	CH* + 400
Max. door surface area	22 m ²	22 m ²	50 m ²	50 m ²	20 m ²	35 m ²	20 m ²
Roof angle	0°-15°	0°-30°	0°-30°	0°-30°	0°-30°		
Wall-mounted spring assembly	No***	No***	Yes	Yes	No**	Yes	No**

* CH=Clear opening height
 ** Mounted on top of the track
 *** Mounted behind the track



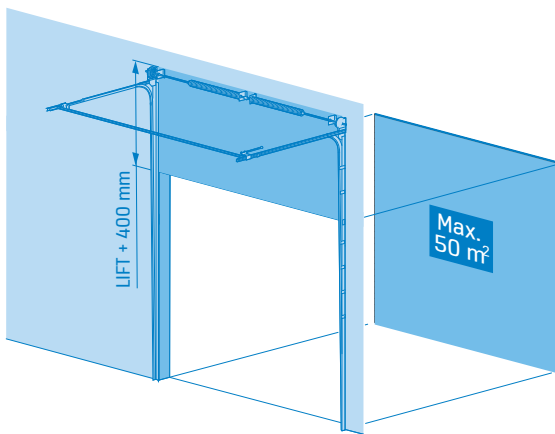
T240 TRACK SYSTEM

This system can also be used if the headroom is less than 240 mm. In such cases, the sectional door will remain visible in the clear opening when the door is fully open.



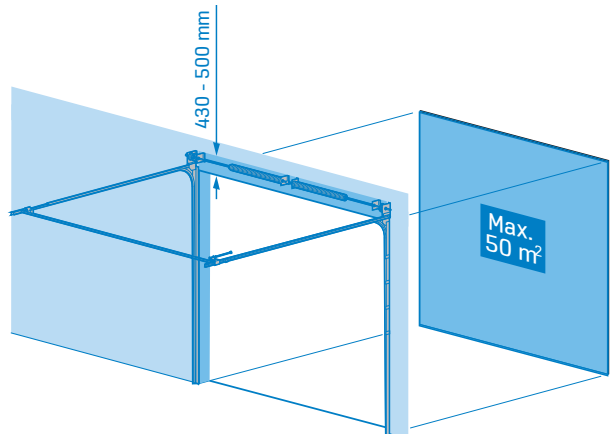
T340 TRACK SYSTEM

This is an excellent solution in cases when the available headroom is not suitable for other track systems, for example if a glazed element is located above the clear opening or the wall above the opening is cellular concrete.



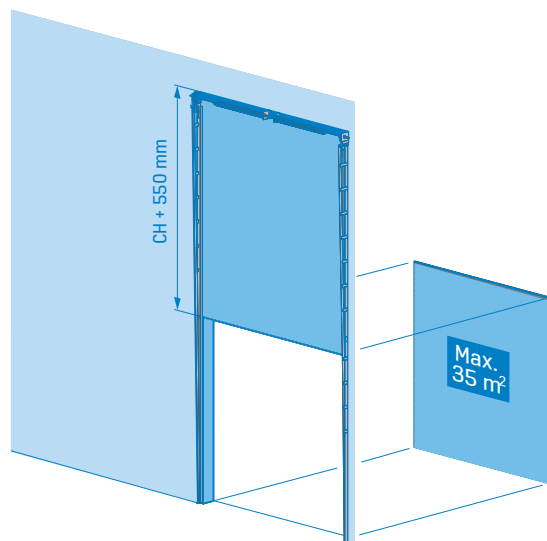
T400 TRACK SYSTEM

The vertical tracks follow the wall line and then curve to lie parallel to the roof. The spring assembly is mounted to the vertical wall just under the roof.



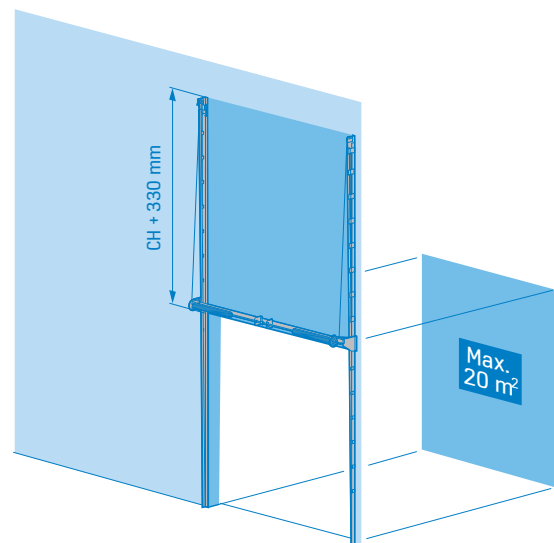
T450 TRACK SYSTEM

In this system the spring assembly is fixed to the building wall. This is the most commonly used track system.



T500 TRACK SYSTEM

This system is used when there is sufficient headroom available to allow the sectional door to open vertically. The spring assembly is fixed to the wall at the top of the tracks.



T500HF TRACK SYSTEM

This system is used when there is sufficient headroom available to allow the sectional door to open vertically. The spring assembly is fixed to a mounting arrangement approx. 500 mm above the clear opening. This system is not suitable for door widths exceeding 4500 mm.

CHOOSING THE RIGHT DOOR PANELS

Panel properties play a vital role in fulfilling the door requirements and your needs. The type of environment where the door will be installed will determine the optimal properties for your door.

INSULATION REQUIREMENTS

The first consideration is typically the insulation requirements as thicker doors provide better sound and thermal insulation to minimize noise transfer and reduce heating or cooling costs.

The panels are constructed from high-density CFC-free foam sandwiched between two steel sheets to ensure maximum acoustic and thermal performance. The steel sheets are thermally galvanized on both faces and primed to ensure corrosion resistance.

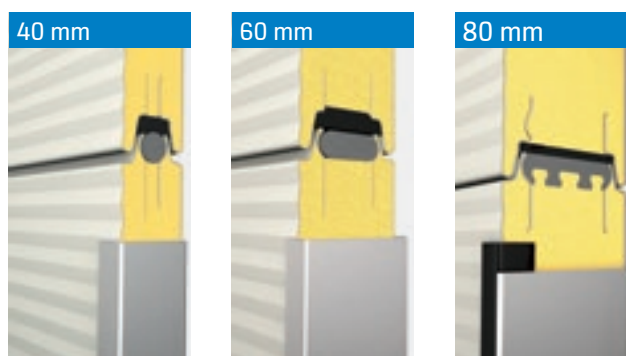
PANEL SIZE OPTIONS

KONE sectional doors are available in standard sizes ranging from 2000 to 8000 mm in width and 2250 to 6000 mm in height. We offer three different panel thicknesses: 40, 60, and 80 mm.

A panel thickness of 40 mm is sufficient for most environments where the function of the door is to cover and protect a building entrance. Thanks to the lower u-value provided by the extra thickness and insulation, the 60 and 80 mm thick panels are ideal for environments that are subject to wide fluctuations in temperature or where additional insulation is required, for example in heated or cooled warehouses.

GREATER INSULATION FOR DEMANDING ENVIRONMENTS

A panel thickness of 80 mm offers optimal insulation performance, helping to reduce heating or cooling losses from the building and therefore reducing energy costs. Doors with 80 mm thick panels are ideal for cold storage facilities such as refrigerated warehouses or other industrial facilities where heat loss is a major risk or where the temperature of goods must be guaranteed.



The door panels are specially sealed to make them completely wind and waterproof.

PANEL THICKNESS (mm)	PANEL U-VALUE	DOOR U-VALUE (5000 x 5000 mm)	PANEL HEIGHT (mm)
40	0.51	1.02	488 610 732
60	0.34	0.77	488 610
80	0.25	0.49	610

THE RIGHT COLOR FOR EVERY ARCHITECTURAL REQUIREMENT

When ordered with standard micro-profiled panels, KONE sectional doors are available in 12 standard RAL colors for 40 mm doors, 10 colors for 60 mm doors, and three colors for 80 mm doors.

The doors can also be supplied in a wide variety of other RAL colors at extra cost. Colors that are not available in the RAL system can also be made to order based on a color sample.



RAL 3000



RAL 5003



RAL 5010



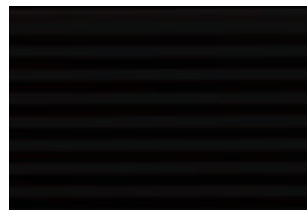
RAL 6009



RAL 7005



RAL 8014



RAL 9005



RAL 9007



RAL 9010



RAL 7016



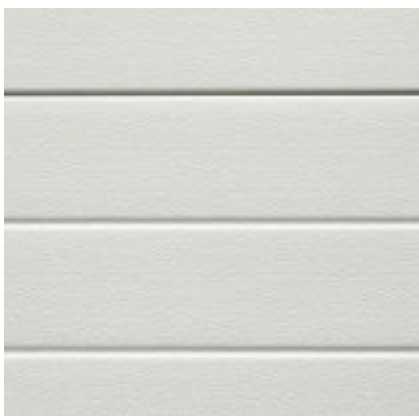
RAL 9002



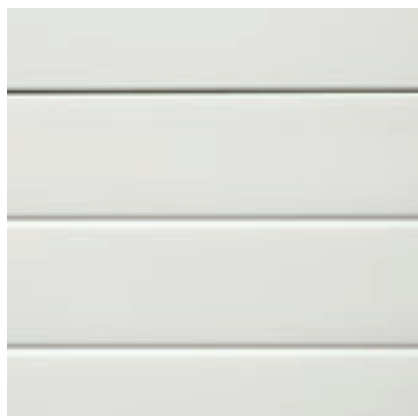
RAL 9006

MICRO-PROFILED PANEL STRUCTURE

The panel skin design of KONE sectional overhead doors gives the building design a unique finishing touch as the micro-profiled finish of the outer skin creates a stylish visual effect. The steel outer skins can be powder-coated in an extensive range of RAL colors. The panel is highly resistant to weathering.



Standard stucco with ribs



Smooth stucco with ribs (standard inside)



Micro profiled

ADD LIGHT AND VISIBILITY WITH WINDOWS

CHOOSING A WINDOW TYPE

There are four things to think about when choosing a window type for your door:

- If people are working inside, large windows create a more pleasant working environment by allowing natural light into the building.
- In hot or cold environments, smaller windows and thicker door panels are a good choice as they provide better thermal insulation.
- If protection from intruders is a consideration, smaller windows with restricted height are the best choice.
- In cases where appearance is important, round window sections can add a distinctive character to the door.

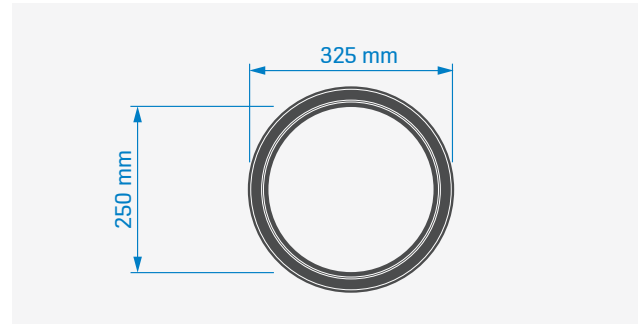


STANDARD WINDOW OPTIONS

Our standard windows come in different shapes and sizes with a black plastic frame. The insulation value of our standard windows with double plexiglass is 2.8 W/m² K.

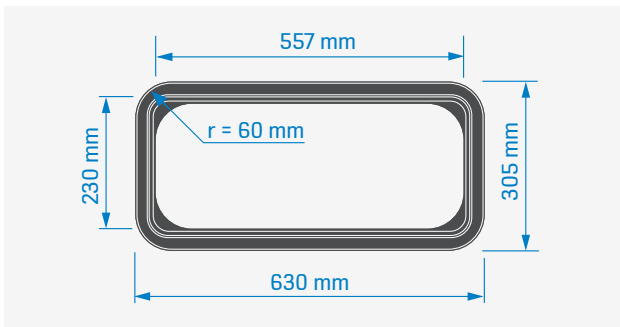
ROUND WINDOWS

∅ 325 mm



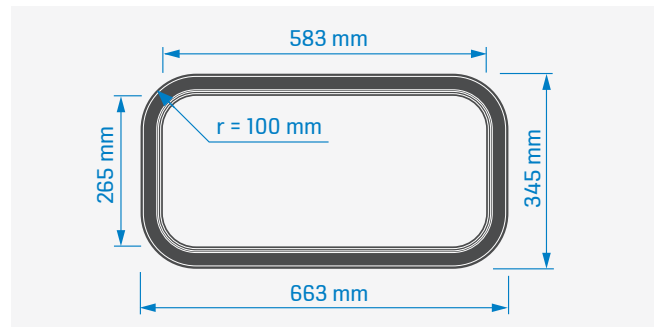
WINDOW WITH ROUNDED CORNERS

630 x 305 mm



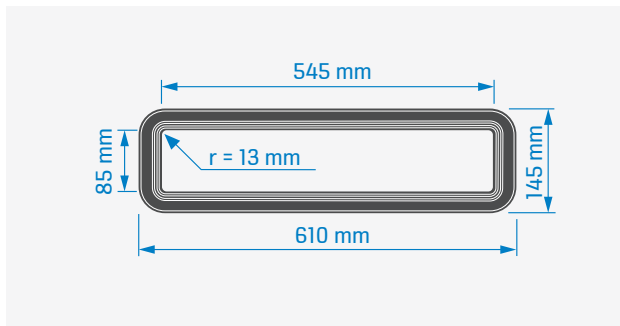
WINDOW WITH ROUNDED CORNERS, LARGE

663 x 345 mm



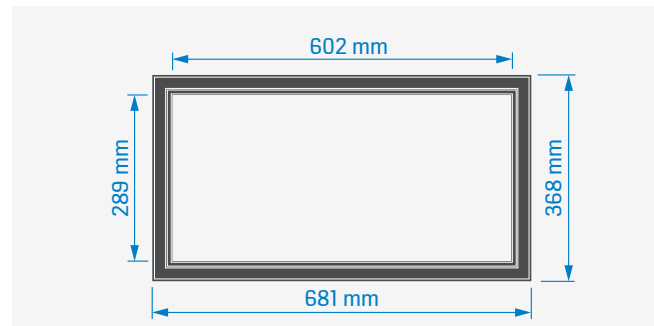
RESTRICTED-HEIGHT WINDOW

610 x 145 mm



RECTANGULAR WINDOW

681 x 368 mm



CUSTOMIZE YOUR DOORS WITH PANORAMIC WINDOWS

Panoramic windows with aluminum frames turn your doors into an attractive architectural feature and also enhance visibility by allowing plenty of natural light into the building.



NATURAL LIGHT AND VISIBILITY

Sectional doors are robust enough to function as part of your building's facade. If there are working spaces close to the doors, customized panoramic windows are an effective and attractive way to maximize visibility as they allow plenty of natural light into the building.

CUSTOMIZE YOUR DOOR

Because our sectional doors have aluminum frames, they can be customized with a wide variety of materials, designs, and colors to suit your individual requirements.

The wide range of window options includes transparent, translucent, tinted, partitioned or non-partitioned, insulated, or with ventilation openings.



PANORAMIC WINDOW OPTIONS

Our panoramic windows are made from durable acrylic PLEXIGLAS® Optical or polycarbonate. Depending on the panel thickness, the frames can be fitted with single, double, triple, or quadruple acrylic windows.

The perforated aluminum sheets are 2 mm thick and come with round or square holes. Aluminum frames without windows can be fitted with a closed sandwich with a smooth or plastered finish.



SINGLE ACRYLIC
K = 5.6 W/m²K



DOUBLE ACRYLIC
K = 2.7 W/m²K



TRIPLE ACRYLIC
K = 1.7 W/m²K



QUADRUPLE ACRYLIC
K = 1.35 W/m²K



DOUBLE TRANSLUCENT ACRYLIC
Light transmittance 80%
K = 2.7 W/m²K



HOLLOW-CORE TRANSPARENT POLYCARBONATE
Light transmittance 63%
K = 1.7 W/m²K



HOLLOW-CORE OPAL POLYCARBONATE
Light transmittance 42%
K = 1.7 W/m²K



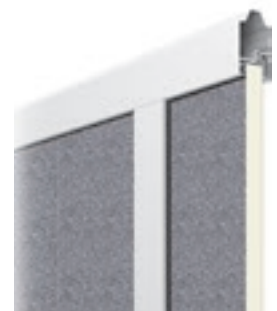
ROUND PERFORATED ALUMINUM SHEET
Air transmittance 40%



SQUARE PERFORATED ALUMINUM SHEET
Air transmittance 70%



CLOSED SANDWICH SMOOTH/PLASTERED
K = 1.42 W/m²K



CLOSED SANDWICH PLASTERED
K = 3.1 W/m²K

All K-values shown on this page are based on 40 mm panel, except triple acrylic (60 mm) and quadruple acrylic (80 mm) and are based on European testing standards.

DRIVES AND DOOR OPERATION

Our doors are available with electric drive, chain hoist, or pull-cord operation. They are fitted with mechanical and electrical safety devices that comply with the requirements of the EN 13241, EN 12453:2017 and EN 12604 standards.

ELECTRIC DRIVE WITH FULLY AUTOMATIC OPERATION (impulse)

Drives with impulse operation are suitable for sectional doors that are frequently used. During opening and closing, the door automatically moves to the appropriate end position. When in the fully open position, the entire door opening is available. An obstacle-detection system (safety edge) is incorporated in the bottom seal of the door. The sectional door will stop and reverse direction when the safety-edge system detects an obstacle.

ELECTRIC DRIVE WITH SEMI-AUTOMATIC OPERATION (dead-man)

This is a good choice for sectional doors that are used less frequently. The door is opened by pressing and then releasing a button, and stops when it reaches the upper end position. The button for closing the door has to be pushed and held down (dead-man operation).

HIGH-SPEED DRIVE

A high-speed drive expands the range of applications for sectional doors. Short opening and closing times reduce heat losses and substantially increase transit speed. The system is available with push-button control and variable speed control, and is suitable for remote operation. This system can be used with door leaf areas of up to 25 m².

CHAIN-HOIST (1:4 ratio)

Chain-hoist operation is suitable for sectional doors that are not operated very frequently. A chain tensioner is included to increase safety and ease of use.

PULL-CORD

Pull-cord operation is suitable for smaller sectional doors that are only used rarely.



Impulse drive



Standard operator for dead-man and impulse drives



Chain-hoist operation



Pull-cord

SAFETY DEVICES

All KONE sectional doors comply with European safety standards.

ELECTRICAL SAFETY DEVICES

OBSTACLE DETECTION SYSTEM (standard on impulse motor system)

The maximum force the obstacle detection system (safety edge) may exert is defined in the EN 13241 standard.



STATIONARY PHOTOCELL

If a door has been automated to the extent that the door opening is not in the operator's direct line of sight when the door is being operated, the system must be equipped with an extra stationary safety photocell.



RUNNING-AHEAD OPTICAL OBSTACLE DETECTION SYSTEM (for pass door with low sill, 22 mm)

The bottom of the sectional door is protected with an optical obstacle detector running ahead of it, with double sensors. The detector ensures contact-free reversal of motion as soon as any obstacle is detected in the door opening.



SLACK-CABLE SAFETY (standard for all motor systems)

This safety device is fitted to both wire cables and immediately switches the electric drive off if one of the wire cables breaks or slackens. This complies with EN 13241 and EN 12453:2017.



MECHANICAL SAFETY DEVICES

CABLE-BREAK SAFETY

The cable-break safety is constructed in such a way that the door is immobilized in the tracks if one of the cables breaks. This prevents the door leaf from dropping down uncontrollably.



SPRING-BREAK SAFETY

The spring-break safety immobilizes the spring shaft if a torsion spring breaks. This prevents the door leaf from dropping down uncontrollably.



PASS DOORS FOR EASY ACCESS AND ENERGY SAVING

A pass door can be integrated into the sectional overhead door itself or mounted as a separate door beside the main door in a permanent frame.

A pass door or side door helps to cut heating or cooling losses from the building by reducing usage of the main sectional overhead door.

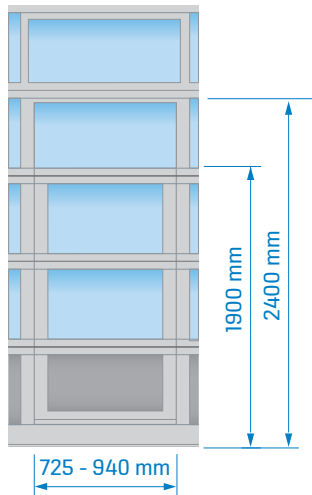
Integral pass doors, which always open outwards and are fitted with automatic door closers, are supplied either in DIN-left or DIN-right configuration. Pass doors are only available for 40 and 60 mm thick doors.

A separate side door increases safety in the building by separating people and goods flows.

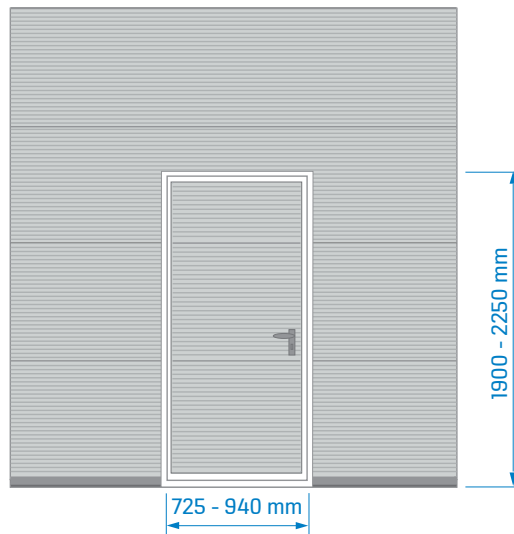


As an option, you can also choose a pass door with a low threshold (22 mm or higher), beveled on both sides. This not only provides safe access for pedestrians, but also makes transporting wheeled equipment much easier. Side doors are not fitted with a threshold.

PASS DOOR MEASUREMENTS

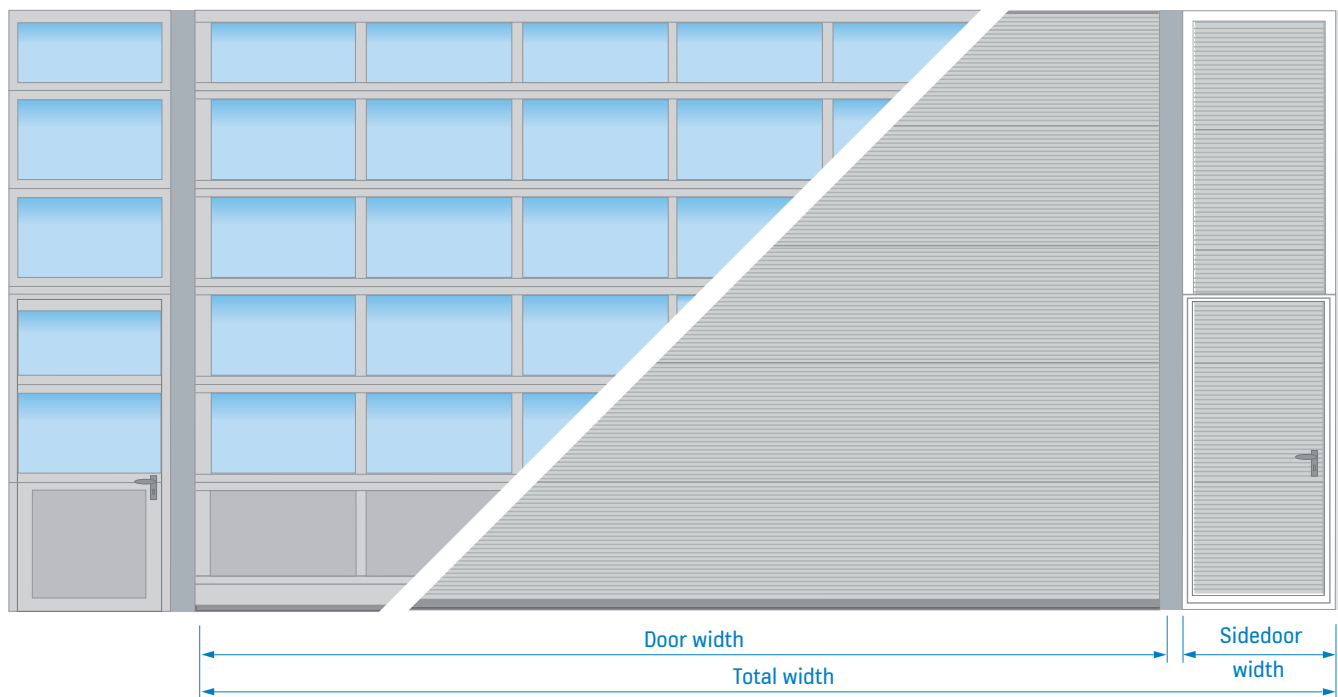


The height of the pass door depends on the height of the windows, between 1900 and 2400 mm. Recommended width can be between 725 and 940 mm.

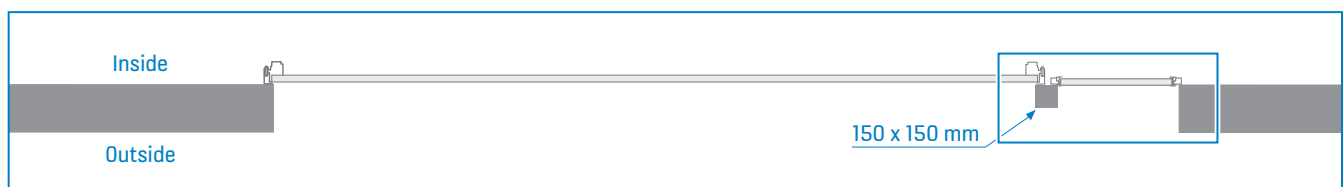


Pass doors without panorama windows can be maximum 2250 mm of height and between 725 and 940 mm in width.

SIDE DOOR MEASUREMENTS



TOP VIEW OF SIDE DOOR INSTALLATION



The minimum recommended height for a side door is 2000 mm. Recommended width is between 1000 and 1250 mm.

KONE – YOUR DEDICATED PARTNER

With a wide range of door solutions, we are your trusted partner at every step – from planning to installation and maintenance, for the lifetime of your building.

SUPPORT AT EVERY STEP

The first step is to choose the right solution for your application. Our sales people can provide advice on which type of door best meets your needs as well as on any current and future standards and regulations that need to be taken into consideration. In addition to sectional overhead doors we also offer high-speed doors, roller shutters and grilles, and pedestrian doors and turnstiles. Our broad range of door designs and colors makes it easy to specify a solution that will fit seamlessly with your building's look and feel.

We can also help when planning the smooth flow of people and goods in your building, and help you reduce energy consumption with a wide range of energy-saving solutions.

We can supply DWG drawings as well as sustainability certifications and energy-class information for all our door solutions.

OVER 100 YEARS OF PEOPLE FLOW EXPERTISE

Founded in 1910, KONE manufactures, installs, maintains, and modernizes elevators, escalators, and automatic building doors. We have over 55,000 employees in 60 countries.

KONE products are built to the highest standards of quality, safety, design, and durability. KONE door solutions carry the CE mark and are TÜV approved. All KONE's major manufacturing units are ISO 14001 and ISO 9001 certified.

SERVICE FOR 500,000 DOORS GLOBALLY

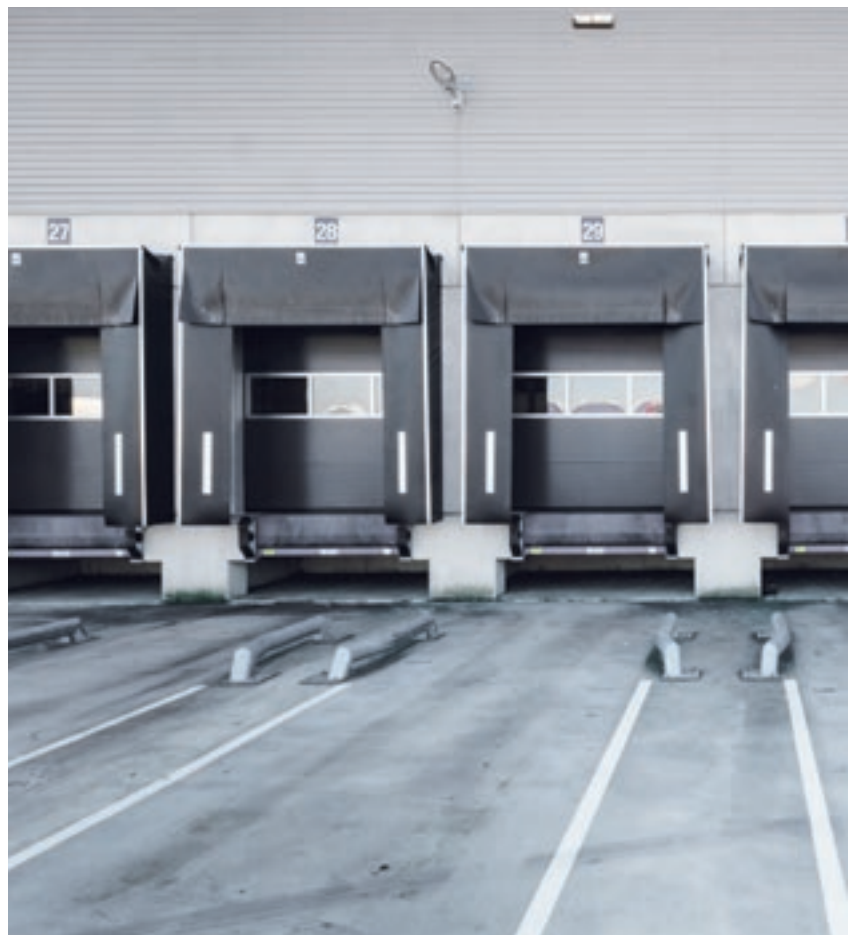
We provide service for 500,000 doors around the world – and for the millions of people who use them. Spare parts for KONE doors and doors from other manufacturers are available from our global spare parts service and can be ready for dispatch within 24 hours. To minimize equipment downtime our service technicians carry the most commonly used spare parts in their vehicles. We can provide service for any brand of door.

Our preventive maintenance approach is designed to solve problems before they disrupt your operations. If you need assistance or spare parts, the KONE Customer Care Center is open 24/7.









KONE provides innovative and eco-efficient solutions for elevators, escalators, automatic building doors and the systems that integrate them with today's intelligent buildings.

We support our customers every step of the way: from design, manufacturing, and installation to maintenance and modernization. KONE is a global leader in managing the smooth flow of people and goods throughout buildings.

This makes us a reliable partner throughout the life cycle of buildings. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace®, KONE NanoSpace™, and KONE UltraRope®.

KONE employs over 55,000 dedicated experts to serve you globally and locally.

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