



DOORS SOLUTIONS



OUR SERVICES WE OFFER SOLUTIONS

Our activity includes the complete construction from design – if necessary, through locksmith and masonry work – to the commissioning of the gate technology and shading technology system.

We work exclusively with high quality products, therefore we constantly check and certify the products and services of our suppliers, subcontractors and other partners, and we are at the disposal of customers with experienced professionals during the construction.

We do demanding, fast, impeccable work, at competitive prices, but what really sets us apart from other players in the market is that we are committed to meeting even impossible expectations, as well.

What the competition has already given up is not an obstacle for us either, as with our well-trained specialists and the 3 decades of experience behind us, we are able to provide our customers with a solution that satisfies all their needs.

Nowadays, we can serve the customers' needs with a number of self-developed and manufactured products, the advantage of which is that the raw materials and parts stored in our warehouse allow us not to have wait for foreign imports of repair materials in the event of a breakdown or damage, and to be able to react to repair needs almost immediately.

The cornerstone of our business policy is that we do not leave our customers alone after installation either, and, if required, our service department performs the maintenance and repair of the structures installed by us or even other companies within a short period of time.



DOORS AND SHADING SOLUTIONS

We are committed to continuous improvement and dedicated to enhance product and service quality. We strive to win and keep customer confidence and further strengthen Fer-Er Kft's reputation.

- SECTIONAL DOORS
- ROLLER SHUTTERS
- PVC HIGH-SPEED DOORS
- SPIRAL DOORS
- FIRE DOORS
- FOLDING, HANGAR, AND SLIDING DOORS
- INDUSTRIAL SWING DOORS, SLIDING DOORS
- BLAST RESISTANT DOOR
- TRAFFIC LIMITERS, TRAFFIC CONTROLLERS
- GATE BARRIERS, TRAFFIC LIGHTS
- PARKING SYSTEMS
- BOLLARDS
- LOADING EQUIPMENT AND ACCESSORIES
- DOCK LEVELLERS, SCISSOR LIFTS
- RETRACTABLE AND INFLATABLE DOCK SEALS
- TRUCK RESTRAINT SYSTEMS
- AUTOMATIC GLASS DOORS, ALSO FOR RADIATION PROTECTION
- FIRE AND RADIATION PROTECTION GATES, DOORS, OTHER DOORS AND WINDOWS



SECTIONAL DOORS SOLUTIONS

As a garage door installer, we see many different types of materials used for garage doors. Nowadays, heat insulation is a basic feature of garage doors, and therefore **high-quality sectional door panels are made of PU foam filled between two metal sheets** to prevent physical contact between the outer and the inner sheets. Various techniques are used to add decoration to sheet surfaces. Door width and height may be up to 10 and 10 meters, respectively. The thickness of the panels can be 40-60-80 mm thick. Rails and racks are selected and routed to suit local conditions.



Every product comes from our own production or directly from partners, making us flexible in price as well as delivery time.



We have designed and installed a number of doors with sizes falling outside the „conventional” range. Decades of experience help us to offer different solutions to close extremely large openings, including sides of halls or aircraft hangars.

ROLLER SHUTTERS

A trendy and space-saving solution to close door openings. Our company produces roller shutters for residential and industry uses. Several solutions are available for industrial uses as well. In this segment, reliable and trouble-free operation is a must, and door speed and scheduled maintenance are also key features. Doors are available with almost unlimited widths and height up to 10-12-20 meters, making these doors suitable for hall entrances or partitions inside halls.

Industrial rolling shutters are usually used in places where, for some structural or other reason, it is not possible to install a better thermal insulation (the installation of a rolling shutter is the most practical).

The industrial roller shutters we produce are made of the Greek “Biorol” company’s high-quality materials. Usually industrial roller shutters are different from residential shutters in their higher sizes, are made of a stronger material with a higher load-bearing capacity and higher number of designed operating cycles. To meet these criteria, industrial doors are made of completely different materials.

We produce roller shutters from uninsulated, single slats, insulated steel or aluminium double-walled profiles with PU foam fillings in between, perforated slats, and easy-to-integrate window slats.

In case of external mounting, it is possible to install a housing to protect the rolled-up curtain roll assembly.

PVC SPEED DOORS SOLUTIONS

The increased energy prices make it particularly important to protect heated rooms in winter and cooled rooms in summer. Speed doors are an excellent solution for reducing energy costs. They can minimise the opening time of openings and prevent harmful ventilation, which is also wasteful and costly.

We manufacture in our own factory and can serve the urgent door needs of companies based on our own stock. We offer two different types of vertical speed doors, which are common on the Hungarian market and are similar in construction. PVC curtain doors are used where it is important to keep the opening open for as little time as possible. Cold loading facilities, food processing plants, cold stores and greenhouses can be a useful addition.

STIFFERED PVC SPEED DOOR

A **stiffered PVC door** is unbeatable in a price/ value comparison. Thanks to the technical solutions used, we can keep the price low compared to other types. Its speed is 1.5 m/second upwards and 0.5 m/second downwards, The stiffening pipes make it tolerate drafts or negative pressure well, but the door is not able to provide a perfect air seal.

In terms of protection, it comes with 2 pairs of photocells as standard, which can even be replaced by a light grid.

In the case of our own manufactured products, the raw materials and parts are in our own warehouse, so in case of a possible failure or damage, we do not have to wait for the import of the materials needed for the repair from abroad, which allows us to respond quickly to repair needs.



SELF REPAIR HIGH SPEED DOOR

Our best-selling speed door product is the „self-repairing” PVC speed door. Its speed can reach up to 2.5 m/sec opening and 1 m/sec closing.

This type has two big advantages over the other, firstly, it closes „almost” perfectly due to its guide, and secondly, if the curtain is hit, it will be fixed back in place after a manual opening, thus reducing the maintenance requirements. The door can be connected to a relieved air supply (RWA) system.



Due to the high speed, we recommend automatic operation, for which we offer vehicle detection loops, radars and other solutions.

Safety requirements are met by the installation of a light barrier up to a height of 2.5 metres and a self-locking drive in the event of axle breakage.

SPIRAL HIGH SPEED DOORS



We work only with superior quality products.

Spiral doors are highly innovative products.

Nowadays, for the purpose of security and energy saving, mostly a combination of sectional door or roller shutter and PVC high-speed door are used.

Spiral doors integrate all these features (speed, high number of operating cycles, good heat insulation, security), hence they are believed the door of the future.

The spiral doors we manufacture are tested for one million operating cycles, and therefore are of more beneficial for the investor and operator that the combination of two doors. Reduced possibility of errors, lower energy consumption.

A counterweight and spring-operated mechanism allow manual opening during power failure, and therefore no need to stop work.

Door areas can be monitored with directionsensitive radars to ensure optimize the duration of operating cycle.

Spiral doors can operate in an ambient temperature as low as -30 °C and the temperature difference of the two partitioned sectors may reach up to 80°C.

Thanks to these properties, spiral doors are ideal to shut refrigerated spaces. (heated edges, guide rails, housing).

A high-speed door consisting of heat-insulated aluminium elements that run and roll-up very quickly and safely due to contact-free design.

In addition to quick opening and closing, these doors have very good heat-insulation, waterproofing, and mechanical impact characteristics. We are very proud to be the only manufacturer spiral doors in the country.

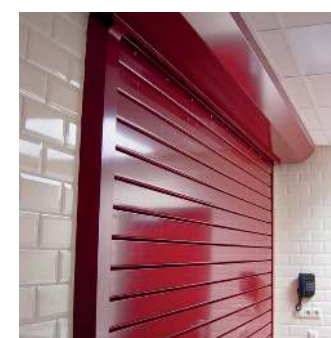
FIRE SHUTTERS

Fire shutters have been selected, throughout, to practical purposes. This is now changing, as aesthetic considerations can now also prevail. Thanks to the clean design and discreet internal motors, MetaconNext fire shutters installed indoor (e.g. restaurants, hotels, etc.) comply with all rules of fire prevention and enhance the aesthetics of your premises.

They are perfect fit for hotels, restaurants, production halls, parking lots, and many other community spaces where fire resistance must be resolved. If necessary, it can be concealed above suspended ceiling! **The key to success is supreme quality combined with excellent value for money. So, if you need fire retardant roller shutter, choose MetaconNext range now available in a greater choice.**



- Uniquely, even the basic MetaconNext models feature safety elements that enables automatic operation without connection fire retardant roller shutters to the fire alarm system.
- The MetaconNext range is highly beneficial for operators, because in accordance with the Hungarian Fire Safety Code (OTSZ) damaged fire doors must be replaced and must not be welded, drilled, or tampered with in any way.
- However, parts and components of MetaconNext doors can be replaced without such repair and intervention.



CALSSIFICATION	FIRE RESISTANCE	MAX. WIDTH	MAX. HEIGHT	MAX. OPENING
EI (1)	30 perc	9.000 mm	9.000 mm	± 50 m ²
EI (1)	45 perc	9.000 mm	9.000 mm	± 50 m ²
EI (2)	30 perc	9.000 mm	9.000 mm	± 50 m ²
EI (2)	60 perc	9.000 mm	9.000 mm	± 50 m ²
EW	60 perc	9.000 mm	9.000 mm	± 70 m ²
EW	90 perc	9.000 mm	9.000 mm	± 21 m ² – ± 34 m ²
EW	120 perc	9.000 mm	9.000 mm	± 14 m ² – ± 25 m ²
EW*	120** perc	9.000 mm	9.000 mm	± 70 m ²
E*	240 perc	9.000 mm	9.000 mm	± 70 m ²

FIRE SECTIONAL DOORS

Fire-resistant sectional doors offer an excellent solution for fire-proof sealing or partitioning of spaces in a wide variety of installation situations. Thanks in part to its high fire resistance of up to 90 minutes (in accordance with EI (1), EI (2) and EW requirements), this door is extremely suitable for situations where high fire resistance is required, as well as for situations where environmentally hazardous materials are stored. As the panels of the OHD-C type sectional door comply with fire protection class B-s1, d0, this door is ideal for protecting escape routes. The OHD-P type fire-resistant sectional door offers a particularly aesthetic and functional solution, as this door can be equipped with a pedestrian access door.



In case of fire, it guarantees perfect resistance for 60 or 90 or even 120 minutes on both sides of the door, depending on the model. The control is linked to the fire alarm or smoke detector; when the alarm signal is received, the motor lowers the door. In the event of a voltage reduction (power failure) associated with a fire, a qualified UPS connected to the control panel closes the door. During the normal operation of the doors before an accident, a curtain of light barriers ensures the passage of people and vehicles. Smaller sizes are direct shaft driven, larger sizes are hydraulically operated. Smoke control is available as an option.

CALSSIFICATION	FIRE RESISTANCE	MAX. WIDTH	MAX. HEIGHT	MAX. OPENING
EI (1)	120 perc	5.100 mm	6.900 mm	23,5 m²
EI (2)	120 perc	5.100 mm	6.900 mm	23,5 m²
EW	120 perc	5.100 mm	6.900 mm	23,5 m²

FIRE SLIDING DOOR

The **sliding fire doors** we sell are manufactured by the renowned Asturmadi. Their use is advisable where there is at least as much free space adjacent to the boundary/opening of the fire compartment to be closed as the opening itself. The door consists of interlocking panels with a rock wool infill and steel armour. Closing is gravity operated, always open in the standby position, closing on fire alarm. This type is not suitable for continuous use because of its principle of operation. The Ei2 fire resistance rating ranges from 60 to 240.

The door can be suspended from the slab, bracketed to the side wall or even integrated with a steel structure. It can be fitted with an escape door, its closing is adjustable by means of a speed control and its closing is adjustable by means of a shock absorber. The counterweight can be mounted on either side.



GUILLOTINE FIRE DOORS

Guillotine fire-resistant doors are manufactured with panels opening upwards and with different fire-resistances.

The door is done with a single sheet made of joined panels, assembled with gaskets that are resistant not only mechanically but also to fire. Each panel, of an approximate width of 1,200 mm, consists of two sheets of galvanized steel and a set of thermal materials that prevent that gases or flames getting through.

This sheet is topped with a closing profile around the whole perimeter and come with telescopic sheets if there is not enough space available. Thanks to its complex design, this type of door closes very smoothly.



The fire-resistant guillotine door remains usually open and, when it receives a signal from the fire detection system, descends by gravity to a rate controlled by respective radial absorbers. It closes then to the ground without hitting against it, thanks to shock absorbers. They also have appropriate safety equipment to prevent falls in case that an element of the suspension breaks

The guides of the door can be installed on the ceiling or welded to strong metal structures.

The support elements must have, at least, the same fire resistance value as the door and must be strong enough to hold the weight of the door and its expansions.

If there is not enough space available, it can come with 3 telescopic steel sheets as well.

FIRE AND SMOKE CURTAINS

The fire and smoke curtain has a structure very similar to that of roller shutters. Fire is blocked by a heavy glassfibre Kevlar fabric with stainless steel threads. It requires very small space for installation. Thanks to its design, it can be fully concealed in suspended ceilings, making it an invisible barrier providing full-scale protection. It is equipped with uninterrupted power supply, so it remains functional even in power failure.



- Maximum fire resistance is 120 minutes.
- Without cooling, the maximum heat energy transfer of the curtain is 15KW/m² for 120 minutes.
- Exposed metal parts have an aesthetic powder-coated finish available in many colours. A fire barrier or, optionally, a smoke barrier as well.



CALSSIFICATION	FIRE RESISTANCE	MAX. WIDTH	MAX. HEIGHT	MAX. OPENING
EI (1)	60 perc	18.000 mm	10.000 mm mm	180 m ²
EI (2)	120 perc	18.000 mm	10.000 mm mm	181 m ²
EW	120 perc	18.000 mm	10.000 mm mm	182 m ²

FOLDING DOORS SOLUTIONS

Folding doors are manufactured of painted steel or aluminium panels with CFC-free polyurethane foam injected inside. They guarantee the highest possible level of heat and acoustic insulation while special EPDM gaskets and nylon brushes on the closing profiles guarantee a perfect seal. Several bespoke solutions are available to satisfy every possible requirement: from the addition of windows, ventilation grids and special windows, to the possibility of choosing Kopron special and customised hinges, right through to the insertion of pedestrian doors with entrance/exit or to simplify frequent passages, avoiding the entire door from being opened unless absolutely necessary. Low space demand for opening is a key benefit.



Our robust doors with great heat-insulating properties meet any energy-saving and security requirement. The different kinds of configurations and opening types contributes to optimise available spaces and provide the operators with ease of use.

HANGAR DOORS

Our large hangar doors fully comply with customer requirements. They are able to shut hangars that contain from a narrow-body aircraft up to an Airbus A380.

Product benefits include, among other items, that they are available in unlimited width and height, so there is no size limitation. Hangar doors can be painted in a wide range of colours, and colours can be combined in the same door. Special anti-crush gaskets are mounted between panels to cover a width of 50mm according to relevant regulations.

In addition to these basic features, they guarantee the best acoustic insulation and a perfect seal, thanks to special EPDM gaskets and nylon brushes on the closing profile.



SLIDING DOORS SOLUTIONS

Sliding doors are designed to shut especially large openings and halls, and also to comply with the harshest industrial application and architectural requirements. The sliding doors proposed by us combine technological elements with aesthetic requirements, providing insulation and separation of the areas inside the industries and the creation of closures towards the outside, in perfect harmony with the façade and the architecture of the areas.

Product advantages include direct installation to the finished floor without the need for any floor guides, an increased net internal space, and the rigidity of the panels guarantees a high level of thermal insulation and wind load resistance.



BLAST RESISTANT DOORS

Blast doors are critical in preventing blast pressure causing destruction to people, property, and assets. Blast resistant doors are incredibly effective in minimising the effects from accidental or intentional explosives or blast attacks, because they seal off most rooms and areas.

Pensher Skytech's blast doors are resistant to an incredibly high standard and have been installed in some extremely high-profile areas including Heathrow Airport, military sites, museums, government buildings, public areas. Pensher Skytech's blast doors are designed to meet the most rigorous demands and protect against high level explosions.



Blast resistant doors are an excellent protection for any environment at the potential risk of forced or natural blast attacks. Typical industries that blast doors are used for are:

- Petrochemical sites
- Transport hubs
- Factories
- Waste-treatment plants
- Renewable energy plants
- High-security facilities
- Military and air bases
- Aerospace industry
- Public areas
- High-profile and government buildings



FIRE DOORS SOLUTIONS

Like our other fire protection products, fire doors are an integral part of fire protection. Their use is regulated by each European country, in Hungary the National Fire Safety Regulations govern their installation.

Our doors are manufactured by the Spanish company Asturmadi, a brand name that guarantees the durability and usability of the product. Our doors are sized according to EU standards and have harmonised Hungarian certification. Of course, if an older door needs to be replaced, dimensional accuracy is important, so these doors are also available made to measure.

They are made of powder-coated steel plate, the door leaf infill is made of rock wool. The door's self-closing capability is C5, designed for heavy duty use, the manufacturer offers the full range of accessories available to accompany the doors, from electric locks to panic locks and fire-resistant glazing.



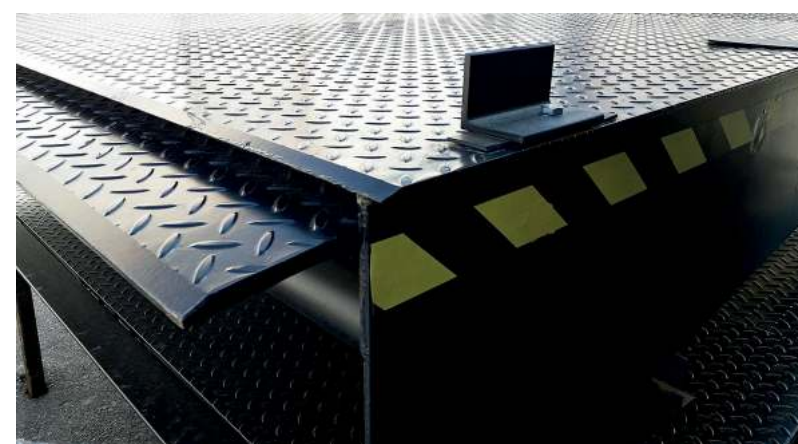
LOADING EQUIPMENT AND ACCESSORIES

DOCK LEVELLERS

The **swing lip dock leveller** is designed for picking up pallets with a forklift to load or unload trucks. The leveller is equipped with a stable hinged plate that ensures quick and safe loading. The leveller has the CE mark. Its platform is made of 6/8 mm thick ribbed sheet metal. It is integrated with the service support and connected to the back of the leveller frame with hinges. Fully secure use is ensured by the anti-slip surface, foot protection along the entire length of the platform and the full lifting range of the leveller. Different methods of placing bridges in the foundation are possible.



The **telescopic lip dock leveller** is designed for picking up pallets with a forklift to load or unload trucks. Its characteristic feature is a retractable lip guided along bearing rollers. The leveller has the CE mark. Its platform is made of 8/10 mm thick ribbed sheet metal. It is integrated with the service support and connected to the back of the leveller frame with hinges. Fully secure use is ensured by the anti-slip surface, foot protection along the entire length of the platform and the full lifting range of the leveller. Different methods of placing bridges in the foundation are possible.



LOADING EQUIPMENT AND ACCESSORIES

SCISSOR LIFT TABLES

With **hydraulic scissor lift tables** it is possible to move heavy loads safely even at heights. Our partner has been manufacturing scissor lift tables since 1972 and can deliver products in a wide range of sizes and load capacities. All tables comply with the European EN 15701 standard and undergo pre-delivery testing and are given certificate of conformity and CE mark before dispatch.



LOADING EQUIPMENT AND ACCESSORIES

DOCK SEALS



The **retractable mechanical seal** is designed to seal a truck trailer at the loading bay. There is no need to use any additional elements to protect the loaded goods, as the seal is fully integrated with the leveller. The main task of the seal is to limit the influence of unfavourable weather conditions on the work in the warehouse. The versatile dimensions make it compatible with semi-trailers. Seals with non-standard dimensions can also be designed.



The **inflatable seal** is the most effective and the most durable of all types of docking system seals. The air bags are harmonica-shaped, which creates an optimal seal. This type of seal is especially recommended in cases of significant differences in temperature inside and outside the room, for example in air-conditioned or cooled storage areas. Seals with non-standard dimensions can be designed.

LOADING EQUIPMENT AND ACCESSORIES COMBILOK

The communication between warehouse staff and drivers (in their cabs) often leaves a lot to be desired, which may result in accidents and damage to the goods. There may be loading in progress while the truck driver is already driving off the docking bay. Combilok is able to prevent serious accidents in such situations, as the system guarantees safety both to staff and goods.

Combilok is a fully-automated vehicle restraint system. A built-in sensor detects the rearmost wheel position and locks it automatically. The system is simply installed on existing as well as new sites.



LOADING EQUIPMENT AND ACCESSORIES LOADING HOUSES

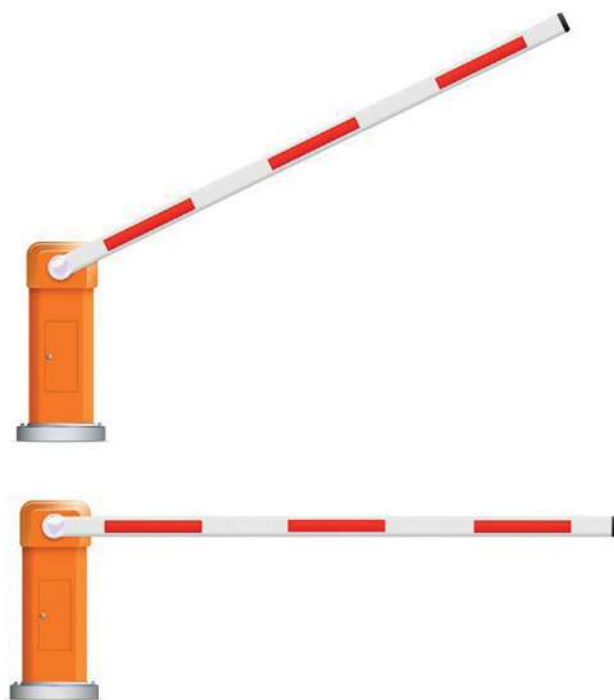
AMTR loading houses are an economical and ergonomic alternative to typical loading bays inside warehouses. This versatile solution can be used with all types of platforms and gate seals. The loading house can be adapted to various types of thermal insulation, several houses with the same structural elements can be arranged in a line or installed at an angle. The houses are designed both to be used in new buildings, as well as for modernising existing facilities.



House installation
angles: 30, 45, 60,
90, 120, 135, 150
degrees.



CHAIN BARRIERS SOLUTIONS



Gate barriers are ideal to control access into parking bays, parking garages, underground parking garages, car dealerships, entries, even in high-traffic locations. Available with 24V DC gearmotor for heavy-duty use (service level 100%) and 230V AC gearmotor for standard use (service level 30%).

Controller and balancing springs are sold separately. Choose the control unit that best fit the gearmotor. Choose balancing spring in accordance with the installed accessories and boom length.

Also available made of stainless steel. In addition to gate barriers, with standard sizes and speeds, our company supplies gate barriers with very high-speed and extremely wide boom for hightraffic locations as well.

Thanks to their exclusive design, **CHAIN BARRIER** bollards are primary recommended for use in high-standard architecture urban environment. Automatic chain barriers with span up to 16 metres. They also are ideal to delimit parking lots, public areas, monuments, car dealerships. The 230V version is for standard duty, whereas the 24V is also suitable for heavy-duty applications. The motorized pylon contains a built-in controller, and the counter pylon features a chain tensioner. In the event of a power failure, the special security padlock with customised key allows the immediate release of the chain. As standard, control units come with optional automatic locking. It can be connected to remote controller, access control system, or pushbutton, and is able to manage safety accessories (warning beacon, photocells, magnetic loop detector).



As an accessory the system features a chain protector guide to protect the chain as well as vehicles when the passage is open.

Our company also trades licence plate recognition systems of many renowned manufacturers, which offer our customers with solutions to many applications such as car access control and traffic counting. Under special circumstances, this system can be interfaced with wanted vehicles database. The software is licenced version per camera, and is able to control virtually anything (gates with boom or chain, doors).

AUTOMATIC GLASS DOORS

In today's age of visual appeal and convenience, automated entrances are becoming an increasingly important and essential requirement in the design of institutions, companies and apartment buildings. In this context, the automatic glass door must meet both qualitative and aesthetic requirements, and we pay particular attention to ensuring that the photocell doors we supply meet these requirements perfectly in every respect.



The automatic systems we offer are designed to meet specific needs, with innovative solutions to meet the requirements of both architecture and use.

INDUSTRIAL STEEL DOORS

Our industrial steel doors are manufactured by the Spanish company Asturmadi. It is important to note that the manufacturer produces its industrial doors on the same production line as its fire rated doors (the only difference between the two types is the density of the rock wool infill in the door leaf), so the industrial doors are of a similar high standard. The doors can be fitted with a hydraulic door closer, a panic bar to aid escape and all the accessories needed to facilitate use.



The surface is powder coated with a durable RAL7038 finish. The finish of the case is available as a corner case as standard, but also as a block or overall case.

SECURITY ROLLER SHUTTER GRILLE

This mechanical protection is an ideal solution for the protection of offices, shops and commercial premises.



The **security grille** also functions as a great partition, where transparency and good ventilation can be important.

A **roll-up security grille** is the ideal solution for this. You can keep your shop window safe even when the shop is closed, as the **security grille** offers excellent visibility and exceptional protection.

You will probably see the roll-up security grille most often in large open-air plazas, but there are many other uses for it.

The grille's casing rolls up on a shaft during operation, so it takes up very little space when open. When installed indoors, the roll-up safety grille does not require a cover and can be hidden under a false ceiling. When installed externally, it must be covered to protect it from the weather. Thanks to the outdoor cladding, the life of the safety grating is extended and its aesthetic appearance can be enjoyed for longer.





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