



**LOADING  
SYSTEMS**



**DOCK EQUIPMENT & INDUSTRIAL DOORS**

**Industrial doors**

# Loading Systems

# Industrial doors









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# 1. We take care.

Loading Systems delivers total solutions for loading and unloading with the emphasis on 'total'. As one of the European market leaders and pioneers in the field of loading and unloading, we manage the complete end to end process from consultancy, design, production, project management, installation and service. Our state-of-the-art R&D department, as well as our flexible regional manufacturing locations guarantee a market-orientated solution to cater for all your logistical needs.



Managing Directors Ronald and Harald van Wijk and the Loading Systems Management Team.



## Pioneers in the field of loading and unloading

### Safe and efficient

Loading Systems organises the layout of your loading and unloading bays to ensure maximum safety and efficiency. Whether it involves the design, installation, commissioning or maintenance: your requirements are the starting point for each element of our services. It goes without saying that our products and services comply with the European Machinery Directive Guidelines and include CE-marking. All Loading Systems companies are certified in accordance with the valid national and international quality marks, such as ISO 9001:2015, ISO 14001:2015, VCA, Investors in People, and HACCP.

### Totally free to focus on your own business needs from the beginning to end

By involving us from the start of the planning process, the services we provide allow you to have your hands completely free so you can focus on your own business needs. We can provide you with extensive and fully

tion drawings.

### Dock equipment, industrial doors & accessories

Loading Systems offers a complete programme of products and services for your loading bays. To further complement your loading bay requirements, Loading Systems offers a wide range of supplementary accessories for you to choose from. Our Advanced Control Centre (ACC) product even provides a practical web-based software programme to assist you in the efficient management of your loading bays. Advanced Control Centre increases your ability to efficiently and proactively coordinate, monitor and manage the activity of the vehicles and dock equipment around your loading bays.

### Always available

With Loading Systems offices located throughout Europe, we are always close by. We are ready and available 24 hours per day, 7 days per week. Our expertly



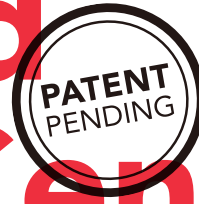
detailed advice based on: your type of organisation, the site's layout, frequency of loading and unloading, your type of vehicle fleet, your type of internal material handling equipment and the type of goods being moved around the site. Furthermore, we realise the importance of getting deep into the detail and can even advise you on the correct aesthetical design of the loading and unloading bay openings. To ensure a seamless interface between our products and the site arrangement is efficiently achieved during the construction stage, our state of the art design office will provide you with bespoke design details and construc-

tion drawings. trained engineers ensure reliable maintenance, certification, repairs and replacement of your loading bay equipment whenever you call.

**No matter where you are, or what your loading bay requirements are, We take care.**



# 2. Advanced Control Centre



With the Loading Systems Advanced Control Centre you can efficiently and pro-actively coordinate, monitor, control and manage vehicle traffic around your loading bays. The system is based on Dock Management, Facility Management, Service and Statistics & Reporting modules.



**Your loading and unloading systems, monitored 24/7**

## 2.1 Dock Management

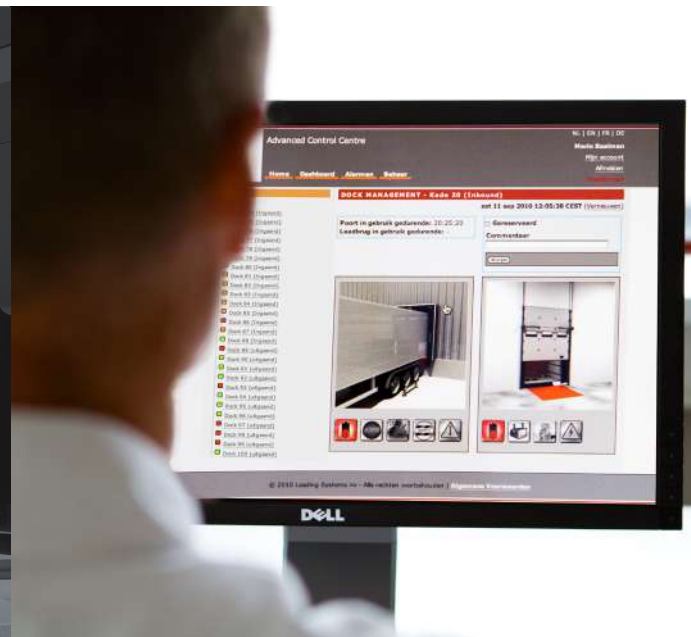
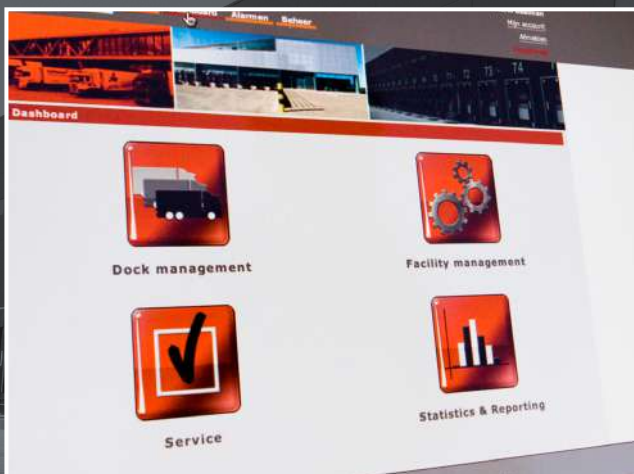
The Advanced Control Centre Dock Management module offers live information on the status of all your loading bays. Vehicles can be allocated to a loading bay by making a real-time reservation at the loading bay from a remote location. As soon as the vehicle docks at a loading bay, you immediately see what is happening on the screen. The live status of the equipment at the loading bay is also made continuously visible, including information on whether the dock door is open or closed, or whether a dock leveller is or is not in use. As soon as the vehicle departs on completion of the loading or unloading operation, the loading bay is automatically released for the next vehicle reservation. This eliminates unnecessary waiting time for the next vehicle to be loaded or unloaded and always guarantees that the correct vehicle is allocated to the correct loading bay.

## 2.2 Facility Management

The Advanced Control Centre Facility Management module provides a real time status overview of all your loading and unloading bays at a glance. For instance, you can quickly establish which doors are open or closed. With authorisations in place, you can operate the doors by remote control. The system allows you to receive an e-mail or text message if the opening time of a door exceeds a preset time. There is also a surveillance walk-around feature for checking loading bay lights which are left on, with an option to then switch off from a remote location.

### Energy-saving and safety

Each time a door is unnecessarily opened expensive utilities energy is lost. The Advanced Control Centre prevents unnecessary energy losses by improving the management of the vehicle fleet and the loading/unloading process. Doors can be controlled so that they can only be opened during the loading and unloading



### Dock Management - Advantages

- Full control and a summary of the vehicles near the loading bay.
- Improved efficiency and occupancy rate of your loading bay.
- Reduced risk of errors: allocation of vehicles to the correct loading bay.
- Reduced waiting times for vehicle and improved yard management.
- Current summary of the occupancy rate, average loading and unloading times, number of vehicles loaded/unloaded per loading bay, and a complete overview of the loading and unloading bay status.

process and the doors can immediately be closed after the loading/unloading cycle is complete.

### Facility Management - Advantages

- Improved security of your building.
- Live summary status of the loading bays (i.e. door open / closed).
- Possible link to your WMS system (correct goods at the correct loading bay).
- Environmentally-friendly; less energy loss = reduced CO2 emission.
- Less absence due to illness typically caused by a draughty working environment.

### 2.3 Service

With the Advanced Control Centre Service module, your loading and unloading bay equipment is monitored 24/7. The Advanced Control Centre informs a Loading System specialist on any loading and unloading bay equipment breakdowns. Problems can immediately be analysed and solved, at times often remotely, which significantly reduces operational disruption to your loading and unloading activities.

#### Maintenance

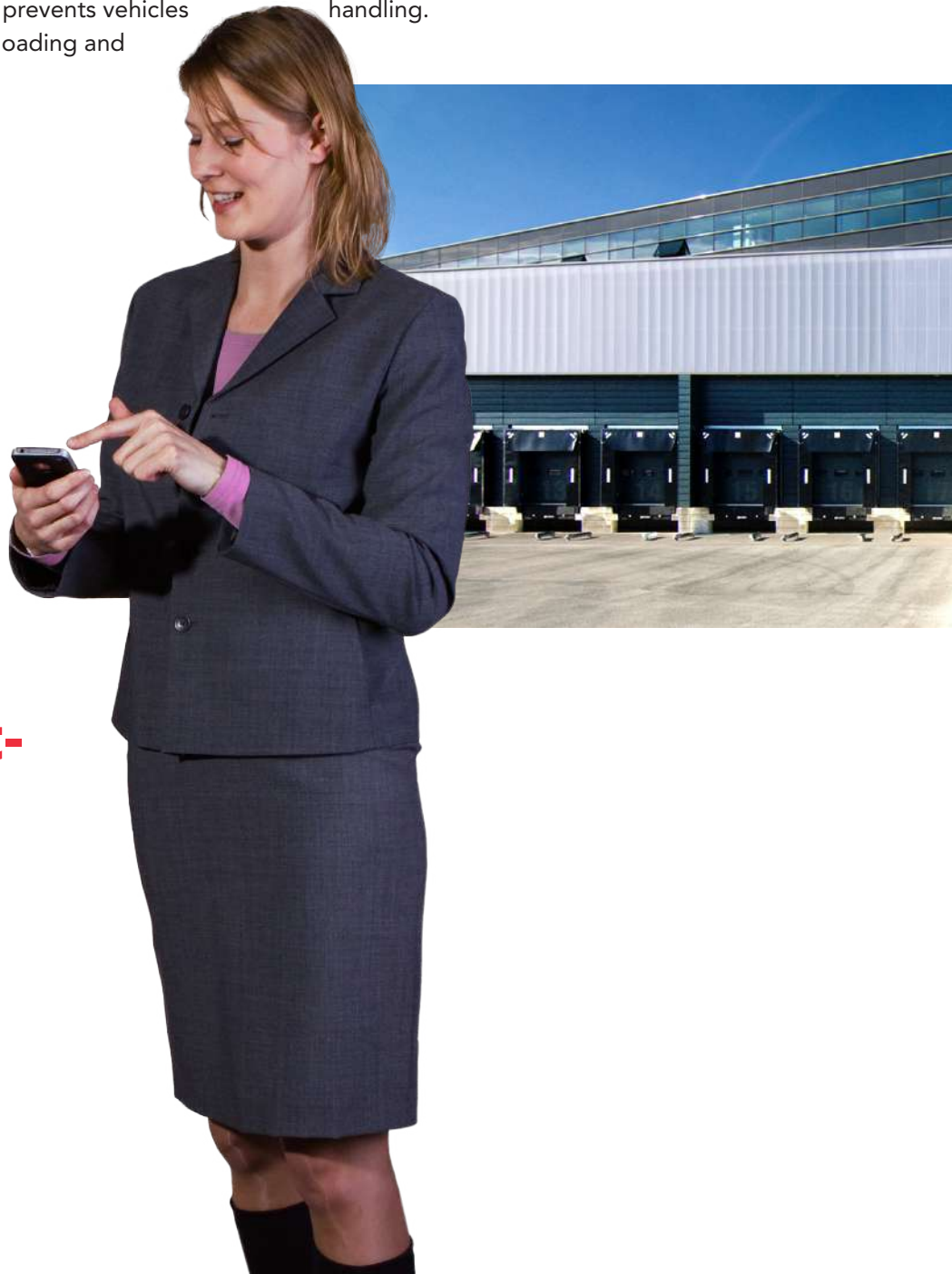
Periodic maintenance guarantees maximum optimisation of your loading and unloading bay equipment. Based on measured usage, periodic maintenance can be automatically planned by the Advanced Control Centre Service module. Naturally, any error or periodic maintenance requirements are visible in the Dock Management module. This module also ensures optimal operational management and prevents vehicles from being directed to unavailable loading and unloading bays.

All these features guarantee maximum operational uptime. By ensuring your equipment is maintained at the correct service intervals and by reacting to breakdowns immediately at the time when they occur, you achieve optimal efficiency by avoiding unnecessary waiting time during the loading and unloading activity.

#### Service module - Advantages

- Maximum uptime of your loading and unloading bay equipment: 24/7 product monitoring.
- Error codes sent automatically using modem technology, which can often be solved remotely. Our engineers are informed even before you have detected the problem yourself.
- Service and maintenance will be executed at the correct service intervals, ensuring extended product lifetime, and reduced lifetime maintenance costs.
- Minimal operational costs and less administrative handling.

**Efficient,  
environment-  
friendly and  
safe**





## 2.4 Statistics & Reporting

The Advanced Control Centre Statistics & Reporting module allows you to optimise transport and flow of goods. With the Statistics & Reporting module you have the possibility to retrieve loading bay equipment usage rates, exact and average loading and unloading times, and the number of movements per loading and unloading bay. Data can be used effectively and efficiently to monitor and control your loading and unloading activity to optimise efficiency.

### Statistics & Reporting - Advantages

- Optimal summary of the loading and unloading bay operational costs.
- Substantiated analysis to optimise vehicle traffic and flow of goods.

## 2.5 Minimum investment

The Advanced Control Centre is an easily accessible solution and is fully web-based. It only requires minimal (hardware) investments. The Advanced Control Centre is accessible from any PC with an internet connection, and allows multiple authorised users to use the system simultaneously.

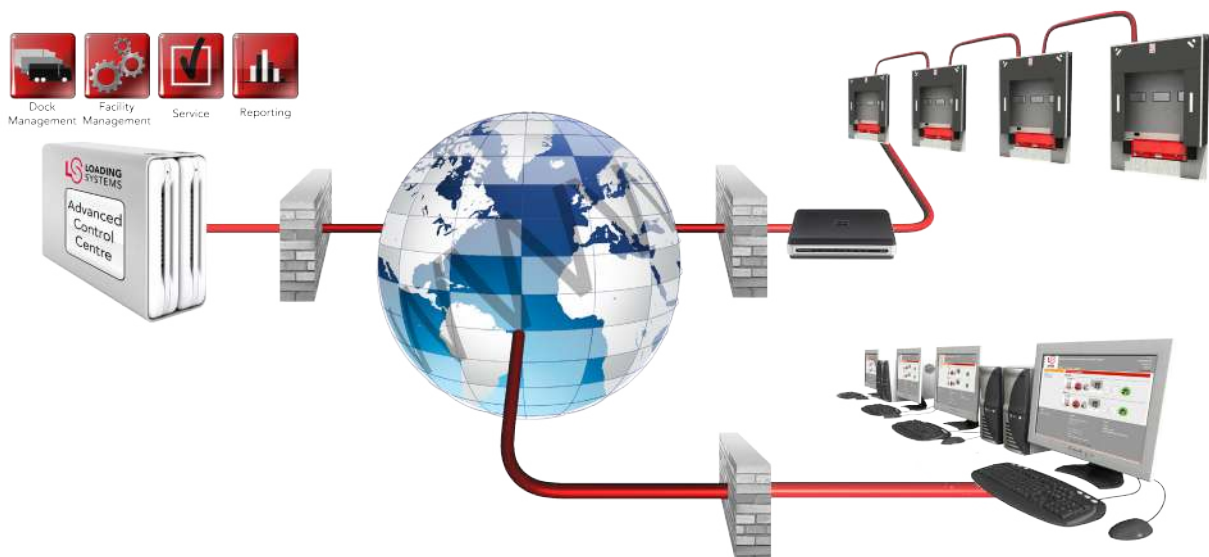
### The Advanced Control Centre serves your purpose!

- Easily accessible web-based solution, minimum hardware investment.
- Accessible from multiple PC's by multiple users simultaneously.
- Automatic software updates: you always have the latest software release available.

The Advanced Control Centre allows you to manage your loading and unloading bays in a cost effective, environment-friendly and safe way. Loading Systems ensures maximum uptime and optimization of your loading and unloading bay equipment.

**We take care.**

# Accessible solution and fully web-based



# 3. Door design

The choice of door is influenced by a number of important factors; such as traffic volume, type of vehicle traffic, processing equipment and access control.



At Loading Systems you have the possibility to adapt your doors completely to suit your own specific requirements, regardless of any changes in circumstances. There is for example a more cost-efficient design available; an improved door design generates substantially lower operating costs than a standard door. This is extremely beneficial to your operating cost efficiency.

# The right door at the right place can generate substantially lower operating costs

The dimensions of industrial doors can greatly vary depending on the type of door required, for example : loading bay doors, drive-in/drive-through doors.

A drive-in/drive-through door, or level access door, typically has a clearance of:

## Clearance dimensions drive-in/drive-through doors:

Width: 3500 mm - 4500 mm

Height: 4200 mm - 4500 mm\*

\* The lorry's maximum head clearance plus a specified safety margin.

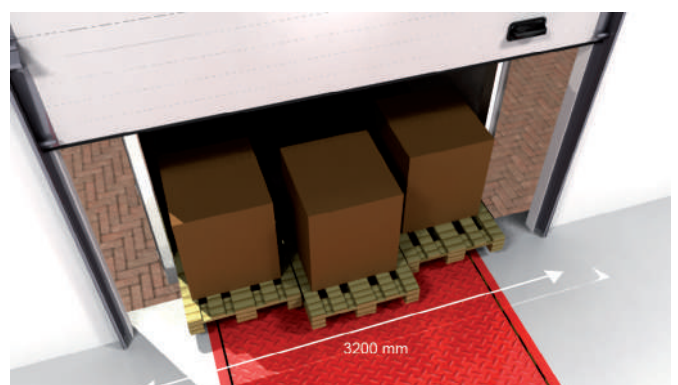
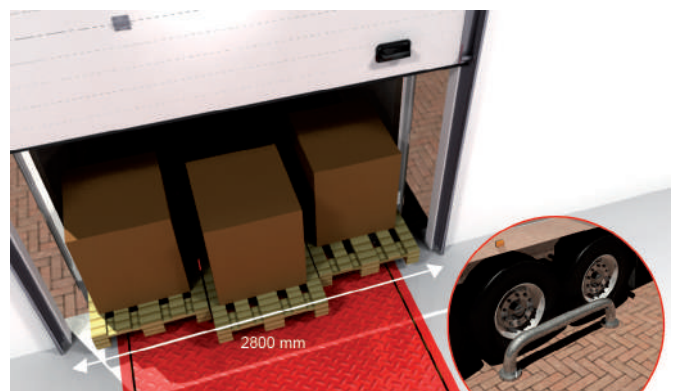
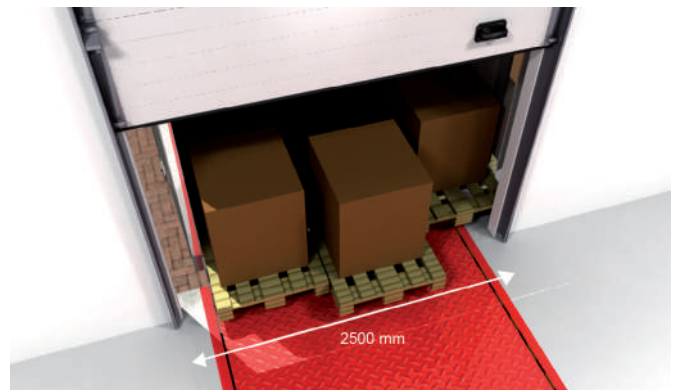
The clearance of a loading bay door typically depends on factors such as:

- The height of the platform.
- The type of goods to be loaded/unloaded.
- The size and model of the vehicle.
- Whether wheel guides are required or not.
- The height of the forklift mast.
- The type of dock leveller.

The clearance height can be determined by the lorry's maximum head clearance (+ safety margin) and the bay height. The lorry's maximum head clearance fluctuates between 3800 mm and 4200 mm, for most air suspension lorries.

The lorry's maximum internal width is  $\pm 2500$  mm. In order to load and unload over the entire width of the lorry it is imperative that the door width is at least equal to the lorry's internal width.

In practice, lorries don't often park in the middle of the opening but up to 30 cm either side. It is obvious that a door opening of 2500 mm is therefore not the ideal solution.



We therefore advise the following clearance dimensions for loading bay doors :

## Clearance dimensions loading bay doors:

Width: 2800 mm\* - 3200 mm

Height: (lorry's roof height + safety margin) minus bay height

\* By introducing wheel guides the margin of error is decreased so a relatively smaller door width can be used.



# 4. Sectional overhead doors

Loading Systems PowerDoor is an industrial sectional door. When the door is opened, the door panels move under the ceiling or move vertically along the warehouse wall.



**Designed for industrial  
and intensive use**

# Safety, durability, ease of use and optimal insulation

The product is designed not to encroach into valuable warehouse space and further ensures that the door is optimally protected from damage.

Loading Systems PowerDoor can be made bespoke to your own requirements by offering many variations in design, finishes, operational systems and installation options. User-friendliness and safety are our main priorities.

## 4.1 Panels

Loading Systems overhead doors are supplied with a wide variety of panel designs and finishes.

### Long life span

Because overhead doors are often subjected to extreme weather conditions, Loading Systems ensures that our door panels are protected against corrosion and warping. All doors are manufactured from high



Loading Systems overhead doors are specifically designed for intensive industrial applications and are manufactured to the highest quality standards. The door panel finish guarantees durability, optimal insulation characteristics and low lifetime maintenance costs.

quality, galvanised, coated steel coil with a thickness 0.5 mm. By selecting the highest choice of materials we can guarantee the longest possible product life span, even when the door is subjected to the most extreme of weather conditions.

The panels are also provided with an additional integrated steel reinforcement strip which ensures greater stability and guarantees the longevity of all the related door components.

#### 4. Sectional overhead doors

##### High insulation characteristics

Loading Systems standard overhead door panels are designed with a 40 mm thickness which seamlessly close to ensure an insulation value in the highest classifications by CE standards. The insulation characteristics can significantly lower the energy consumption of any building, warehouse or similar facility when installed with Loading Systems PowerDoors.

The polyurethane foam core between the high grade steel coil is also fire retardant and CFC-free.

##### Aesthetics

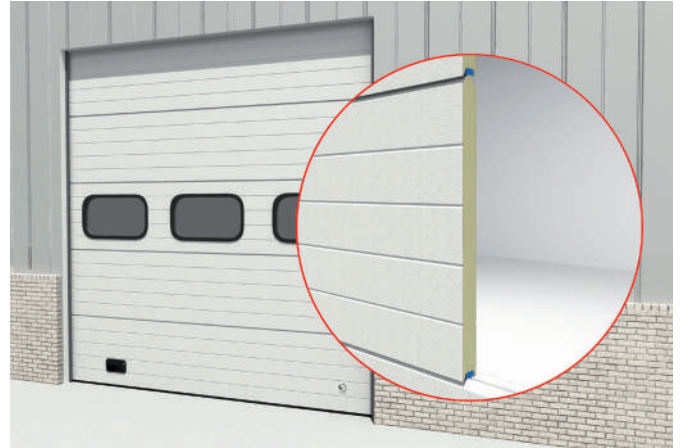
Loading Systems offers an extensive range of standard panel colours and finishes so that your doors can be fully adapted to suit the architectural or functional aspects of your building.

Loading Systems door panels are available with a standard tongue and groove connection, with or without finger protection. Whichever panel type you choose it will be supplied with excellent insulation and corrosion resistant qualities, with a strong CFC-free polyurethane core which is highly stable and durable.

##### Technical specifications panels






| Type of panel                | Panel thickness | Plating thickness | Thermal resistance       | Heat insulation         |
|------------------------------|-----------------|-------------------|--------------------------|-------------------------|
|                              | mm              | mm                | R<br>m <sup>2</sup> /K/W | U<br>W/m <sup>2</sup> K |
| Industrial panel             | 40              | 0.5               | X                        | 0.51                    |
| Panel with finger protection | 40              | 0.5               | 1.54                     | 0.58                    |
| Extra insulating panel       | 80              | 0.5               | 3.43                     | 0.28                    |

##### 4.1.1 Industrial panel



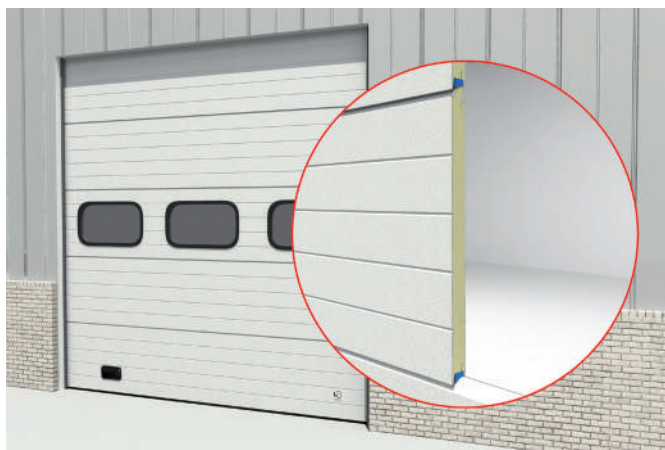
The Loading Systems traditional industrial panel is provided with an in-built thermal break. The tongue and groove design ensures an almost seamless seal between the panels preventing air and/or water from penetrating through the seals, ensuring the best possible insulation properties.

##### Technical specifications of overhead doors with industrial panel

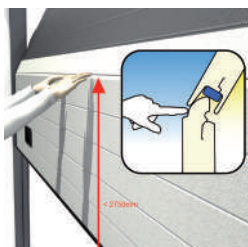
| Size range   | Width up to 4000 mm<br>Height up to 3500 mm   |
|--|---|
|  Resistance to wind load 1)         | Class 3   |
|  Resistance to water penetration 2) | Class 1   |
|  Air permeability 3)                | Class 3   |
|  Heat insulation 4)                 | 14 m <sup>2</sup> door surface area without wicket door<br>U = 1.16 W/m <sup>2</sup> K<br>14 m <sup>2</sup> door surface area with wicket door<br>U = 1.48 W/m <sup>2</sup> K |
|  Noise reduction 5)                 | R = 25 dB   |








### 4.1.2 Finger protection design



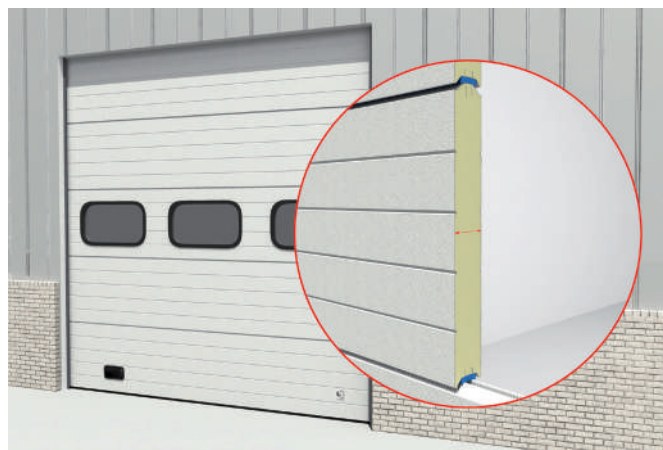
Loading Systems offers a “finger-safe” door panel profile which protects operatives from trapping their fingers between the panels when the door is operated. A finger protection device, or “finger-safe” design is legally required according to CE standards for all overhead doors with an opening height of 2750 mm or less (door panel deviates below 2750 mm).



### Technical specifications of overhead doors with finger protection






| Size range   | Width up to 4000 mm<br>Height up to 3500 mm   |
|--|---|
|  Resistance to wind load 1)         | Class 3   |
|  Resistance to water penetration 2) | Class 3   |
|  Air permeability 3)                | Class 4   |
|  Heat insulation 4)                 | 14 m <sup>2</sup> door surface area without wicket door<br>$U = 1.43 \text{ W/m}^2\text{K}$<br>14 m <sup>2</sup> door surface area with wicket door<br>$U = 1.75 \text{ W/m}^2\text{K}$ |
|  Noise reduction 5)                 | $R = 24 \text{ dB}$   |

### 4.1.3 Extra insulating panel



Loading Systems extra insulating panels are perfectly suited for buildings where it is important to have an optimal division between the inside and outside temperature, such as cold storage. These 80 mm thick sandwich panels have a high insulation value, which results in a decrease in your energy costs.

### Technical specifications of overhead doors with extra insulating panel

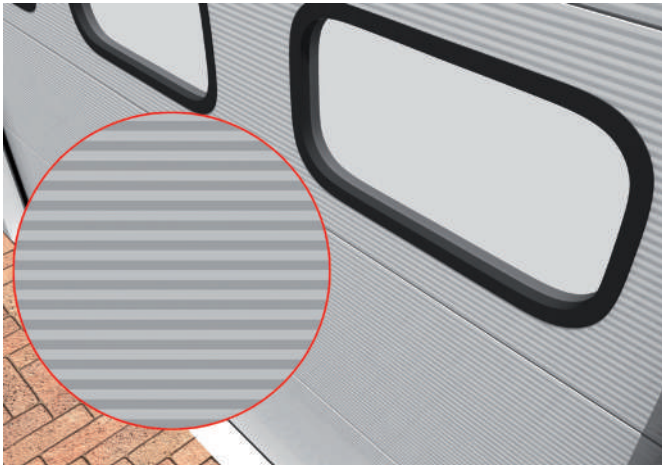
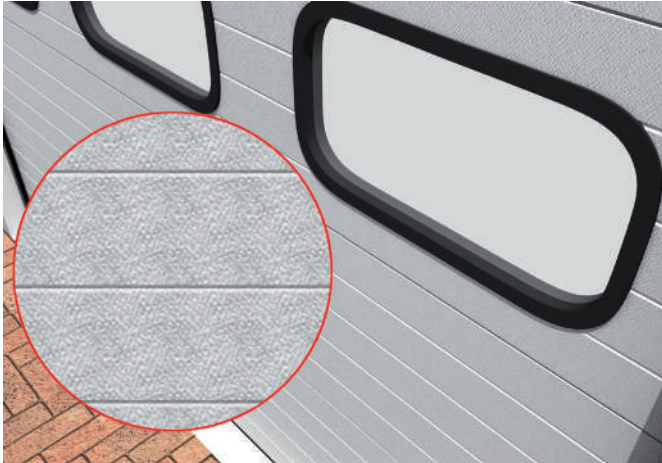
| Size range   | Width up to 4000 mm<br>Height up to 3500 mm   |
|--|---|
|  Resistance to wind load 1)         | Class 4   |
|  Resistance to water penetration 2) | Class 3   |
|  Air permeability 3)                | Class 4   |
|  Heat insulation 4)                 | 14 m <sup>2</sup> door surface area without wicket door<br>$U = 0.86 \text{ W/m}^2\text{K}$ |
|  Noise reduction 5)                 | $R = 25 \text{ dB}$   |

1) EN 12424; 2) EN 12425; 3) EN 12426;  
4) EN 13241, annex B EN 12428

*The aforementioned values are dependent on the overhead door's particular specifications. The rating of the door supplied to you may vary.*

#### 4. Sectional overhead doors

For the door panel finish you can choose the industrial stucco design or the elegant V-profile.



#### Colours

The standard range of colours for Loading Systems overhead doors is determined by industry trends and expectations and is wide and varied. The panel finish is further enhanced by increased UV protection to prevent colour fading.

As well as an extensive range of standard colours, our door panels can be manufactured in almost any other RAL, BS or NCS colours upon request.



#### 4.2 Track systems

During the planning stages of building design it is crucially important to choose the correct door track system or door hardware, so that it follows as closely as possible the path of the building wall and roof. This method of door design ensures that the door leaf can be positioned in such a way so that the door opening, as well as the space around it remains free when the door is opened. In this way the door does not become an obstruction within the building.

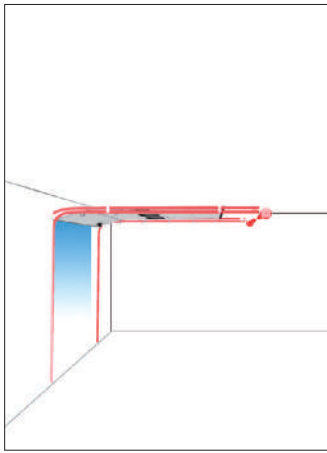
The life span of a door is certainly determined by the quality of its hardware, which is why all Loading Systems door guide tracks are manufactured from the highest quality galvanised steel.

The hardware for every overhead door is custom made and manufactured in our own Loading Systems factory. The door track systems can be adapted for every type of overhead door application.

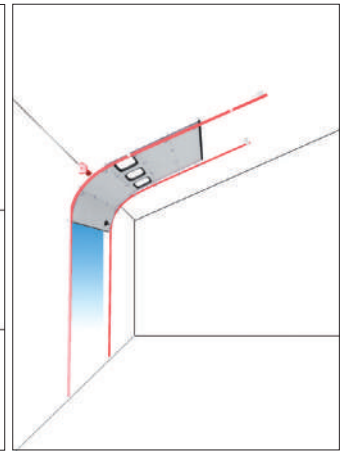
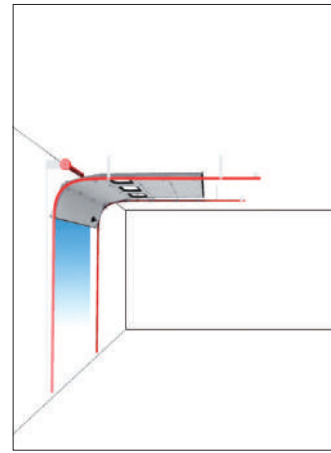
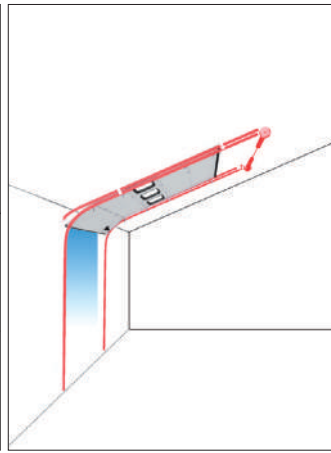
The choice of hardware depends on the design characteristics of the building. One important aspect to consider is the available headroom above the door opening (the free space above the door opening up to the height of the ceiling).

The standard hardware is suitable for most applications, whereas the vertical track system and the high track system are used in applications where there is additional free headroom above the door; in this scenario it is possible to achieve optimal space within the building envelope. In cases where headroom space is limited, the low track system is a more suitable option.

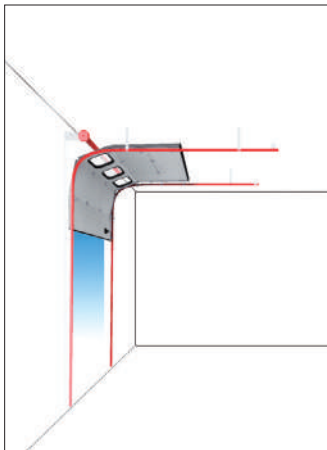
With the exception of the vertical track system, all other track systems can be installed to follow the roofline of the building. We also offer a variety of other track system options which are preassembled and supplied with a low spring assembly. This enables considerable savings in installation time and subsequent lifetime maintenance cost benefits.



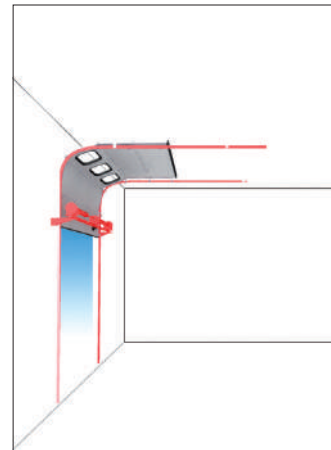
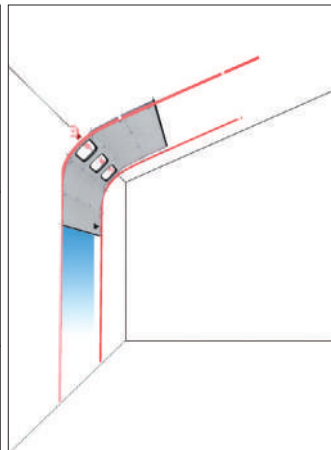
Low track system



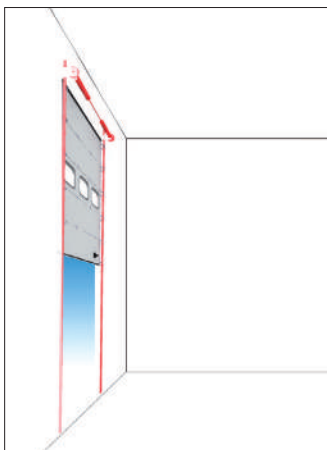
Standard track system



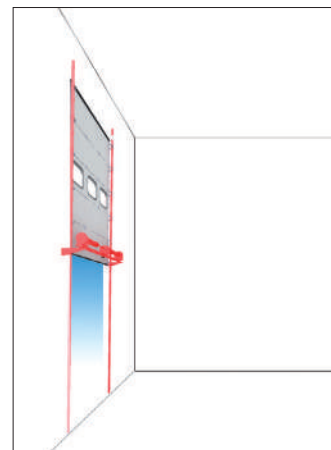
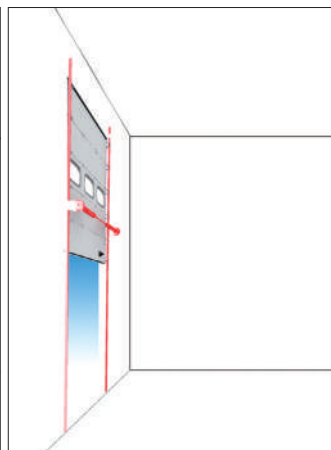
High track system



Preassembled high track system



Vertical track system



Preassembled vertical track system

**Maximum available free space by choosing the right track system**

### 4.3 Door types

#### 4.3.1 Dock door for loading and unloading bays

The Loading Systems dock door is especially designed for applications at loading and unloading bays. The intensive usage and the crucial function within the logistical process places higher demands on the quality and the functioning of these overhead doors.

Due to innovative construction and our choice materials, this dock door is extremely reliable and less prone to wear and tear. This door will continue to perform well even under the most extreme conditions.

Our dock door has a modular construction. The construction is largely delivered pre-assembled. This means that any required maintenance can be done quickly. The dock door's pre-assembled construction also results in considerably lower engineering and operational costs. In compliance with CE standards, all cables run internally.



#### 4.3.2 Extra-large overhead door

Loading Systems can supply large overhead doors for extra-large openings, for example on a hangar warehouse. Due to the size and weight of overhead doors installed in these types of applications, the materials and components are often subjected to extremely high demands.

The Loading Systems' extra-large overhead doors are specifically constructed for use in applications where there is a width of up to 12 metres. To prevent the door from warping, the sections have been equipped with extra reinforcements on the door leaf.

Supported by advanced software, Loading Systems' experienced product engineers calculate the specifications for each overhead door to ensure that a custom made, safe and reliable, extra-large overhead door is always guaranteed.



## Tailor-made door designs for specific applications



### 4.3.3 Wicket and side doors

To increase safety in and around the vicinity of your building, it is sometimes important to separate pedestrian and vehicle traffic as much as possible. To this end, Loading Systems has a complete range of wicket and side doors.

In cases where there is ample space around the overhead door, a side door offers an economical and safe solution. Where this space is unavailable, a wicket door can be integrated in the Loading Systems overhead door.



The wicket doors and side doors can be fully customised, to open inside or out and to the left or right.

Loading Systems wicket and side doors with a low threshold also decrease the risk of pedestrians tripping. They also facilitate the passage of internal traffic. With a lower threshold the side doors can also serve as escape doors.



### Wicket door contact point

Electrically operated overhead doors with wicket doors are provided with standard integrated double wicket door contact points. The contact points ensure that the overhead door cannot be operated when the wicket door is still open. This prevents potential hazardous situations and damage to the overhead door and/or the wicket door.



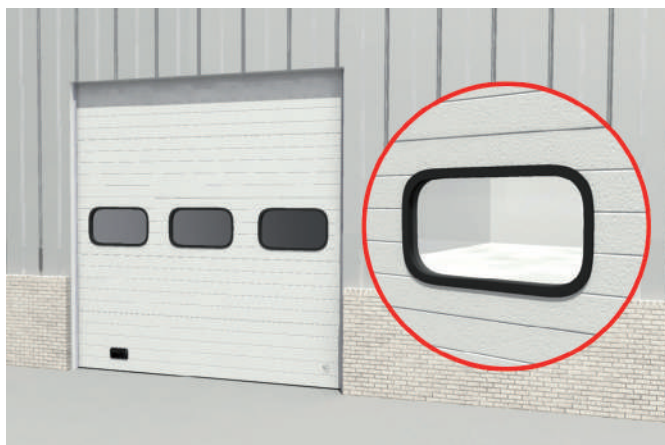
#### 4. Sectional overhead doors

##### Additional natural light and visibility

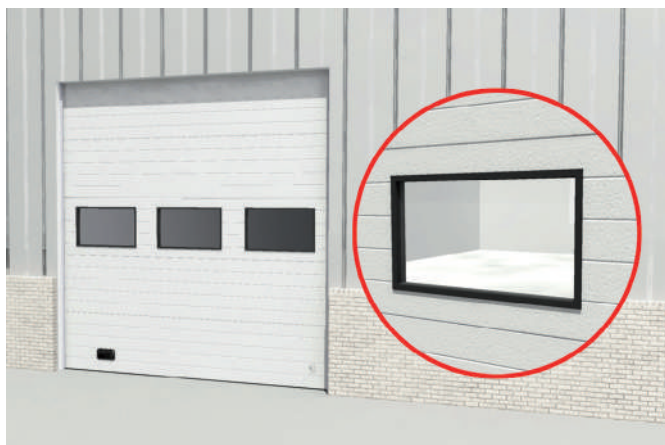
When additional internal light is required, or when visibility to the external environment is important, Loading Systems overhead doors can be provided with one or more windows.

##### Windows

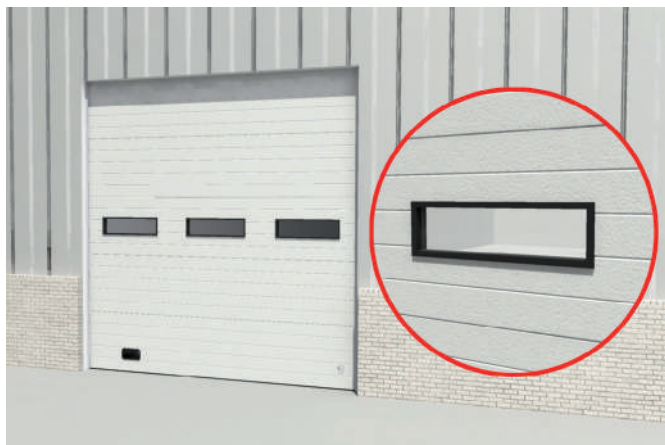
You can choose from a variety of double insulated windows.



Double insulated oval windows



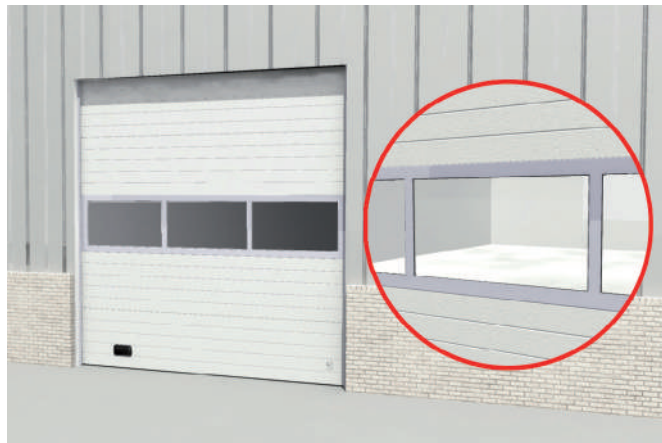
Double insulated rectangular windows



Double insulated peephole windows

##### Aluminium sections over the entire width

To increase natural lighting in the internal environment, aluminium glazed sections can be fitted over the entire width of the overhead door. All aluminium glazed sections are available in single or double insulated varieties.



Aluminium glazed section over the entire width

The aluminium sections can be manufactured with your choice of window, dependant on the desired heat insulation, light or appearance.

|  |   |
|--|---|
|  | <b>Single glazing</b><br><i>Material:</i><br>SAN UV, polycarbonate<br><br><i>Glass design (for SAN UV):</i><br>transparent, satin, opal           |
|  | <b>Double insulated glazing</b><br><i>Material:</i><br>SAN UV, polycarbonate<br><br><i>Glass design (for SAN UV):</i><br>transparent, satin, opal |
|  | <b>Heat insulating aluminium filling</b><br><i>Material:</i><br>aluminium, polystyrene<br><br><i>Glass design:</i><br>stucco, smooth              |
|  | <b>Wire mesh</b><br><i>Material:</i><br>aluminium<br><br><i>Glass design:</i><br>l/w  |

#### 4.4 Full vision doors

When optimal natural light is required, Loading Systems supplies a full vision panel overhead door. This overhead door is available in an almost endless number of variations and is designed and manufactured completely to your bespoke requirements. The adonised, aluminium sections of the full vision overhead door can be produced with a wide variety of panel options and colours.



##### Maximum natural light and cost savings





Loading Systems aluminium full vision overhead doors are constructed from high quality materials and are incredibly durable. Using aluminium sections with a transparent panel in the design enables the optimal use of natural light. This creates a very attractive, full vision overhead door which is particularly suited to showrooms. Due to the optimum amount of natural

light, additional secondary internal lighting becomes superfluous which can save you considerable energy costs.

It is worth noting that the lowest section of this type of overhead door can be prone to attracting dirt. With this in mind, Loading Systems recommends a bottom section without windows. This bottom section can be aesthetically matched to the style of the complete overhead door.



##### Technical specifications for full vision overhead doors

|  | Without finger protection   | With finger protection  |
|--|---|---|
| <b>Size range</b>  | Width up to 4000 mm<br>Height up to 3500 mm   | Width up to 4000 mm<br>Height up to 3500 mm   |
|  Resistance to wind load 1)         | Class 3   | Class 4   |
|  Resistance to water penetration 2) | Class 3   | Class 3   |
|  Air permeability 3)                | Class 3   | Class 4   |
|  Heat insulation 4)                 | 14 m <sup>2</sup> door surface area without wicket door<br>U = 3.83 W/m <sup>2</sup> K<br>14 m <sup>2</sup> door surface area with wicket door<br>U = 3.97 W/m <sup>2</sup> K | 14 m <sup>2</sup> door surface area without wicket door<br>U = 3.83 W/m <sup>2</sup> K<br>14 m <sup>2</sup> door surface area with wicket door<br>U = 3.97 W/m <sup>2</sup> K |

1) EN 12424; 2) EN 12425; 3) EN 12426;  
4) EN 13241, annex B EN 12428

*The aforementioned values are dependent on the overhead door's particular specifications. The rating of the door supplied to you may vary.*





#### Window options for the sections in full vision overhead doors

| Name                                    | Glazing                    | Description   |
|---|----------------------------|---|
| <b>Acrylic / SAN UV</b>                 | Single<br>Double insulated | Transparent   |
| <b>Hard glass (safety glass)</b>        | Single<br>Double insulated | Transparent   |
| <b>Polycarbonate (impact resistant)</b> | Single<br>Double insulated | Transparent   |
| <b>Perforated aluminium</b>             | Single                     | Aluminium colour  |
| <b>Closed in-fill panels</b>            | Insulated                  | Aluminium in-fill, in RAL-colour of choice  |
| <b>Specials</b>                         | Single<br>Double insulated | Opal 30% (30% translucence)<br>Opal 80% (80% translucence)<br>Pearl (transparent with air bubbles)<br>Smoked (grey transparent) |

#### DuraCoat scratch resistant windows

Loading Systems windows can be supplied with a DuraCoat coating. This special coating produces a durable surface resistant to scratches, abrasion and many chemicals.

#### Other characteristics:

1. Weighs about half that of standard glass.
2. Ensures better insulation than glass.
3. Offers excellent clarity.
4. Extremely weather and age resistant and maintains a stable colour for many years.

## Maximum natural light and cost savings



## 4.5 Locking systems

Loading Systems overhead doors, wicket doors and side doors can be locked in a variety of ways.

### Slide bolt and cylinder locks

Hand and chain operated overhead doors can be fitted with sliding bolts or cylinder locks.

### Interlocks

With the electrically operated overhead doors used in combination with a slide bolt or cylinder lock an interlock is required. The interlock ensures that the drive system can only be activated when the overhead door is not locked by the slide bolt or cylinder lock. This prevents unnecessary damage to the overhead door or the drive system.

### Burglary prevention anti-lift security

With the burglary prevention and anti-lift security device the overhead door can be secured against lifting. This is primarily of importance with smaller electrically operated overhead doors. By installing the anti-lift security device unauthorised visitors are unable to enter your premises through the overhead door.

The anti-lift security device is a mechanical lock that works without power. This means that even when the power is cut the door remains secure against unauthorised lifting. When the door is closed it is automatically locked by the anti-lift device.

### Electronic lock

With the Loading Systems' electronic lock the overhead door is automatically locked when closed. The overhead door is automatically unlocked as soon as it is operated. Damage to products and potentially hazardous situations can be prevented and your warehouse is secured at all times against unwanted intruders.

By integrating the electronic lock with the Advanced Control Centre it is also possible to remotely lock your overhead door.

### Panic lock

Loading Systems wicket and side doors can be equipped with a panic lock. A panic lock is locked by means of a key. The door can only be opened from the outside with the key. From the inside the door can be opened at all times by means of a handle, even if the door is locked from the outside.

### Panic bar

Loading Systems side doors can be provided with a panic bar. Pressing the panic bar directly unlocks the door.



## 4.6 Operating Method

Loading Systems doors can be operated manually or electrically by means of a door motor. The choice of operation will be influenced by factors such as the weight of the door and frequency of use. All our doors are equipped with torsion springs which are specifically manufactured to ensure the door is perfectly balanced. Thus, minimum effort is required from the motor or your personnel when opening or closing the door.

### Manual operation

Standard operation is by means of a pull cord, rod, or chain operation.

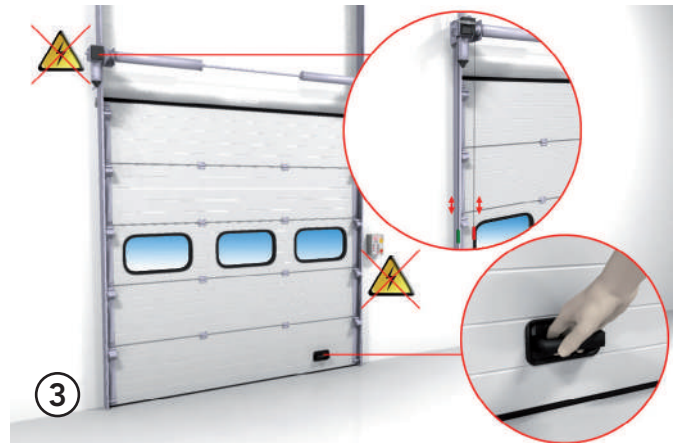
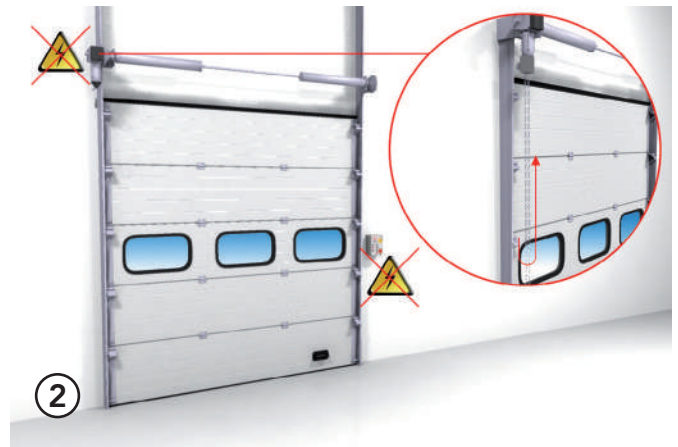
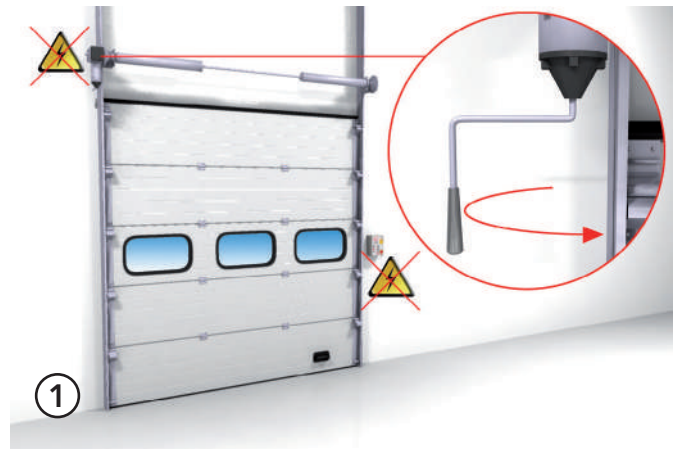
### Electrical operation

Loading Systems supplies a suitable motor for nearly all applications.

The standard motors supplied with Loading Systems electrical doors have an emergency control system which allows the opening and closing of the door in the event of a power failure. The emergency control comes in the form of:

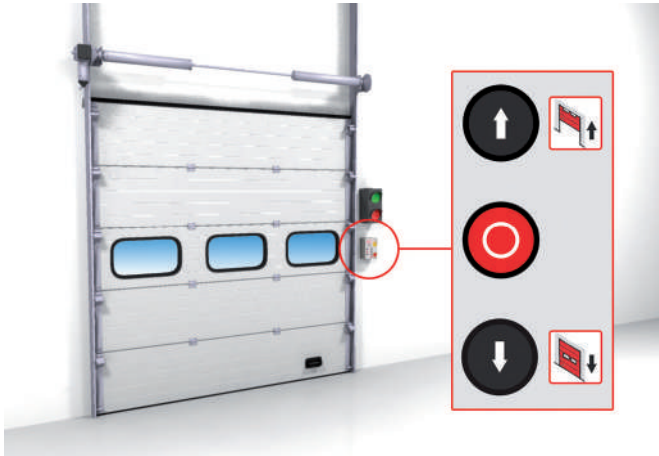
1. Emergency hand crank;
2. Hand chain;
3. De-clutching of the motor to enable manual operation.

All Loading Systems motors are provided with digital limit switches making them simpler, more accurate and quicker to adjust. Modifications can be programmed directly from the control box, saving installation time and costs. Additionally, the digital limit switches can be provided with a function that automatically corrects the overhead door if it doesn't stop at its lowest point, for example; when the wire door cable becomes slack. Readjusting a slack wire door cable can be a thing of the past.

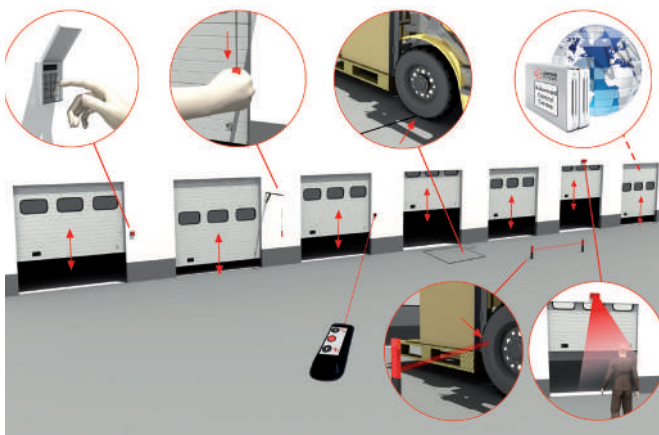


### Operation

Loading Systems overhead doors have a standard three button 'up-stop-down' control system. Depending on your preferred safety options, this can be operated either by deadman control or automatically.

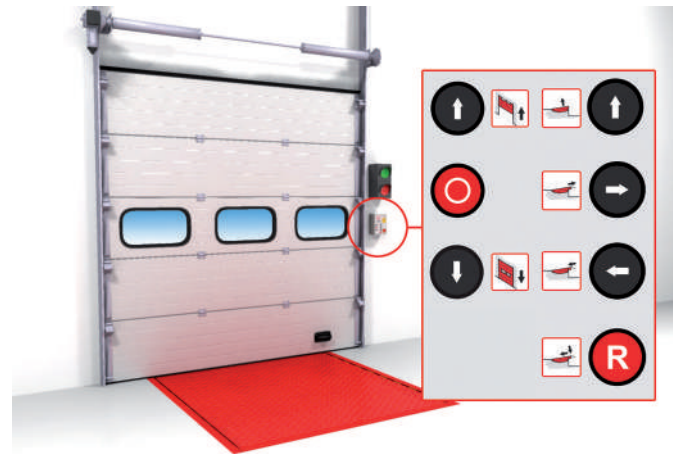


Due to the modular concept of Loading Systems controls these can easily be expanded with a number of additional control options. Possible expansion options are: remote control, automatic closing, infrared sensors, and detection loops or radars.



### 4.7 CombiControl

Loading Systems is a total solutions supplier and not only provides control systems for basic operation of individual products, but we also provide control systems for totally integrated operating systems. This means that Loading Systems delivers combined control boxes for dock levellers, inflatable dock shelters, dock shelters with electrically operated top curtains, industrial doors and accessories.



### Integrated solutions

From an aesthetic perspective, integrated solutions are more attractive than individual control boxes delivered by some suppliers. By combining the operation of your loading bay products into one single control station, only one power supply is required. You will not only save on installation costs but lifetime maintenance and repair costs can also be reduced.

### Sequential logic

When using sequential logic, the Loading Systems products and accessories combined with the CombiControl control boxes can be programmed to suit your exact operating sequence as a standard feature.

### Standard "Auto-Return" and possibility to include automatic sequential logic

The automatic sequential logic ensures that the CombiControl can be set so that upon activation of the "Auto-Return" button the industrial door, in conjunction with the door safety edge option, automatically closes as soon as the dock leveller returned to its home position.

### Main power switch

All control boxes include a main power switch with padlock safety in accordance with EN 418 as a standard.



### Advanced Control Centre

All controls have been prepared for the Advanced Control Centre. No error-sensitive and expensive control boxes are required to detect the product status when Loading Systems control boxes are used. All controls include LED indication to display the product status, and as an option can immediately report a failure.

### Easy to install

By designing the controls so that only a limited amount of space is required, our controls can easily be installed in even the most space restricted environments.

### Accessories

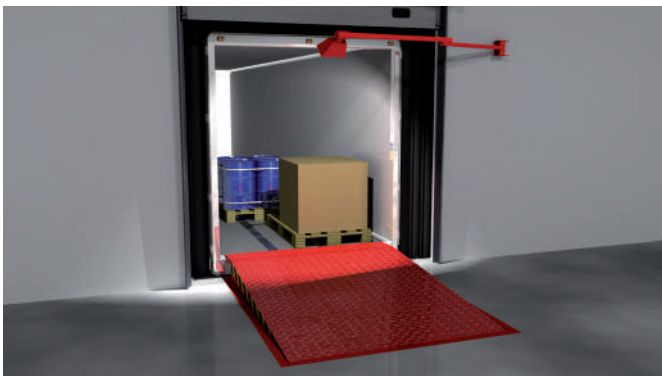
All control boxes can easily be adapted to accept most Loading Systems Accessories, and can easily and retrospectively be modified to be integrated in the sequential logic to improve safety on or around the loading dock to reduce damage and reduce energy consumption.

### Warning lights

It is possible to include traffic signal lights to work either independently or in conjunction with a warning light in the control station to improve safety on or around the loading bay. As soon as the loading and unloading system is activated, the external stop light switches from green to red (unsafe to depart), and as soon as the dock leveller lip is positioned on the vehicle bed, the warning light on the control box inside, switches from red to green. As soon as loading and unloading is completed, and the system returned to its home position, the external signal light switches from red to green and the warning light inside switches from green to red (unsafe to load and unload).

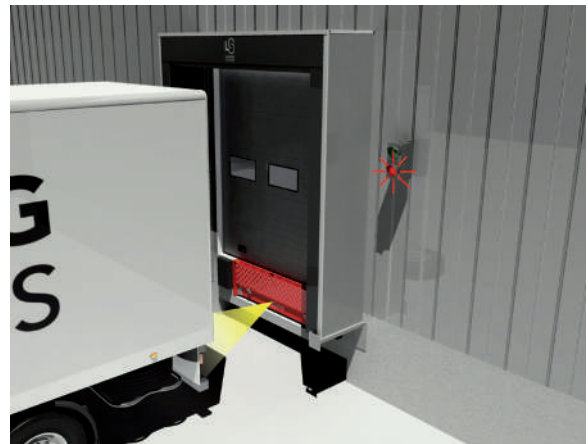
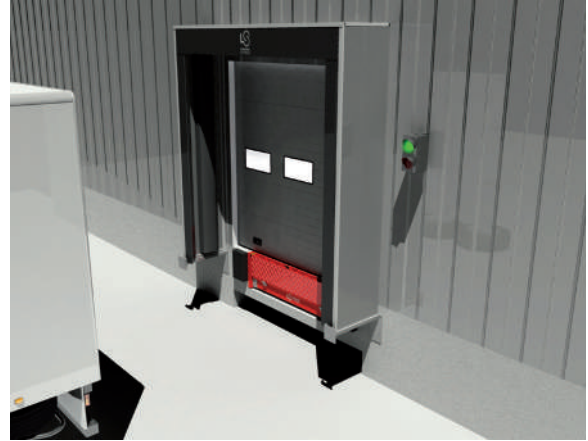
### Dock lights

Dock lights increase visibility around the loading and unloading bay. Dock lights can be programmed so that they illuminate the rear of the vehicle as soon as the dock leveller is activated.



### Docking Assistant

By means of "green and red" signals the Docking Assistant provides an indication of the distance between the rear of the vehicle and the loading and unloading bay. This system simplifies docking and reduces risk of vehicle damage.



### Alarm

The control box can be supplied with an acoustic alarm which is combined with a vehicle detection system. If the vehicle departs the loading and unloading bay prematurely, thus creating a dangerous situation, the acoustic warning signal will automatically be activated.





### Wheel chocks

The wheel chock electric sensor detects the presence of a vehicle at the loading and unloading bay similar to the vehicle detection sensor. After the vehicle is detected, the sequential logic can be operated by means of the products (door or leveller).



### Vehicle detection sensor

The sequential logic in the control box can be set according to your preferred choices. The sequential logic, combined with the vehicle detection sensor, can ensure that the industrial door opens only after a vehicle is docked. This creates a safer loading or unloading situation on and around the loading and unloading bay: a fork-lift driver can no longer drive backwards onto the platform unexpectedly. Furthermore, this also significantly reduces energy loss, as the door only opens after the vehicle is 'sealed' onto the loading bay.

### Roll off safeguard fence

The roll off safeguard fence is positioned in front of the dock door to ensure that no one can accidentally fall from the loading platform when the door is opened.



### Safe and CE-TUV certified

The control boxes comply with all relevant European standards and are CE-TUV certified. Quality and safety are in accordance with all relevant standards.

## 4.8 Safety

### Quality, safety and durability

To ensure the quality and safety of our industrial doors, our products are designed, manufactured and installed in compliance with European Commission guidelines. All Loading Systems overhead doors are CE labelled and fully compliant with all criteria for safety as established by European guidelines EN 13241-1.

### Spring break protection

When a door spring breaks (for example at the end of its operating life) the overhead door could suddenly close at a high speed. This can potentially cause hazardous situations, particularly with manually operated overhead doors. Thus, all the springs used in Loading Systems overhead doors are provided with standard, compulsory spring break protection. For non-manually operated doors the spring break protection can be fitted as an additional option.

### Slack cable protection

With electrically operated overhead doors the slack cable protection device ensures that the motor stops when the cables tension unexpectedly falls away, for example when the door is obstructed during lowering. Hazardous situations can thus be prevented. With electrically operated overhead doors it is compulsory for one slack cable protection device to be installed.

### Overview safety options

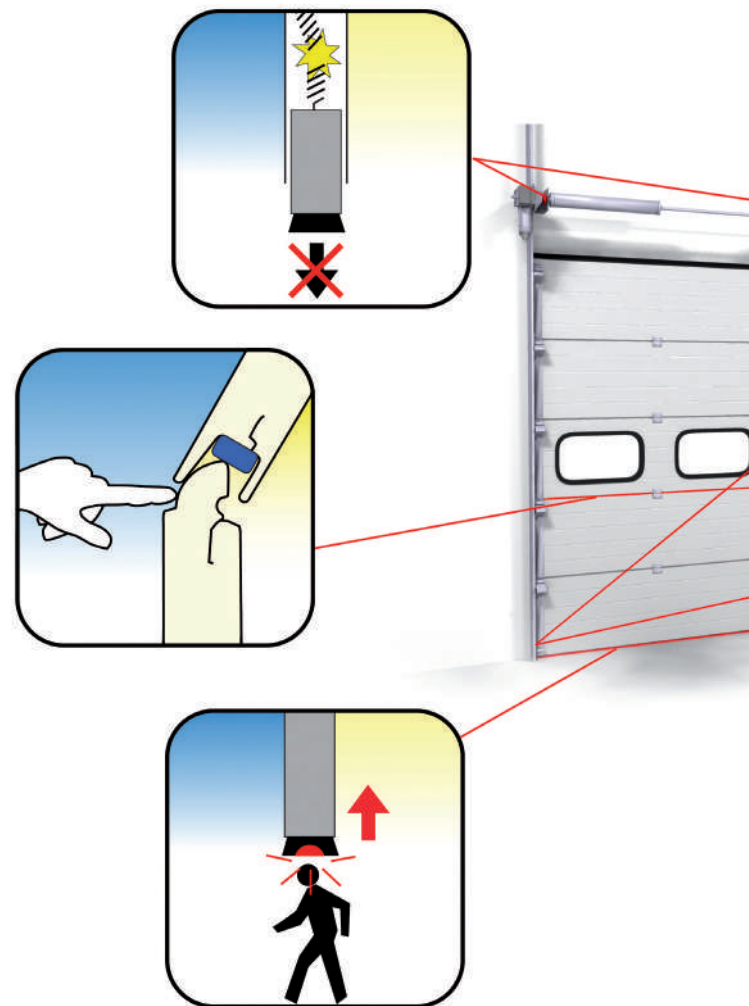
| Description               | Compulsory  |
|---------------------------|---|
| Spring break protection   | With manually operated doors (pull rope, pull chain or chain) and declutchable motors |
| Slack cable protection    | With electrical operation   |
| Cable break protection    | If the cables are less than 6x over-sized   |
| Obstacle detection safety | Not compulsory  |
| Finger protection         | Top joint section is under 2750 mm  |
| Anti-lift security        | Not compulsory  |

### Cable break protection

In the improbable event that one or both the overhead door's lifting cables break, an unwanted, hazardous situation can develop. In order to minimise the risk of cables breaking, Loading Systems uses cables which are rated to six times the load which is lifted. The chance of both cables breaking simultaneously on both sides of the door is almost zero. Although it is not compulsory, for optimum safety, we always advise the installation of additional cable break protection.

### Obstacle detection safety

The obstacle detection safety device guards the underside of the overhead door and ensures that it automatically stops and returns if something or someone is under the door. This can prevent unnecessary damage or injury. The obstacle detection system can be applied as an additional safety device for electrically operated overhead doors.



**Finger protection (Finger-Safe)**

With finger protection, fingers cannot come between the panels when the door is opening or closing. The finger protection is in accordance with CE-standards and legally required for overhead doors up to a height of 2750 mm (door panel deviates below 2750 mm).

**Burglary prevention, anti-lift safety device**

Due to Loading Systems burglary prevention and anti-lift security, the overhead door automatically locks when it is closed. Intruders are prevented from entering through the overhead door. The anti-lift safety device is a mechanical security device that works without a power supply. This means that the door is secure against unauthorised lifting even in the event of a power failure. When the door is closed, it is automatically locked by the anti-lift safety device.

**Torsion springs and lifting cables**

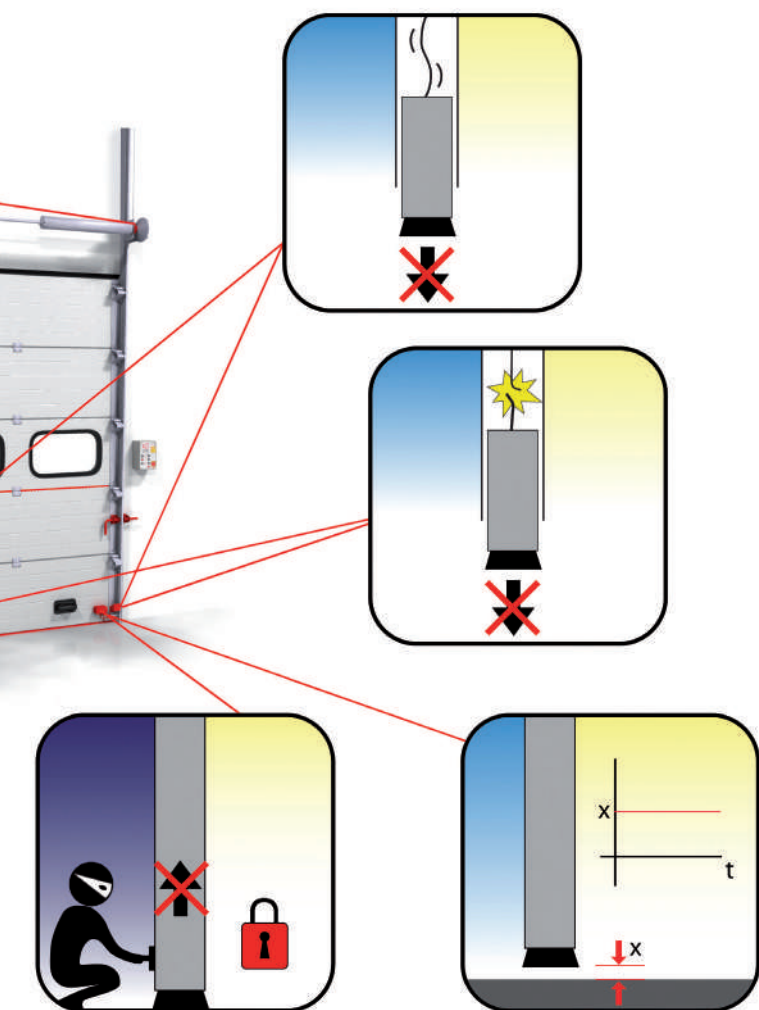
Loading Systems overhead doors are provided with steel torsion springs and wire rope lifting cables to raise, hold open and close the overhead door. The torsion springs are high quality robust steel which are shot peened and powder-coated prior to delivery. Special springs are available for high frequency use overhead doors. For additional safety, the lifting cables are rated to at least six times the weight of the door panels.

**Motor protection using a thermal relay**

The motor systems that are used with the electrically operated overhead doors have a standard thermal safety device. This prevents the motor from overheating and avoids damage to the door when, for example, the opening is blocked.

**Automatic ground levelling adjustment**

All Loading Systems motors supplied with a digital limit switch can also be supplied with an automatic ground levelling adjustment system. This device ensures that the overhead door will automatically adjust and stop if the door fails to stop at the lowest point due to a slack lifting cable. With this option installed, adjustment of the overhead door limits due to a slack cable will be a thing of the past.



## Loading Systems, a safe choice

# 5. Fire doors

Loading Systems fire doors offer you the possibility to create a fire resistant barrier between two areas. Our safe and reliable fire doors are supplied for all applications and meet the latest building and fire codes of practice and insurance requirements.



**Loading Systems fire doors meet all the relevant European Standards**



Depending on the type of fire barrier you require and your operational needs, Loading Systems will always select the best solution for you.

### Rules and regulations

The requirements for structural fire protection are defined in building regulations (building codes) and in fire and insurance requirements.

Based on these requirements, Loading Systems will select the best solution for you.

### Our solutions give consideration to the following criteria:

- The level of fire protection required; for example: 60, 90, 120 or 240 minutes?
- What standards apply?
- Should there be escape routes?
- Should the doors be power driven?
- Is explosion safety applicable?



### Loading Systems fire doors can be used in the following situations:

- Compartmentalization of industrial halls, exhibition halls and office buildings.
- In locations where flammable and environmentally hazardous substances are stored or processed.
- To ensure the safety of people in fire hazardous situations, for example in public buildings, lifts, cellars, care centres or shopping centres etc.
- In conditions with explosive hazards.
- Prevention of containment hazards.
- In chemical plants, paint shops, wood and paper processing, storage etc.

### **Durability and maintenance**

By only selecting the highest choice of materials and finishes, Loading Systems can guarantee optimal safety and low maintenance.

### **Quality and safety**

Loading Systems fire doors meet all the relevant European Standards for fire protection (NEN 6069 and NEN-EN 1634-1) and safety (CE labelling); a guarantee of quality and safety. This means that every Loading Systems fire door is provided with the appropriate level of standard safety features.

Loading Systems fire doors prevent dangerous situations that could cause physical injury as well as material damage.

### **Functionality and operational ease**

Every Loading Systems fire door is designed to form a perfect interface between your internal and external logistics with the maximum of operational ease.

### **Client specific solutions**

Every situation is unique so we have a broad choice of designs, finishes, operational and installation systems and other options, making it possible to create a solution based on your specific requirements. Maximal operational ease and safety are our top priorities. We even facilitate the building's architectural aspects.

## **5.1 691 fire rated overhead door**



The 691 fire rated overhead doors are suitable for internal and external use.

## **5.2 692 fire rated roller screen**



The 692 fire rated roller screens are ideal for situations with a limited available space for installation or where restrictions for maximum weight apply. They are suitable as fire doors and for large openings. The fire rated roller screens are not meant for daily use and are only suitable for internal applications.

# **For each situation an appropriate fire-resistant door**

### 5.3 693 fire rated roller shutter



The 693 fire rated roller shutters are ideal for large openings and for internal and external applications.

### 5.4 694 fire rated sliding door



The 694 fire rated sliding doors close automatically. They form an economically interesting alternative where larger passages require separation with a fire proof barrier. They are suitable for internal use only. Loading Systems fire sliding doors are also available as lift gates and can be provided with an escape door.

### 5.5 695 fire/escape door



The automatically closing 695 fire/escape door is used in fire resistant walls, enabling the passage of pedestrian traffic without effecting fire compartmentation. The 695 fire/escape door is suitable for internal and external use and available with single and double door wings.

#### Options

The extensive standard range of Loading Systems fire doors offers a multitude of options and accessories. We can accommodate a customer's specific needs and the requirements set by fire and insurance.

#### Options:

1. Choice of colour.
2. Obstacle detection device: for electrically operated doors (pneumatic or photocell).
3. Stainless steel varieties.
4. Special solutions for explosive storage.
5. Special solutions for areas requiring explosion safety measures, according to Atex standards.
6. Smoke/ temperature detectors, known as stand-alone systems.
7. Audio signals when doors open/close.
8. Optic signals when doors open/close.
9. Various control options for electrically operated doors such as: key switches, remote controls, radar and pull switches.



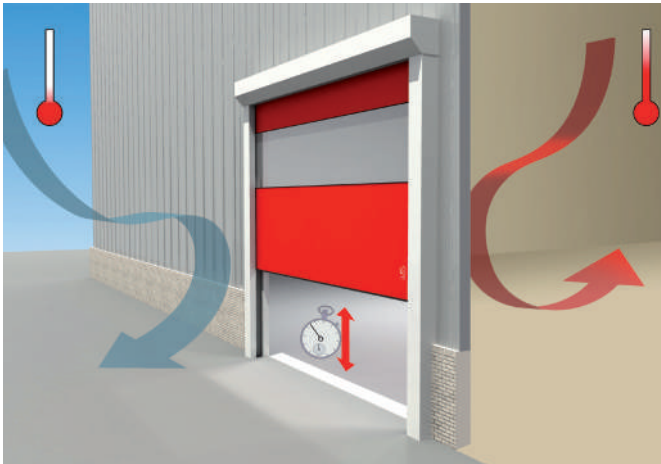
# 6. Speed doors

Industrial doors must meet high standard criteria. This is due to improvements in logistics and production processes, rising energy costs and increasing safety requirements. With Loading Systems speed doors you can optimise your logistic processes: furthermore the short opening times and exceptional draught exclusion characteristics also decrease your energy costs.



**Efficient flow of goods, optimal comfort and energy savings**

An automated speed door is the ideal solution if draughts need to be excluded. Loading Systems speed doors provide optimal draught excluding seals whilst at the same time speeding up your operational logistics.



#### Crash resistant and self-repairing

Loading Systems speed doors are impact resistant and fully self-repairing. In the event of a collision, the flexible door leaf detaches from the door guiding tracks, thereby practically excluding the chance of damage. The door leaf returns automatically into the tracks after impact, without the need for a technician's intervention. Maintenance and interruptions are thereby reduced to a minimum.



#### High opening speed

Loading Systems speed doors are characterised by high opening and closing speeds, which improves the (internal) traffic flow and comfort in the building. Loading Systems speed doors also offer energy saving benefits.

#### Variable speed drive: high reliability and long life

Loading Systems speed doors are driven by a variable speed drive, which checks acceleration and deceleration times. Our rolling speed doors have a soft start and breaking: eradicating high stresses on the door mechanism, therefore extending the reliability and life span of door.

#### Standard vision panel for extra safety and natural light

The modular panels in the Loading Systems speed doors enable adjustments to be made and worn or damaged panels to be easily replaced. The standard Loading Systems rolling speed doors are provided with a transparent vision panel across the entire width. This increases safety and levels of natural light. It is also possible to supply the speed door with two or three transparent vision panels or to choose for a complete full vision model.

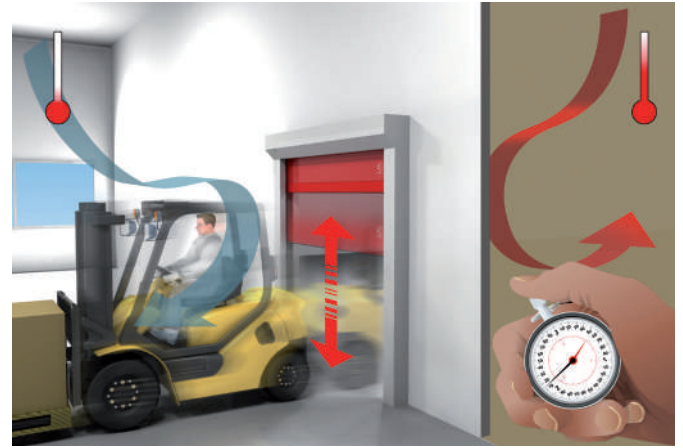
#### Colours and full colour printing

The door leaf, protective covers and profiles of Loading Systems speed doors can be offered in a variety of standard colours. It is also possible to print your own choice of design in full colour onto the door leaf. This provides a unique opportunity to integrate your own corporate identity with the building, to promote your own brand or to support a specific advertising campaign.

#### Compliant with European Safety Standards

Loading Systems speed doors are fully compliant with all the relevant European Safety Standards (automatic doors EN 13241-1) and carry the CE mark. This means that a Loading Systems speed door is guaranteed to work safely during installation and maintenance and during daily usage.

### 6.1 640 Rolling speed door (interior doors)



The Loading Systems 640 is a rolling speed door designed for intensive use. The door is ideally suited for situations where the frequent through traffic requires a fast moving door and draught free seal. The flexible door leaf guarantees a draught free seal under all circumstances, this also brings the additional advantage of reducing utilities energy.



**The ideal  
solution for  
indoor and  
outdoor  
situations**



## 6.2 650 Folding speed door (external doors)



The Loading Systems 650 is a folding speed door designed for medium to large openings where there is a substantial wind load. The door is also used as a solution between areas subjected to large pressure differences. The 650 folding speed doors are ideally suited as flexible external doors.

### Combination speed door (external doors) and sectional overhead door

Combining Loading Systems speed doors with our sectional overhead doors offers you additional advantages. During the day you benefit from high opening and closing speeds, energy savings, optimal flow of goods and a decrease in draughts. At night, the sectional door provides additional security. This combination also results in high levels of sound and heat insulation.

### Special models

As well as the standard models, Loading Systems speed doors are also available for specific applications.

### Temperature controlled environments

Loading Systems can also provide speed doors specifically for temperature controlled environments which have high energy consumption. The Loading Systems speed doors reduce temperature loss which enables significant savings in your operational costs.

### Food & drinks industry

Loading Systems speed doors are specifically designed for application in the Food & Drinks Industry and satisfy the standards required to comply with food hygiene and safety.

### Large openings

For extremely large openings, Loading Systems offers reinforced speed doors.

### Operation

Loading Systems speed doors can be operated in various ways.

#### Push button or stroke push button

Push buttons are mainly used for pedestrian traffic.

#### Pull switches

Pull switches are mainly used for forklift traffic.

The speed door can easily be operated from within the forklift.

### Radar

Loading Systems speed doors are automatically operated when the radar detects movement within the adjustable radar field.

### Induction loop

An induction loop is ideally suited for use with forklift traffic. The radar's magnetic field detects a metal object and automatically operates the Loading Systems speed door.

### Remote control

Through means of a sender and receiver and by using one or more channels, the Loading Systems speed door can be opened or closed from a distance.

### Safety options

Besides the complete package of standard safety provisions, pursuant to EN 13241-1, the Loading Systems speed door can be further expanded to include the following safety features:

#### Photocell

The use of a photocell enables you to monitor the threshold of the Loading Systems speed door. If the photocell beam is interrupted the speed door will not close, preventing damage to individuals or goods.

#### Safety lighting

For example: flashing lights, traffic lights and turn signals.

# 7. Industrial air curtains

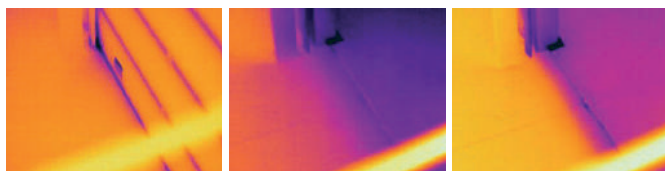
Loading Systems industrial air curtains provide the ideal barrier between two different temperature areas by means of kinetic energy in the moving air.



## Energy savings of up to 40%

They work on simple principle; Loading Systems air curtains are provided with fans, and if required in combination with a heater. The fans generate an intense air stream which is blown across an open door. Loading Systems industrial air curtains offer a drastic reduction in the volume of air being moved compared to conventional air curtains, enabling energy savings of up to 40%.

The Loading Systems air curtains also decrease energy costs in existing door systems by 15-20%.



Closed door

Door opened without  
air curtains

Door opened with  
air curtains

### Extra energy savings: no heaters required

Loading Systems air curtains shields the door opening 100%. It is the only system that reaches completely to the ground. No heaters are required; the air is drawn in from under the ceiling which is 3-4°C warmer and therefore offers more comfort. This in turn generates extra energy savings.

As well as the considerable energy savings that the air curtains provide, it is also possible to use the air curtains in situations where odour or dust separation is required.

### Meets HACCP requirements

The Loading Systems air curtain meets HACCP requirements. Loading Systems industrial air curtains also offers protection from insect ingress or egress through the curtain, even at ground level which is of crucial importance in food environments.

The industrial air curtains are available in variety of designs which means an optimal solution can be provided for every client's specific situation.

### Advantages of Loading Systems air curtains:

- 40% less energy use in comparison to traditional air curtains.
- The only air curtain worldwide that seals the opening completely.
- The only air curtain worldwide that can be applied at a height of 6 meters and be supplied in every width.
- Dual adjustability: air velocity and air direction.
- Less air volume needed, resulting in low noise levels.
- Insects can't pass through the air curtain due to the concentrated air stream.
- Due to its high efficiency, investment in the air curtain can be recovered on average within 2 years.
- Noise levels are the lowest on the market.

## Air curtains for industrial application

### 7.1 670 industrial air curtain for high and wide doors

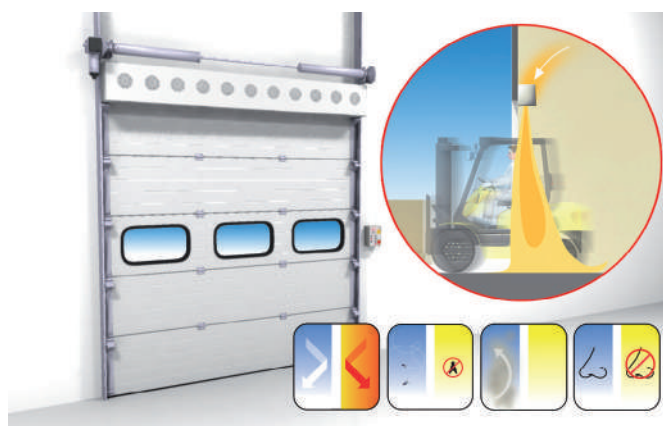
Specially designed for installations with high and wide doors that which are subjected to strong wind loads.

### 7.2 672 industrial air curtain with high levels of internal and external air pressure

The 672 industrial air curtain is suitable for industrial buildings with high levels of internal or external air pressure and also for odour and dust separation.

### 7.3 674 industrial air curtain for internal doors

Suitable for internal doors or smaller doors that are subject to lower wind loads.



## Air curtains for freezers and cold storage

### 7.4 676 freezer/cold storage air curtain

Prevents the exchange of air in open freezers and cold storage; resulting in considerable energy savings in situations where doors are frequently opened.

### 7.5 678 combination of special adsorption dryer and air curtain

Optimal climate control in freezers and cold storage; the system dehumidifies the freezer and prevents moisture passing through the door opening. A second air stream at the door ensures that the temperature difference between the freezer/cold storage and the front area is reduced. Also prevents moisture from developing and ice forming. It is possible to achieve a saving of more than 30% on your energy bill.

### Specific advantages of 678 combination, adsorption dryer and air curtain:

- Moisture control in the storage area.
- Prevents ice from forming.
- Prevents development of water mist.



# 8. Strip curtains

Loading Systems 680 transparent strip curtains provide a flexible draft excluding curtain for internal or external doors. They are also used as a solution for preventing dust or noise pollution in workshops and around machinery. PVC strip curtains form an ideal flexible passage. Flow of warm and cold air is restricted. For a small investment it is possible to achieve fast and safe transport benefits within a building.



**Increase safety, prevent damage and save energy and lighting costs**

## Effective insulation

With Loading Systems strip curtains effective insulation is easily achieved. Traffic can easily pass through the opening and the strip curtain will return quickly to its original shape and form and closes off the opening. The transparent curtain offers other important advantages:

- Safety (due to transparency)
- Noise reduction (possible up to 25dB)
- Protection against dust, draught and insects

The transparent strip curtain increases natural light thus reduces lighting costs. The added UV stabilizer prevents discolouration caused by sunlight. This provides good visibility over the long-term, which increases safety and prevents damage to your products. The strips are provided with rounded edges that provides safe through passage.

## Pivot suspension system

Strip curtains are fitted on a pivot suspension system which is available in fixed or sliding versions. This increases the product life span and improves working comfort for your employees. The fully assembled suspension system and swing brackets ensure that the strips can be installed quickly and easily. The strips can also be easily removed and replaced when required.

## Dimensions, material strengths and overlap

Strip curtains are available in a variety of sizes and material strengths and with various overlap options. A small overlap ensures the smoothest passage, whereas a larger overlap ensures better insulation. The choice of material and overlap is crucial to the effectiveness of the strip curtain:



## Bespoke solutions

In order to provide our clients with bespoke solutions we offer a wide variety of designs, finishes, installation options and alternatives to enhance usability or safety. For applications in freezers or cold storage, Loading Systems delivers a special cold resistant version which has a durable resistance to low temperatures (up to  $-20^{\circ}\text{C}$ ).

PVC strip curtains prevent draughts and improve the working environment significantly. You will recover the investment in your strip curtains within a very short time. If you require more information on how to calculate your return on investment for this product Loading Systems will happily provide you with calculations on the cost effectiveness.

| Dimensions, material strengths and overlap |                   |         |      | Suited for installation height up to: |          |
|--|-------------------|---------|------|---------------------------------------|----------|
| Width                                      | Material strength | Overlap |      | Internal                              | External |
| 200 mm                                     | 2 mm              | 80 mm   | 80%  | 1500 mm                               | -        |
| 300 mm                                     | 3 mm              | 90 mm   | 60%  | 2300 mm                               | 2000 mm  |
| 300 mm                                     | 3 mm              | 120 mm  | 80%  | 3000 mm                               | 2300 mm  |
| 300 mm                                     | 3 mm              | 150 mm  | 100% | 3500 mm                               | 3000 mm  |
| 400 mm                                     | 4 mm              | 120 mm  | 60%  | 4500 mm                               | 3200 mm  |
| 400 mm                                     | 4 mm              | 160 mm  | 80%  | 5000 mm                               | 4000 mm  |
| 400 mm                                     | 4 mm              | 200 mm  | 100% | 6000 mm                               | 5000 mm  |

# 9. Renovation & replacement

After years of continued use, the economic life span of your industrial door or dock equipment will eventually come to an end. When this happens, Loading Systems should be your choice of partner when considering what to do next. We can deliver most door and loading bay equipment as standard solutions.



**Practical and customer-focussed solutions for your existing platform**



### 9.1 Replacement door panels

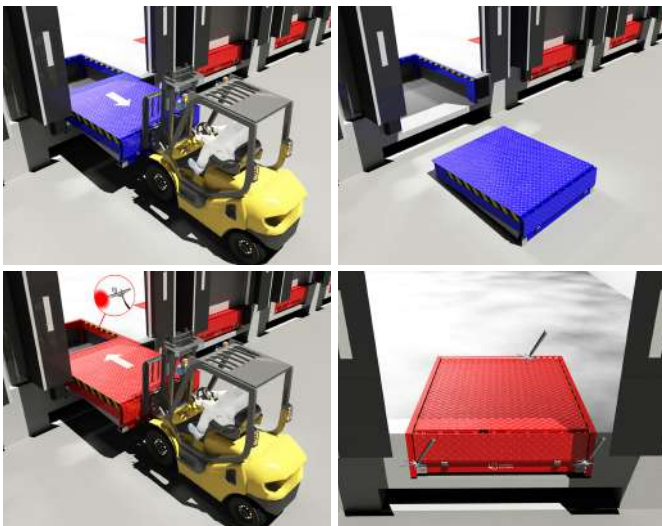
We can supply replacement panels for almost all makes and manufacturers of doors. Our experienced technicians can easily replace single or multiple panels. If more is required, then the entire door panel can be replaced. We can also replace door panels for doors installed with a wicket door. In most cases the existing track system can be used.



Does only the window need replacing or do you require another type of lock? Regardless of the model of door or panel; we can take care of it.

### 9.2 Dock leveller - quick replacement

Loading Systems manufactures customized dock levelers for the replacement market which are designed to speed up the replacement process so that your loading and unloading bay is up and running again within hours.



### 9.3 Dock shelter curtains replacement

Dock shelter curtains are subjected to extreme wear and tear and are often damaged by protruding vehicle parts.

Loading Systems ensures the swift replacement of your dock shelter curtains. Often, we can avoid the need to replace the supporting shelter frame so that only the curtains need to be replaced.

### 9.4 New loading and unloading station for an existing building

Loading Systems offers you a practical and customer-oriented solution to quickly transform the look and feel of your existing building with new replacement loading and unloading bay equipment.

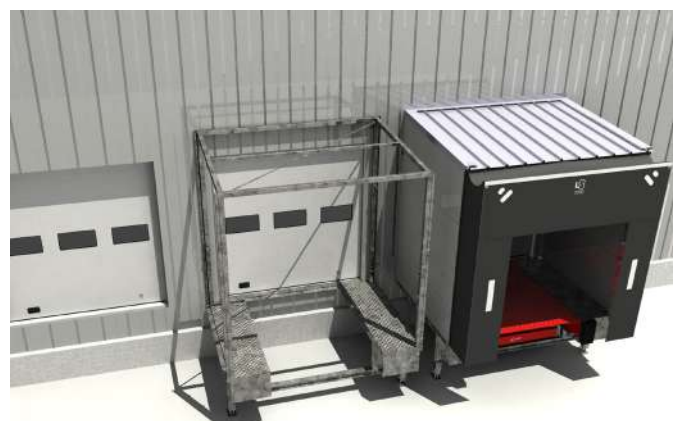
### 9.5 From design to completion

Since we have the expertise to offer all aspects of project management from design to completion, Loading Systems is able to offer you a total package. Design and engineering drawings are made in collaboration with your own needs. Our own production units ensure customized manufactured solutions. Loading Systems will manage and coordinate the total project for your organisation, even including the civil and building works.

Loading Systems can even create additional short-term, temporary or permanent loading and unloading space.

### 9.6 Flexible solutions

We offer a comprehensive range of standard or bespoke dock houses and modular steel platforms which are extremely adaptable to your needs. These can either be permanent or manufactured so that they can be relocated at an alternative location in the event of a relocation or re-organisation.



# 10. Service

Besides providing products and systems, you can also contact Loading Systems for an extensive range of service programme options throughout Europe. Our service concept focuses on a full service programme 24 hours per day, 7 days per week.



Our expertise and experience in this field means we are able to repair, replace and maintain dock equipment and industrial doors manufactured not only by Loading Systems but also by all other leading manufacturers. When you call on Loading Systems services you can be assured that we will do everything possible to bring your equipment back on line so that you can continue using your loading bay equipment with minimal disruptions to your operations:

**We take care.**

### 10.1 Efficiency, comfortable working conditions and safety

We manufacture products developed by our own Research & Development department. To ensure you always receive the best products we only use the highest quality materials in conjunction with the most technologically advanced manufacturing processes. We never lose track of the actual application of the products and we ensure your logistics environment achieves optimal accessibility and practicality. Efficiency, effectiveness, comfortable working conditions and safety are our priorities.

### 10.2 One partner for all your needs

When it comes to arranging the layout of the loading and unloading bay area, Loading Systems has a proven track record of being a leading and reliable consultancy partner. Once you have chosen your solution, you can rely on us to deliver and install the products. We fully understand the importance of delivering the programme and failure to achieve the completion date is never an option. After completion, we provide a guarantee and all the relevant supporting documentation for the end user. We can also advise you on the recommended maintenance and service schedules specifically tailored to your usage rates and operational require-



**One reliable partner  
for all your products**

ments. We take care to ensure that after completion of the installation stage you continue to achieve the optimal usage of your investment.



### 10.3 Service programme

A good maintenance regime guarantees and protects the lifetime of your equipment and products, and also minimises the impact of downtime. You can further minimise disruption to your operations by entering into a service contract. Loading Systems offers you an extensive service programme tailor-made to your own situation. All you need to do is determine which service contract best fits your operational needs. After this you can rely on us to take care of all your maintenance requirements.

Through prior consultation, you can even determine when our service engineers attend your premises. If you need our attendance at weekends or throughout the evening, no problem, we can tailor a solution to suit your needs allowing you to fully focus on your operational management without unnecessary interruptions.

### 10.4 Safety and regulatory requirements

In most countries, there is a number of health and safety related statutory and legislative obligations which you have a responsibility to adhere, and which are very specific to loading and unloading bay equipment. All Loading Systems products are delivered in accordance with the relevant EN standards and Machinery Directive Guidelines, and have a CE marking.

Most legislation requires that only an expert with thorough specialised knowledge is able to inspect, service and maintain certain types of loading bay equipment. In the event of equipment damage or operator accidents, insurance companies often require evidence that the equipment has been subjected to a good maintenance regime by a competent person as a prerequisite condition to settling any claim. With Loading Systems servicing and maintaining your equipment you are well-prepared. In the event of an insurance inspection,



If you choose a service contract including the Advanced Control Centre option, your loading bay worries are guaranteed to be a thing of the past. Besides benefiting from an extended guarantee period we ensure a quick solution for any loading bay equipment failures, carried out free of charge. Please refer to the options described in our Service brochure.

tion, the maintenance history can be quickly proven. Our extensive range of service and maintenance contracts, do not only meet all legal and regulatory requirements, but they also meet many of the requirements set by insurance companies.

# 50 years of experience as specialist in loading and unloading

### 10.5 Energy-saving and environment

Loading Systems accepts its responsibility to create a better environment. This includes our manufacturing processes, which involves products and installations designed and manufactured using state-of-the-art technologies. As such we prevent energy loss resulting from 'leaking' heat or cooling. We offer a wide product programme which contributes to energy-saving measures. We manage our fleet of vehicles using the latest planning tools and satellite navigation systems to reduce our carbon footprint.

### 10.6 Renovation and replacement

Everything has a lifetime and loading bay equipment is no different. If after many years of use, the economic lifetime of your industrial door or dock equipment reaches an end, we would be pleased to assist you in finding the best and most cost effective solution. We are confident that we have standard products and services readily available for you, for all manufacturers' products and all types of installations. However, if a standard solution is not adequate for your loading and unloading situation, Loading Systems will find a solution specifically tailored to your logistic environment. In nearly all situations, an assessment indicates that no significant modifications are required. As such you profit from a suitable solution and avoid unnecessary additional costs.

We can also ensure constructional solutions for you. Even if you need an additional dock leveller or industrial door for example, we can provide a solution to suit your needs.

### 10.7 Lease Contracts

If you need to spread the costs of your capital investments over several years, then Loading Systems also offers attractive lease contracts for new equipment.

Continuity and accessibility are the key priorities in our Service Concept. Our aim is to have our products and services support your operational management as best as possible.

**We take care.**

**From start  
to finish,  
guaranteed  
no worries**





# Industrial doors



## Disclaimer

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