High speed doors

Fast logistic solutions

alpha opening doors everywhere
Alpha Doors International opens up a world of opportunity when it comes to industrial doors. An Alpha door stands out from all other doors – their design, working, the detailing and their versatility. Alpha Doors are distinctive, dependable and durable, a fine example of the innovative strength you’ve come to expect from Alpha Doors, where our doors have been open to you since 1995!

Quality in every detail
At Alpha we don’t think in terms of doors, but in terms of solutions. It is your specific requirements and wishes that are at the forefront of the design and manufacturing process, resulting in doors characterized by their quality and individuality, right down to the smallest detail. These are the doors the market demands and that can be found in any sector and building. In fact, wherever you go you’re likely to run into an Alpha door.

Active worldwide
Alpha Doors means high-tech production facilities, a full and high-quality delivery system, a service-oriented approach and very competitive prices. Alpha Doors offers all-in packages that attract and retain an ever-increasing number of designers, builders and entrepreneurs. Our clients, who are located in over 30 countries worldwide, feel at home at Alpha and we always give them a warm welcome. Because our doors are always open.

Safe doors
All automatic doors must comply with European Directive EN 13241. Alpha develops and produces its new products strictly in line with these standards. As a result, you are guaranteed safe operation during daily use, assembly and maintenance.
High speed door solutions

Different situations demand different solutions

Working efficiently means working economically. Alpha rapid roll doors help you improve your logistic performance. Alpha offers a customized solution for almost every situation. Our in-house Research and Development department responds alertly to changes in the requirements that rapid roll doors have to satisfy.

Industrial buildings already have to comply with increasingly stringent energy saving requirements and this trend is forecast to continue. Research performed by the Technical University of Munich has shown that rapid roll doors have a significant effect on the amount of energy consumed in industrial buildings. The study shows that the interior temperature of a building or room plummets when the door is left open (depending on the temperature differential and type of building). Consequently, the shorter the period of time that a door remains open, the lower the drop in interior temperature. Draughts are also significantly reduced, which helps maintain a more comfortable environment in the building and reduces sickness absenteeism.

Energy loss

The illustrations below show how air flow through a conventional outside door (A) results in energy loss. When a high tech rapid roll door from Alpha (B) is used, the door has already closed again before the air flow reaches the opening.

This maintains the interior temperature at a constant value, saves energy, guarantees pleasant working conditions and reduces sickness absenteeism as an added bonus.

Inside applications

Outside applications

Additional Options

Accessories

References
Applications

The extensive range of draught-excluding solutions from Alpha is used in just about all market sectors. The exact type of door depends on the specific application and the conditions in which it is to operate. Our standard range offers solutions for most situations. Based on your input, we can also engineer and supply custom-made solutions to satisfy any special requirements you may have.

Light and heavy industry
The light and heavy industry sectors require a wide variety of draught-excluding solutions. Alpha’s extensive range of doors includes suitable solutions for practically any situation in these sectors. These products are easy to assemble, operate reliably for extended periods and require little maintenance. So our products guarantee you operating reliability, business continuity and safety.

Pharmaceutical and chemical industry
The pharmaceutical and chemical industries require suppliers to meet challenging standards in the areas of hygiene, sealing, operating reliability, fitting and providing efficient aftersales service.

Retail
In modern supermarkets, the shelves are always well stocked with an extensive range of products. Intensive traffic between the storeroom and the retail shop space is required to keep the shelves filled. In view of this level of traffic, a rapid roll door is often chosen to separate the retail space from the storeroom. It operates at high speed, opens and closes automatically, is safe for users, hardly takes up any space and is a low-noise product.

Automotive
A typical car factory produces approximately one thousand cars a day on average. This level of production requires an immense flow of goods and timely delivery is of vital importance. As a result, the doors used in this logistics flow also have to satisfy demanding requirements. Alpha offers products that operate dependably under these conditions, day-in and day-out.

Food
Alpha is a recognised name in the food industry. In Europe we have a long history of supplying our products to major food producers and processors. We also have extensive experience with cold store manufacturers. We know from experience that this sector involves more than simply using materials such as stainless steel and compliance with strict hygiene requirements, there is also strong demand for custom-made solutions. These usually focus on cost efficiency and ensuring production process continuity.

Logistik
When products are ready, need to be transported to the end customer as quickly and efficiently as possible. Consequently, many European companies subcontract warehousing, transhipment and delivery to large logistics distribution centres. The doors involved in these logistic flows often open and close many times a day.
Clever interior door solutions

**New**

**Strong E**
- developed for application in all possible situations
- 9 m² max.
- class 0 wind resistance
- 1.8 m/s opening speed with frequency control (option)
- also available for food industry

**New**

**Strong**
- developed for large doorways and average wind pressure
- max. 25 m²
- wind load resistance*: up to 3 x 3 m - class 3
  up to 4 x 4 m - class 2
  up to 5 x 5 m - class 1
- depending on the configuration
- opening speed: 1 m/s
- opening speed: 1.8 m/s with frequency control (option)

**Prime**
- developed for universal use and average wind pressure
- max. 12.25 m²
- wind load resistance*: up to 3 x 3 m - class 1
  from 3 x 3 m - class 0
- depending on the configuration
- opening speed: 1 m/s
- opening speed: 1.5 m/s with frequency control (option)

**Basic XL**
- developed for large, frequently used doorways
- max. 36 m²
- class 0 wind load resistance
- opening speed: 1 m/s
- opening speed: 1.5 m/s with frequency control (option)

**Retail**
- developed for Retail
- max. 5.85 m²
- class 0 wind load resistance
- opening speed: 2 m/s with frequency control
- option for photo print on door curtain

**Polara**
- developed for extremely cold conditions
- max. 17.5 m²
- class 0 wind load resistance
- opening speed: 1 m/s

**Flex 2.0**
- developed for frequently used doorways
- max. 20 m²
- class 0 wind load resistance
- opening speed: 2 m/s with frequency control

**Inside applications**
The most reliable basis for intensive use

Best basis for intensive use

The Alpha Strong is the basic high speed roller door model for intensive use. The door curtain is made of horizontal sections of extremely durable polyester-reinforced PVC. All aspects of the door are robustly designed and well-engineered for every day energy saving, draught exclusion and climate control. Designed for use in general industry and commercial buildings. Proven technology guarantees many years of trouble-free operation. Designed for use in general industry and commercial buildings.

Specific features:
• robust steel guide side columns fitted with brush seals guide the door curtain
• the sections are connected to each other by aluminium stiffener/hinge profiles
• aluminium bottom beam with rubber floor seal
• light curtain as standard

Options:
• available with a FlexEdge bottom beam
• 1.2 mm PVC for a smooth design
• all construction parts in stainless steel
• cover over roller in steel, stainless steel or plastic
• plastic cover over drive
• windows made of transparent plastic or mosquito netting

Specifications Strong
max. surface area (W x H) 25 m²
max. width (W) 5,000 mm
max. height (H) 5,000 mm
opening speed 1 m/s
opening speed with frequency control 1.8 m/s
closing speed 1 m/s
closing speed with frequency control 0.5 m/s
door curtain weight 680 gr/m²
door curtain thickness 0.7 mm

Product Benefits
• light curtain in the door opening
• wind load resistance*: up to 3 x 3 m class 3, up to 4 x 4 m class 2, up to 5 x 5 m class 1

Supplied in the following colours as standard
1003 2009 5005 7024 7038 9003 9004

The Economic is an electrically operated high speed door that combines good quality with excellent value for money

Specifications STRONG E
max. surface area (W x H) 9 m²
max. width (W) 3,000 mm
max. height (H) 3,500 mm
opening speed 1 m/s
opening speed with frequency control 1.8 m/s
closing speed 1 m/s
closing speed with frequency control 0.5 m/s
door curtain weight 650 gr/m²
door curtain thickness 0.7 mm

Product Benefits
• light curtain as standard
• ideal door for passageways with low wind load

Supplied in the following colours as standard
1003 2009 5005 7024 7038 9003 9004
### BASIC XL

**A tower of strength**

* Workhorse for large openings

The Alpha Basic XL has been specially developed for large interior openings up to 36 m². All structural components and the curtain are robustly designed and engineered. Overpressure and underpressure can exert considerable forces on the door curtain. With its 1.2 mm thick door curtain and strong aluminium stiffener/hinge profiles, the Heavy Outdoor is capable of withstanding wind loads of up to 5 Beaufort (28 – 38 km/h).

Specific features:
- extra strong, fabricated steel side columns with brushes to seal and guide the door curtain
- a bottom beam with a self-testing bottom safety edge and cast aluminium end pieces of as standard

Option:
- the aluminium lower beam is available with a ‘BreakAway’ crash-protection system, which prevents damage in a collision and allows the door curtain to be repositioned in the guides without having to use special tools
- safety light curtains in the guide

### Specifications Basic XL

<table>
<thead>
<tr>
<th>Max. Surface Area (W x H)</th>
<th>36 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Width (W)</td>
<td>6,000 mm</td>
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<tr>
<td>Max. Height (H)</td>
<td>6,000 mm</td>
</tr>
<tr>
<td>Opening Speed</td>
<td>0.7 m/s</td>
</tr>
<tr>
<td>Opening Speed with Frequency Control</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Closing Speed</td>
<td>1.0 m/s</td>
</tr>
<tr>
<td>Closing Speed with Frequency Control</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Door Curtain Weight</td>
<td>1,400 gr/m²</td>
</tr>
<tr>
<td>Door Curtain Thickness</td>
<td>1.2 mm</td>
</tr>
</tbody>
</table>

### Product Benefits Basic XL

- light curtain in the door opening
- wind load resistance*:
  - up to 3 x 3 m: class 1
  - from 3 x 3 m: class 0
- depending on the configuration

*depending on the configuration

Supplied in the following colours as standard:
- 1003, 2009, 3020, 5002, 7024, 7038, 9003, 9004

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### PRIME

**Appearance and performance in perfect harmony**

* The fast and quiet solution

The Alpha Prime is a cost-effective solution for small openings up to 12.25 m² and normal use. Ideal for openings used by pedestrians and materials handling equipment. This door is suitable for a wide range of applications, due in part to its very competitive price.

Das ist ein qualitativ hochwertiges, elektrisch betriebenes Schnelllaufrolltor mit einem sehr guten Preis-Leistungs-Verhältnis.

Specific features:
- robust steel guide side columns fitted with brush seals guide the door curtain
- aluminium bottom beam with a rubber floor profile
- steel U-shaped side guide with brush seals
- light curtain as standard

Options:
- available with a FlexEdge bottom beam
- all construction parts in stainless steel
- cover over roller in steel, stainless steel or plastic
- door curtain featuring a print of your choice
- windows made of transparent plastic or mosquito netting

### Specifications Prime

<table>
<thead>
<tr>
<th>Max. Surface Area (W x H)</th>
<th>12.25 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Width (W)</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>Max. Height (H)</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>Opening Speed</td>
<td>1.0 m/s</td>
</tr>
<tr>
<td>Opening Speed with Frequency Control</td>
<td>1.5 m/s</td>
</tr>
<tr>
<td>Closing Speed</td>
<td>1.0 m/s</td>
</tr>
<tr>
<td>Closing Speed with Frequency Control</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Door Curtain Weight</td>
<td>680 gr/m²</td>
</tr>
<tr>
<td>Door Curtain Thickness</td>
<td>0.7 mm</td>
</tr>
</tbody>
</table>

### Product Benefits Prime

- light curtain in the door opening
- wind load resistance*:
  - up to 3 x 3 m: class 1
  - from 3 x 3 m: class 0
- depending on the configuration

*depending on the configuration

Supplied in the following colours as standard:
- 1003, 2009, 3020, 5002, 7024, 7038, 9003, 9004
**POLARA**

Resistant to extreme cold

When hygiene is vital at low temperatures

The Alpha Polara is suitable for use in the food industry where stringent hygiene and safety requirements apply when producing and processing fresh foods.

The Polara door provides an effective seal in freezer cell openings. All components are heated. The door opens automatically every 15 minutes to prevent icing.

Specific features:
- heated side guides
- heated control unit
- heated photocells
- rubber seals instead of brush seals
- IP65 drive and control unit

**Specifications**

- max. surface area (W x H): 17.5 m²
- max. width (W): 3,500 mm
- max. height (H): 5,000 mm
- opening speed: 1 m/s
- closing speed: 1 m/s
- door curtain weight: 680 gr/m²
- door curtain thickness: 0.7 mm

**Product Benefits**

- Class 0 wind load resistance
- safety photocell in the door opening
- operates down to -30 °C
- dual radar for detecting ice
- bottom beam with multilene end pieces

**Supplied in the following colours as standard**

<table>
<thead>
<tr>
<th>Code</th>
<th>Colour</th>
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<td>7038</td>
</tr>
<tr>
<td>9003</td>
<td>9004</td>
</tr>
</tbody>
</table>

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**RETAIL**

The best solution for your store!

These days, supermarkets also have to look attractive. The products on display need to be presented accessibly and appetisingly. The Retail door puts the finishing touches to a successful in-store presentation. This rapid roll interior door with its opening speed of 2 m/s is not just one of the fastest of its kind, it also opens and closes in near silence.

The standard tubular motor allows elegant styling without taking up excessive space in the store. And if you truly want to dot your i’s and cross your t’s in terms of presentation, you can also print your logo or a photographic image on the PVC door curtain.

**Options**

- Flex-Edge instead of aluminium lower beam
- counterweight instead of spring for balancing
- industrial integrated drive
- multiple photocells in the side guides
- mechanical release in the event of power failure
- door curtain featuring a print of your choice

**Specifications**

- max. width (W): 2,250 mm
- max. height (H): 2,600 mm
- opening speed: 2 m/s
- closing speed: 0.5 m/s
- door curtain weight: 650 gr/m²
- door curtain thickness: 0.7 mm

**Product Benefits**

- Class 1 wind load resistance
- compact design of side guides and roller cover
- self-repairing after impact, in one direction
- a safety light curtain is standard

**Supplied in the following colours as standard**

<table>
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</thead>
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<tr>
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<td>7021</td>
<td>7038</td>
</tr>
<tr>
<td>9003</td>
<td>9004</td>
</tr>
</tbody>
</table>
**FLEX 2.0**

**Hard edge**

**Attractive, fast and silent**

Universal solution
The Flex is an interior door for universal use in industry. The door is fast and strikingly silent in operation. An industrial drive unit integrated in the roller keeps the side space requirement to a minimum. The advanced control panel is equipped with frequency control as standard, offering many functions and connection possibilities.

**Presence detection**
An active light curtain is supplied to a maximum height of 2,500 mm. When the door is open, the safety light curtain detects both moving and stationary objects in the opening and prevents the door from closing. This new generation of Alpha Flex is equipped with two extension springs for door curtain balancing, resulting in a considerably extended service interval.

Options:
- mechanical emergency release
- protective cover in galvanised steel / stainless steel painted in a choice of RAL colours
- guide columns in customer-specified RAL colour (powder coating)

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**FLEX 2.0**

**Flex edge**

**If your goods are fragile**

Soft and flexible bottom beam
When closing a rapid roll door in relatively low openings, contact may occur between the bottom beam and the goods being transported. A hard bottom beam might cause damage. The ‘FlexEdge’ is flexible and soft, thereby increasing safety. Persons or goods that accidentally come into contact with the ‘FlexEdge’ will suffer little or no damage. The door opening is monitored in the same way as the ‘HardEdge’ door.

Options:
- mechanical emergency release
- protective cover in galvanised steel / stainless steel painted in a choice of RAL colours
- guide columns in customer-specified RAL colour (powder coating)

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**Specifications Flex 2.0 Hard Edge**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>max. surface area (W x H)</td>
<td>20 m²</td>
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<tr>
<td>max. width (W)</td>
<td>4,000 mm</td>
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<tr>
<td>max. height (H)</td>
<td>5,000 mm</td>
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<tr>
<td>opening speed</td>
<td>2 m/s</td>
</tr>
<tr>
<td>closing speed</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>door curtain weight</td>
<td>1,400 g/m²</td>
</tr>
<tr>
<td>door curtain thickness</td>
<td>1.2 mm</td>
</tr>
</tbody>
</table>

**Product Benefits**
- Class 0 wind load resistance
- self-supporting construction
- 100% self-resetting in both directions
- a safety light curtain is standard

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**Specifications Flex 2.0 Flex Edge**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>max. surface area (W x H)</td>
<td>17.5 m²</td>
</tr>
<tr>
<td>max. width (W)</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>max. height (H)</td>
<td>5,000 mm</td>
</tr>
<tr>
<td>opening speed</td>
<td>2 m/s</td>
</tr>
<tr>
<td>closing speed</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>door curtain weight</td>
<td>1,400 g/m²</td>
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- 100% self-resetting in both directions
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**Supplied in the following colours as standard**

<table>
<thead>
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<td>7038</td>
<td>9003</td>
</tr>
<tr>
<td>9004</td>
<td></td>
</tr>
</tbody>
</table>
Attractively styled, durable and energy-efficient

Developed to satisfy market demand

User demand and user requirements have played a major part in shaping Alpha’s range of industrial doors. When specifying high speed doors, the correct choice of brand, type and design is crucial. The right choice of product can optimise logistics processes and reduce costs.

Helix S600
- developed for exterior façades
- max. 25 m²
- class 3 wind load resistance
- opening speed: 1.1 m/s
- with frequency control

Heavy Outdoor
- developed for exterior façades
- max. 36 m²
- class 2 wind load resistance
- opening speed: 1 m/s
- opening speed: 1.5 m/s
- with frequency control (option)

ALU R
- developed for exterior façades
- max. 25 m²
- class 2 wind load resistance
- opening speed: 1 m/s
- with frequency control

Clever exterior door solutions

Outside applications
Alpha Helix / S600

Fast all-in-one exterior door

Alpha sets itself ambitious targets in the areas of insulation, noise and pricing. Our research & development department has succeeded in developing an unprecedentedly fast sectional door that also offers exceptional insulation performance: the Alpha Helix. Specially designed rollers keep noise to a minimum. This patented system also contributes to the sleek design of the Alpha Helix.

Traditionally, two doors are often mounted in frequently used exterior openings; an insulated door for use at night and a high speed door that is used during the day. The new Alpha Helix / S600 combines the best of both worlds in a single product. An investment that pays for itself in next to no time!

The S600 has the identical drive system as the Helix Spiral door but has a standard track system. This door opens 6x faster as a similar sectional door but can be installed into a headroom of only 600 mm. The Helix and S600 have a standard section height of 366 mm.

If you have insufficient back room for the S600 you have the solution of the Helix with a faster speed!

Configuration doorleaf

Available in a micro line profiled finish. The door is offered in RAL 9002 as standard, but can optionally be painted in any (approximation of a) RAL colour.

### Specifications

<table>
<thead>
<tr>
<th>ALU</th>
<th>ISO</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
</tr>
<tr>
<td>Bottom section</td>
<td>-</td>
</tr>
<tr>
<td>Intermediate section</td>
<td>250 mm</td>
</tr>
<tr>
<td>Top section</td>
<td>275 mm</td>
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### Helix S600

<table>
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<tr>
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<th>Spiral</th>
<th>Normal railsystem</th>
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<tbody>
<tr>
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<td>25 m² (350 kg)</td>
<td>25 m² (350 kg)</td>
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<tr>
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<td>5,000 mm</td>
<td>5,000 mm</td>
</tr>
<tr>
<td>Max height</td>
<td>5,000 mm</td>
<td>5,000 mm</td>
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<tr>
<td>Opening speed</td>
<td>1.1 m/s</td>
<td>1.1 m/s</td>
</tr>
<tr>
<td>Closing speed</td>
<td>0.5 m/s</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Panel thickness</td>
<td>40 mm</td>
<td>40 mm</td>
</tr>
<tr>
<td>ALU sections possible</td>
<td>ja</td>
<td>ja</td>
</tr>
</tbody>
</table>

### Product Benefits

- Class 3 / 4 wind load resistance
- High insulation value $U = 1.77 \text{ W/m}^2\text{K}$ when the door is fully closed (up to 5,000 x 5,000 mm)
- High opening speed
- Low noise due to vibration-free operation

### Energy-conscious

You can easily reduce energy costs by opening and closing exterior doors at high speed.

The Alpha Helix / S600 opens at a speed between 1.1 m/s.
HEAVY OUTDOOR

For large, intensively used doorways

The fast and reliable exterior door

The Heavy Outdoor is a rapid rolling door with electric drive. Applications are in industry and public utilities with exterior openings. When fitted behind a sectional door or roller shutter, the Alpha Heavy Outdoor creates a more pleasant working environment and saves energy.

The traditional sectional door is opened in the morning and closed at night. The rapid roll door seals the opening during the working day. The high speeds at which it opens and closes minimise the air flows that cause energy loss. The Alpha range of exterior doors has obviously been designed to withstand the extreme conditions in which these doors operate.

ALU R

Cost-effective aluminium roller shutter

Universal roller shutter door

The Alu R is a high-speed exterior door that offers good insulation. Besides offering an attractive appearance, this door’s opening speed of 1 m/s makes it suitable for universal use in interior and exterior openings. As door panel balancing is not required, the Alpha Alu R is compactly dimensioned with smaller side guides and a less powerful drive. This simplified design approach significantly reduces the cost of the door without affecting reliability.

Specific features:
- opening speed of 1 metre per second
- one or multiple viewing slats are optionally available

Colours

The door is offered in a standard range of RAL colours and can optionally be painted in any (approximation) RAL colour.

Specifications

<table>
<thead>
<tr>
<th>ALU R</th>
<th>Heavy Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. surface area (W x H)</td>
<td>25 m²</td>
</tr>
<tr>
<td>Max. width (W)</td>
<td>6,000 mm</td>
</tr>
<tr>
<td>Max. height (H)</td>
<td>6,000 mm</td>
</tr>
<tr>
<td>Opening speed</td>
<td>1 m/s</td>
</tr>
<tr>
<td>Opening speed with frequency control</td>
<td>1.5 m/s</td>
</tr>
<tr>
<td>Closing speed with frequency control</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td>Frequency control</td>
<td>Included as standard</td>
</tr>
</tbody>
</table>

Product Benefits

- Class 2 wind load resistance
- Aluminium reinforcing profile with guide wheels at the ends
- Heavy duty product for outdoor use and high wind loads

Supplied in the following colours as standard

<table>
<thead>
<tr>
<th>Colour Code</th>
<th>Colour Name</th>
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</thead>
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<td>5010</td>
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Additional Controls

**Push-button**
Push-buttons are used predominantly for pedestrian traffic. In situations where the hands are not always free, mushroomhead push-buttons offer a solution.

**Pull switch**
The pull switch is used mainly for forklift truck traffic so the driver can operate the door without getting out of the vehicle.

**Radar detector**
Radar devices only detect moving objects. The radar detector has a conical detection area and is direction-sensitive. The size, direction and sensitivity of the radar detection field are adjustable.

**Push-button**

**Mushroom head**

**Push-button set**

**Up-down**

**Key-operated switch**

**Hand transmitter**

**2-channel or 4-channel**

**ClearWave**

**Switches without touching**

**Console**

**Protects the guides in the event of a collision**

**Light curtain**

**Presence detection in the door opening to a maximum height of 2,500 mm**

**Safety photocell with Housing**

**with reflector**

**Ixio S**

**Infrared for interior use to H = 3,5 m**

**Accessories**

**Adjustable photocell bracket**

**Galvanized steel**

**Ixio D**

**Infrared and movement sensor for interior use to H = 3,5 m**

**Push-button set**

**Up-stop-down**

**Face-fit**

**Pull switch**

**Radar detector**

**Movement sensor for interior and exterior use to H = 6 m**

**Key-operated switch**

**Condor**

**Infrared and movement sensor for interior and exterior use to H = 6 m**

**Support bracket**

**For radar or traffic lights**

**Induction loop detector**

**In separate housing**

**Traffic light**

**Red**

**Traffic light**

**Red/green**

**I xio S**

**Infrared and movement sensor for interior use to H = 3,5 m**

**Protective Bollards**

**Galvanized or powder-coated, bolted or cast in concrete**

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**Induction loop**
An induction loop creates a magnetic field. When metal objects enter the field, they are detected. Consequently, the induction loop detector is suitable for forklift truck traffic as a door control or extra safety device to prevent the door from closing.

**Remote control**
Radio remote control operation (transmitter and receiver) allows selective operation. Only vehicles or personnel with a transmitter can open or shut the door. The transmitters may have one or more channels.

**Photocell**
Photocells are mainly used to monitor the door opening. The door will not close when the photocell beam is interrupted. Designs with a reflector and with a transmitter and receiver are available.

**Light curtain**
Because a light curtain has a larger detection range, it offers greater safety than a photocell. This form of detection is highly suited to a large variety of vehicle and load sizes.
The complete package from a single source.

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