ROPER

GENERAL CATALOG

ROPER

*The company ROPER reserves the right to make any modifications it may deem appropriate, in addition to changes derived from the evolution of its products, without the need for prior notice.

THE COMPANY

ROPER

PUERTAS METÁLICAS

The Company: Our Story

ROPER DOORS, FIFTY YEARS OF EXPERIENCE AND CONTINUAL EXPANSION.

WITH MORE THAN 50 YEARS' EXPERIENCE IN THE SECTOR, ROPER IS A NATIONAL AND INTERNATIONAL BENCHMARK IN THE MANUFACTURE OF METAL DOORS AND SANDWICH PANELS. ROPER'S STORY STARTED IN THE EARLY 1960s, WHEN IT MANUFACTURED THE FIRST BI-FOLD OVERHEAD DOOR. FROM THE START, THIS MODEL ENJOYED AN EXTRAORDINARY RECEPTION, PARTICULARLY FOR USE IN INDUSTRIAL BUILDINGS. OWING TO ITS FUNCTIONALITY AND SPACE-SAVING CAPABILITIES, IT ALSO BECAME A FAMILIAR FEATURE IN HOMES AND APARTMENT BLOCKS.

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1/ ORIGINAL WORKSHOP, 1963.
2/ THE FIRST DRAFTING TABLE AT ROPER.
3/ INDUSTRIAL DOOR WORKSHOP DURING THE 1970s.
4/ SECOND WORKSHOP, 1965.
5/ FACTORY MANUFACTURING FIRE DOORS AND MULTIPURPOSE DOORS, REVILLA, CANTABRIA, SPAIN.
6/ INDUSTRIAL DOOR FACTORY, MALIAÑO, CANTABRIA, SPAIN.
7/ FACTORY MANUFACTURING SINGLE-LEAF OVERHEAD DOORS AND AUTOMATIC PARTS, MALIAÑO, CANTABRIA, SPAIN.

Next, came vertical and horizontal sliding doors, automation, and other new products.
They achieved great success in prestigious industrial and residential projects because of their reliability and durability. The standard single-leaf overhead door marked a turning point for ROPER.
Later, sectional doors, fire doors, multipurpose doors and the entire range of products manufactured today were progressively added to our range.

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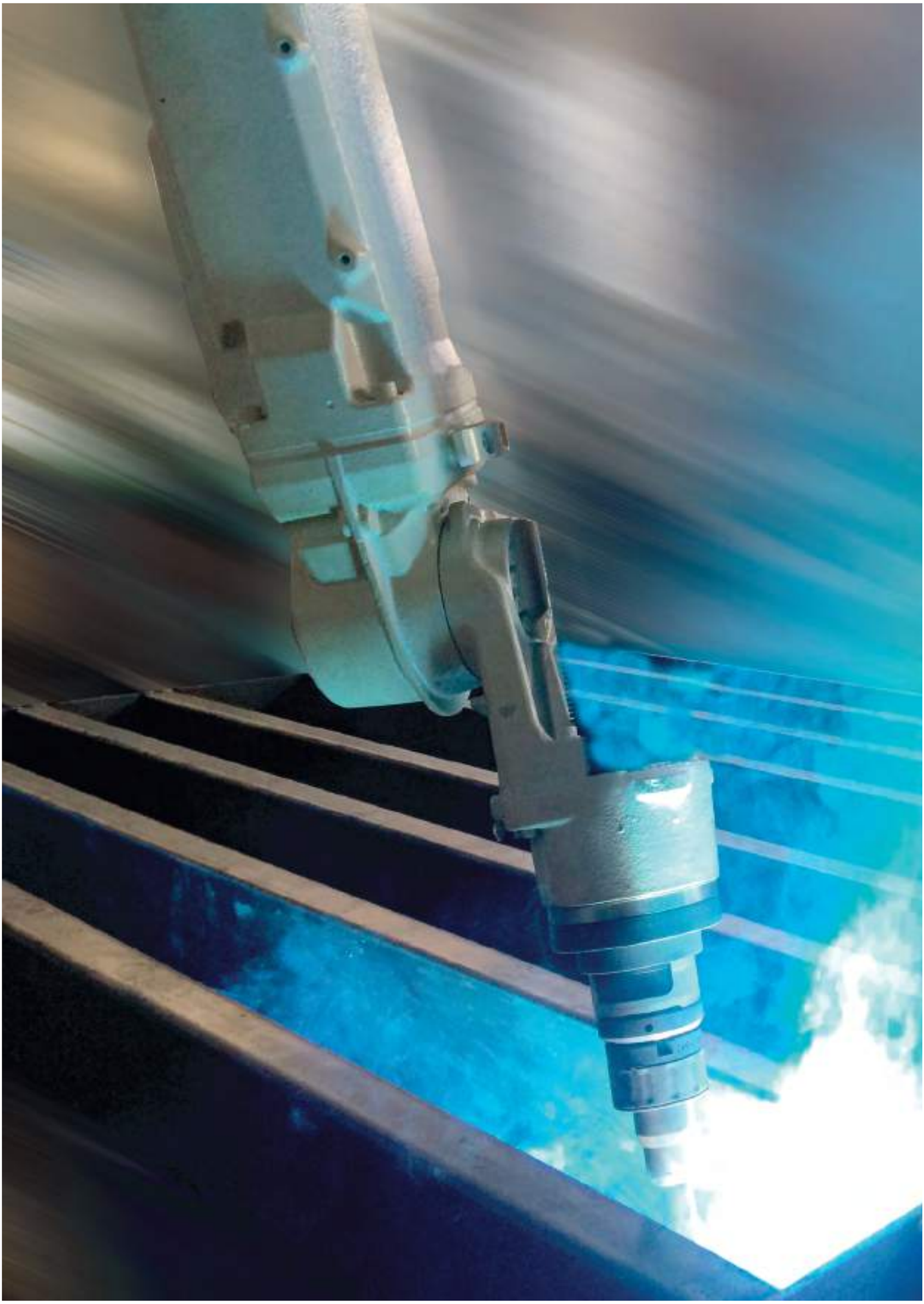
1/ FACTORY MANUFACTURING SECTIONAL DOORS, AGUILAR DE CAMPOO, PALENCIA, SPAIN.
2/ FACTORY MANUFACTURING SANDWICH PANELS, AGUILAR DE CAMPOO, PALENCIA, SPAIN.

We now have more than 70,000 m² across seven factories dedicated to manufacturing metal doors and sandwich panels, using state-of-the-art technology to design and produce our wide range of products.

PRODUCTS AND LOGISTICS

Our wide range of products (standard single-leaf overhead doors, swing doors, access panels, horizontal and vertical sliding fire doors, multipurpose swing doors, industrial doors, sectional doors, sandwich panels for manufacturing doors, subframe boxes for pocket doors, and a complete range of automatic parts and accessories for doors) means that we bring more than 500,000 doors to market each year for export and domestic use.

Sales across Spain are distributed through our logistics network comprising a fleet of 50 industrial vehicles and more than 30,000 m^2 of warehouses belonging to Roper and its branches.



TECHNOLOGY AND QUALITY

Our factories use the most advanced production systems: punching machines, panelling machines, automatic roll forming lines and machining lines, automatic painting processes, continuous production line for sandwich panels, automatic welding processes, embossing and own machining, traceability procedures, and state-of-the-art robotics. All of this, combined with periodic quality controls and certified laboratory tests, means that ROPER is a comprehensive manufacturer ready to respond to the demands of different types of market.
ROPER's experience, accumulated over 50 years in the sector, its implementation of the most innovative technology, and its demanding approach to products and services have led it to progressively increase its market share year after year, to become the leading company in Spain in the manufacture and distribution of metal doors. A significant percentage of products manufactured by ROPER is exported, and they can be found in the leading markets in Europe, America and Africa.

OUR CUSTOMERS

Our best reference for the reliability and functionality of our doors is the tens of thousands of customers that have been using them for more than 50 years.
As a result of their innovative technology and quality guarantee, ROPER doors have been successfully installed in industrial units, residential properties and highly prestigious public buildings, all of which require metal doors with the best technical specifications available on the market.
An example of a prestigious project with global impact where ROPER fire doors have been installed is La Sagrada Familia Temple, Barcelona.

LA SAGRADA FAMILIA
World Heritage Site

ROPER was entrusted to supply the fire-door system for this global architectural icon.

INTERNATIONAL PROJECTS

Below are two recent international projects performed with our industrial doors:

1/ BEN SLIMANE AIRPORT, MOROCCO. 10-LEAF SLIDING DOOR MEASURING 50-M LONG BY 15-M HIGH.
2/ GOLD MINES, MAURITANIA. FOUR VERTICAL SLIDING DOORS MEASURING 9-M LONG AND 12.5-M HIGH.

PROJECTS IN SPAIN
Wineries

This edition is dedicated to one of the fastest growing and most prestigious industrial sectors in Spain: the wine industry. In recent years, numerous members of this important productive sector have placed their trust in ROPER industrial and fire doors.

RAMÓN BILBAO
Rueda and Ribera del Duero regions.

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1/ NEW RAMÓN BILBAO WINERY IN THE RUEDA AND RIBERA DEL DUERO REGIONS. SECTIONAL DOOR WITH WICKET GATE.
2/ DOCK LEVELLERS AND SECTIONAL DOORS FOR LOADING BOTTLED WINE.
3/ AND 4/ SECTIONAL DOORS. GRAPE UNLOADING AREA.
5/ SLIDING DOORS IN COR-TEN STEEL.


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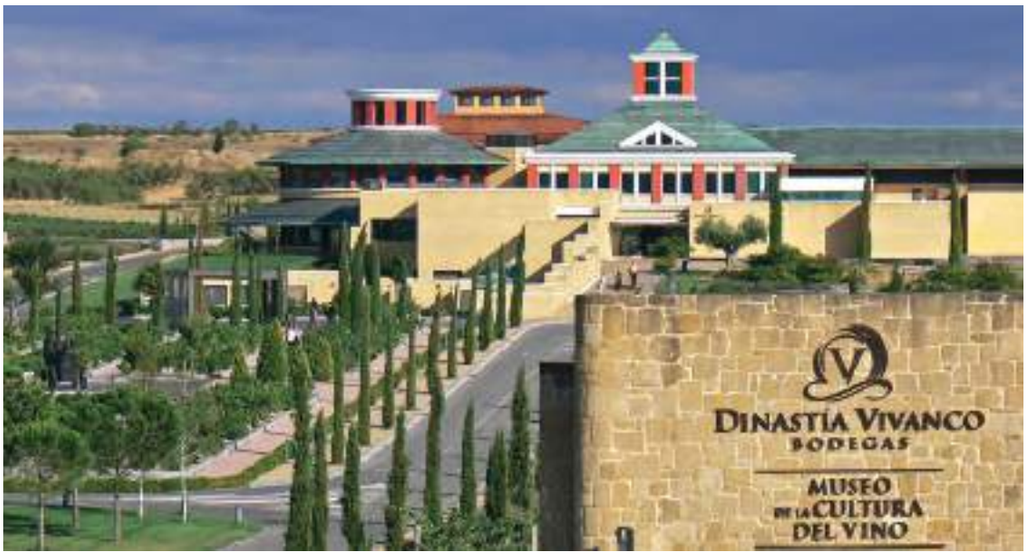
DINASTÍA VIVANCO

Briones. La Rioja Alta.



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6/ SECTIONAL DOOR WITH WICKET GATE. LOADING AREA FOR BOTTLED WINE.

BODEGAS VIORE

Rueda. Ribera del Duero.

7/ SECTIONAL DOORS. LOADING OF BOTTLED WINE.

BODEGAS MUGA

Haro. La Rioja Alta.

9/ SECTIONAL DOOR AND FIRE DOOR.

8/ SECTIONAL DOOR WITH WICKET GATE.

GRUPO VALDECUEVAS

Rueda. Ribera del Duero.

BODEGA BENJAMIN DE ROTHSCHILD & VEGA SICILIA

New winery, Samaniego, Rioja Alavesa.

10/ INDUSTRIAL OVERHEAD DOORS MADE OF SANDWICH PANELS.

BODEGAS ONTAÑÓN

Rueda. Ribera del Duero.

11/ SECTIONAL DOORS AND LOADING DOCKS.

BODEGAS PALACIO
Laguardia. Rioja Alavesa.

BODEGAS CASADO MORALES
Lapuebla de Labarca. Rioja Alavesa.

12/ OVERHEAD DOORS.
13/ SECTIONAL DOOR AND PEDESTRIAN DOOR MADE OF SANDWICH PANELS.

BODEGA VALDEHERMOSO

Nava del Rey. Ribera del Duero.

14/ FIRE DOOR.

BODEGA PROTOS

Extension to Anguix winery (Burgos).
Ribera del Duero

15/ SECTIONAL DOORS WITH WICKET GATE.

PRODUCT ADVANTAGES

ROPER

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Advantages of choosing a ROPER product

BETTER SERVICE

ROPER HAS A COMPLETE NETWORK OF 11 BRANCHES AND OWN WAREHOUSES MEASURING OVER 30,000 M2. IT IS THE ONLY COMPANY IN THE SECTOR THAT OFFERS THIS TO ITS CUSTOMERS. OUR PRODUCTS ARE DISTRIBUTED IN THE SPANISH MARKET THROUGH A COMPREHENSIVE LOGISTICS NETWORK COMPRISING A FLEET OF 50 INDUSTRIAL VEHICLES.

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1/ BARCELONA.
2/ ASTURIAS.
3/ MADRID.

COMPREHENSIVE RANGE ENCOMPASSING MANUFACTURE, ASSEMBLY AND MAINTENANCE

ROPER is the only manufacturer in the sector that offers its customers a comprehensive service comprising manufacture, assembly and maintenance direct from the factory, performed by its own installers and electricians.

GET THE FASTEST AND MOST PROFESSIONAL TECHNICAL-SALES SERVICE

At our branches, the customer is assisted by an expert team of sales technicians employed directly by ROPER and offering the fastest and most-efficient service.

The customer enjoys the peace of mind of dealing directly with the manufacturer.

TAKE ADVANTAGE OF THE BEST QUALITY-PRICE RELATIONSHIP ON THE MARKET

ROPER products have the most demanding technical specifications on the market, combined with a flawless finish.

As a result of continual improvements to the production process and investment in technology, the customer will always get the best quality-price relationship available.

SOLUTIONS FOR ALL TYPES OF USER

ROPER is the metal-door manufacturer with the widest range of products on the market. Its varied range means it can meet the needs of all types of customer and project (industrial, residential and public).

INNOVATION AND STATE-OF-THE-ART TECHNOLOGY

From the early days, one of ROPER's hallmarks has been continual innovation and investment in state-of-the-art technology, to offer its customers the latest and most-efficient solutions for metal doors.

RESIDENTIAL BUILDINGS

ROPER

PUERTAS METÁLICAS

Residential Sectional Door

THE ROPER RANGE OF SECTIONAL DOORS PROVIDES THE MOST-DEMANDING CUSTOMERS AND TODAY'S ARCHITECTS WITH THE DOOR THEY SEEK. THROUGH CAREFULLY SELECTED MATERIALS AND METICULOUS MANUFACTURING PROCESSES, WE HAVE ACHIEVED A FINISH THAT IS HIGHLY VALUED AMONG OUR CUSTOMERS. THE NUMEROUS AND ATTRACTIVE FINISHES AVAILABLE FOR THE ROPER RESIDENTIAL SECTIONAL DOOR MEAN THAT IT WILL ADAPT TO ANY BUILDING STYLE, FROM MORE RUSTIC HOMES TO CUTTING-EDGE DESIGNS. MANUAL AND AUTOMATIC VERSIONS ARE AVAILABLE, BUT INSTALLING ROPER AUTOMATION WILL MAKE YOUR DOOR SAFER AND PROLONG ITS LIFE BECAUSE THE OPENING AND CLOSING MANOEUVRES WILL BE SMOOTHER AND SAFER.

EUROLINES

The Eurolines model of the ROPER residential sectional door looks like a wooden door made of horizontal slats. This is the case in any of the colours of pre-painted sheet, but it is especially true of the imitation-wood finishes.

ECUADOR

The new door model Ecuador has an exquisite finish in any of the outdoor sheet colours that ROPER offers, though it is with the imitation-wood finish that this door achieves a truly spectacular effect. Specially designed for outdoor use, this door has a striking and pretty design. Onlookers will find it difficult to tell whether the door is made of just one or several panels.

MAYA

Our search for good taste and elegance is what led us to design the Maya door model. Specially produced for outdoor use on garages, this door has an attractive and original design. It is particularly recommended for use with houses. Installing a Maya residential sectional door on your garage will give your home a touch of class and distinction.

ESENCIAL

The new Esencial door has been designed as a minimalist solution for the latest architectural trends. The design is focussed on essential need, avoiding excess, saturation and pollution, to create a harmonious and functional environment.

HANDLE

Residential handle.

LATCH

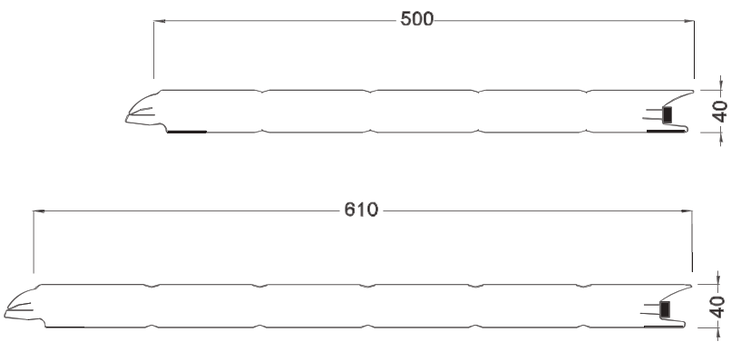
Security latch, view from inside.

ENCLOSURE

Our residential sectional doors are made of sandwich panels manufactured by ROPER, with an anti-trap safety system.

These panels comprise two sheets of painted, galvanised steel filled with polyurethane foam with an average density of 40 kg/m3.
Our production system ensures that the panels are highly robust, with excellent thermal and acoustic insulation.

Cross section of Roper Eurolines (residential) Gararop panel.



SOLUTIONS

Residential sectional doors are the ideal solution for detached homes and townhouses. They optimise space through a system where they adapt to the ceiling, with variants for horizontal and sloping ceilings. They also make it possible to take advantage of the entire length of the garage because the vehicle can be parked very close to the door.

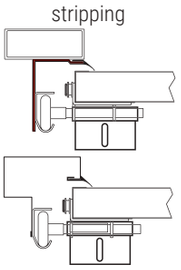
CERTIFICATION

The residential sectional doors have been tested in laboratories that are certified in accordance with the product standard UNE EN 13241-1 and both the manual and automatic versions carry the CE mark.

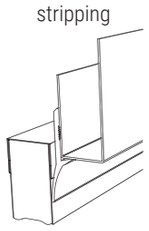
WEATHER STRIPPING

The edges of sectional doors are equipped with different types of rubber profile that provide better sealing for the door, to keep out air and dust.

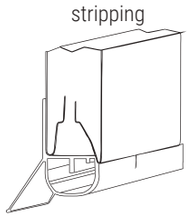
Side weather stripping



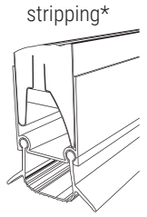
Top weather stripping



Bottom weather stripping



Bottom weather stripping*

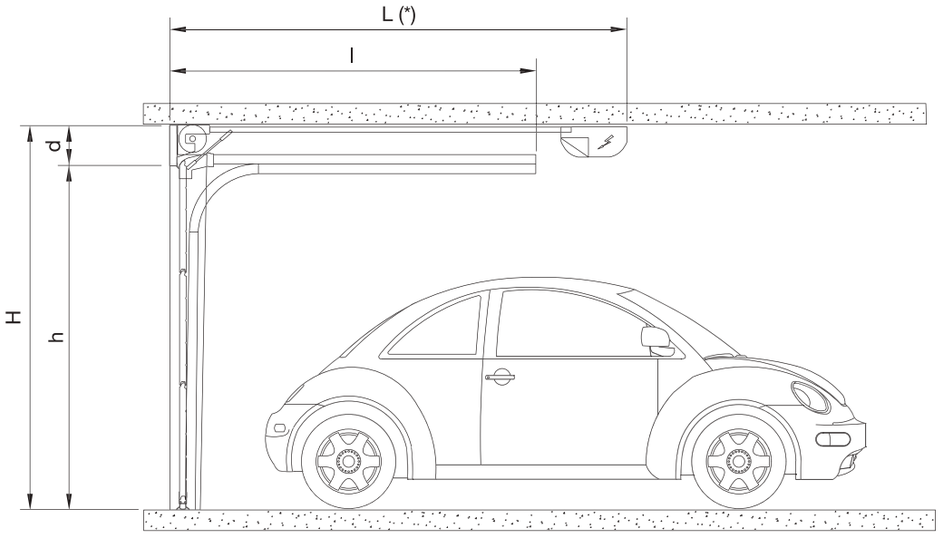


*Special finishes

MINIMUM CLEARANCES REQUIRED

l manual = h + 350
l track assembly = h + 850
l ceiling assembly = h + 300
L* = h + 880
d = lintel (180 / 350)

* Depends on the model.



SOLUTIONS

Door with standard lintel: one track.

MINIMUM CLEARANCES REQUIRED

l manual = h + 350
l ceiling assembly = h + 300
L* = h + 990
d = lintel (360/600)

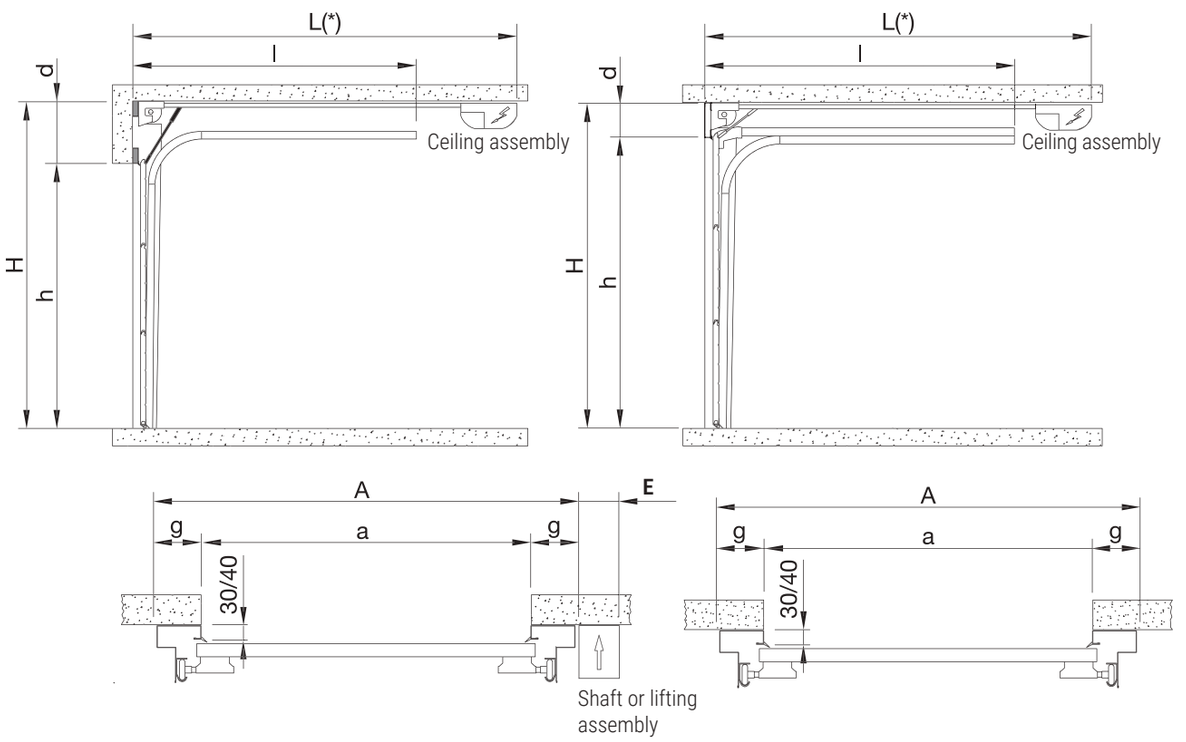
* Depends on the model.

Door with small lintel: two tracks.

MINIMUM CLEARANCES REQUIRED

l manual = h + 350
l track assembly = h + 850
l ceiling assembly = h + 300
L* = h + 880
d = dintel (180/350)

* Depends on the model.



A = TOTAL WIDTH = a + 2g
a = WIDTH OF PASSAGE
g = 105 ó 95
E = DEPENDS ON THE MODEL; 100 / 250 mm.

This type of door has a single track and the door is pulled open from the inside. The cable runs along the inside of the track. These doors require losing quite a lot of overhead clearance. They are ideal for installing behind lintels, when there is sufficient space. The least problematic measurements for these lintels are 450/600 mm, though, in some cases, it is possible to use lintels with a minimum measurement of 360 mm. These lintels make it possible to position the tracks as close to the ceiling as possible. Given that these doors are normally installed behind a lintel, they do not require a steel lintel.

A = TOTAL WIDTH = a + 2g
a = WIDTH OF PASSAGE
g = 105 ó 95

This type of door has two tracks. These doors are designed to minimise lost headroom (h), and the transmissions are normally installed on omega profiles made of galvanised steel, which are called lintels and marked (d) on the diagram.
The acceptable measurements for this steel lintel (d) is from a minimum of 180 mm up to a maximum of 350 mm, and in most cases, between 180 and 250 mm of headroom is lost.

TYPES OF SHEET FINISH

STUCCO

SMOOTH

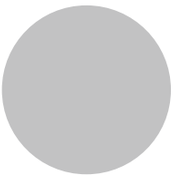
WOOD

INSIDE SHEET COLOURS

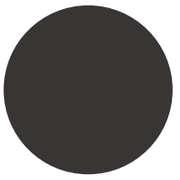
RAL 9010

OUTSIDE SHEET COLOURS

RAL 9010

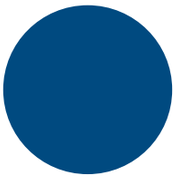


RAL 9006

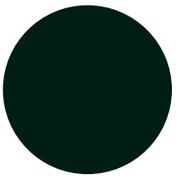


RAL 7024

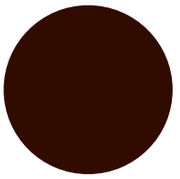
RAL 3000



RAL5010



RAL 6009



RAL 8014

IMITATION WOOD

LIGHT OAK

DARK OAK

* The sample colours are offered by way of guidance. They do not depict the actual colours and tones of the sheet used.

OPTIONAL ELEMENTS

Decorative window for raised panel.
Model Clave.
Outer frame: 488 x 322 mm.
Dimensions: 425 x 260 mm.

Decorative window for raised panel.
Model Cruz.
Outer frame: 488 x 322 mm.
Dimensions: 425 x 260 mm.

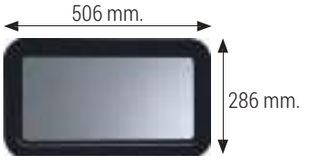
Decorative window for raised panel.
Model Abanico.
Outer frame: 488 x 322 mm.
Dimensions: 425 x 260 mm.

PVC grille for ventilation in raised panels.
Dimensions: 338 x 132 mm.
Ventilation: 0,0211 m².

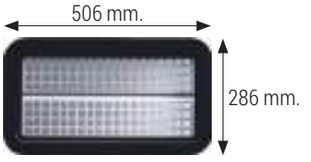
PVC grille.
Colour: white.
Dimensions: 426 x 70 mm.
Ventilation: 0,0182 m².

PVC grille.
Colour: black.
Dimensions: 426 x 70 mm.
Ventilation: 0,0182 m².

Methacrylate window.
Dimensions: 550 x 245 mm.

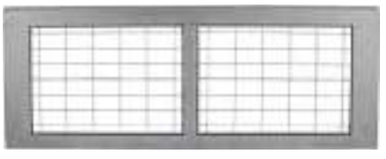


Methacrylate window.
Dimensions: 420 x 200 mm.



Perforated sheet window.
Dimensions: 402 x 193 mm.
Ventilation: 0,0342 m².

Aluminium slat with methacrylate window.



Aluminium slat with grille.

Aluminium slat with micro-perforated sheet.

LOCK

INSIDE

OUTSIDE

Outside cylinder lock

ROPER

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Residential Single-Leaf Overhead Door

THE ROPER SINGLE-LEAF OVERHEAD DOOR OFFERS QUALITY AND SAFETY AT AN UNBEATABLE PRICE. WE HELP YOU TAKE FULL ADVANTAGE OF YOUR GARAGE SPACE, WITH MINIMAL LOSS OF CLEARANCE. THE SYSTEM FUNCTIONS BASED ON A SPRING MOUNTED ON A SHAFT, WHICH PROVIDES THE NECESSARY FORCE TO THE SIDE ARMS TO BE ABLE TO LIFT AND LOWER THE DOOR WITHOUT STRAIN. THIS TRANSMISSION SYSTEM IS HIDDEN ABOVE THE DOOR AND THE VERTICAL TRACKS ARE DESIGNED TO ENSURE MINIMAL LOSS OF SIDE CLEARANCE. IT IS EASY TO INSTALL, EVEN FOR NON-SPECIALISTS, AND THE PRODUCT IS DELIVERED FULLY ASSEMBLED AND FACTORY TESTED.

SAFETY

Owing to its design, the leaf will never fall should the spring or cables become damaged as a result of poor maintenance or heavy use.

PACKAGING

For ease of carriage, single-leaf overhead doors are sent in packages containing a minimum of four units, all of the same width.

CERTIFICATION

ROPER single-leaf overhead doors have been tested in accordance with product standard UNE EN 13241-1 and both the manual and automatic versions carry the CE mark in accordance with the test performed in a certified laboratory.

MEASUREMENTS

Standard measurements for doors in corrugated steel sheet, with raised panels, smooth slats or imitation-wood finish (the latter is available with vertical or horizontal planks).

WIDTH: 2.100 to 3.700 mm.

HEIGHT: 2.100 to 2.500 mm.

*For other measurements, please contact our sales department.

To comply with local regulations, the doors can be manufactured with a smaller overhang, to stop them taking up too much outside space.

HEIGHT UP TO: 2.400 mm. (manual doors)

HEIGHT UP TO: 2.600 mm. (motorised doors)

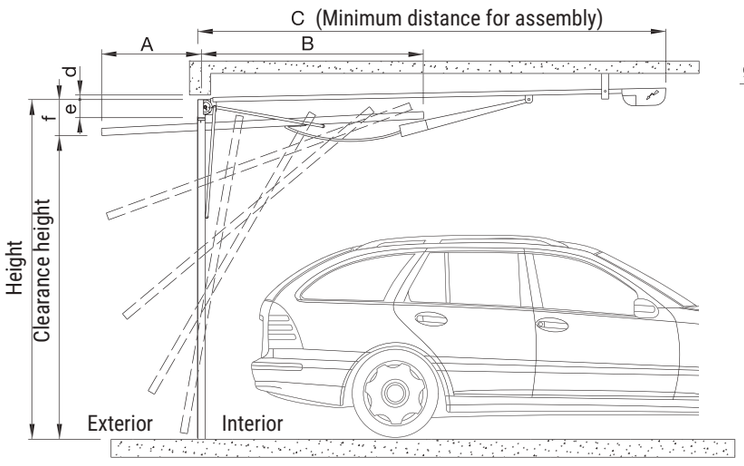
USEFUL DIMENSIONS

Diagram showing clearance distances, including overflow and minimum clearance, for accommodating the electromechanical assembly.

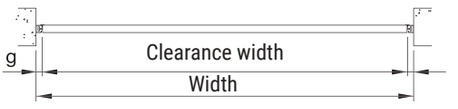
C = Curve system
C* = Pulling system
d = 30 (min. dist. assembly) / e = 120 / f = 250 / g = 45
C = (minimum distance for assembly)

HEIGHT	A	B	C	C*
2100	555	1425	2725	2525
2200	534	1546	2845	2645
2300	634	1546	2845	2645
2400	590	1690	2985	2785
2500	690	1690	2985	2785

*If you require a smaller size, please contact our sales department.



VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION

CORRUGATED SHEET

THIS IS THE MOST POPULAR MODEL FOR SINGLE-LEAF OVERHEAD DOORS.

Especially recommended for garages in apartment blocks due to the ventilation possibilities. Because they are made of corrugated sheet, the doors are robust, yet lightweight.
What is more, the design of the corrugation creates a ventilation system at the top and bottom of the door. The metal sheet, frame, lintel and tracks are all guaranteed against rust because they are made of galvanised steel.
The door is finished using a process involving washing, grease removal, phosphating and a powder coating polymerized by baking at 180 °C.

VENTILATION

Perforated

Bevelled

WINDOW OPTIONS

Rectangular methacrylate window (358 x 155 mm)

Bull's eye methacrylate window.
(310 x 95 mm)
Only for doors with corrugated sheet.

PEDESTRIANS

An option is available to adapt corrugated sheet doors to include a wicket gate (door for pedestrian access). The size of a standard wicket gate is 545 x 2,010 mm, though they can be manufactured in 745 x 2,010 mm and 945 x 2,010 mm depending on the measurements of the single-leaf overhead door (height from threshold of the wicket gate to the ground).

FINISH

The door is delivered in white (RAL 9010), embossed with gloss finish. Exceptionally, it can be painted in graphite grey (RAL 7024) or brown (RAL 8014).
For large series or other colours, please contact our sales department.

RAISED PANELS

SINGLE-LEAF OVERHEAD DOOR WITH MODERN DESIGN.

Manufactured with slats with square raised panels. Specially designed for outside use on garage doors. Like the previous model, it is also possible to create ventilation zones to always have clean, fresh air inside the garage. A central pressure pad is included in the design to make closing the door easier. The metal sheet, frame, lintel and tracks are all guaranteed against rust because they are made of galvanised steel. The door is finished using a process involving washing, grease removal, phosphating and a powder coating polymerized by baking at 180 °C.

VENTILATION

With the raised-panel model, it is possible to create zones with ventilated bevels.

FINISH

The door is delivered in white (RAL 9010), embossed with gloss finish. Exceptionally, it can be painted in graphite grey (RAL 7024) or brown (RAL 8014).
For large series or other colours, please contact our sales department.

IMITATION WOOD

AVAILABLE WITH HORIZONTAL OR VERTICAL PLANKS

Frames finished in brown (RAL 8014) and imitation-wood pre-painted sheet. Pre-painted galvanised sheet, specially designed for outside use. This door model is easy to clean and requires minimal maintenance.

VENTILATION

Optional ventilated zones as with the raised-panel model.

FORMATS

Two different layouts are available for the planks: vertical and horizontal.

SMOOTH SLATS

SIMPLE DESIGN. SPECIALLY CREATED FOR OUTSIDE USE ON GARAGES.

With this model, it is also possible to create ventilation zones, to always have clean, fresh air inside the garage. A central pressure pad is included in the design to make closing the door easier.The metal sheet, frame, lintel and tracks are all guaranteed against rust because they are made of galvanised steel.The door is finished using a process involving washing, grease removal, phosphating and powder coating polymerized by baking at 180 °C.

FINISH

The door is delivered in white (RAL 9010), embossed with gloss finish. Exceptionally, it can be painted in graphite grey (RAL 7024) or brown (RAL 8014).
For large series or other colours, please contact our sales department.

VENTILATION

In the smooth-slat model it is possible to create ventilated zones.

Automation

The system to automate the single-sheet overhead door has been developed by ROPER to ensure maximum ease and safety for users. Its exclusive design is the result of many years of experience. Its movements are smooth and precise, which will prolong the life of the door.
Our commitment to the highest quality means that our automation systems are subject to demanding and continual tests. This is how we are able to deliver a product that is reliable and safe.

CURVE SYSTEM

Essential to be able to open and close the door. It also blocks the door, without the need for any additional locking system.

PULLING SYSTEM

Performs the same movement transmission and blocking function as the curve system, with the added advantage of keeping overhead clearance.

ROPER

PUERTAS METÁLICAS

Bi-fold Overhead Garage Door

THE ROPER BI-FOLD OVERHEAD GARAGE DOOR IS THE DEFINITIVE DOOR FOR GARAGES OWING TO ITS ROBUSTNESS AND DURABILITY.

APARTMENT BLOCKS

SPECIFICATIONS

• Reliability: the door with the fewest breakdowns.
• Safety: equipped with all the automation and accessories needed for continual use.
• Economy: it is an economic door over the long term because of its low maintenance requirements.
• Robustness.
• Durability: doors installed 45 years ago are still working as well as on day one.
• Design.
• Finish.
• Adaptation to all opening measurements.
• Safety.
• Ease-of-use: the doors can be automated and adapted to every type of use.

DETAILS

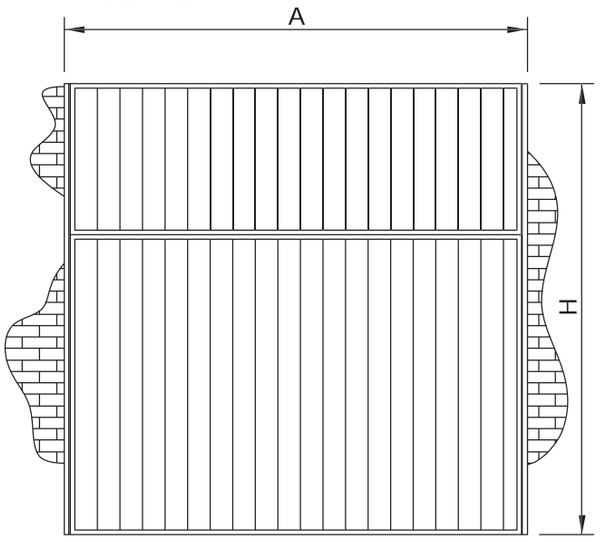


FIGURE 1
Overview of residential bi-fold overhead door.

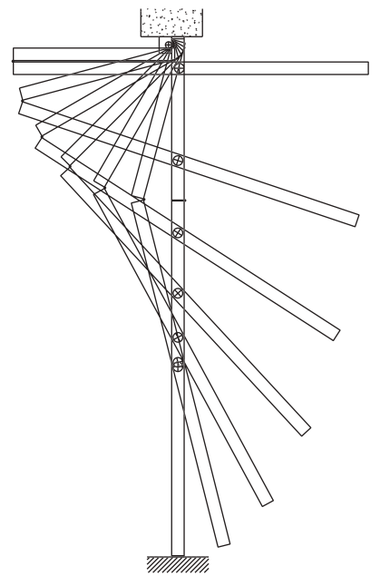


FIGURE 2
Detail of the opening of the residential bi-fold overhead door.

COUNTERWEIGHTS

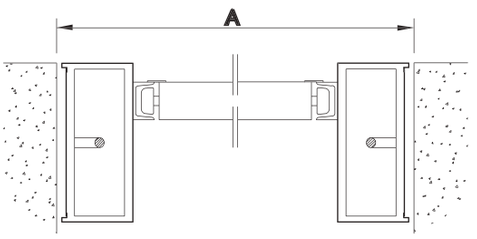


FIGURE 3.
Detail of the layout of the residential bi-fold overhead door, with side units.

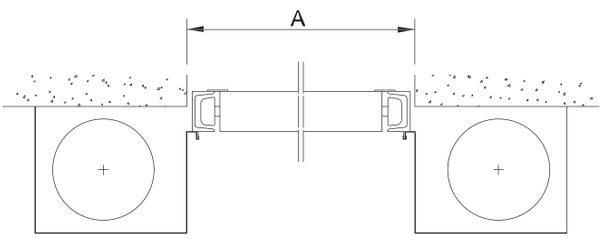


FIGURE 4.
Detail of the layout of the residential bi-fold overhead door, with hidden counterweights, protected by panelling.

Leaf

GALVANISED TUBES

The frame is manufactured with a cold-rolled tube and braced on the inside with tubular reinforcements to prevent it buckling and to improve wind resistance.
The tubes used to manufacture this type of door are galvanised tubes measuring 60 x 30 mm, 80 x 40 mm or 100 x 40 mm, with quality level E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.

LEAF ENCLOSURE

SHEET. The sheets are made of pre-painted steel skelp, DX51, in accordance with standard UNE EN 10142, of medium thickness, 0.55 mm, without peelable film, corrugated in modules of 200 mm, hung vertically or horizontally, compression mounted and welded to the frame around the leaf.
ROPER SANDWICH PANEL. Panel with a thickness of 40 mm. Manufactured in pre-painted galvanised sheet steel in accordance with standard UNE EN 10142. The panel is filled with expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs. Two panel formats are used, one with a height of 500 mm and the other with a height of 610 mm.

	U	ε	FIRE	WIND	ACOUSTICS
TEST DATA	W/m² ºK	W/m ºC	Reaction to fire classification UNE EN 13501-1	Wind resistance UNE EN 12424	Weighted sound reduction index RW(C9Ctr);b B UNE EN ISO 140-3 1995
GARAROP 500	0,82	0,023	B-S3,d0	4	26 (-2;-3)
GARAROP 610	0,80				
INDUROP 500	0,82				
INDUROP 610	0,80				

BARS. Made of tubes measuring 20 x 20 mm, 40 x 20 mm, 40 x 30 mm or 60 x 30 mm, galvanised, quality E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.
SPECIALS. Doors can be manufactured with special sheet enclosures on request (smooth sheet, sheet trays, perforated sheet, etc.). Please ask the sales department.

TRACKS

The tracks are made of UPN hot-rolled steel, 60 x 30 mm, 80 x 45 mm or 100 x 50 mm, quality S275 JR + M in accordance with standard UNE EN 10025-2.

HINGES

Depending on the dimensions of the door, two different types of hinges are used:

SMALL DOORS. The hinges comprise three modules of pickled sheet with a thickness of 2.5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 8 mm. The entire assembly is galvanised.

LARGE DOORS. The hinges comprise four modules of pickled sheet with a thickness of 5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 12 mm. The entire assembly is galvanised.

LOCKING SYSTEM

Locking is via side latches or by using a lock on the outside that activates the side latches. The side latches have a bolt with a diameter of 12 or 18 mm.

HEADERS

Depending on the size of the door, two different types of header are used:

SMALL DOORS. They comprise a steel rim with a thickness of 6 mm and industrial weather stripping with a diameter of 16 mm.

LARGE DOORS. They comprise a steel rim with a thickness of 8 mm and industrial weather stripping with a diameter of 25 mm.

COUNTERWEIGHTS

The counterweights are made of baryte. Their dimensions depend on the size of the door and the space to accommodate them.

PULLEYS

The pulleys are made of steel sheet with a thickness of 1.2, 2 or 4 mm, riveted and with a cupped self-lubricating rolling bearing. For large doors, turned iron pulleys are used.

ROLDANAS

The sheaves are made of polyamide or steel depending on the dimensions and purpose of the door.

CABLES

The cables have a thickness of 4, 5, 6 or 7 mm depending on the weight of the door. The composition is 6 x 19 x 1 mm and they comply with standard DIN 3060.

The quality of this door is guaranteed based on tests performed in certified laboratories, in accordance with product standard UNE EN 13241-1 and both the manual and automatic versions carry the CE mark.
The parts used in the door and its finish will depend on its dimensions, the style chosen and the size of the opening. They will also depend on possible changes owing to improvements in production processes.

RESIDENTIAL

The ROPER residential bi-fold overhead garage door can be summed up in three words:
DESIGN, DURABILITY AND ROBUSTNESS.
With a ROPER residential bi-fold overhead door, you will have a door for life.

FEATURES

- Robustness.
- Durability. Doors installed 45 years ago are still working as well as on day one.
- Design.
- Finishes.
- Adaptation to all opening measurements.
- Safety.
- Ease-of-use: the doors can be automated and adapted to every type of use.

DETAILS

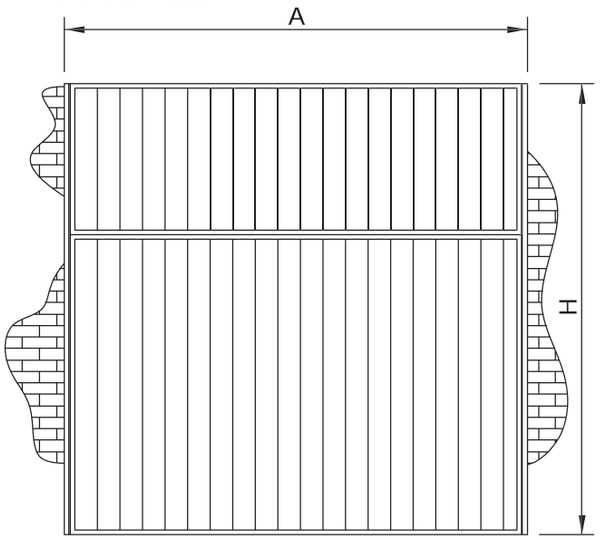


FIGURE 1
Overview of residential bi-fold overhead door.

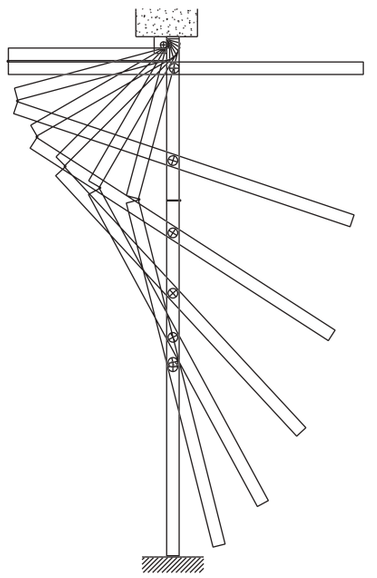
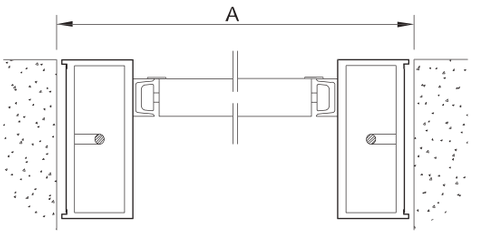


FIGURE 2
Detail of the opening of the residential bi-fold overhead door.

COUNTERWEIGHTS



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Detail of the layout of the residential bi-fold overhead door, with side units.

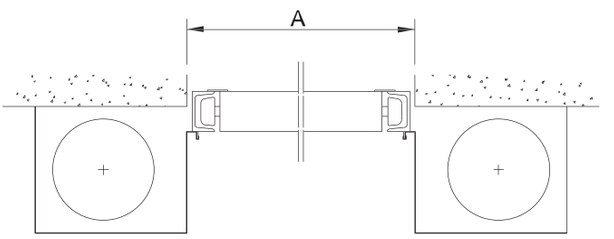

FIGURE 4.
Detail of the layout of the residential bi-fold overhead door, with hidden counterweights, protected by panelling.

BI-FOLD OVERHEAD GARAGE DOOR

Leaf

GALVANISED TUBES

The frame is manufactured with a cold-rolled tube and braced on the inside with tubular reinforcements to prevent it buckling and to improve wind resistance.

The tubes used to manufacture this type of door are galvanised tubes measuring 60 x 30 mm, 80 x 40 mm or 100 x 40 mm with quality level E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.

LEAF ENCLOSURE

The ROPER residential bi-fold overhead door is manufactured using four different types of leaf enclosure:

SHEET. The sheets are made of pre-painted steel skelp, DX51, in accordance with standard UNE EN 10142, of medium thickness, 0.55 mm, without peelable film, corrugated in modules of 200 mm, hung vertically or horizontally, compression mounted and welded to the frame around the leaf.

ROPER SANDWICH PANEL. Panel with a thickness of 40 mm. Manufactured in pre-painted galvanised sheet steel in accordance with standard UNE EN 10142. The panel is filled with expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs. Two panel formats are used, one with a height of 500 mm and the other with a height of 610 mm.

	U	ε	FIRE	WIND	ACOUSTICS
TEST DATA	W/m²˜ºK	W/m˜ºC	Reaction to fire classification UNE EN 13501-1	Wind resistance UNE EN 12424	Weighted sound reduction index RW(C9Ctr);b B UNE EN ISO 140-3 1995
GARAROP 500	0,82	0,023	B-S3,d0	4	26 (-2;-3)
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BARS. Made of tubes measuring 20 x 20 mm, 40 x 20 mm, 40 x 30 mm or 60 x 30 mm, galvanised, quality E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.

SPECIALS. Doors can be manufactured with special sheet enclosures on request (smooth sheet, sheet trays, perforated sheet, etc.). Please ask the sales department.

TRACKS

The tracks are made of UPN hot-rolled steel, 60 x 30 mm, 80 x 45 mm or 100 x 50 mm, quality S275 JR + M according to standard UNE EN 10025-2.

HINGES

Depending on the dimensions of the door, two different types of hinges are used:

SMALL DOORS. The hinges comprise three modules of pickled sheet with a thickness of 2.5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 8 mm. The entire assembly is galvanised.

LARGE DOORS. The hinges comprise four modules of pickled sheet with a thickness of 5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 12 mm. The entire assembly is galvanised.

LOCKING SYSTEM

Locking is via side latches or by using a lock on the outside that activates the side latches. The side latches have a bolt with a diameter of 12 or 18 mm.

HEADERS

Depending on the size of the door, two different types of header are used:

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COUNTERWEIGHTS

The counterweights are made of baryte. Their dimensions depend on the size of the door and the space to accommodate them.

PULLEYS

The pulleys are made of steel sheet with a thickness of 1.2, 2 or 4 mm, riveted and with a cupped self-lubricating rolling bearing. For large doors, turned iron pulleys are used.

SHEAVES

The sheaves are made of polyamide or steel depending on the dimensions and purpose of the door.

CABLES

The cables can have a thickness of 4, 5, 6 or 7 mm depending on the weight of the door. The composition is 6 x 19 x 1 mm and they comply with the standard DIN 3060.

The quality of this door is guaranteed based on tests performed in certified laboratories, in accordance with product standard UNE EN 13241-1 and both the manual and automatic versions carry the CE mark.
The parts used in the door and its finish will depend on its dimensions, the style chosen and the size of the opening. They will also depend on possible changes owing to improvements in production processes.

ROPER

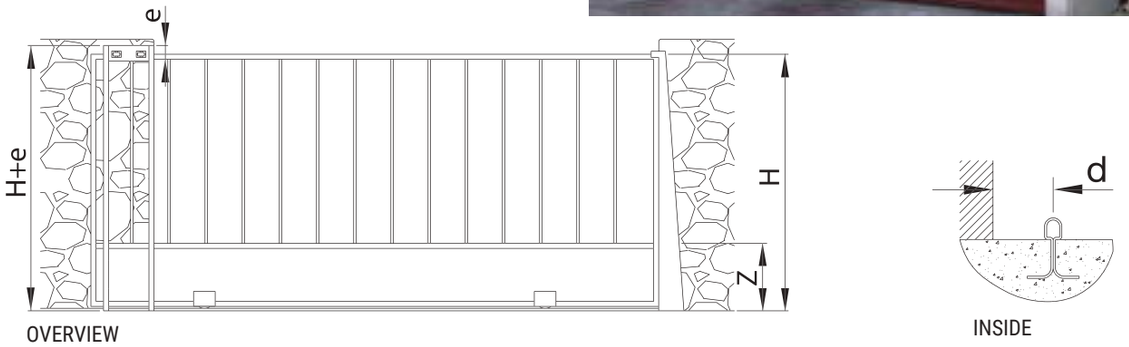
PUERTAS METÁLICAS

Residential Sliding Gate

THESE ARE THE GATES MOST COMMONLY USED AT ENTRANCES TO HOUSES AND APARTMENT BLOCKS. THEY FUNCTION BASED ON THE LEAF SLIDING SIDEWAYS ALONG A TRACK. THE LEAF IS HELD UPRIGHT BY A RIGID TUBULAR FRAME.

MANUAL AND AUTOMATIC VERSIONS OF THESE GATES ARE AVAILABLE, THE SECOND BEING THE MOST POPULAR CHOICE. THE AUTOMATION USES A SYSTEM BASED ON A METAL OR NYLON RACK-AND-PINION.

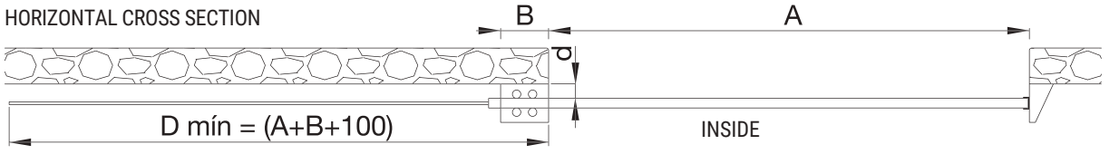
DETAILS



OVERVIEW

INSIDE

HORIZONTAL CROSS SECTION



ROPER

PUERTAS METÁLICAS

Swing Gate

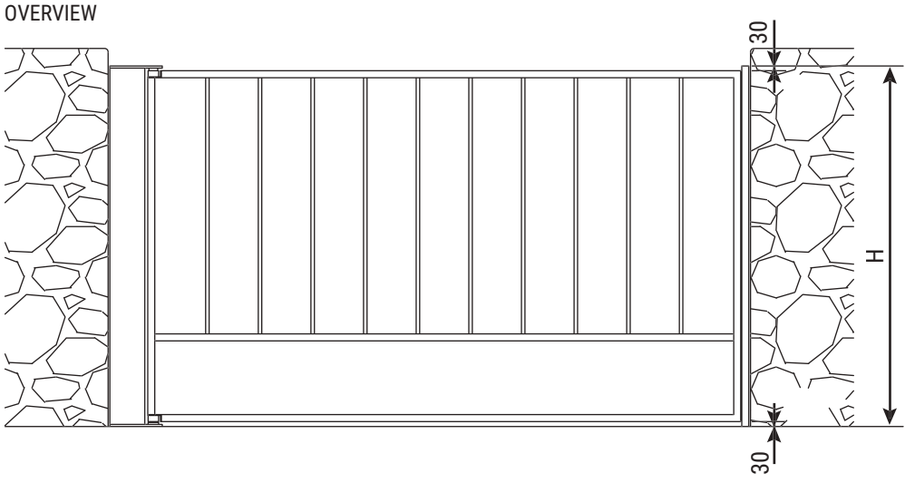
THE SWING GATE IS ANOTHER ENCLOSURE SOLUTION FOR HOUSES AND APARTMENT BLOCKS, FOR WHEN THERE IS INSUFFICIENT SPACE TO ENABLE A SLIDING LEAF TO MOVE SIDEWAYS. LIKE ALL ROPER INDUSTRIAL DOORS, MANUAL AND AUTOMATIC VERSIONS ARE AVAILABLE, WITH THE AUTOMATIC ONE BEING THE MOST POPULAR.

FEATURES

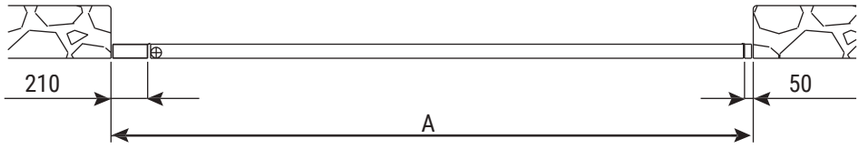
- Safety.
- Finishes tailored to the customer's preferences.
- The manual and automatic versions are both easy to open.

DETAILS

OVERVIEW



HORIZONTAL CROSS SECTION



ROPER

PUERTAS METÁLICAS

Pedestrian Gate

THE ROPER PEDESTRIAN GATE IS THE IDEAL SOLUTION FOR PEDESTRIAN ENTRANCES TO HOUSES AND RESIDENTIAL PROPERTIES. THEY ARE THE PERFECT ACCESSORY TO SLIDING AND SWING GATES.

SPECIFICATIONS

- Own production.
- Available opening inwards or outwards.

ROPER

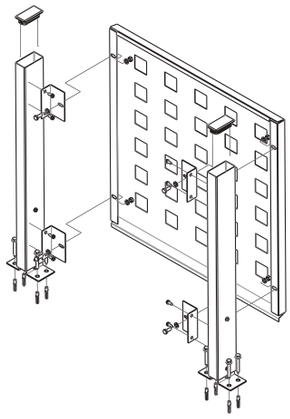
PUERTAS METÁLICAS

Property Enclosures

DESIGN, FINISH, QUALITY OF MATERIALS AND EASE OF INSTALLATION ALL MAKE ROPER PROPERTY ENCLOSURES A STAR PRODUCT IN OUR EXTENSIVE CATALOGUE. THE ENGINEERING AND TECHNOLOGY APPLIED TO MANUFACTURING ROPER ENCLOSURES HAVE LED US TO ACHIEVE EXCELLENT QUALITY AT A COMPETITIVE PRICE.

INNOVATION

Add a touch of elegance and design by installing a ROPER enclosure.



EASY INSTALLATION

The base of the tubular posts is perforated so it can be secured to the wall with fasteners. Adjustable fastening of the post to the tray means that installation is easy, even for non-specialists.

LONG LIFE

The trays are made of galvanised steel and designed with seamless joints to avoid water accumulation. This, combined with the use of top-quality materials and finishing in baked epoxy coating or Oxiron paint, guarantees the resistance and durability of the entire assembly.

The trays used to form the enclosure have been carefully designed to promote water drainage..

DESIGN

A wide variety of designs is available.

WE MANUFACTURE YOUR IDEAS

Ability to customise enclosures with your designs.

White RAL 9010

Oxyron

Brown RAL 8014

Option to choose the colour based on the RAL chart.

FINISH

There is a wide range of colours and textures to help you get the best finish for your enclosure.
The standard finish for the trays, posts and brackets is galvanised, though they can optionally be painted in any colour based on the RAL chart, also in Oxiron.

Trays (Fig. 1). Made of galvanised sheet steel, 1.5 mm thick, perforated with squares with a standard size of 50 x 50 mm, 25 x 25 mm or 20 x 20 mm (optionally, they can be perforated with custom designs) and folded. The trays are manufactured in different sizes. With heights from 450 to 1,600 mm, and widths from 600 to 2,400 mm.

Posts (Fig. 2). Made of galvanised-steel tubes, with a fixing plate at the bottom to secure the post to the wall. The cross section and measurements of the post will depend on its height.

Brackets (Fig. 3). The brackets used to connect the trays and posts are made of galvanised steel with a thickness of 2 mm, folded and punched for attachment to both elements.

Caps (Fig. 4). The top of the post is covered with a non-degradable, polypropylene cap that is resistant to atmospheric agents, to ensure the durability of the tubes.

Fig.1

Fig.2

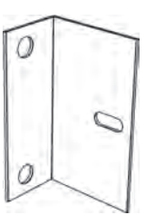


Fig.3

Fig.4

FASTENERS

The trays and brackets are joined using screws: DIN-933 M8 x 20 mm. The brackets and posts are joined using drill-tip screws: DIN-7504K 6.3 x 19 mm. The posts are secured to the supporting structure using DIN-571 coach screws measuring 8 x 60 mm.

AUTOMATION

ROPER

PUERTAS METÁLICAS

Automation and Controls

TECHNOLOGY, EASE-OF-USE AND SAFETY. AT ROPER, WE HAVE DEVELOPED A WIDE RANGE OF EXCLUSIVE AUTOMATION SYSTEMS THAT ADAPT TO THE MOVEMENT, DIMENSIONS AND USE OF EACH MODEL OF DOOR OR GATE. OUR EXTENSIVE EXPERIENCE IN DESIGNING AND MANUFACTURING AUTOMATIC DOORS, COMBINED WITH DEMANDING, CONTINUAL TESTS, MEANS WE CAN DELIVER A PRODUCT THAT IS BOTH RELIABLE AND SAFE

Our automation systems use state-of-the-art technology.

ROLLING CODE

For secure transmission. ROPER transmitters use an encrypted security system based on a changing algorithm. Each time they are activated, they emit a different code, which prevents the signal from being scanned.

ROPER 24V technology offers optimum performance with on-the-spot deceleration regulation during opening and closing.

All our automation systems are compatible with the ROPER Smart Door (RSD) system. The door can be activated from any mobile device.

CONTROL DINAMICO DE FUERZA

The propulsion needed for the door to function safely. The smart torque control system can detect obstacles in the path of the door.

OPERATORS

For the sectional door and single-leaf swing door

SPECIFICATIONS

	RS 10	RS 20	R 60 MAS	R 60 MAS INTEGRATED	R 120	R 800	R 1100	E 6029 E 6035
TRACTION FORCE (N)	400	550	650	650	1200	800	1100	600
MAXIMUM SPEED (mm/s)	130	130	180	180	130	130	130	120
NO. OF SAFETY INPUTS	2	2	2	2	2	3	3	2
TYPE OF USE	Semi - Intensive	Semi - Intensive	Semi - Intensive	Semi- Intensive	Intensive	Very Intensive	Intensive	Semi - Intensive
RSD-SYSTEM COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES

1. **HARDWARE.** Specially designed to adapt to Roper doors. It ensures the door moves smoothly throughout its entire range of movement.
2. Easy to unlock for emergency manoeuvres.
3. **REDUCER MOTOR.** Certified force limitation in accordance with standard EN 12445 via electronic control of the motor.
4. Independent speed regulation during opening and closing. Movement deceleration when starting up and stopping, which increases the useful life of the door.

OPERATORS

For swing gates

SPECIFICATIONS

	RB10	HR 2	RBH24
TRACTION FORCE (N)	1500	7793	3000
MAXIMUM SPEED (mm/s)	18"	28"	20"
NO. OF SAFETY INPUTS	4	3	4
TYPE OF USE	Intensive	Very Intensive	Very Intensive
RSD-SYSTEM COMPATIBLE	YES	YES	YES

1. Possibility of manual operation in the event of electrical power failure.
2. Wide range of movement. Opening up to 120º.
3. Designed for outdoor use. Sleek aluminium casing.

OPERATORS
For industrial doors

SPECIFICATIONS

	CC26	CC57	MN 25/ TF 25	MN 50/ TF 50	TF 75	100 TF/ 100 MN	100 TF VAR
MOTOR POWER (W)	26	56	180	370	550	370	550
MAX. DOOR SPEED (mm/s)	120	120	120	120	180 adjustable	370	220
Nº OF SAFETY INPUTS	3	2	5	5	3	3	3
RSD SYSTEM COMPATIBLE	YES	YES	YES	YES	YES	YES	YES
SMOOTH START/STOP	YES	YES	NO	NO	YES	NO	YES

1. Designed to adapt seamlessly to our doors.
2. Robust mechanics.
   Withstands the most demanding conditions of use.
3. Different motorisation models make it possible to automate everything from residential doors used for houses, to large doors used on aviation hangars.

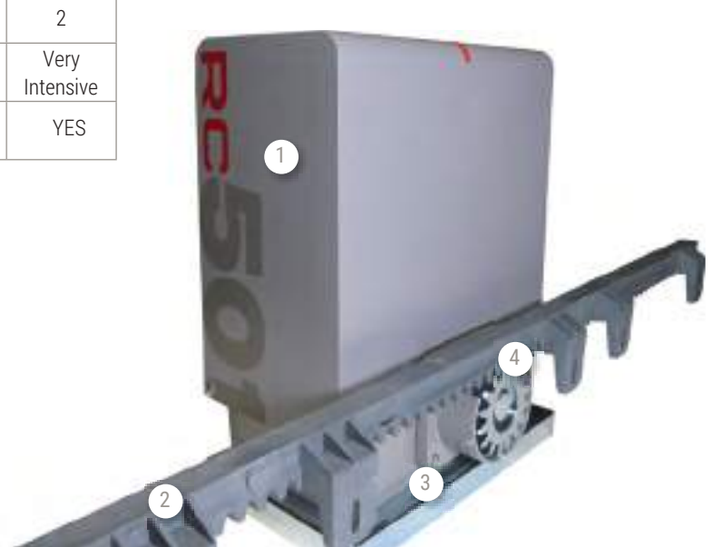
4. The casing of all our control panels is designed for indoor and outdoor use.
5. There are numerous programming possibilities, which means door functioning can be adapted to each user's needs.
6. Exclusive electronics for compliance with the main Spanish and international standards.
7. Supports connection to all types of security system.
   - Photocells.
   - Optical, resistive and mechanical safety edges.
   - Safe for pedestrian gates.

OPERATORS
For sliding gates

SPECIFICATIONS

	RC401	RC 501	RC1001	RC1600	RC2500
TRACTION FORCE (N)	400	600	1000	1000	1660
MAXIMUM SPEED (mm/s)	200	200	200	250	260
NO. OF SAFETY INPUTS	3	3	3	2	2
TYPE OF USE	Semi - Intensive	Intensive	Intensive	Very Intensive	Very Intensive
RSD-SYSTEM COMPATIBLE	YES	YES	YES	YES	YES

1. Casing designed for outdoor use.
2. Precise, safe movement.
   Trajectory regulation via encoder.
   Adjustable speed.
   Slow start-up and stop, which prolongs the life of the gate.
3. The gate sits high, to avoid damp problems.
4. Metal drive pinion. High resistance to wear and tear.



Barriers

Wide range of barriers to cover openings from 3 to 12 m. They prevent unauthorised vehicles from entering parking areas in just a few seconds.

SPECIFICATIONS

- Steel casing with surface treatment.
- Also available in stainless steel.
- Easy unlocking to allow manual operation, for instance, in the event of a power cut.
- Numerous accessories make them ideal for any context.
- Lightweight, durable aluminium arm.
- Option to include a 90° joint for barriers positioned under cover.

Safety accessories

Safety is one of the strengths of ROPER doors. We offer a full range of elements to ensure that the movement of our doors is always safe, for people and vehicles. These include photocells, safety edges and acoustic and visual signals.

Safety and ease-of-use

Control devices let users open and close automatic doors. All of our control accessories are designed for ease-of-use and safety. They are all compatible with the full range of ROPER automation systems.
To achieve this, we use the most advanced technologies and perform numerous tests, which means we can ensure that all our products meet our demanding quality parameters. In our extensive catalogue, you will find the ideal control device for your door, from a simple wall-mounted push-button, to complex access-control systems.

TRANSMITTERS

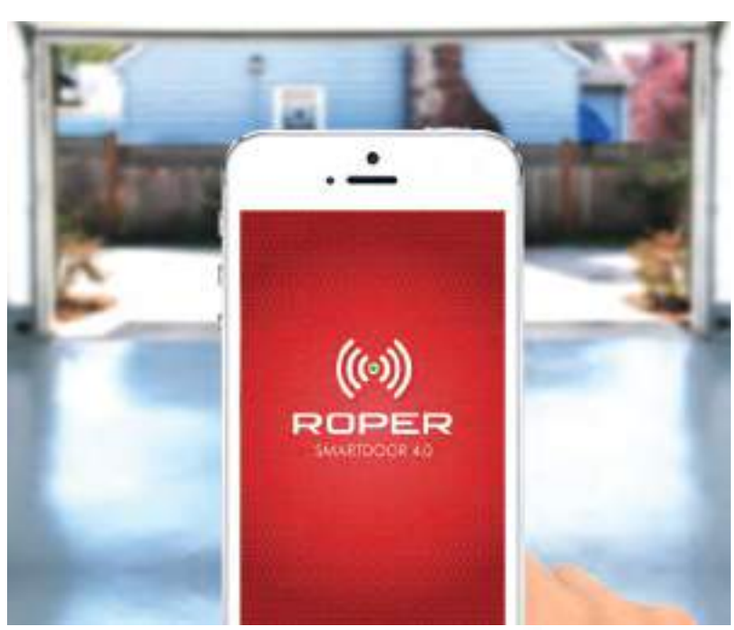
• A light indicates operations and low battery.
• APS: this system makes it possible to activate the transmitter button even when the user is out of range of the receiver. The transmitter will repeatedly transmit the signal while the user is approaching their garage door until the door is opened.
• Rolling code: each time the control is pressed, a different code is sent. This system of changing codes, with more than 19 trillion combinations, prevents intruders from scanning your code.

BIOMETRIC TRANSMITTER

For installation on the door or wall to offer maximum security, reliability and ease-of-use.
With capacity to store up to 15 fingerprints, it can be set up so that a single finger swipe on the reader will open the programmed doors.

ROPER SMART DOOR (RSD) SYSTEM

This solution uses Bluetooth Low Energy technology, which allows immediate, high-security opening from mobile devices. It can be installed to work in combination with other classic opening systems that use remote control.
No type of mobile cover is required to open the door, and an operating range of 10 m from inside the vehicle is guaranteed.



DISPONIBLE EN Google Play

Consíguelo en el App Store

RSD ROPER SMART DOOR

INDUSTRIAL CONSTRUCTIONS

ROPER

PUERTAS METÁLICAS

Industrial Bi-Fold Overhead Door

THE INDUSTRIAL BI-FOLD OVERHEAD DOOR IS THE MOST WIDELY USED IN INDUSTRIAL BUILDINGS (WAREHOUSES, FACTORIES, ETC). IT IS OPERATED BASED ON TWO LEAVES THAT FOLD WHEN IT IS OPENED. THEY ARE CONTROLLED AT ALL TIMES BY COUNTERWEIGHTS.
THE DOOR CAN BE MANUFACTURED WITH A COUNTERWEIGHT ON ONE OR BOTH SIDES. AS WITH THE REST OF THE INDUSTRIAL RANGE, THIS TYPE OF DOOR CAN BE MANUFACTURED WITH MANUAL OR AUTOMATIC OPENING.

FEATURES

- Functionality due to simple manoeuvrability and smooth movement.
- Robustness as a result of the compact structure.
- Wide range of automation systems.
- Easy to use, with the option to automate the door and adapt it to any type of use.
- Durability. Doors installed 45 years ago are still working as well as on day one.
- Design.
- Finishes.
- Adaptation to all opening measurements.
- Safety.

DETAILS

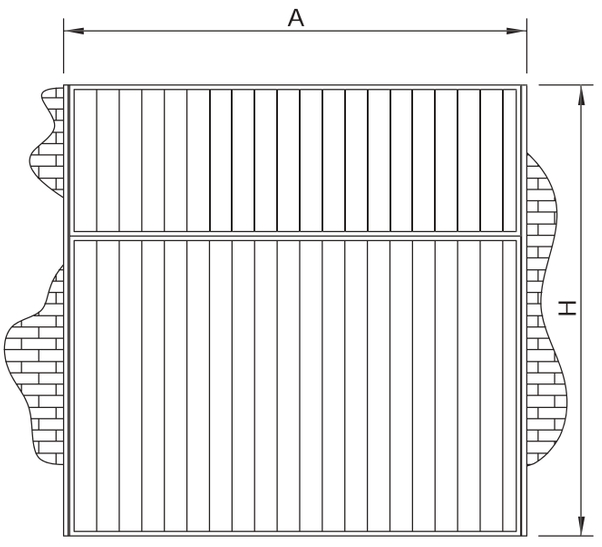


FIGURE 1
Overview of the industrial bi-fold overhead door.

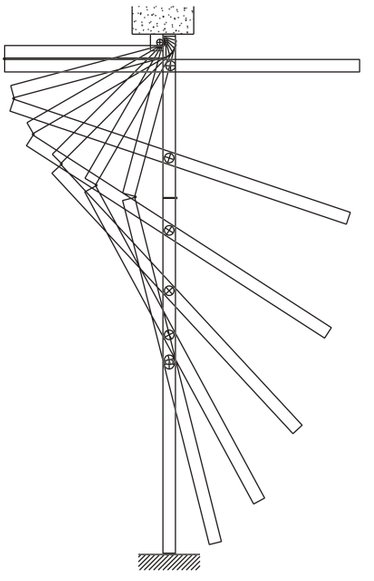


FIGURE 2
Detail of the opening of the industrial bi-fold overhead door.

COUNTERWEIGHTS

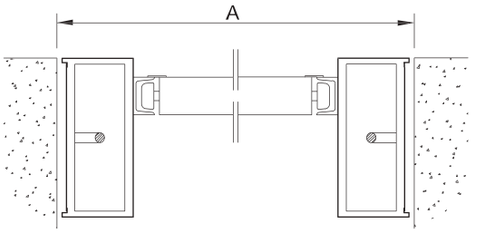


FIGURE 3
Detail of the layout of the industrial bi-fold overhead door.

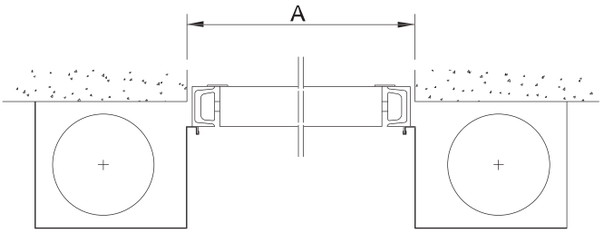


FIGURE 4
Detail of the layout of the industrial bi-fold overhead door with side units with hidden counterweights, protected by panelling.

Leaf

TUBES

The frame is manufactured with a cold-rolled tube and braced on the inside with tubular reinforcements to prevent it buckling and to improve wind resistance.

The tubes used to manufacture this type of door are:

GALVANISED. Tubes measuring 60 x 30 mm, 80 x 40 mm or 100 x 40 mm, quality E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.

LEAF ENCLOSURE

The ROPER industrial bi-fold overhead door is manufactured with three different types of leaf enclosure:

SHEET. The sheets are made of pre-painted steel skelp, DX51, in accordance with standard UNE EN 10142, of medium thickness, 0.55 mm, without peelable film, corrugated in modules of 200 mm, hung vertically or horizontally, compression mounted and welded to the frame around the leaf.

ROPER SANDWICH PANEL. Panel with a thickness of 40 mm. Manufactured in pre-painted galvanised sheet steel in accordance with standard UNE EN 10142.

The panel is filled with expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs. Two panel formats are used, one with a height of 500 mm and the other with a height of 610 mm.

	U	ε	FIRE	WIND	ACOUSTICS
TEST DATA	W/m²˜ºK	W/m˜ºC	**Reaction to fire classification** UNE EN 13501-1	**Wind resistance** UNE EN 12424	Weighted sound-reduction index RW(C9Ctr);b B UNE EN ISO 140-3 1995
GARAROP 500	0,82	0,023	B-S3,d0	4	26 (-2;-3)
GARAROP 610	0,80				
INDUROP 500	0,82				
INDUROP 610	0,80				

BARS. Made of galvanised tubes measuring 20 x 20 mm, 40 x 20 mm, 40 x 30 mm or 60 x 30 mm, quality E-220 + Z-275-NAC in accordance with standard UNE EN 10305-5.

TRACKS

The tracks are made of UPN hot-rolled steel, 60 x 30 mm, 80 x 45 mm or 100 x 50 mm, quality S275 JR + M according to standard UNE EN 10025-2.

HINGES

Depending on the dimensions of the door, two different types of hinges are used:

SMALL DOORS. The hinges comprise three modules of pickled sheet with a thickness of 2.5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 8 mm. The entire assembly is galvanised.

LARGE DOORS. The hinges comprise four modules of pickled sheet with a thickness of 5 mm, die cast in a spiral shape with a calibrated pin with a diameter of 12 mm. The entire assembly is galvanised.

LOCKING SYSTEM

Locking is via side latches or by using a lock on the outside that activates the side latches. The side latches have a bolt with a diameter of 12 or 18 mm.

HEADERS

Depending on the size of the door, two different types of header are used:

SMALL DOORS. They comprise a steel rim with a thickness of 6 mm and industrial weather stripping with a diameter of 16 mm.

LARGE DOORS. They comprise a steel rim with a thickness of 8 mm and industrial weather stripping with a diameter of 25 mm.

COUNTERWEIGHTS

The counterweights are made of baryte. Their dimensions depend on the size of the door and the space to accommodate them.

PULLEYS

Pulleys are made of steel sheet with a thickness of 1, 2 or 4 mm, riveted and with a cupped self-lubricating rolling bearing. For large doors, turned iron pulleys are used.

SHEAVES

The sheaves are made of polyamide or steel depending on the dimensions and purpose of the door.

CABLES

The cables can have a thickness of 4, 5, 6 or 7 mm depending on the weight of the door. The composition is 6 x 19 x 1 mm and they comply with standard DIN 3060.

The quality of this door is guaranteed based on tests performed in certified laboratories, in accordance with product standard UNE EN 13241-1 and both the manual and automatic versions carry the CE mark.
The parts used in the door and its finish will depend on its dimensions, the style chosen and the size of the opening. They will also depend on possible changes owing to improvements in production processes.

ROPER

PUERTAS METÁLICAS

Industrial Vertical Sliding Door

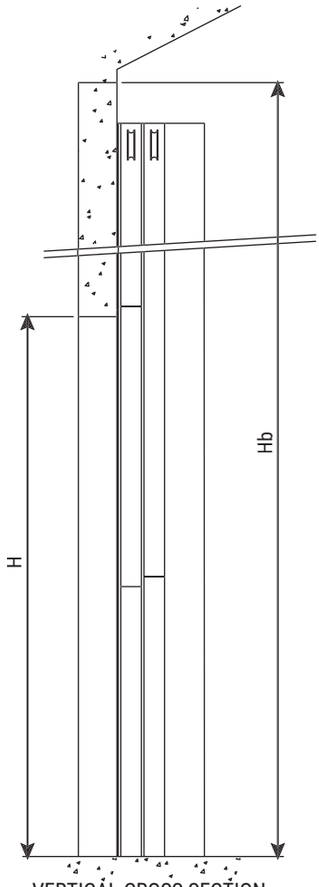
THIS DOOR HAS LEAVES THAT RISE VERTICALLY THROUGH THE ACTION OF COUNTERWEIGHTS, WITH ONE LEAF BEING ACCOMMODATED BEHIND THE OTHER. IT IS THE BEST SOLUTION TO CLOSE LARGE OPENINGS. IT MAY CONSIST OF ONE OR SEVERAL LEAVES, AND EMPTY SPACE ABOVE THE OPENING IS NEEDED TO ACCOMMODATE THEM. OWING TO THE WAY THIS DOOR WORKS, IT ALLOWS THE USER TO TAKE ADVANTAGE OF THE ENTIRE HEIGHT AND WIDTH OF THE OPENING, PROVIDED THERE IS SUFFICIENT SPACE TO FULLY HIDE THE LEAVES BEHIND THE LINTEL.

INDUSTRIAL VERTICAL SLIDING DOOR

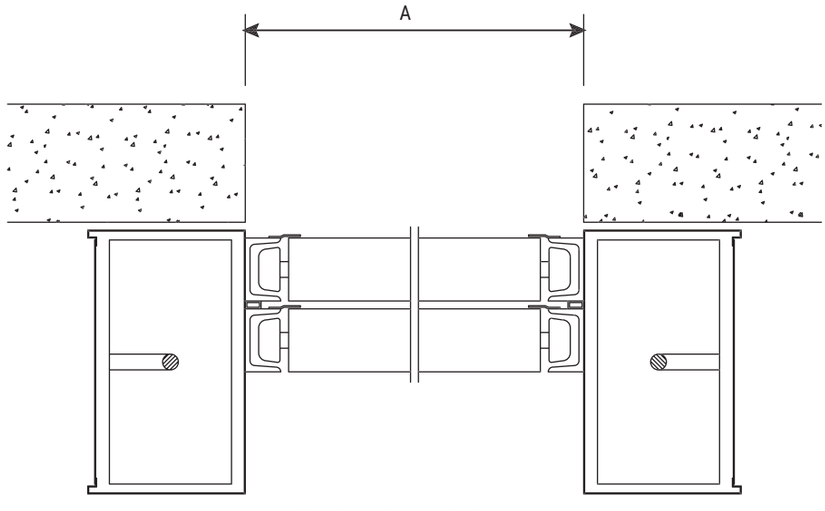
One of the best features is the selector mechanism, which makes it possible to position the lower leaf as if it were closed, while the other leaves are accommodated behind the lintel (open), which makes it possible to close the unit while letting light and air in from outside.
All the doors have a safety system that prevents the leaves from falling, should a cable break.

CROSS SECTIONS

Double-Leaf Vertical Sliding Door



VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION

ROPER

PUERTAS METÁLICAS

Industrial Sectional Door

THE ROPER RANGE OF SECTIONAL DOORS PROVIDES THE MOST-DEMANDING CUSTOMERS AND MODERN ARCHITECTS WITH THE DOOR THEY SEEK. THROUGH CAREFULLY SELECTED MATERIALS AND METICULOUS MANUFACTURING PROCESSES, WE HAVE ACHIEVED A FINISH THAT IS HIGHLY VALUED AMONG OUR CUSTOMERS IN THEIR SEARCH FOR THE BALANCE BETWEEN RESISTANCE, DURABILITY AND AESTHETICS THAT ALL INDUSTRIAL INSTALLATIONS REQUIRE. BEFORE ORDERING ANY OTHER MODEL, MAKE SURE YOU GET A QUOTE FOR A ROPER INDUSTRIAL SECTIONAL DOOR.

The sectional door is opened through the action of one or more springs that are positioned above the door, either behind the lintel in the wall or, if that is not possible, behind a metal lintel. Owing to our studied system, we have achieved smooth rolling that makes the ROPER sectional door very easy to operate.

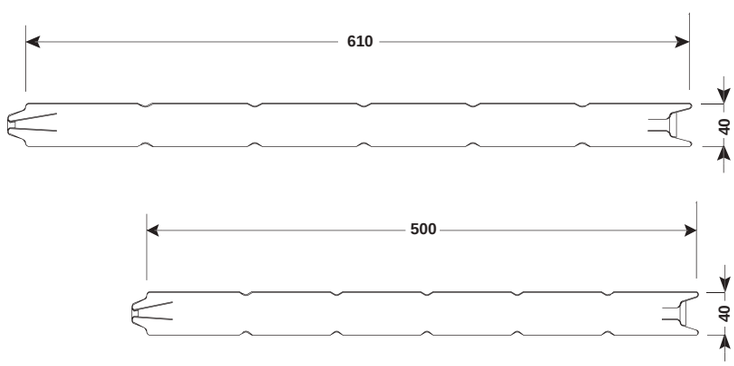
CERTIFICATION

Our industrial sectional doors have been tested in laboratories that are certified in accordance with product standard UNE EN 13241-1, and both the manual and automatic versions carry the CE mark.

ENCLOSURE

The industrial sectional doors are made of sandwich panels manufactured by ROPER: panels for an industrial model. These panels comprise two sheets of painted, galvanised steel, and they are filled with polyurethane foam with an average density of 40 kg/m3. The result is highly robust panels that offer excellent thermal and acoustic insulation. These panels can be optionally combined with glazed aluminium slats.

Cross section of Roper Indurop/ Eurolines panel

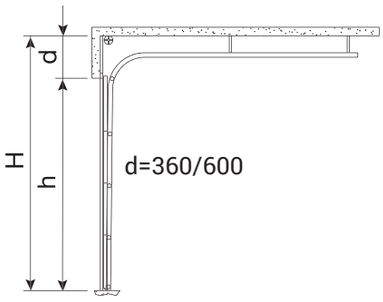


Through its highly qualified technical department, ROPER ensures that each door receives customised treatment. This means we can take on any project, regardless of its size or difficulty.

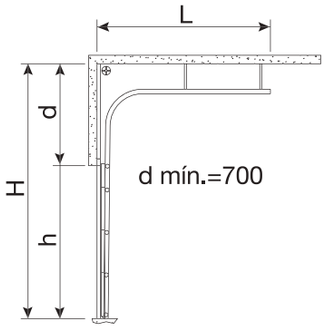
SYSTEMS

With the different solutions provided by our standard, semi-vertical-sliding, and vertical-sliding industrial sectional doors, combined with the option of adapting the ceiling, we achieve excellent aesthetics and functionality. To make the door even more user friendly, our system allows for installation of a wicket gate for pedestrian access, if needed. What is more, opening of the door can be automated, so it can be opened from a control panel or using a remote control.

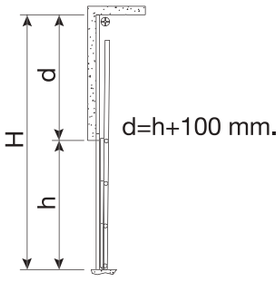
DETAILS



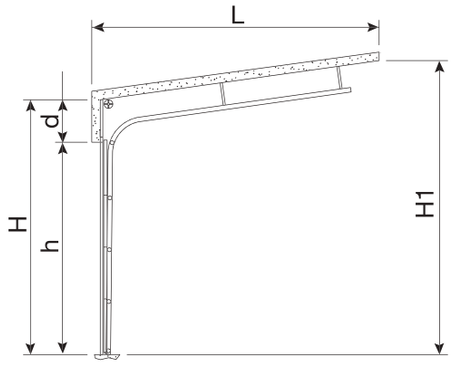
Standard opening.



Semi-vertical-sliding opening.



Vertical-sliding opening.



Adaptation to ceiling.

SAFETY SYSTEMS

Because your safety comes first, ROPER will adapt the safety device to your door, based on its model and dimensions, just in case the cable or spring should accidentally get broken.

Safety system against spring breaking.

Safety system against cable breaking.

OPTIONS

If necessary, light or ventilation can be improved in the unit using the different options that ROPER offers.

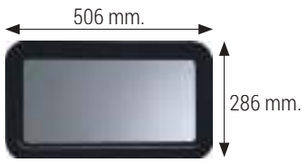
Aluminium slat with methacrylate window.

PVC grille.
Dimensions: 426 x 70 mm.
Ventilation: 0,0182 m².

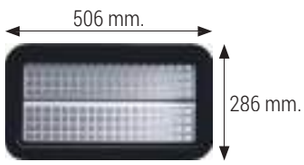
Aluminium slat with grille.

Aluminium slat with micro-perforated sheet.

Methacrylate window.
Dimensions: 550 x 245 mm.



Methacrylate window.
Dimensions: 420 x 200 mm.

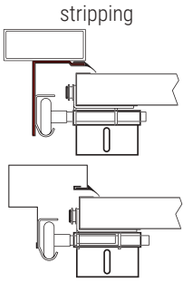


Perforated sheet window.
Dimensions: 402 x 193 mm.
Ventilation: 0,0342 m².

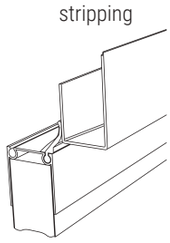
BURLETES

The edges of sectional doors include different types of rubber profile that provide better sealing for the door, to keep out air and dust.

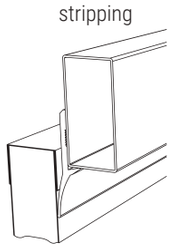
Side weather stripping



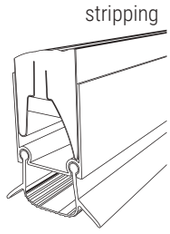
Top weather stripping



Top weather stripping



Bottom weather stripping



Unless otherwise stated, all Sectional Doors are delivered in white. If you would like a different colour, please contact our sales department.

ROPER

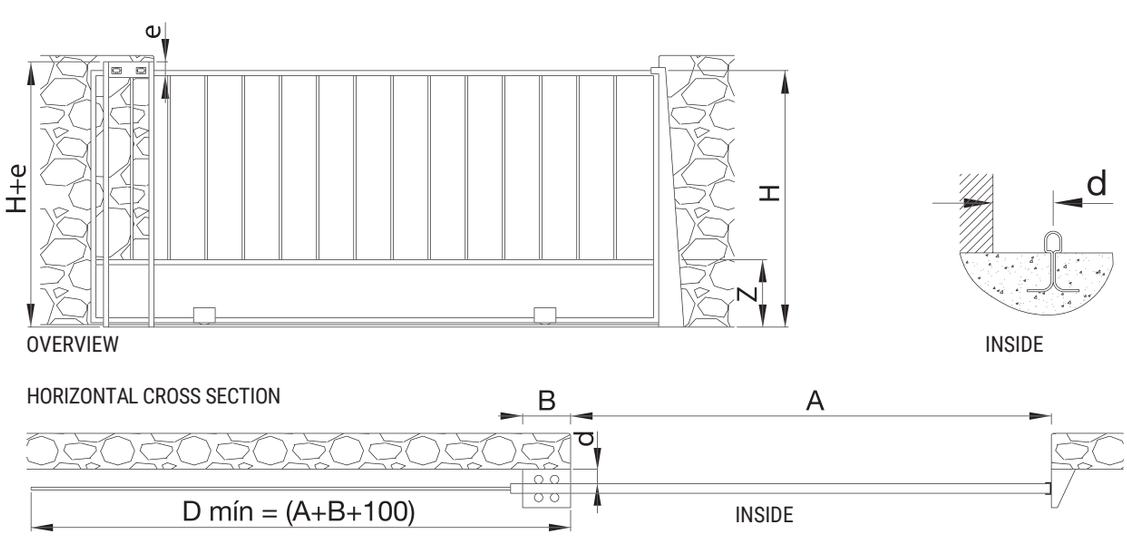
PUERTAS METÁLICAS

Sliding Industrial Gate

THESE ARE THE MOST POPULAR GATES FOR INDUSTRIAL PRECINCTS. THEY FUNCTION BASED ON THE LEAF SLIDING SIDEWAYS ALONG A TRACK. THE LEAF IS HELD UPRIGHT BY A TUBULAR RIGID FRAME. THESE GATES CAN BE OPERATED MANUALLY OR AUTOMATICALLY, THE LATTER BEING THE MOST POPULAR CHOICE. THE AUTOMATION IS BASED ON A RACK-AND-PINION SYSTEM.

Our sliding gates are the ideal solution to close off any industrial space. They make it possible to span any area of passage, regardless of the size, which means the required width of the precinct entrance can be used. The only requirement is to have sufficient space behind the enclosure for the gate to slide behind it.
Like all ROPER industrial doors, manual and automatic versions are available, with the automatic one being the easiest and safest to use.

DETAILS



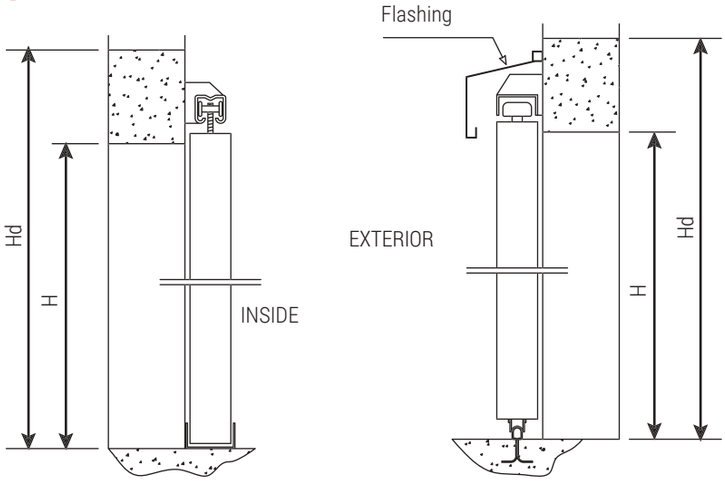
ROPER

PUERTAS METÁLICAS

Industrial Sliding Door

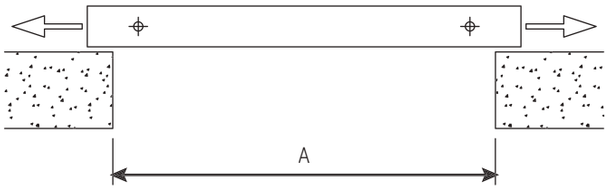
THIS DOOR CONSISTS OF ONE OR MORE LEAVES THAT SLIDE OUT SIDEWAYS, TO ONE OR BOTH SIDES. AS WITH VERTICAL SLIDING DOORS, YOU CAN LEAVE THE ENTIRE BUILT OPENING CLEAR, AS LONG AS THERE IS SUFFICIENT SPACE TO ACCOMMODATE THE OPEN LEAVES.
THEY CAN BE HUNG OR SUPPORTED, AND CAN BE POSITIONED INSIDE OR OUTSIDE THE OPENING, THOUGH FOR THIS LAST OPTION, IT WOULD BE ADVISABLE TO INSTALL FLASHING. AS WITH ALL INDUSTRIAL DOORS, SLIDING DOORS ARE AVAILABLE WITH MANUAL OR AUTOMATIC OPERATION.

OPTIONS



VERTICAL CROSS SECTIONS

SLIDING



HORIZONTAL CROSS SECTION

ROPER

PUERTAS METÁLICAS

Loading-dock Equipment

AT ROPER, WE DESIGN AND MANUFACTURE ALL THE EQUIPMENT A LOGISTICS CENTRE NEEDS (INCLUDING DOCK LEVELLERS, SECTIONAL DOORS, DOCK SHELTERS AND WHEEL GUIDES). THIS MEANS THAT THE CUSTOMER HAS THE ADVANTAGE OF BEING ABLE TO CENTRALISE ALL THEIR PURCHASES WITH A SINGLE SUPPLIER. AS A RESULT, THEY CAN ENSURE THAT ALL THE COMPONENTS OF THE LOADING DOCK FIT TOGETHER CORRECTLY, FOR FAST LOADING AND UNLOADING OF GOODS.

SINCE WE ALSO MANUFACTURE SANDWICH PANELS AND SECTIONAL DOORS, WE OFFER OUR CUSTOMERS FLEXIBLE SOLUTIONS THAT CAN BE ADAPTED TO THE SPECIFICS OF EVERY PROJECT, WHILE MAINTAINING THE MOST COMPETITIVE QUALITY-PRICE RELATIONSHIP.

ROPER DOCK LEVELLERS GUARANTEE A COST REDUCTION AS A RESULT OF THEIR FAST INSTALLATION AND THE LOW MAINTENANCE THEY REQUIRE. THEIR DEMANDING MANUFACTURING PROCESS MAKES USE OF CUTTING-EDGE ROBOTICS TECHNOLOGY AND PROVEN MATERIALS. ALL THE ELEMENTS THAT ENSURE THEY ARE SAFE AND EASY TO USE ARE ALSO INCLUDED, WHICH MEANS OUR DOCK LEVELLERS ARE THE MOST RELIABLE ON THE MARKET FOR THE DEMANDING, INTENSIVE WORK INVOLVED IN LOADING-DOCK MANOEUVRES.

FINISH

We care about every detail because the little things are what make a project great. When a company uses its corporate colours in any details, it distinguishes and highlights the value of its brand.

If your project needs a specific colour, we are specialists.

RAL 7024

RAL COLOURS

GALVANISED

HYDRAULIC DOCK LEVELLER

The hydraulic dock leveller with swing lip makes it possible to perform loading and unloading operations, by resolving level differences between the platform and vehicle, and achieving correct alignment. The manufacturing process is entirely automated and materials of the highest quality are used, to guarantee that the leveller will be durable and robust in any environment.

Its design includes essential safety components, such as a strut for use during maintenance work, sliding toe guards on the sides, high-visibility side markings and anti-drop valves incorporated into the cylinders. What is more, for easy installation, it is equipped with lifting lugs and levelling screws.

The leveller has two types of hydraulic power unit: single-phase and three-phase.

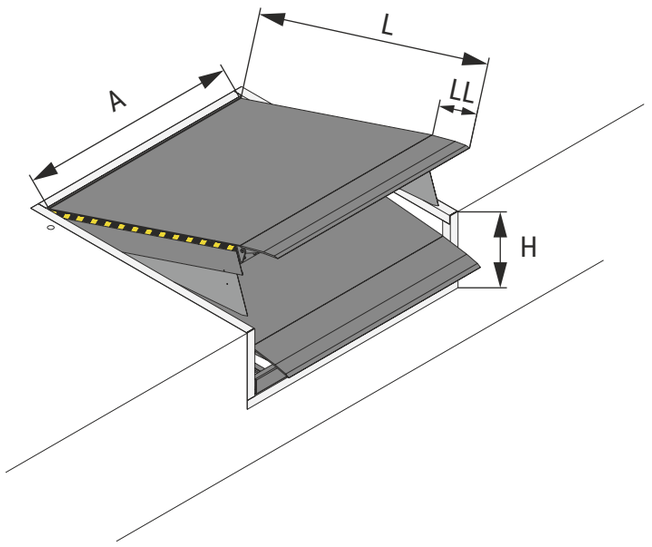
Our hydraulic dock leveller is very easy to operate. By pressing a button, the operator starts the hydraulic motor, which raises the dock to its highest position and deploys the lip. The lip can then be lowered onto the vehicle ready for loading and unloading to take place.

The dock leveller can absorb the fluctuations in the height of the lorry container that arise during loading and unloading.

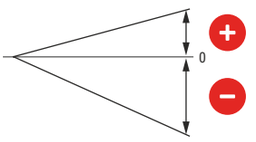
SPECIFICATIONS

LOAD CAPACITY	LENGTH	WIDTH
6000 kg	**2000-3000 mm**	**1830-2000 mm**

DIMENSIONS



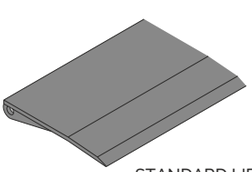
A: Width
L: Length
LL: Lip
H: Height



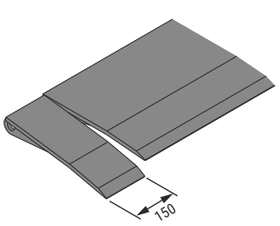
Admissible range for positive and negative slope.
Max. recommended slope 12.5%.

MODEL	RNH6.8	RNH20	RNH25	RNH30
A: Width	1830 mm.	2000 mm.	2000 mm.	2000 mm.
L: Length	2480 mm.	2000 mm.	2500 mm.	3000 mm.
LL: Lip	375 mm.	400 mm.	400 mm.	400 mm.
H: Height	495 mm.	610 mm.	610 mm.	610 mm.
Range +	655 mm.	635 mm.	732 mm.	680 mm.
Range -	215 mm.	302 mm.	290 mm.	280 mm.

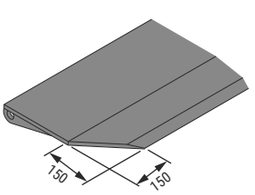
TYPES OF LIP



STANDARD LIP.



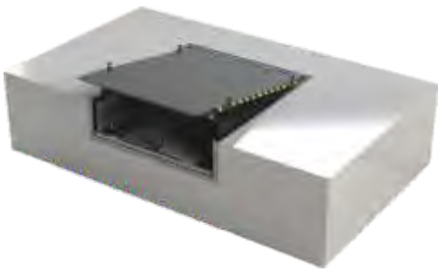
SEGMENTED LIP.
Allows alignment with different sizes of lorry and van.



TAPERED LIP.
Allows alignment with different sizes of lorry and van.

MECHANICAL DOCK LEVELLER

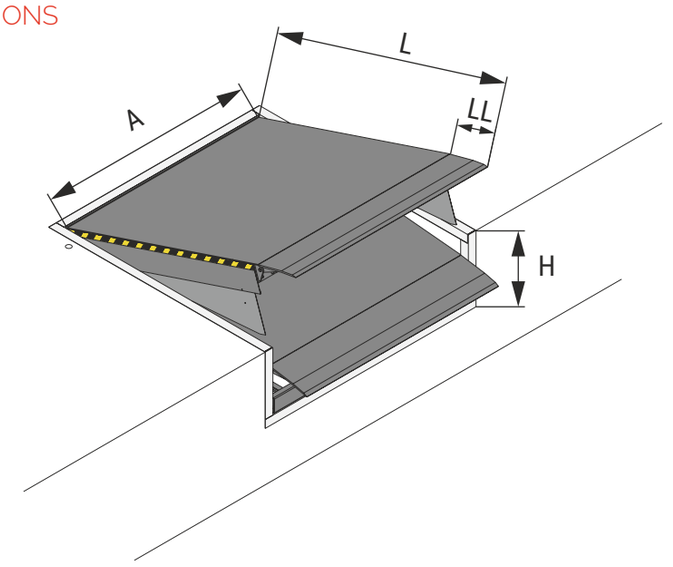
The mechanical dock leveller is a solution for locations where an electrical connection is unavailable. The mechanical mechanism is manually activated by a chain connected to a hinged device with springs that raise the platform and deploy the lip ready for loading and unloading to take place.
Like its counterpart, the hydraulic dock leveller, it comes with all the essential safety components, such as a strut for use during maintenance work, sliding toe guards on the sides and high-visibility side markings. What is more, for easy installation, it is equipped with lifting lugs and levelling screws.



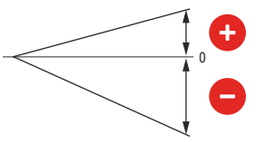
SPECIFICATIONS

LOAD CAPACITY	LENGTH	WIDTH
6000 kg	**1867-3092 mm**	**1830-2000 mm**

DIMENSIONS



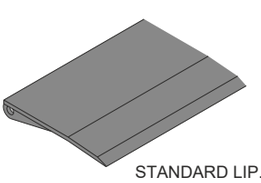
A: Width
L: Length
LL: Lip
H: Height



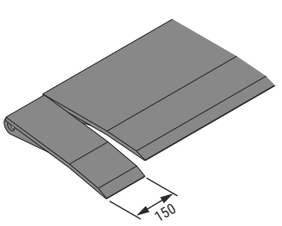
Admissible range for positive and negative slope.
Max. recommended slope 12.5%.

MODEL	RNM6.6	RNM6.8	RNM6.10	RNM65.6	RNH65.8	RNH65.10
A: Width	1830 mm.	1830 mm.	1830 mm.	2000 mm.	2000 mm.	2000 mm.
L: Length	1867 mm.	2476 mm.	3092 mm.	1867 mm.	2476 mm.	3092 mm.
LL: Lip	375 mm.	375 mm.	375 mm.	375 mm.	375 mm.	375 mm.
H: Height	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.
Range +	660 mm.	660 mm.	660 mm.	660 mm.	660 mm.	660 mm.
Range -	214 mm.	214 mm.	214 mm.	214 mm.	214 mm.	214 mm.

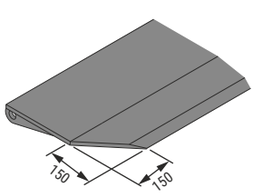
TYPES OF LIP



STANDARD LIP.



SEGMENTED LIP.
Allows alignment with different sizes of lorry and van.



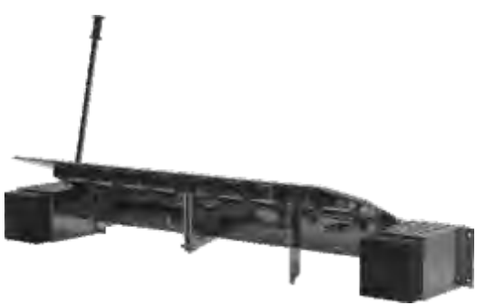
TAPERED LIP.
Allows alignment with different sizes of lorry and van.

MINI
DOCK LEVELLER

The mini-leveller is a low-cost alternative to installing a dock leveller. There is no need to dig a pit and it has a quick and easy installation system, which involves mounting it on the wall of the loading dock.

It is easy to use, based on a manual mechanism operated by a single person.

It is manufactured in anti-slip sheet metal and produced in accordance with the standard UNE-EN 1398, which guarantees that the mini-leveller is safe for loading and unloading operations.

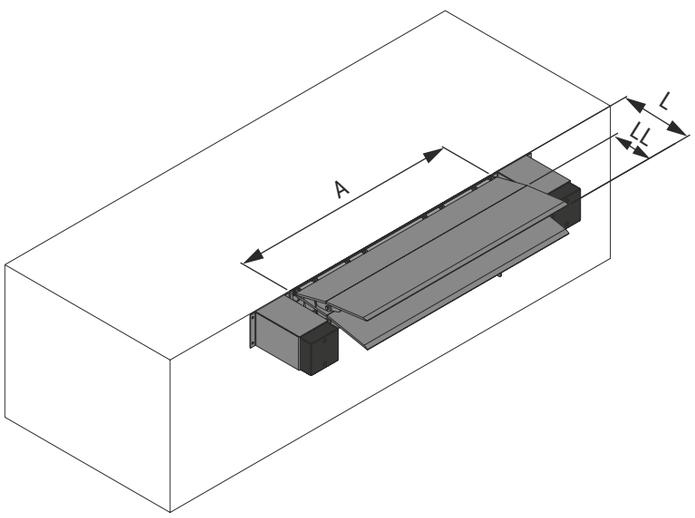


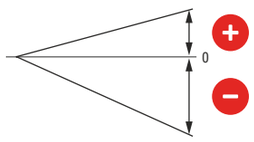
SPECIFICATIONS

LOAD CAPACITY	LENGTH	WIDTH
6000 kg	**660 mm**	**1830-2000 mm**

DIMENSIONS

A: Width
L: Length
LL: Lip
H: Height

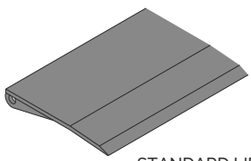




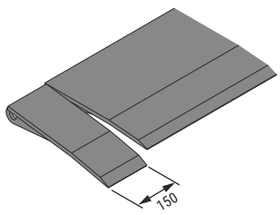
Admissible range for positive and negative slope.
Max. recommended slope 12.5%.

MODEL	RNMD6	RNMD20
A: Width	1830 mm.	2000 mm.
L: Length	660 mm.	660 mm.
LL: Lip	375 mm.	375 mm.
H: Height	425 mm.	425 mm.
Range +	130 mm.	130 mm.
Range -	130 mm.	130 mm.

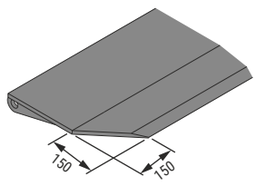
TYPES OF LIP



STANDARD LIP.



SEGMENTED LIP.
Allows alignment with different sizes of lorry and van.



TAPERED LIP.
Allows alignment with different sizes of lorry and van.

INSTALLING THE DOCK LEVELLER ON A SUBFRAME

To install the dock leveller on a subframe, a perimeter subframe must be installed during the works to build the pit.

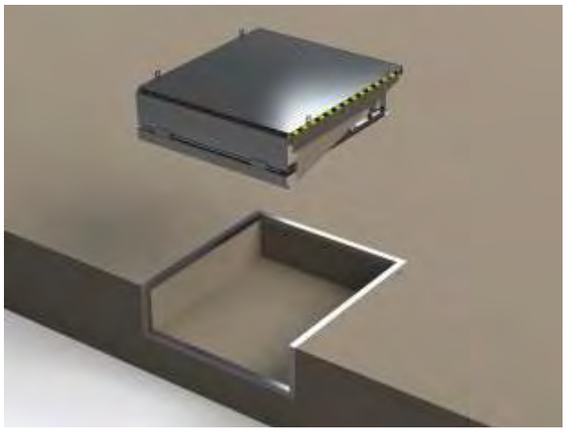
Once the pit has been constructed, the dock leveller is installed and attached to the subframe via weld beads.

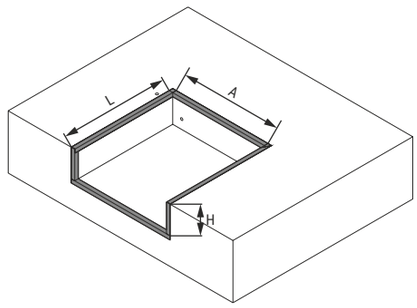
The greatest advantage of this system lies in the speed and ease of replacing a dock leveller with a similar one. It is the best option for renovating the loading space.

We offer two different types of subframe: one for a pit without a tailgate opening, and a reinforced subframe for constructing a pit with a tailgate opening, which will make it possible to protect the tailgates that some vehicles carry on the back.

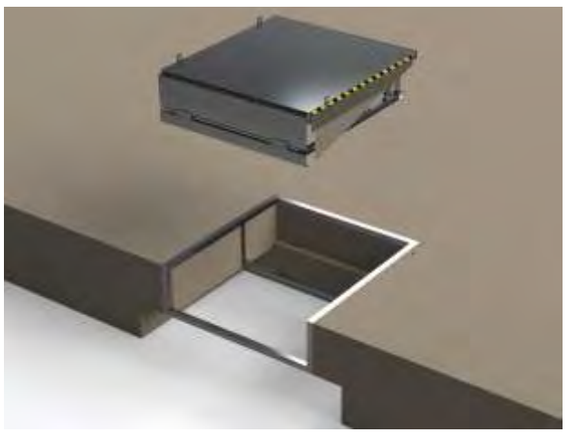
MODEL	HYDRAULIC				MECHANICAL					
	RNH20	RNH25	RNH30	RNH6.8	RNM6.6	RNM6.8	RNM6.10	RNM65.6	RNM65.8	RNM65.10
A: Width	2040 mm.	2040 mm.	2040 mm.	1880 mm.	1880 mm.	1880 mm.	1880 mm.	2050 mm.	2050 mm.	2050 mm.
L: Length	1680 mm.	2180 mm.	2680 mm.	2165 mm.	1555 mm.	2165 mm.	2775 mm.	1555 mm.	2165 mm.	2775 mm.
H: Height	610 mm.	610 mm.	610 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.

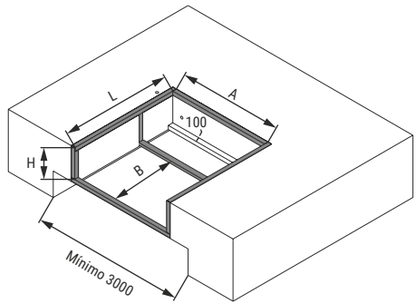
SUBFRAME WITHOUT TAILGATE OPENING





SUBFRAME WITH TAILGATE OPENING





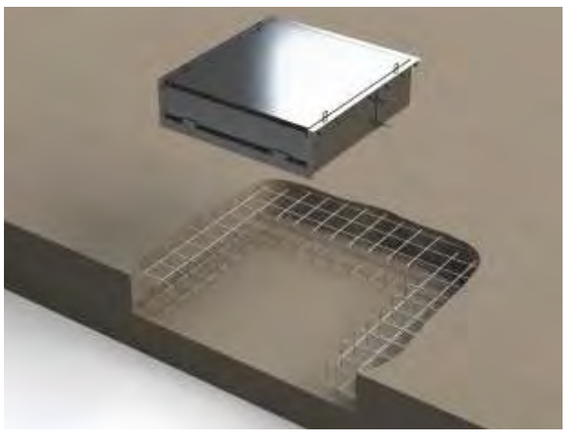
INSTALLING THE DOCK LEVELLER WITH FORMWORK FRAME

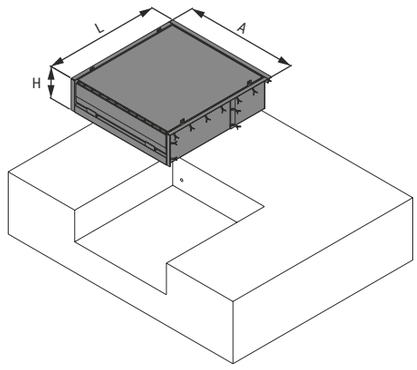
Dock levellers with formwork frames do not require pre-installation of a subframe to enable them to be installed in the pit. The frame is equipped with a subframe and is used as part of the formwork. This means the dock leveller can be installed in a single phase, which assists and speeds up the building work.

Its design means that the dock leveller can be used in a pit with or without a tailgate opening.

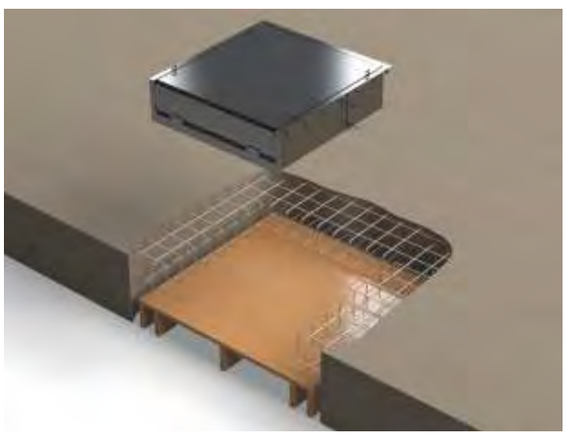
MODEL	HYDRAULIC				MECHANICAL					
	RNH20	RNH25	RNH30	RNH6.8	RNM6.6	RNM6.8	RNM6.10	RNM65.6	RNM65.8	RNM65.10
A: Width	2200 mm.	2200 mm.	2200 mm.	2030 mm.	2030 mm.	2030 mm.	2030 mm.	2200 mm.	2200 mm.	2200 mm.
L: Length	1760 mm.	2260 mm.	2760 mm.	2260 mm.	1650 mm.	2260 mm.	2870 mm.	1650 mm.	2260 mm.	2870 mm.
H: Height	610 mm.	610 mm.	610 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.	495 mm.

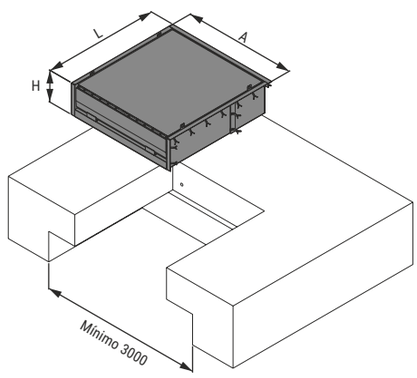
FORMWORK FRAME WITHOUT TAILGATE OPENING





FORMWORK FRAME WITH TAILGATE OPENING





DOCK SHELTER

Dock shelters are the ideal accessory for loading docks. They are used to create safe and comfortable conditions for loading and unloading, and to protect the operator and the goods from inclement weather. The retractable design of the frame absorbs the vertical movements that take place in the vehicle during loading and unloading, not to mention possible bumps from the vehicle as it is manoeuvred into the loading dock.

The structure is made even stronger through aluminium profiles reinforced with galvanised steel tubes. The flexible curtains on the front offer high resistance and are held in place by a bungee cord attached to the frame. The special composition of the curtains includes an internal lattice of polyester fibres that makes the curtains highly resistant to tearing and general wear.

The curtains and frames are manufactured independently and then assembled using fasteners for easy installation. This means it is easy and economic to replace damaged elements.

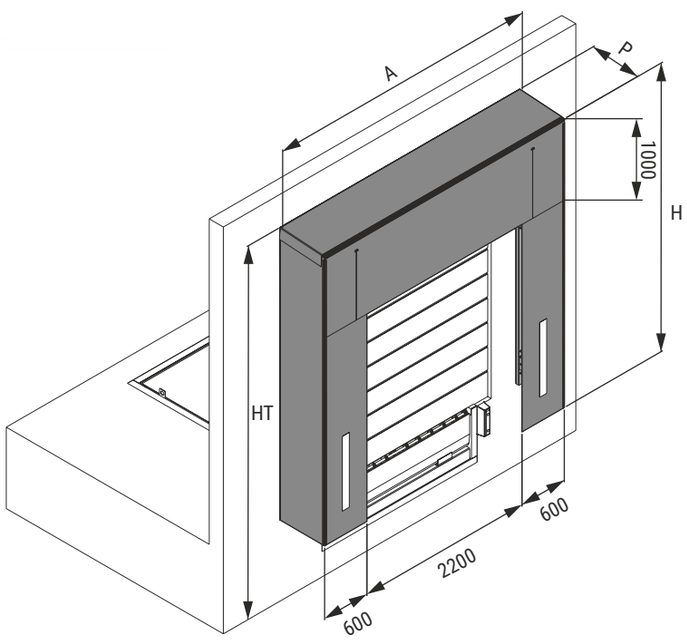
HEIGHT

3200-3600 mm

WIDTH

3400 mm

DIMENSIONS



A: Width
H: Height
HT: Total Height
P: Depth

MODEL	AR32	AR34	AR36
A: Width	3400 mm.	3400 mm.	3400 mm.
H: Height	3200 mm.	3400 mm.	3600 mm.
HT: Total height	4500 mm.	4500 mm.	4500 mm.
P: Depth	600 mm.	600 mm.	600 mm.

Dock Shelter detail of installation

FIRE DOORS AND FIRE-RATED ACCESS PANELS

ROPER

PUERTAS METÁLICAS

Swing Fire Door
$EI_2$60 C5 / $EI_2$90 C5 / $EI_2$120 C5

ROPER HAS MORE THAN 25 YEARS' EXPERIENCE MANUFACTURING FIRE DOORS. WE CURRENTLY MANUFACTURE A WIDE RANGE OF SINGLE AND DOUBLE SWING FIRE DOORS THAT COVERS PRACTICALLY ALL MARKET NEEDS.

THIS TYPE OF DOOR IS PARTICULARLY SUITABLE FOR HOUSING, LARGE COMMERCIAL AREAS LIKE SUPERMARKETS, CINEMAS, FACTORIES, HOSPITALS, PERFORMANCE VENUES, LIBRARIES, NIGHTCLUBS AND HOTELS, NOT TO MENTION ANYWHERE ELSE THAT REQUIRES HIGH LEVELS OF FIRE SAFETY

Each door is a single leaf made from two joined trays filled with a rigid rock-wool panel. The frame is adapted to the leaf and ready for installation on site. The doors have: a high-expansion intumescent seal that expands in contact with heat, a lock carrying the CE mark in accordance with standard UNE EN 12209, hinges made of high-resistance steel in accordance with standard UNE EN 1935, a handle with a metal core coated in black polyamide and anchors on the frame for installation on site.

FEATURES

Our entire range of swing fire doors has the following features:

- Top-quality materials.
- Made of heat-galvanised sheet produced using the Sendzimir process.
- Embossed coating process using epoxy powder with washing, grease removal, phosphating and oven baking at 180 °C.
- Standard colour in RAL 9010. We offer the option for other colours based on the RAL chart.
- High-quality finish and aesthetics.

MANUFACTURING

The entire range of this product is manufactured on a production line that employs state-of-the-art technology, which ensures high-quality finishes and consistent quality.

All our manufacturing processes have been studied and developed by our technical department.

CERTIFICATIONS

Approved fire doors with the guarantee of tests performed in certified laboratories.

Single leaf

ROPER single fire doors are manufactured for different opening sizes: 800 / 900 / 1,000 / 1,100 / 1,200 and 1,300 mm.
Opening height: 2,070 / 2,150 / 2,200 / 2,300 / 2,400 and 2,500 mm.
Different sizes can be manufactured on request, with widths from 600 mm to 1,300 mm, and heights from 1,600 mm to 2,500 mm, in multiples of 50 mm.

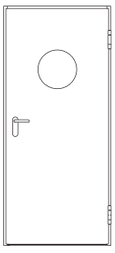
FINISH

RAL 9010 (Standard)

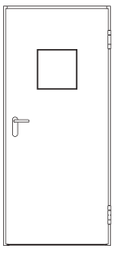
Imitation wood

RAL colours (optional)

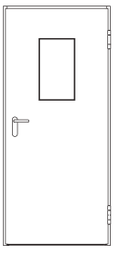
BULL'S EYE AND GRILLE (optional)



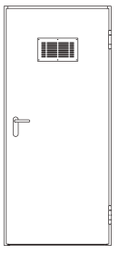
Circular



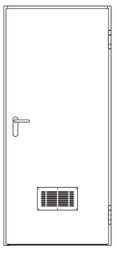
Square



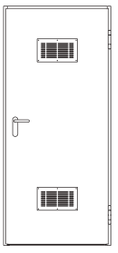
Rectangular



Upper grille



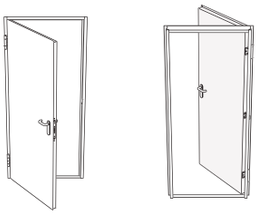
Lower grille



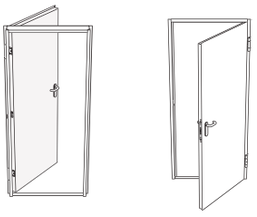
Double grille

OPENING DIRECTION

* The opening direction is described based on the perspective from inside the door.



Yellow / Right

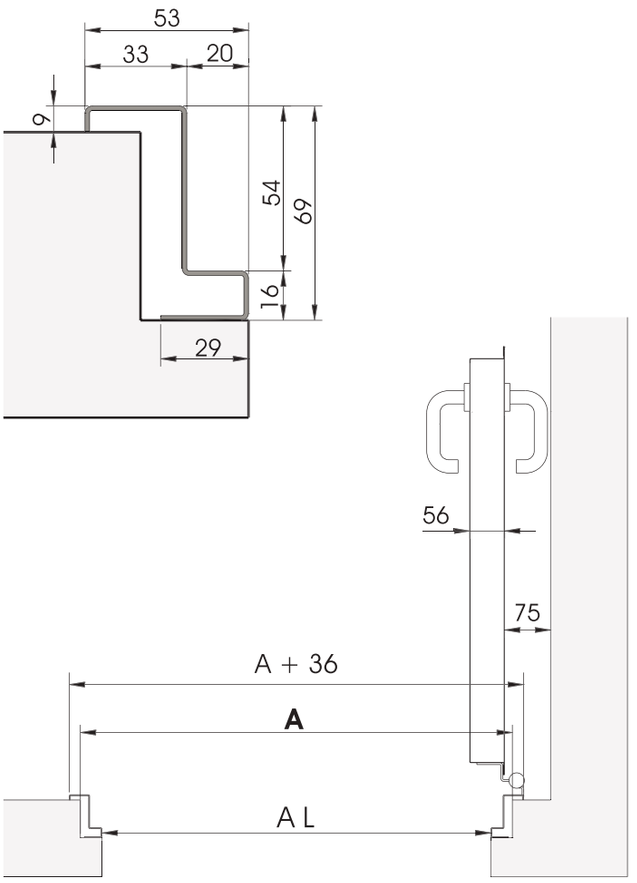


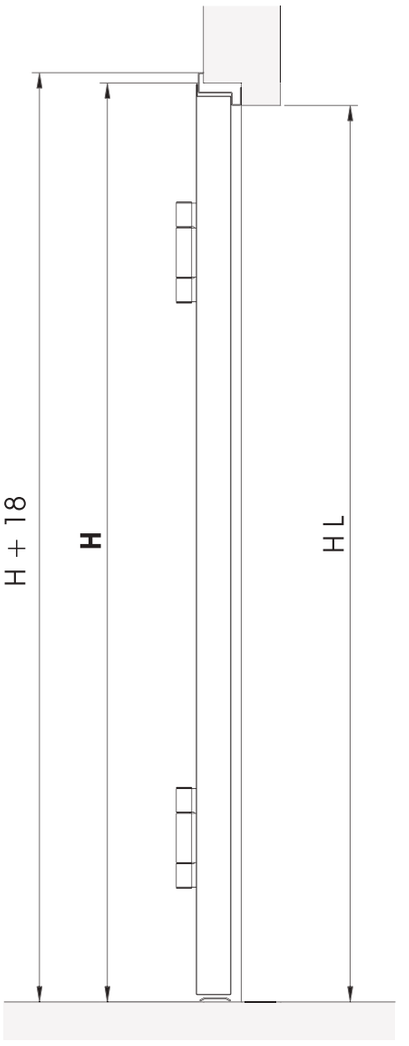
Blue / Left

CERTIFICATIONS

Classifications: EI260 C5 / EI290 C5 / EI2120 C5 / FM approvals. Complies with the Spanish Technical Building Code (CTE). Tested in certified laboratories in accordance with standard UNE EN 1634-1 for hinged fire doors without spring.
Classifications: EI260 / EI290. Complies with basic building standard NBE-CPI/96. Tested in certified laboratories in accordance with standard UNE EN 1634-1 for hinged fire doors with spring.

Single leaf / Single swing door / measurements and cross sections $EI_2$60 / $EI_2$90 / standard frame

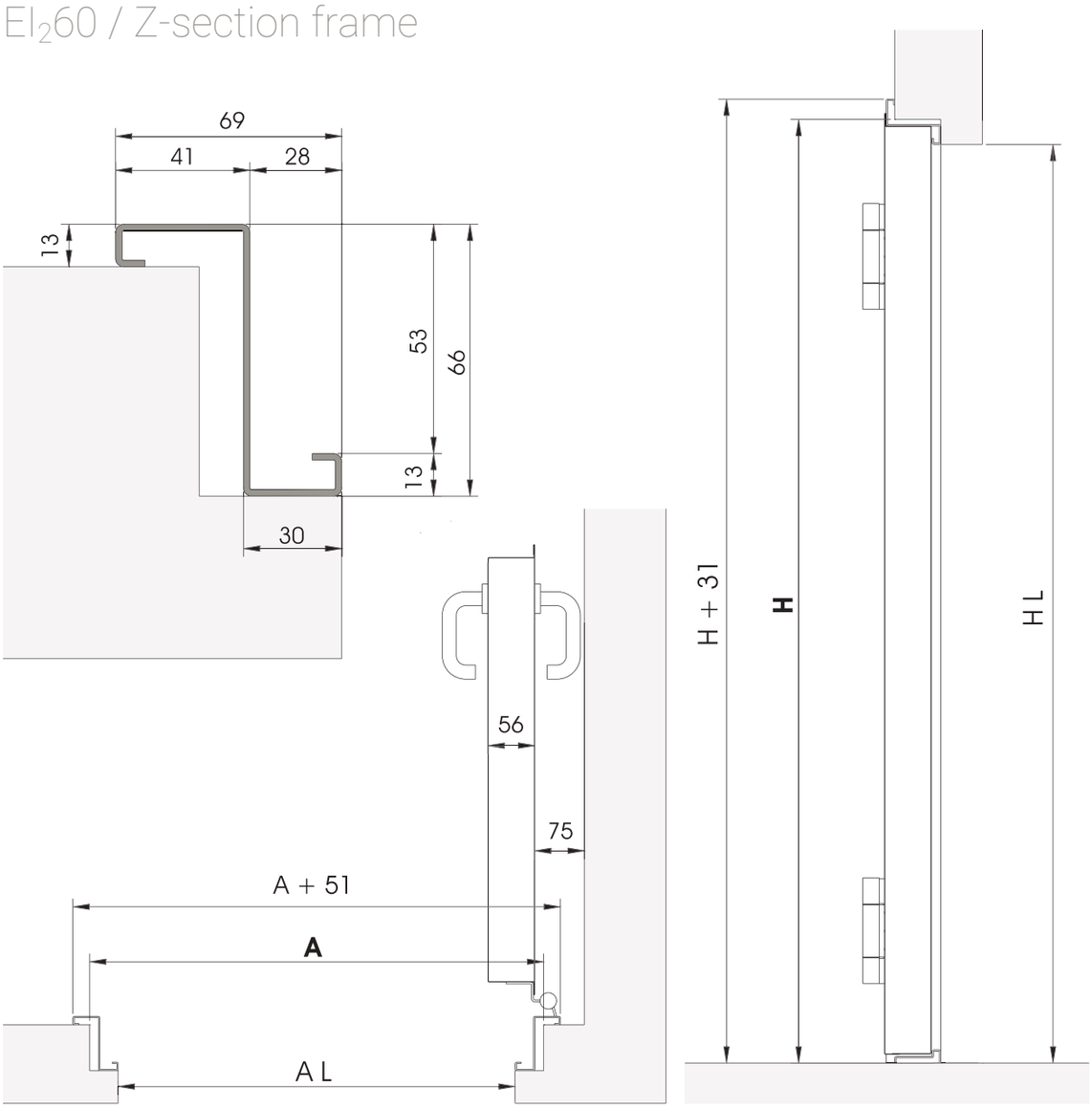




$EI_2$60			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
800	2070/2150 2200/2300 2400/2500	730	2032/2112 2162/2262 2362/2462
900		830	
1000		930	
1100		1030	
1200		1130	
1230		1160	
1300		1230	

$EI_2$90			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
800	2070/2150 2200	730	2032/2112 2162
900		830	
1000		930	
1100		1030	
1200		1130	

Single leaf / Single swing door / measurements and cross sections / $EI_2$60 / Z-section frame

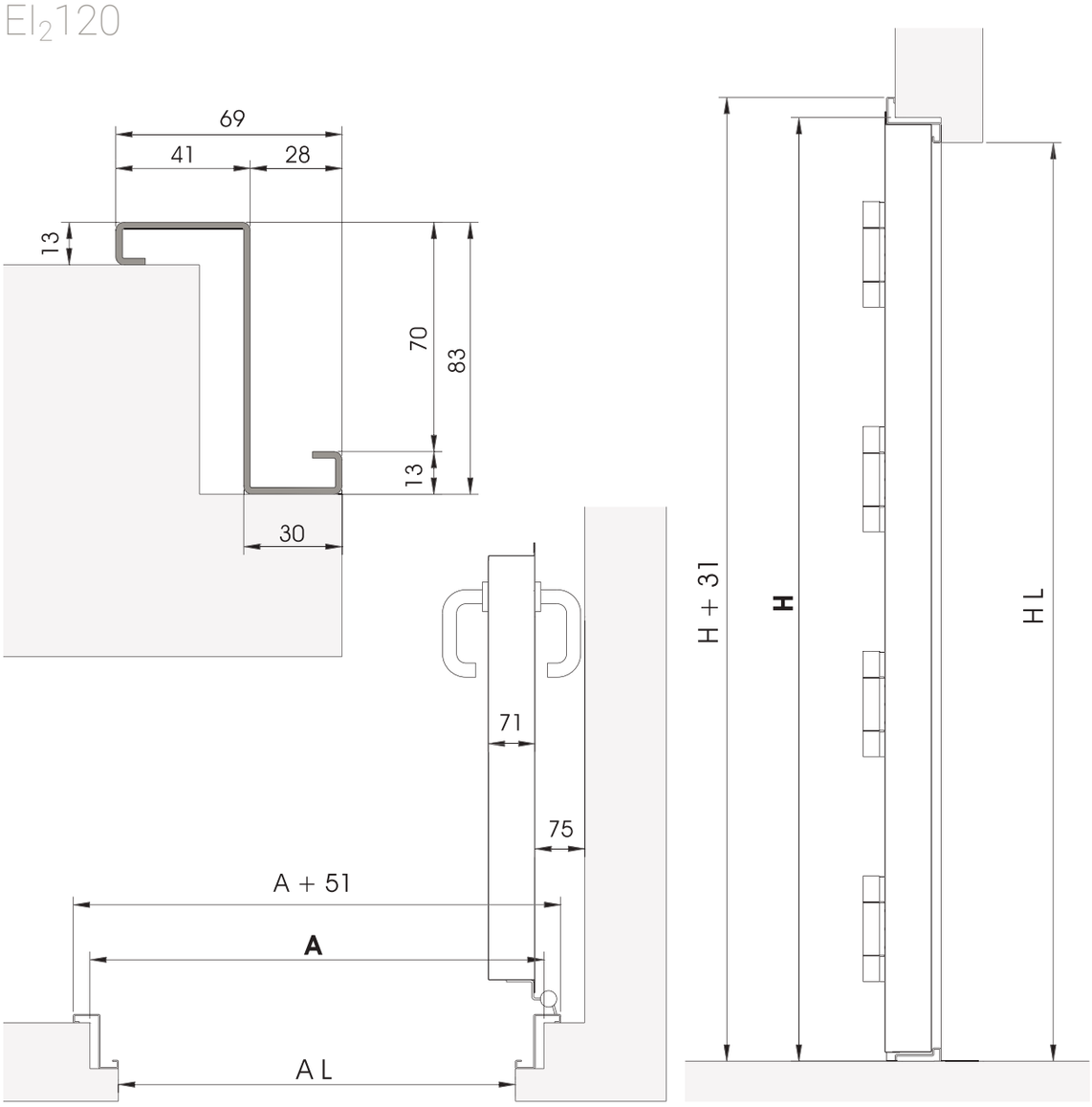


$EI_2$60			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
800	2070/2150 2200	730	2032/2112 2162
900		830	
1000		930	
1100		1030	

SPECIFICATIONS

- Leaf thickness: 56 mm.
- Leaf sheet thickness: 0.5 mm.
- Two hinges carrying the CE mark connecting the frame and leaf.
- Frame in sheet with a thickness of 1.2 mm.
- Reversible lock carrying the CE mark.
- Three wall anchors on each side of the vertical frame.

Single leaf / Single swing door / measurements and cross-sections / $EI_2$120



$EI_2$120			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
800	2070/2150 2200	730	2032/2112 2162
900		830	
1000		930	
1100		1030	

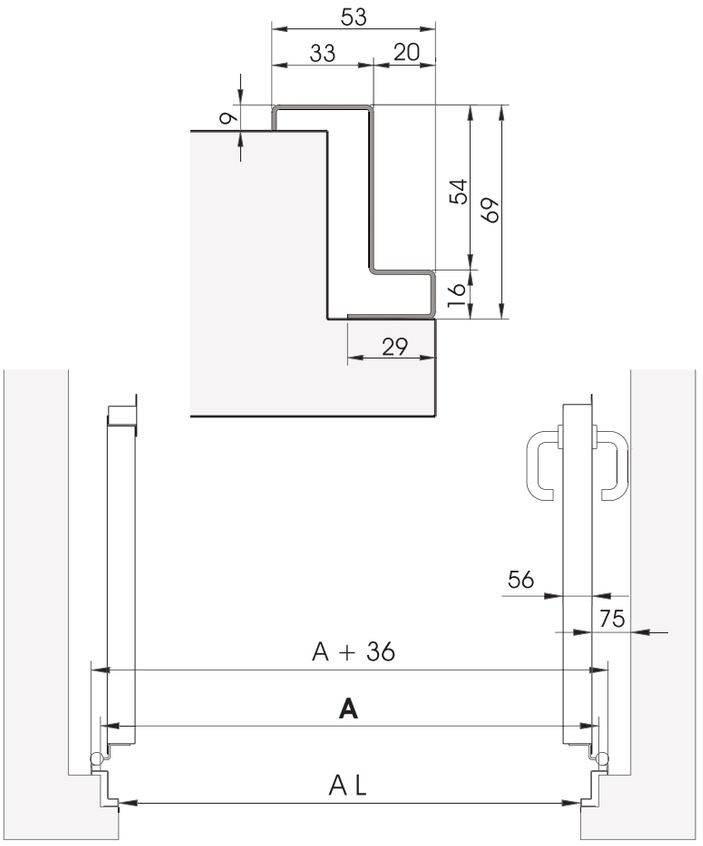
SPECIFICATIONS

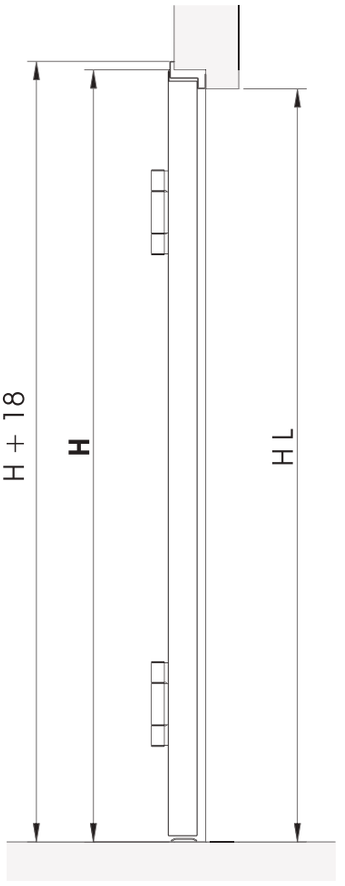
- Galvanised leaf with a thickness of 70 mm.
- Leaf sheet thickness: 1 mm.
- Four hinges carrying the CE mark connecting the frame and panel.
- Galvanised sheet frame with a thickness of 2 mm.
- Reversible lock carrying the CE mark.
- Five wall anchors on each side of the vertical frame.

Double leaf
Double leaf / $EI_2$60 / $EI_2$90

ROPER double-leaf swing fire doors are manufactured for different opening sizes: for widths from 1,000 to 2,500 mm, and heights from 1,600 mm to 2,500 mm.
They are delivered painted white (RAL 9010), or galvanised.

Double leaf / Double-leaf swing door / measurements and cross sections / $EI_2$60 / $EI_2$90 / standard frame





$EI_2$60			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
1200	2070/2150 2200/2300 2400/2500	1130	2032/2113 2163/2263 2363/2463
1300		1230	
1400		1330	
1500		1430	
1600		1530	
1700		1630	
1800		1730	
1900		1830	
2000		1930	
2100		2030	
2200		2130	
2300		2230	
2400		2330	
2500		2430	

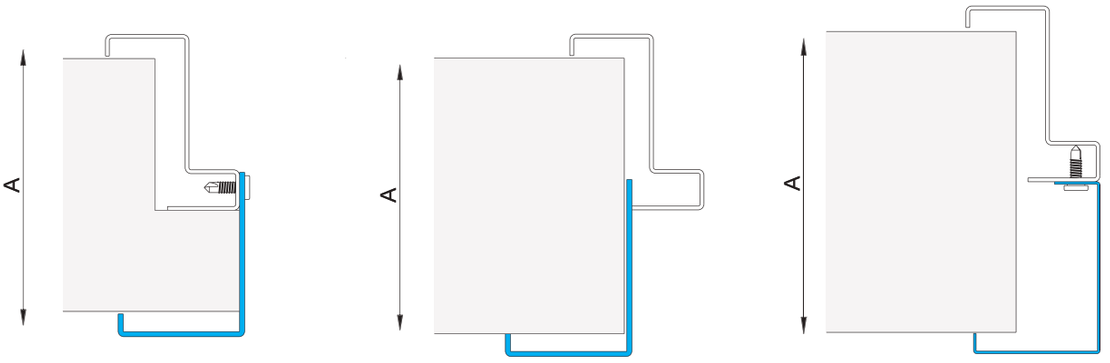
$EI_2$90			
BUILT OPENING		CLEAR PASSAGE	
A	H	AL	HL
1200	2070/2150 2200	1130	2033/2113 2163
1300		1230	
1400		1330	
1500		1430	
1600		1530	
1700		1630	
1800		1730	
1900		1830	
2000		1930	
2100		2030	
2200		2130	

SUBFRAMES

Screw-on subframe

Slip-on subframe

Clamp-on subframe



A: Variable frame width (maximum 250 mm)

IMITATION WOOD

Swing doors are available to order manufactured in sheet with an imitation-wood finish in dark oak.

ACCESSORIES

Double-sided handle with cylinder lock / black

Double-sided, stainless-steel handle

Stainless-steel lock covers with cylinder lock

Electronic access-control handle

Door coordinator

Panic bar / Push bar

Built-in door closer

Surface-mounted door closer

Fire grille

Bull's eye window

Square window

SINGLE-LEAF FIRE DOOR PACKAGING

Pallets of single-leaf fire doors contain 15 doors, packed vertically, on a stand with metal-tube reinforcement and wooden blocks to assist with subsequent movements.
The doors are sequentially tied together with stretch tape as they are loaded on the pallet and, once there are 15 on the pallet, they are all wrapped with strong stretch film.
All packages include an instruction sheet on how to unpack the doors effectively, safely and easily.

BUILT OPENING		DOOR WEIGHT (*)		DOORS PER PACKAGE		PACKAGE WEIGHT (*)		DIMENSIONS		
A	H	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	A	B	H
800	2070	36	47	15	15	565	730	880	1160	2180
900		40	52	15	15	625	805	980	1160	2180
1000		50	58	15	15	775	895	1080	1160	2180
1100		62	64	12	12	774	798	1190	980	2180
1200		67	69	12	12	834	858	1290	980	2180
1230		74	76	12	12	918	942	1320	980	2180
1300		78	80	12	12	966	990	1390	980	2180

BUILT OPENING		DOOR WEIGHT (*)		DOORS PER PACKAGE		PACKAGE WEIGHT (*)		DIMENSIONS		
A	H	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	A	B	H
800	2150	38	44	15	15	595	685	880	1160	2260
900		42	49	15	15	655	760	980	1160	2260
1000		52	60	15	15	805	925	1080	1160	2260
1100		64	66	12	12	798	822	1190	980	2260
1200		70	72	12	12	870	894	1290	980	2260
1230		76	78	12	12	942	966	1320	980	2260
1300		80	82	12	12	990	1014	1390	980	2260

(*) Approximate, in kg.

DOUBLE-LEAF FIRE DOOR PACKAGING

Pallets of double-leaf fire doors contain 12 doors, packed vertically, on a stand with metal-tube reinforcement and wooden blocks to assist with subsequent movements. The doors are sequentially tied together with stretch tape as they are loaded on the pallet and, once there are 12 on the pallet, they are all wrapped with strong stretch film. All packages include an instruction sheet on how to unpack the doors effectively, safely and easily.

BUILT OPENING		DOOR WEIGHT (*)		DOORS PER PACKAGE		PACKAGE WEIGHT (*)		DIMENSIONS		
A	H	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	A	B	H
1200	2070	67	73	15	12	1030	901	1290	980	2180
1400		79	84	15	12	1210	1033	1490	980	2180
1600		89	95	15	12	1360	1165	1690	980	2180
1800		106	106	12	12	1302	1302	1890	980	2180
2000		109	117	12	12	1338	1434	2090	980	2180

BUILT OPENING		DOOR WEIGHT (*)		DOORS PER PACKAGE		PACKAGE WEIGHT (*)		DIMENSIONS		
A	H	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	$EI_2$60	$EI_2$90	A	B	H
1200	2150	69	76	15	12	1060	937	1290	980	2260
1400		82	87	15	12	1255	1069	1490	980	2260
1600		92	99	15	12	1405	1213	1690	980	2260
1800		103	110	12	12	1266	1350	1890	980	2260
2000		114	122	12	12	1398	1494	2090	980	2260

(*) Approximate, in kg.

FRAME

Manufactured in galvanised sheet with a thickness of 1.5 mm. In accordance with standard EN 10142.

LEAF

Manufactured in galvanised sheet steel with a thickness of 0.6 mm with 2.5-mm reinforcements around the inside of the edges.
Inside, the entire surface is insulated using rock wool weighing 165 kg/m3 attached with intumescent glue (zero toxicity and non-flammable).
Between the two lower hinges, there is a safety pivot that prevents the leaf from being separated from the frame in the event of fire.

HINGES

Galvanised fire hinges without spring for doors in accordance with standard EN 1935.
Two hinges with $EI_2$60 C5 and three hinges with $EI_2$90 C5.

INTUMESCENT SEAL

This seal runs along the entire edge of the frame except for the bottom section. Its dimensions are 20 x 2.5 mm. It is graphite-based, black, with high expansion, flexible, insoluble and odourless.

FIRE LOCK

Built into the leaf. Reversible with double locking and slam latch.
Complies with standard EN 12209 and carries the CE mark.

TESTS

ROPER has its own laboratory to perform fire and mechanical tests that allow its quality department to ensure the best possible guarantee of quality, reliability and innovation for our customers.

FIRE-RESISTANCE TESTS ON FIRE DOORS.

ROPER

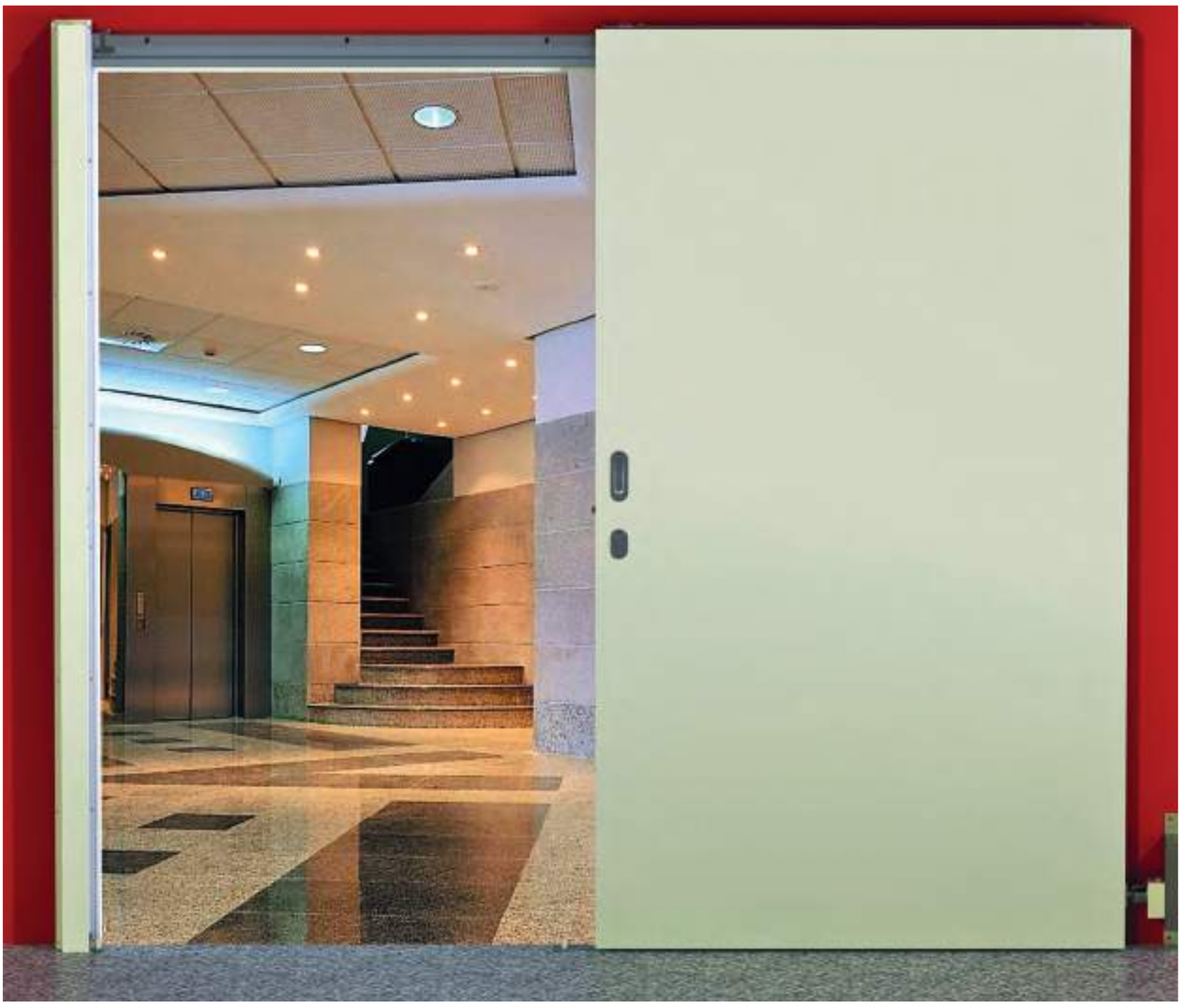
PUERTAS METÁLICAS

KORES
Sliding Fire Door

THESE DOORS ARE SPECIALLY DESIGNED FOR USE IN RESIDENTIAL ZONES WHERE THERE IS A RISK OF FIRE. THEY ARE USED TO COMPARTMENTALISE SPACES AND ACT AS A BARRIER TO FIRE, TO STOP IT SPREADING.

KORES SLIDING FIRE DOORS MUST NOT BE INSTALLED ON AN ESCAPE ROUTE. THE DOOR IS HELD OPEN BY AN ELECTROMAGNET OR THERMAL FUSE AND IS AUTOMATICALLY CLOSED BY A COUNTERWEIGHT.

THE ROPER KORES SLIDING FIRE DOOR IS MANUFACTURED WITH TOP-QUALITY MATERIALS IN COMPLIANCE WITH THE SAFETY REGULATIONS IN FORCE.



SPECIFICATIONS

The ROPER sliding fire door is manufactured in standard dimensions, with special sizes available to order. The standard measurements are: width of clear passage of 800 / 900 / 1,000 / 1,100 / 1,200 mm and clearance height of 2,100 mm.
The door is delivered with a frame equipped with anchors for installation on site.

FINISH

The standard finish is the colour of galvanised steel.
Embossed powder coating baked at 180°C is available to order. The colours are based on the RAL chart.

Colour of galvanised steel (standard)

RAL colours (optional)

CERTIFICATION

Classifications: EI260 / EI290.
Tested in certified laboratories in accordance with standard EN 1634-1.

OPENING DIRECTION

Left- and right-opening doors are available.

KORES $EI_2$60 / $EI_2$90

Hooked-deadbolt lock. Double-sided handle with double-sided Euro cylinder lock. Intumescent seal.

Rolling sheaves on the overhead rail.

Guide sheave on the floor.

Recessed handle.

FRAME

• Manufactured in heat-galvanised sheet steel with a thickness of 1.5 mm, using the Sendzimir process.
• Around the edges there is an intumescent seal measuring 20 x 2.5 mm.
•It is equipped with anchors for attachment to the supporting structure.

LEAF

• Manufactured in heat-galvanised sheet steel with a thickness of 0.6 mm, using the Sendzimir process.
• The inside edge is reinforced with sheet with a thickness of 2.5 mm.
• The leaf is made of two joined trays insulated using rock wool and mineral glue (zero toxicity and non-flammable).
• The leaf rolls along the track on four wheels with rolling bearings.
• To assist manual opening and closing, it has a recessed double-sided handle and a double-sided Euro cylinder lock.

OVERHEAD AND FLOOR TRACKS

• The overhead track is made of galvanised calibrated steel measuring 25 x 12 mm.
• The floor track for the leaf comprises two metal wheels with rolling bearings, attached to the floor.

INTUMESCENT SEALS

• These are attached to specific points of the leaf and frame and measure 15 x 2.5 mm on the leaf, and 20 x 2.5 mm on the frame.
• They are graphite-based, black, flexible, insoluble, odourless and with high expansion.

LOCK

Built into the leaf, with a hooked deadbolt.

ELECTROMAGNET

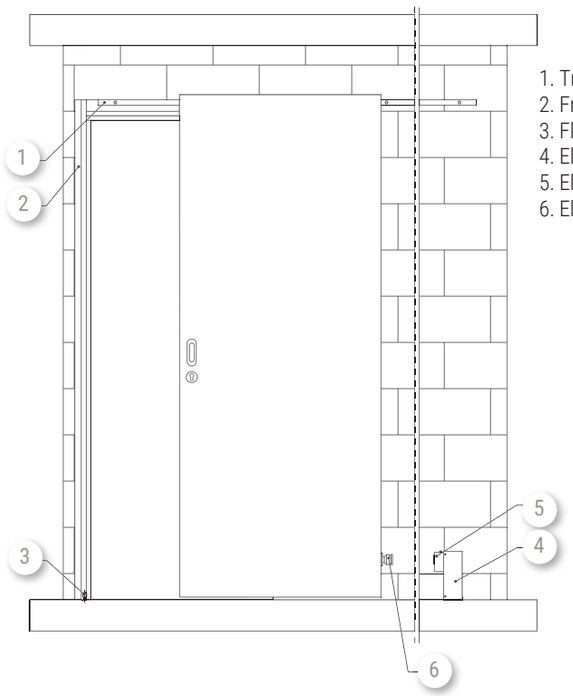
Strength: 40 daN. Voltage: 24 Vdc.

Electromagnet

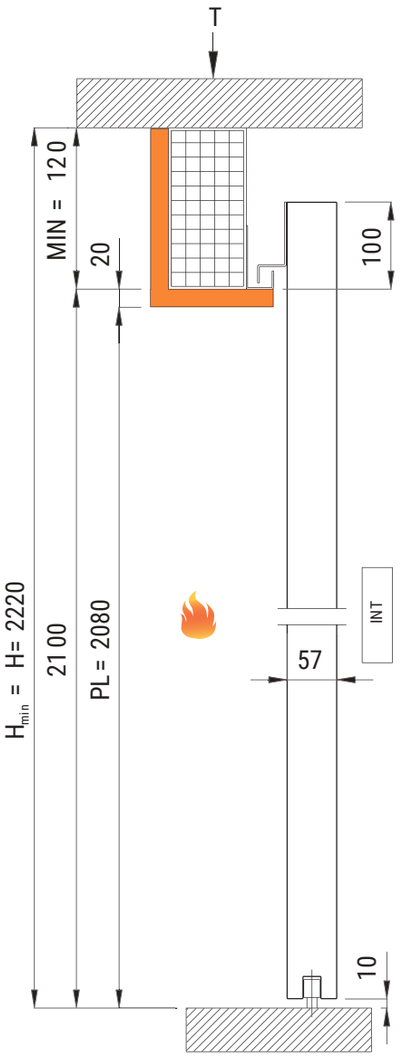
KORES SLIDING FIRE DOOR

$EI_2$60 / $EI_2$90

MEASUREMENTS AND CROSS SECTIONS

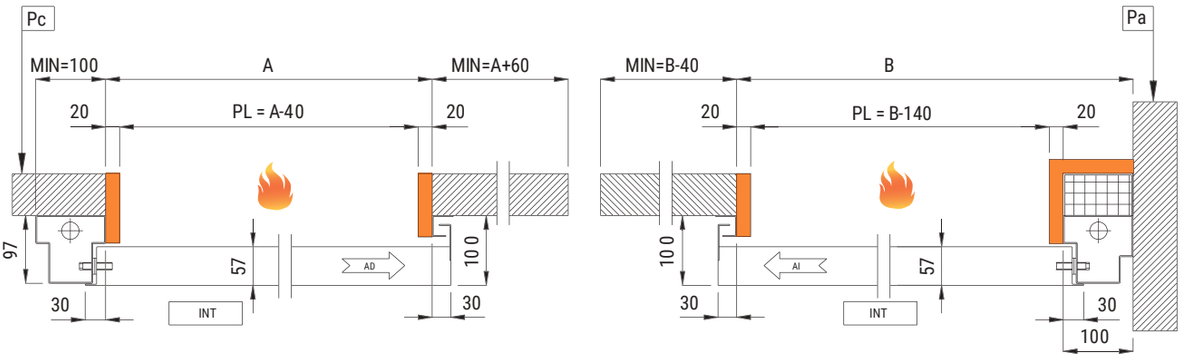


1. Track.
2. Frame.
3. Floor sheave.
4. Electromagnet holder.
5. Electromagnet.
6. Electromagnet stop.



REF:	STANDARD DIMENSIONS				
KORES	A	B	H	CLEAR PASSAGE	
	WALL	CORRIDOR	CEILING	WIDTH	HEIGHT
800	800	900	2220	760	2080
900	900	1000		860	
1000	1000	1100		960	
1100	1100	1200		1060	
1200	1200	1300		1160	

Brickwork Gypsum or plasterboard Concrete or steel



T: Ceiling
A: Width
H: Height
H_{min}: Minimum height
Pc: Sliding wall
PL: Free passage
Pa: Corridor
INT: Inside
MIN: Minimum
AD: Right opening
AI: Left opening

IMPORTANT: the customer should cover this with gypsum or plasterboard.

ROPER

PUERTAS METÁLICAS

CIR
Sliding Fire Door

THIS DOOR TYPE IS DESIGNED TO COMPARTMENTALISE THE SPACES IN A BUILDING WHERE, OWING TO ITS ARCHITECTURE, BUSINESS ACTIVITIES OR MATERIALS STORED, THERE IS A RISK OF FIRE.
THE FUNCTION OF THIS DOOR MODEL IS TO ACT AS A BARRIER TO FIRE, TO STOP IT SPREADING ACROSS THE DIFFERENT COMPARTMENTS THAT IT SEPARATES.

60 CIR Panel
90 CCT 60.

120 CIR Panel.

SPECIFICATIONS

Our entire range of sliding fire doors has the following specifications:

- Top-quality materials.
- Made of heat-galvanised sheet produced using the Sendzimir process.
- High-quality finish and aesthetics.
- Advanced manufacturing methods using state-of-the-art machinery.
- The door comprises one or several leaves made of several joined trays with a thickness of 1.2 mm, infilled with a rigid rock-wool panel with a density of 165 kg/m3. The frame is adapted to the leaf and ready for the leaf to be hung from the guide rail.
- A high-expansion intumescent seal between the leaf and the opening in the wall ensures a perfect seal in the event of fire.
- A set of smoke-proof galvanised-steel profiles with anchors for installation on site.
- A counterweight with a pulley system to pull the leaf, in the event of fire, until it is fully closed.
- A speed regulator to limit the acceleration of the leaf when it is closing.
- A retaining electromagnet or thermal fuse on the leaf when it is open.
- There is no floor track across the area of passage.
- The leaf can be delivered assembled or unassembled, for the customer to put it together.
- The CIR sliding fire door is tested and approved in accordance with standard EN 1634-1 and classified in accordance with standard EN 13501-2.

Galvanised

RAL colours (optional)

FINISH

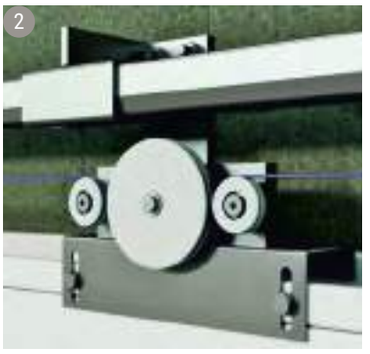
Standard colour for galvanised steel. We offer the option for other colours based on the RAL chart.

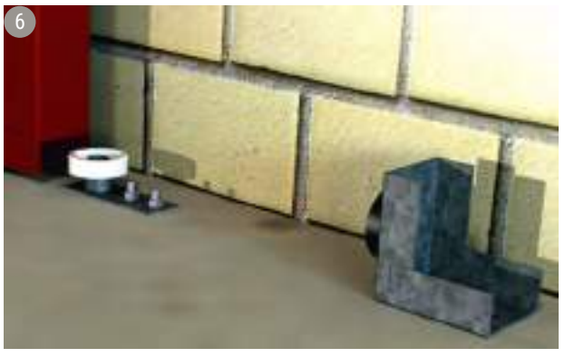
FIRE RESISTANCE

There are several configurations of CIR sliding fire door depending on the fire resistance offered.

MODEL	FIRE RESISTANCE	DESCRIPTION
CIR - 60 - 1H	60 min	Single-leaf sliding fire door
CIR - 90 - 1H	90 min	Single-leaf sliding fire door
CIR - 60 - 2H	60 min	Double-leaf sliding fire door
CIR - 90 - 2H	90 min	Double-leaf sliding fire door
CIR - 120 - 1H	120 min	Single-leaf sliding fire door
CCT - 60	60 min	Hangar-style sliding fire door with two or more leaves.

Depending on the customer's requirements, the leaf can be opened manually or using electrical equipment.
Generally, the leaf should be left open, held in place by an electromagnet or thermal fuse.
In the event of fire, the retention system stops working and the leaf is closed by the counterweight.





1/ Counterweight.
2/ Speed pulley.
3/ Electromagnetic retention system.
4/ Guide sheave / U-profile
5/ Handle.
6/ Guide sheave / leaf stop.

1

GUID RAIL ASSEMBLY. Figure 1

Comprising a guide rail and two sliding sheaves that are put inside it. The rail is held up by U-bolts attached to the existing lintel/support. The length of the rail will depend on the door measurements. On the floor, in the direction in which the door moves, a set of two rolling bearings should be strategically positioned to optimise sliding of the door along the track and avoid potential oscillations of the leaf.

2

ELECTROMAGNET. Figure 2

CE mark in accordance with EN 1155.
Offers a magnetic force of 40 daN ~ 60 daN.

WELDED THERMAL FUSE (optional). Figure 3

Easy to install on one end of the track, it permanently supports the sliding door. It releases the door in the event of fire when it reaches a temperature above 70 °C. The maximum load at that temperature is 79.8 kg.

3

FLOOR STOP. Figure 4

Open-door floor stop made of a galvanised-steel bracket and a plastic stop, to limit how far the door can slide open.

4

POLEA RESORTE. Figure 5a

Easy to install at one end of the track (in the closing direction), used to close the sliding door.

This system avoids the bulky installations associated with traditional counterweights and the noise caused by friction between the materials. As a result of the self-tensioning function and the free-wheeling pinion, it is possible to alter the tension after assembly.

*The spring pulley is installed depending on the requirements.

5a

5b

COUNTERWEIGHT ASSEMBLY. Figure 5b

This system comprises a set of pulleys supporting several adjustable counterweights to balance the weight of the door.

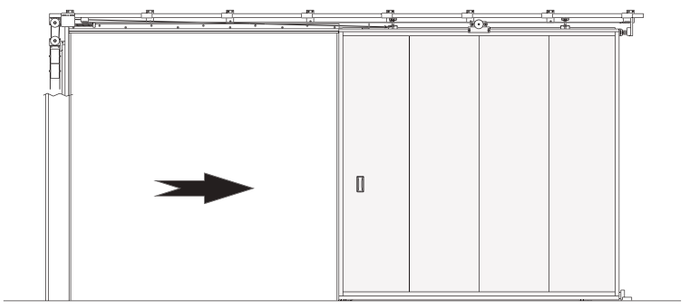
6

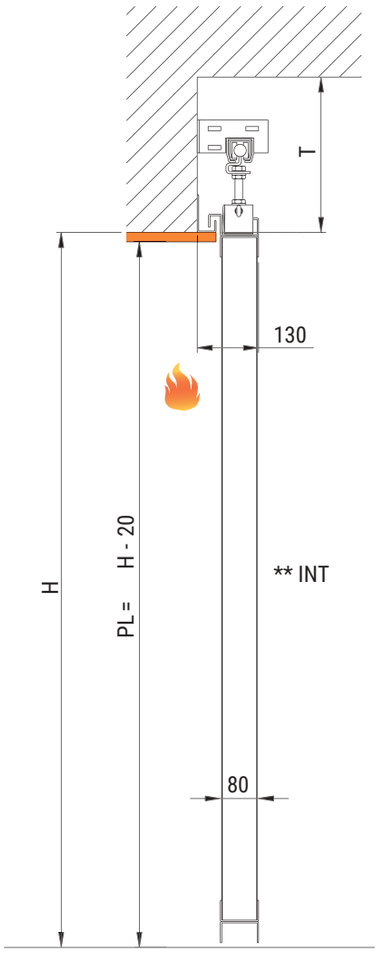
RADIAL SPEED REDUCER. Figure 6

This is a closing speed reducer that is installed on top of the door leaf. It enables a constant, uniform closure speed. The speed reduction is obtained with the assistance of a pre-stressed steel cable with a thickness of 3 mm, running between the three pulleys. The reduction direction can work to the left and right.
It is not necessary to install one on doors with a built opening of ≤ 10 m².

CIR SLIDING FIRE DOOR

Single leaf $EI_2$60 / $EI_2$90 / $EI_2$120

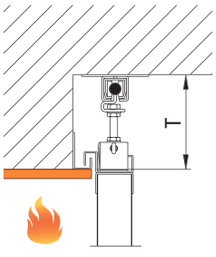




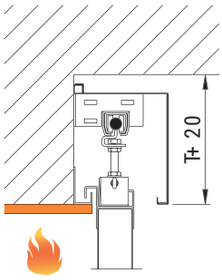
T depends on m^2 of opening
A X H ≤ 8 m^2 T=200
8 m^2 < A x H ≤ 14 m^2 T=250
14 m^2 < A x H ≤ 25m^2 T=300
25 m^2 < A x H ≤ 34 m^2 T=350
34 m^2 < A x H ≤ 40 m^2 T=500

	MIN.	MÁX.
A	1400	8000
H	1500	5000

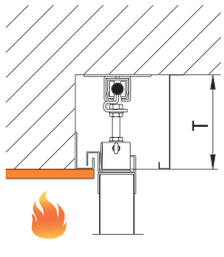
Brickwork Gypsum or Plasterboard



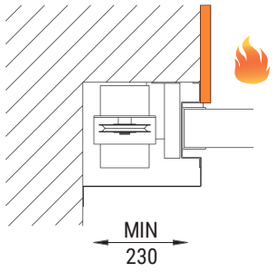
CEILING GUIDE OPTION



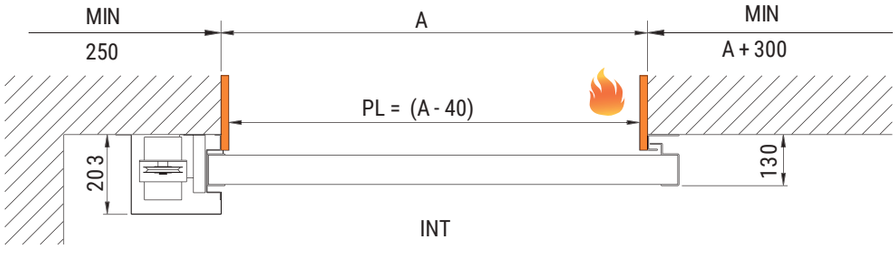
WALL FLASHING OPTION



CEILING FLASHING OPTION



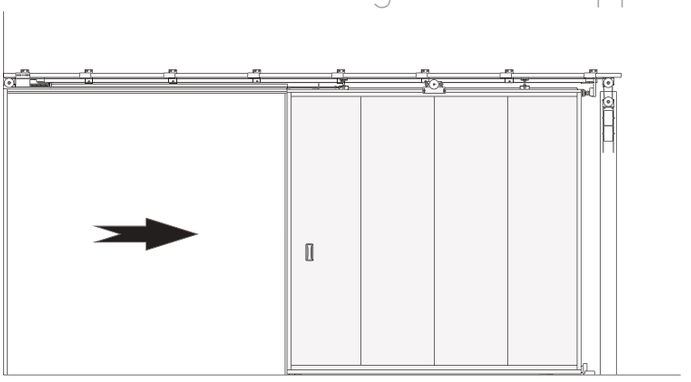
WALL LINING OPTION



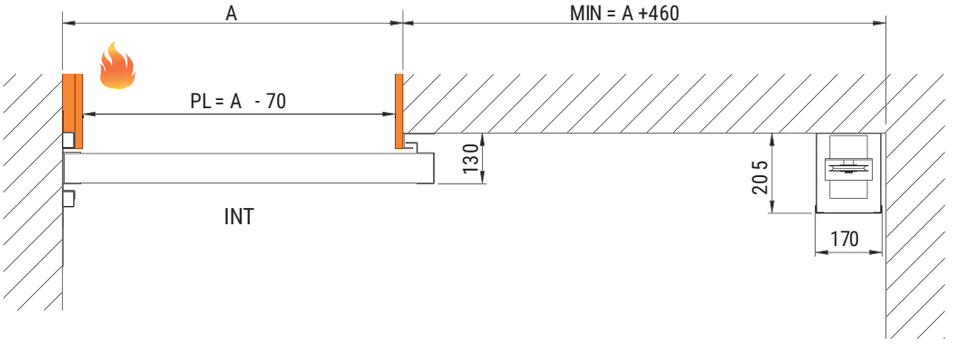
T: Distance to ceiling
A: Width of opening
H: Opening height
PL: Free passage
INT: Inside
MIN: Minimum

IMPORTANTE: Cover with gypsum or plasterboard.

Single leaf EI$_2$60 / EI$_2$90 / EI$_2$120 with the counterweight on the opposite side to the stop



	MIN.	MAX.
A	1400	8000
H	1500	5000



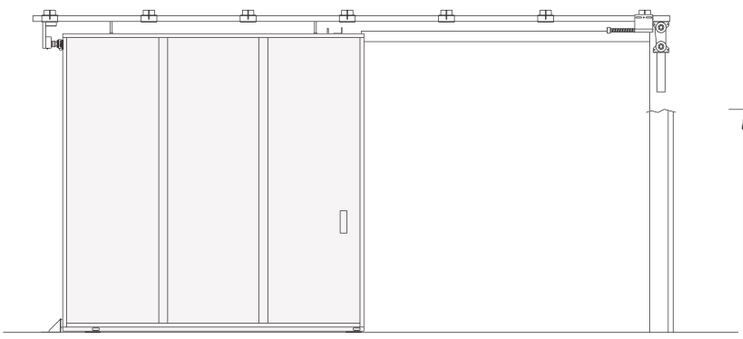
Brickwork Gypsum or Plasterboard

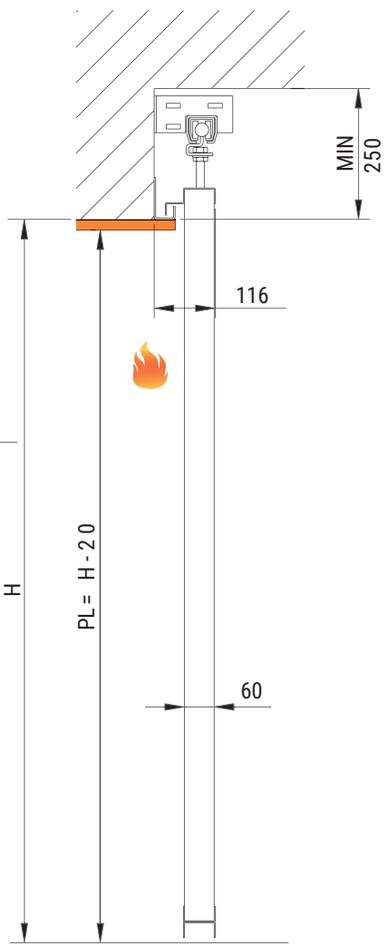
A: Opening width
PL: Free passage
INT: Inside
MIN: Minimum

● **IMPORTANT:** Cover with gypsum or plasterboard.

CCI SLIDING FIRE DOOR

Single leaf $EI_2$60

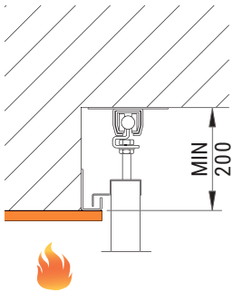




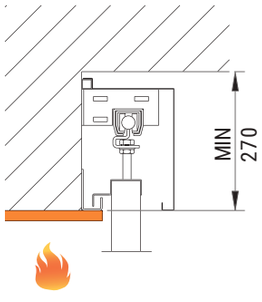
IN THIS SLIDING MODEL YOU CAN NOT INSERT PEDESTRIAN DOOR.

	MIN.	MÁX.
A	1400	4000
H	1500	3000

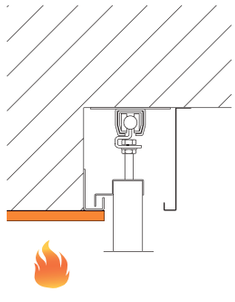
Brickwork Gypsum or Plasterboard



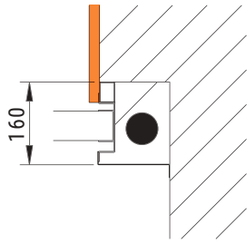
CEILING GUIDE OPTION



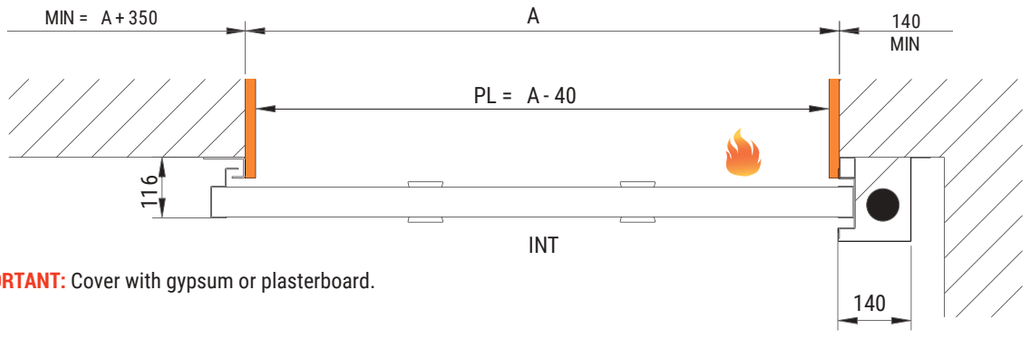
WALL FLASHING OPTION



CEILING FLASHING OPTION



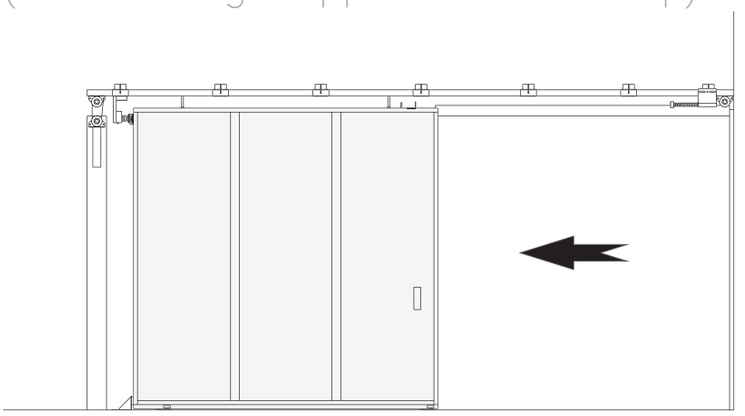
WALL LINING OPTION



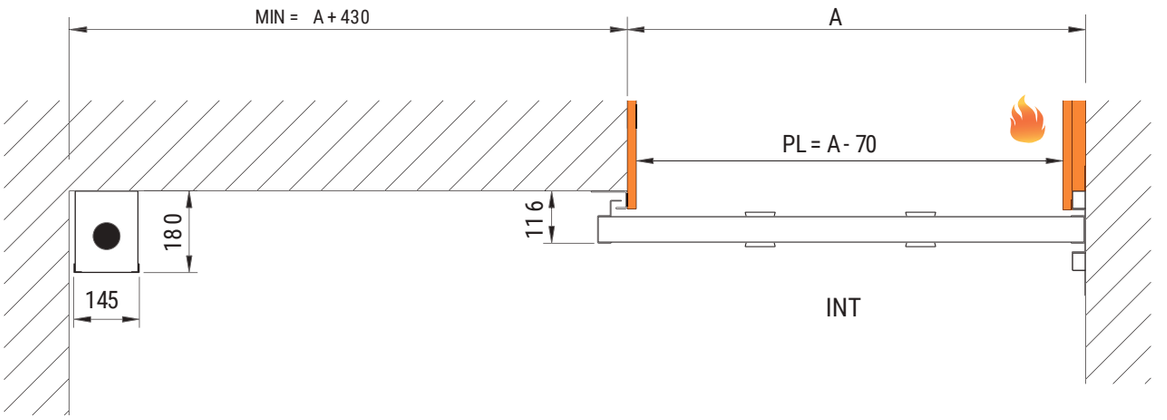
IMPORTANT: Cover with gypsum or plasterboard.

A: Opening width
H: Opening height
PL: Free passage
INT: Inside
MIN: Minimum

Single leaf EI 60 (counterweight opposite side to stop)



	MIN.	MÁX.
A	1400	4000
H	1500	3000



Brickwork Gypsum or Plasterboard

IMPORTANT: Cover with gypsum or plasterboard.

A: Opening width
PL: Free passage
INT: Inside
MIN: Minimum

IMPORTANT: doors tested by ROPER are manufactured with the maximum allowable dimensions for official ovens. For larger doors, ROPER commits to constructing the door using the same materials and structure as the tested doors, and if necessary, based on the opinion and experience of the company, it will reinforce parts of the door that may be weaker.

FIRE-RESISTANT WICKET GATE FOR PEDESTRIANS

$EI_2$60 C5 / $EI_2$90 C5

FRAME

Manufactured in galvanised sheet with a thickness of 1.5 mm. In accordance with standard EN 10142.

LEAF

Manufactured in galvanised sheet steel with a thickness of 0.6 mm, with 2.5-mm reinforcements around the inside of the edges.
Inside, the entire surface is insulated using rock wool weighing 165 kg/m^3 attached with intumescent glue (zero toxicity and non-flammable).
Between the two lower hinges, there is a safety pivot that prevents the leaf from being separated from the frame or deforming from the heat.

HINGES

Galvanised fire hinges without spring for doors in accordance with standard EN 1935.
Two hinges for $EI_2$60 C5 and three hinges for $EI_2$90 C5.

INTUMESCENT SEAL

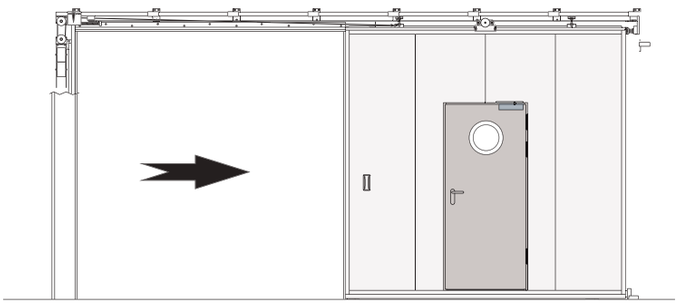
This seal runs along the entire edge of the frame except for the bottom section. Its dimensions are 20 x 2.5 mm. It is graphite-based, black, flexible, insoluble and odourless, with high expansion.

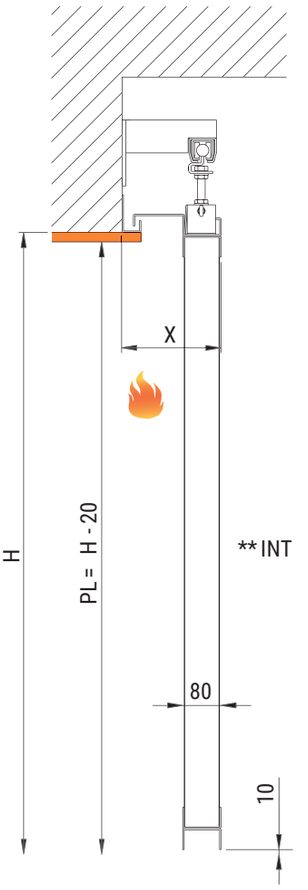
FIRE LOCK

Built into the leaf. Reversible with double locking and slam latch.
Complies with standard EN 12209 and carries the CE mark.

SLIDING FIRE DOOR

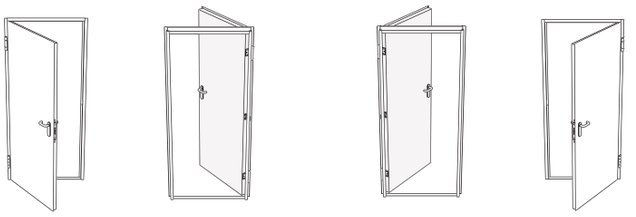
Single leaf $EI_2$60 / $EI_2$90 with wicket gate for pedestrians





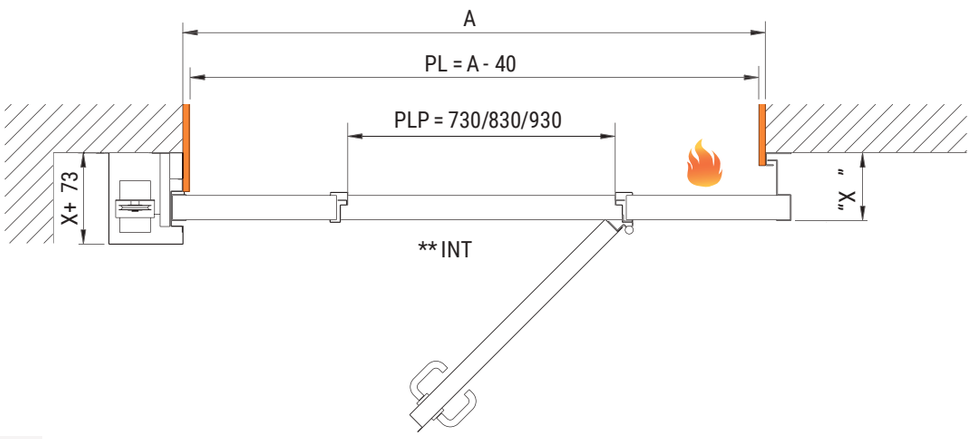
	MIN.	MÁX.
A	1400	8000
H	1500	5000

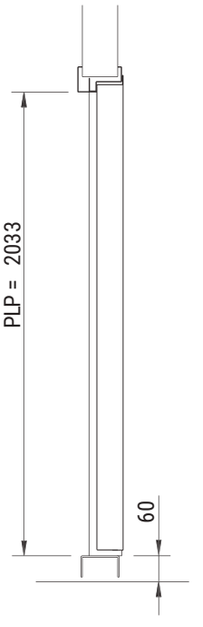
OPENING DIRECTION



Yellow / Right

Blue / Left





A: Opening width
H: Opening height
PL: Free passage
PLP: Free pedestrian passage
INT: Inside
MIN: Minimum

Brickwork Gypsum or Plasterboard

IMPORTANT: Cover with gypsum or plasterboard.

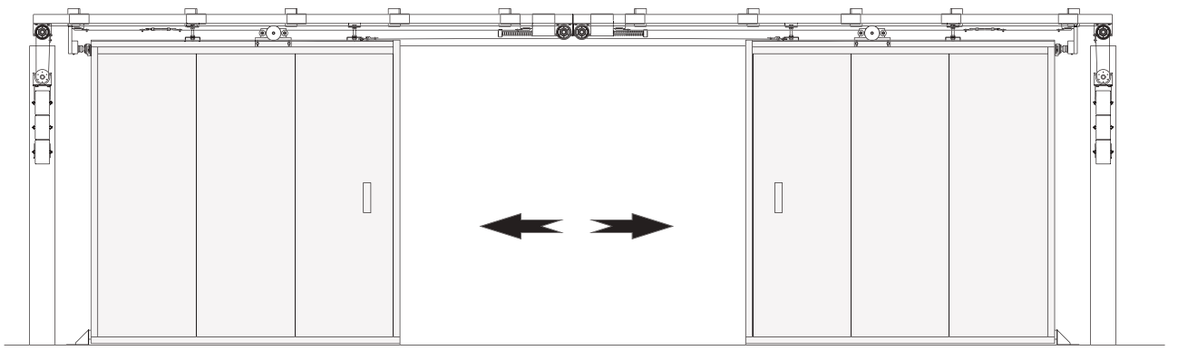
SLIDING FIRE DOOR
Single leaf $EI_2$60 / $EI_2$90 with wicket gate for pedestrians

STANDARD						
PEDESTRIAN REFERENCE	RF	WIDTH	HEIGHT	WIDTH CLEARANCE	HEIGHT CLEARANCE	DOORKNOB LOCK X=170
974850	60	800	2070	730	2033	YES
974853	90	800	2070	730	2033	YES
974851	60	900	2070	830	2033	YES
974854	90	900	2070	830	2033	YES
974852	60	1000	2070	930	2033	YES
974855	90	1000	2070	930	2033	YES

OPTIONAL				
PEDESTRIAN REFERENCE	BULL'S EYE	DOOR CLOSER	ANTI MS X=210	ANTI PUSH X=170
974850	YES	YES	YES	YES
974853	NO	YES	YES	YES
974851	YES	YES	YES	YES
974854	NO	YES	YES	YES
974852	YES	YES	YES	YES
974855	NO	YES	YES	YES

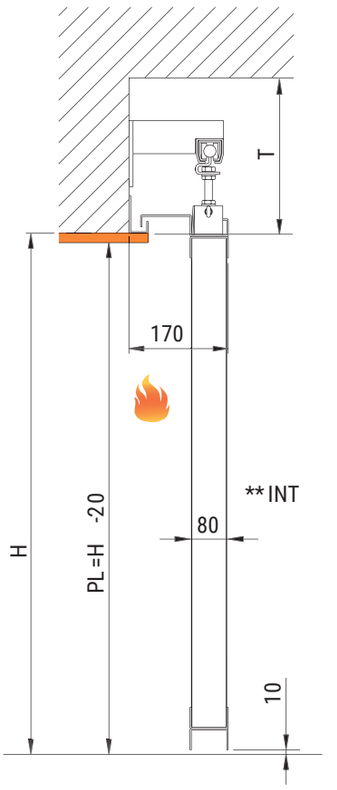
SLIDING FIRE DOOR

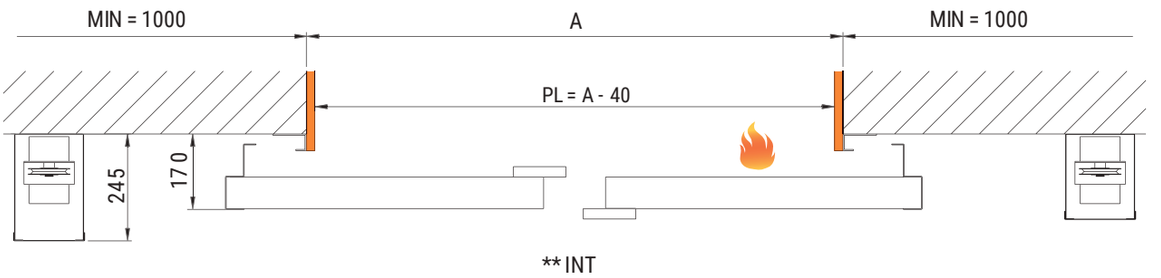
Double leaf $EI_2$60 / $EI_2$90



T depends on m² of opening
A X H ≤ 9 m² T=250
9 m² < A x H ≤ 16 m² T=250
16 m² < A x H ≤ 25 m² T=300
25 m² < A x H ≤ 30 m² T=350
30 m² < A x H ≤ 40 m² T=500

	MIN.	MÁX.
A	1400	8000
H	1500	5000





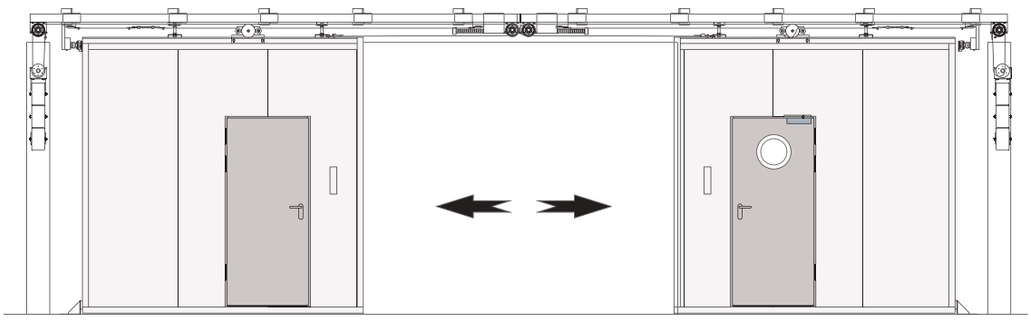
A: Opening width
H: Opening height
T: Distance to the ceiling
PL: Clear passage
INT: Inside
MIN: Minimum

Brickwork Gypsum or Plasterboard

IMPORTANT: Cover with gypsum or plasterboard.

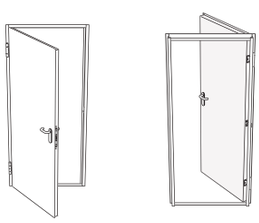
SLIDING FIRE DOOR

Double leaf $EI_2$60 / $EI_2$90 with wicket gate for pedestrians

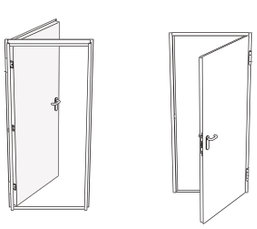


	MIN.	MÁX.
A	1400	8000
H	1500	5000

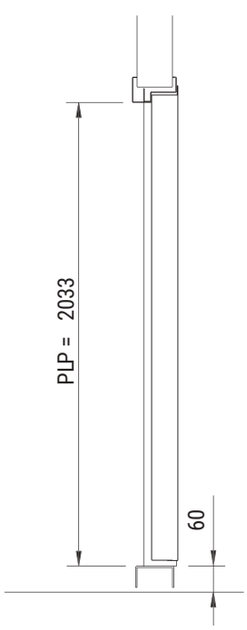
OPENING DIRECTION

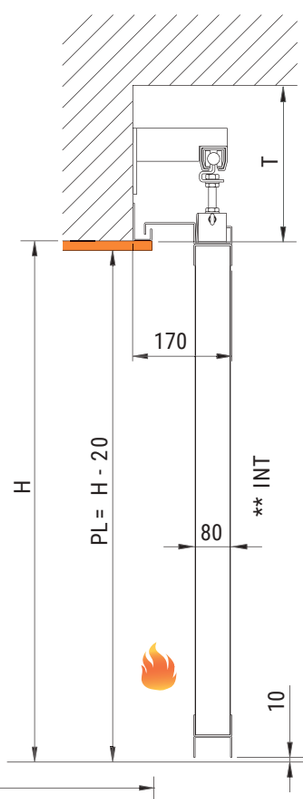


Yellow / Right

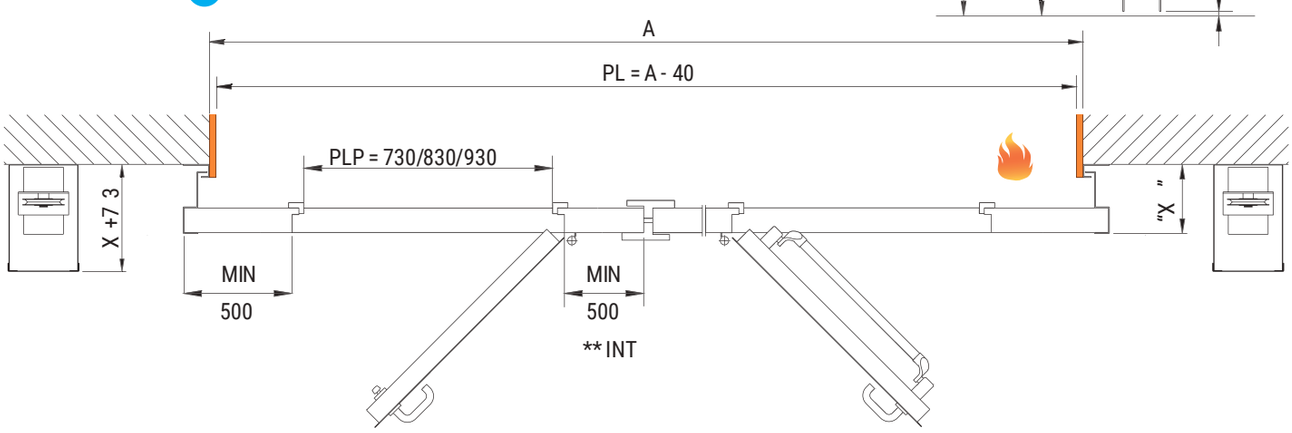


Blue / Left





Brickwork Gypsum or Plasterboard



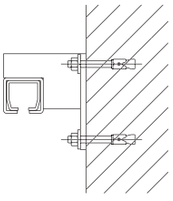
IMPORTANT: Cover with gypsum or plasterboard.

A: Opening width
H: Opening height
T: Distance to the ceiling
PL: Clear passage
PLP: Clear pedestrian passage
INT: Inside
MIN: Minimum

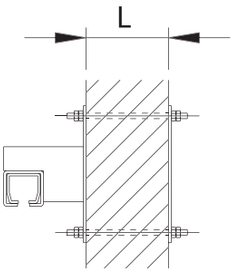
STANDARD						
PEDESTRIAN REFERENCE	RF	WIDTH	HEIGHT	WIDTH CLEARANCE	HEIGHT CLEARANCE	DOORKNOB LOCK X=170
974850	60	800	2070	730	2033	YES
974853	90	800	2070	730	2033	YES
974851	60	900	2070	830	2033	YES
974854	90	900	2070	830	2033	YES
974852	60	1000	2070	930	2033	YES
974855	90	1000	2070	930	2033	YES

OPTIONAL				
PEDESTRIAN REFERENCE	BULL'S EYE	DOOR CLOSER	ANTI MS X=210	ANTI PUSH X=170
974850	YES	YES	YES	YES
974853	NO	YES	YES	YES
974851	YES	YES	YES	YES
974854	NO	YES	YES	YES
974852	YES	YES	YES	YES
974855	NO	YES	YES	YES

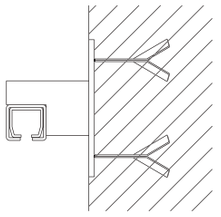
INSTALLING THE RAIL



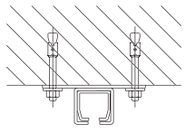
SPITS. Solid wall or reinforced concrete wall.



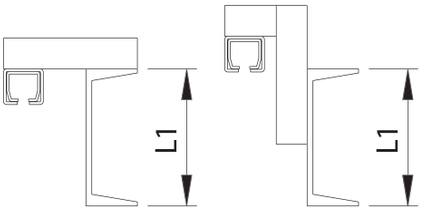
THROUGH BOLT. Hollow walls, attachment of side plates.



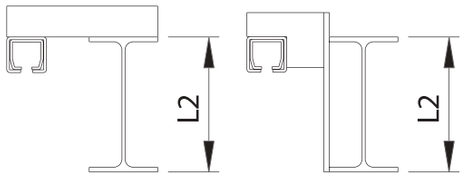
PLATES WITH CAVITY ANCHORS. Plate with anchors to be installed with concrete on brick or breeze-block walls.



CEILING. Solid or reinforced-concrete ceiling.



UPN.
Weld to metal structure.



IPN.
Weld to metal structure.

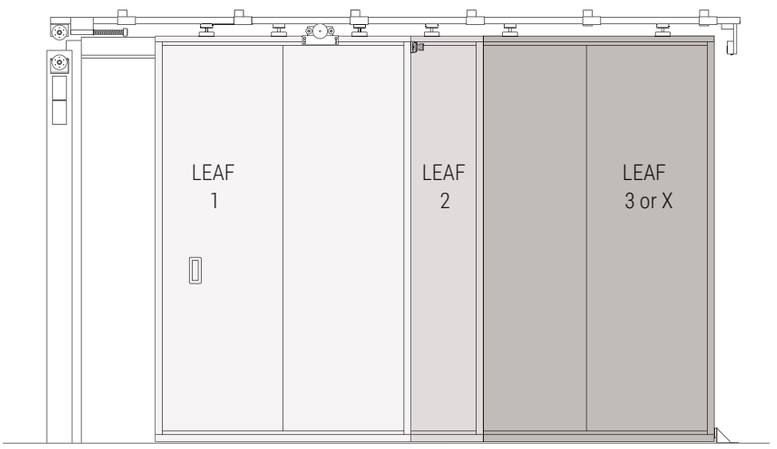
ROPER

PUERTAS METÁLICAS

CCT Hangar
Sliding Fire Door

THIS DOOR TYPE IS DESIGNED TO COMPARTMENTALISE THE SPACES IN BUILDINGS WHERE, OWING TO THEIR ARCHITECTURE, BUSINESS ACTIVITIES OR MATERIALS STORED, THERE IS A RISK OF FIRE. ITS FUNCTION IS TO ACT AS A BARRIER TO FIRE, TO AVOID IT SPREADING BETWEEN THE DIFFERENT COMPARTMENTS THAT IT SEPARATES. IT IS ESPECIALLY RECOMMENDED FOR USE WITH VERY WIDE OPENINGS WHERE IT IS NECESSARY TO DIVIDE THE WIDTH OF THE OPENING THAT NEEDS TO BE COVERED INTO SEVERAL INDEPENDENT LEAVES, WHICH SLIDE ALONG SEVERAL PARALLEL RAILS. IT IS ALSO SUITABLE FOR INSTALLATIONS WHERE THE SPACE AVAILABLE TO ACCOMMODATE THE LEAVES IS LIMITED AND MUCH SMALLER THAN THE WIDTH OF CLEAR PASSAGE OF THE OPENING THAT NEEDS TO BE COVERED.

"X" $EI_2$60 leaves

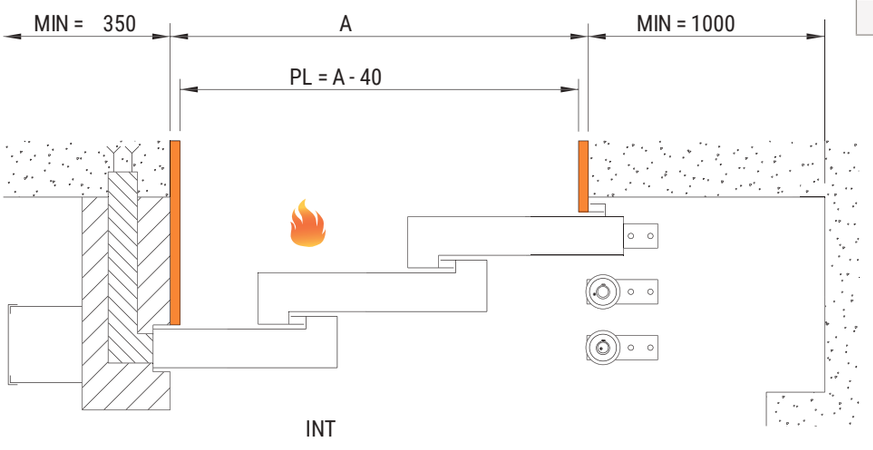


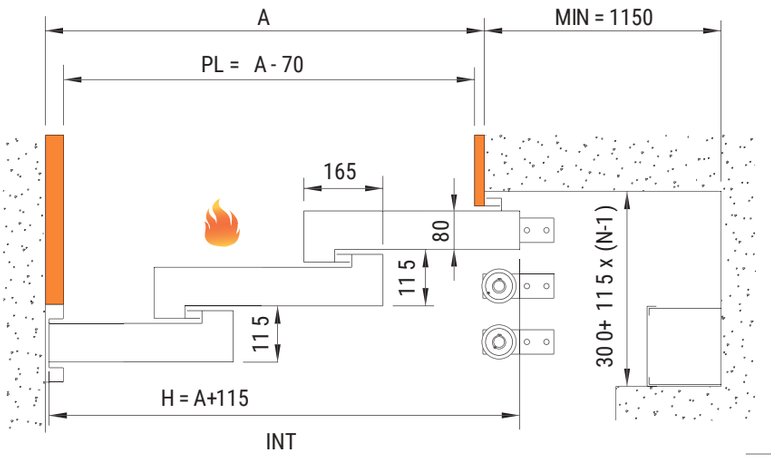
T depends on m^2 of opening

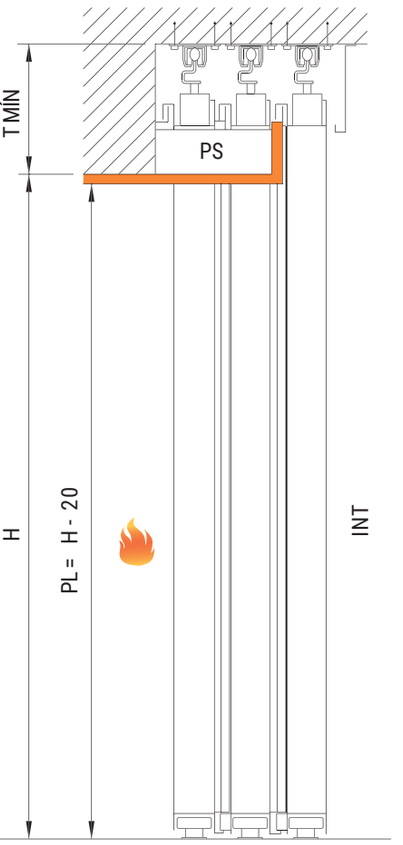
A X H ≤ 9 m^2 T=350
9 m^2 < A x H ≤ 16 m^2 T=400
16 m^2 < A x H ≤ 25 m^2 T=450
25 m^2 < A x H ≤ 30 m^2 T=500
30 m^2 < A x H ≤ 40 m^2 T=600

	MIN.	MÁX.
A	1400	8000
H	1500	5000

Brickwork Gypsum or Plasterboard



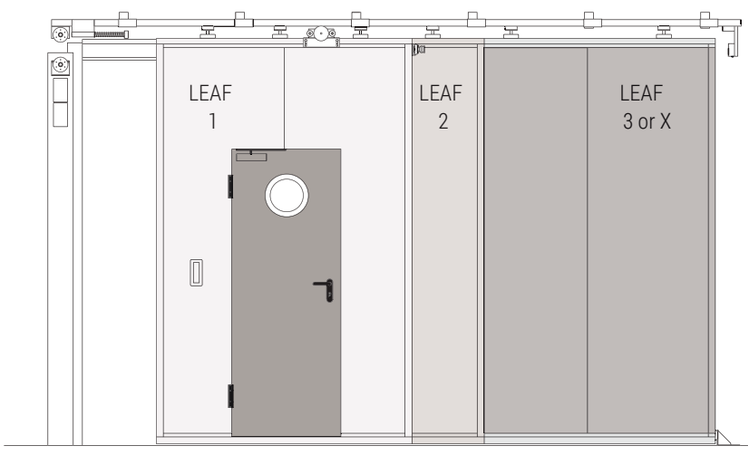


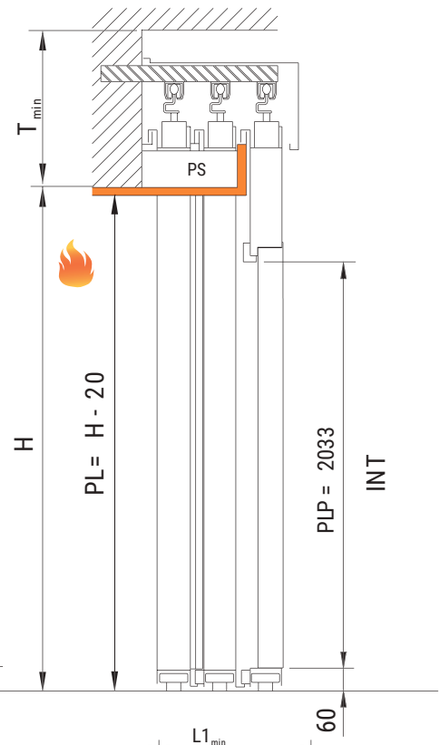


A: Opening width
H: Opening height
T: Distance to the ceiling
PL: Clear passage
PE: Weight
PS: Top panel
INT: Inside
MIN: Minimum
N: Number of leaves

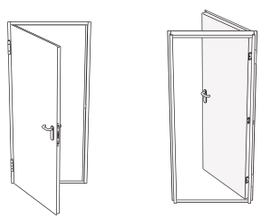
IMPORTANT: Cover with gypsum or plasterboard.

"X" leaves EI$_2$60 with wicket gate for pedestrians

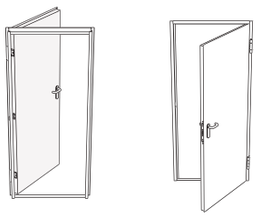




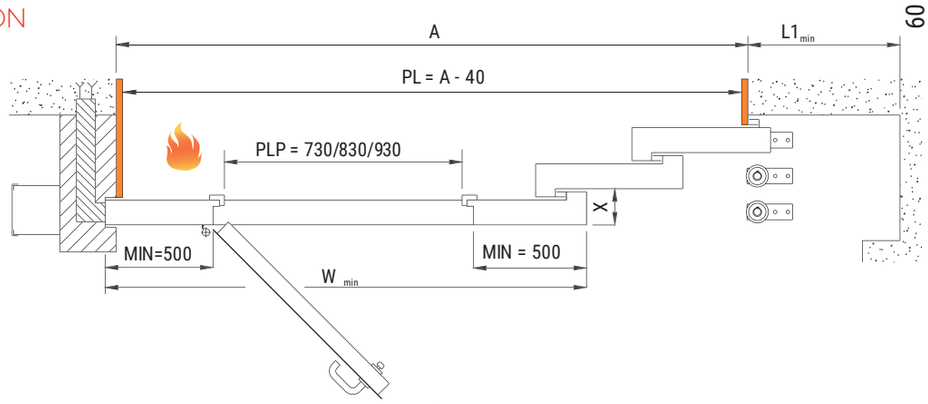
OPENING DIRECTION

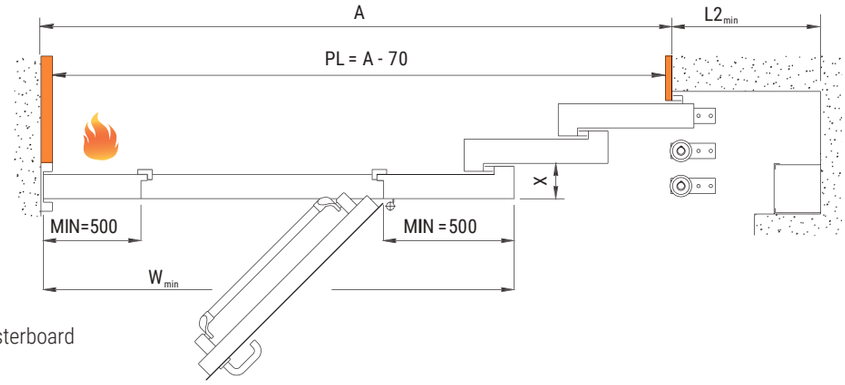


Yellow / Right



Blue / Left





Brickwork Gypsum or Plasterboard

STANDARD						
PEDESTRIAN REFERENCE	RF	WIDTH	HEIGHT	WIDTH CLEARANCE	HEIGHT CLEARANCE	DOORKNOB LOCK X=170
974850	60	800	2070	730	2033	YES
974853	90	800	2070	730	2033	YES
974851	60	900	2070	830	2033	YES

OPTIONAL			
BULL'S EYE	DOOR CLOSER	ANTI MS X=210	ANTI PUSH X=170
YES	YES	YES	YES
YES	YES	YES	YES
YES	YES	YES	YES

A: Opening width
H: Opening height
PL: Clear passage
PLP: Clear passage pedestrian
PE: Weight
PS: Top panel
INT: Inside
MIN: Minimum
W_{min}: Minimum leaf width

IMPORTANT: Cover with gypsum or plasterboard.

ROPER

PUERTAS METÁLICAS

GIR Vertical Sliding Fire Door

THIS DOOR TYPE IS DESIGNED TO COMPARTMENTALISE THE SPACES IN BUILDINGS WHERE, OWING TO THEIR ARCHITECTURE, BUSINESS ACTIVITIES OR MATERIALS STORED, THERE IS A RISK OF FIRE. ITS FUNCTION IS TO ACT AS A BARRIER TO FIRE, TO STOP IT SPREADING ACROSS THE DIFFERENT COMPARTMENTS THAT IT SEPARATES. OWING TO HOW IT IS CONSTRUCTED, IT IS ESPECIALLY RECOMMENDED FOR OPENINGS WHERE THE LEAVES CANNOT BE ACCOMMODATED LATERALLY FOR REASONS OF SPACE.

Owing to how it is constructed, it is especially recommended for openings where the leaves cannot be accommodated laterally for reasons of space.
The GIR 60/90 vertical sliding fire door is made of top-quality materials that comply with the safety regulations in force.

SPECIFICATIONS

Our entire range of vertical sliding fire doors has the following specifications:
• Top-quality materials.
• Made of heat-galvanised sheet produced using the Sendzimir process.
• High-quality finish and aesthetics.
• Advanced manufacturing methods using state-of-the-art machinery.
• The GIR vertical sliding door is made of a leaf manufactured using sheet panels with a thickness of 1.2 mm, connected using rock wool with a density of 165 kg/m^3 and mineral glue, and with a galvanised sheet frame with a thickness of 2 mm. It is suspended between two vertical tracks by two steel cables.
• The leaf is held in its highest position by an electromagnet or thermal fuse. In the event of fire, the retention system releases the leaf to allow it to close, to prevent the spread of fire.
• The weight of the leaf is balanced by a counterweight connected to the leaf by two steel cables.
• On the inside of the leaf, there are two recessed handles to help to open and close the door, and four fire-rated access panels for attaching the guide sheaves to the leaf.
• The leaf is equipped with an anti-drop mechanism, which guarantees that, should the cables break, the leaf will be blocked in the vertical tracks.
• There is no floor track across the area of passage.
• The GIR vertical sliding door is tested and approved in accordance with standard EN 1634-1 and classified in accordance with standard EN 13501-2.

RAL colours (optional)

FINISH

The GIR vertical sliding fire door can be supplied with a galvanised finish or cabin painted in accordance with the RAL colour chart.

IMPORTANT: doors tested by ROPER are manufactured with the maximum allowable dimensions for official ovens. For larger doors, ROPER commits to constructing the door using the same materials and structure as the tested doors, and if necessary, based on the opinion and experience of the company, it will reinforce parts of the door that may be weaker.

Vertical sliding fire doors can be officially approved only when they are installed in a rigid supporting structure.

FIRE RESISTANCE

The vertical sliding door has fire resistance of 60 minutes.

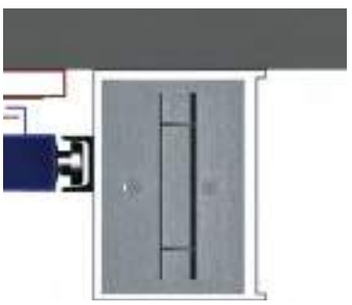
MODEL	FIRE RESISTANCE	DESCRIPTION
GIR - 60 - 1H	60 min	Single-leaf vertical sliding fire door

LEAVES

The leaf is hung between two guide rails using steel cables. The cables hooked onto the sheaves of the anti-drop device pass through the guide pulleys to hold the counterweights; this counterbalances the weight of the leaf. The leaf is made of joined panels manufactured in galvanised steel and filled with insulating material.
The number of panels is determined by the dimensions of the required door.
The outside edge of the leaf is manufactured using U-profiles made of galvanised sheet steel with a thickness of 2 or 3 mm, depending on the weight. On the inside, there are two recessed handles to help to open and close the door, and four fire-rated access panels for attaching the sheaves to the leaf.

PANELS

Made of two galvanised steel sheets with a thickness of 1.2 mm, filled with insulating material made from layers of rock wool, to form a structure with a thickness of 75 mm.



TRACK ASSEMBLY, COUNTERWEIGHT UNIT

Comprising two tracks made from hot-rolled profiles. One or both tracks are attached to a unit to house the counterweights.

COUNTERWEIGHT ASSEMBLY

Assembly comprising hardware with two threaded rods supporting a set of adjustable counterweights to counterbalance the weight of the leaf. The counterweights can go on one side of the leaf or on both sides, depending on the dimensions of the door.

COUNTERWEIGHT

RADIAL SPEED REDUCER

Piece that is installed on top of the leaf. It is used to achieve a smooth, uniform closing speed for the leaf.

SPEED PULLEY

WEATHERPROOFING ASSEMBLY

Comprising pieces of galvanised steel with a thickness of 2 mm that are installed on the wall around the doorway. They seal the doorway via clamped overlaps and U-profiles.
Attached along their length is a high-expansion intumescent seal, which ensures that the door behaves optimally as a fire barrier.

ANTI-DROP DEVICE

Installed at the top left and right of the leaf. The purpose of this component is to guide the leaf along the rail and act as a safety element should the support system fail, by preventing the leaf from free-falling. It uses a mechanism similar to that of a ratchet, and gets stuck in the tracks.

ANTI-DROP DEVICE

SHEAVES

Installed to the bottom right and left of the leaf, these are used to guide the leaf along the rail.

ELECTROMAGNET

Installed on the top part of the leaf, this provides a magnetic force of 40–60 daN. It complies with the requirements of standard EN 1155.

SHEAVE

WELDED THERMAL FUSE (optional)

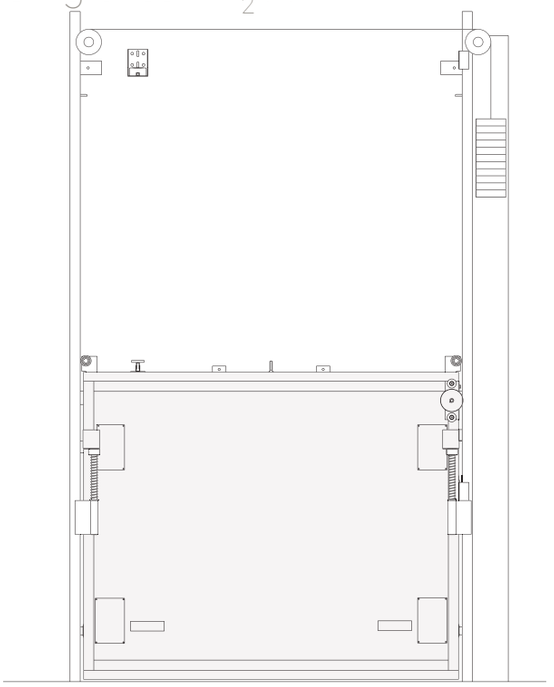
Easy to install on the top part of the vertical-sliding leaf.
In the event of fire, it releases the door when it reaches a temperature of above 70 °C. The maximum load at that temperature is 79.8 kg.

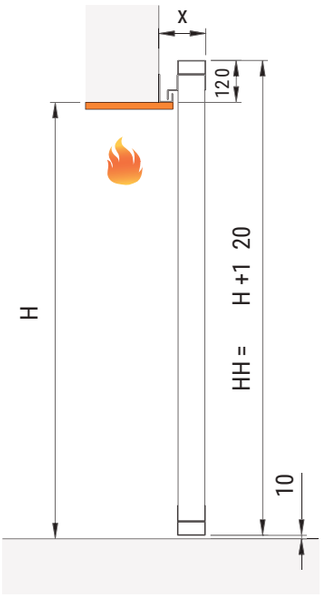
Welded fuse

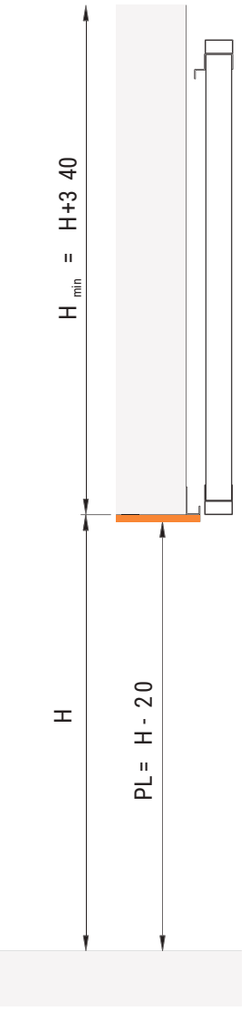
Electromagnet

VERTICAL SLIDING FIRE DOOR

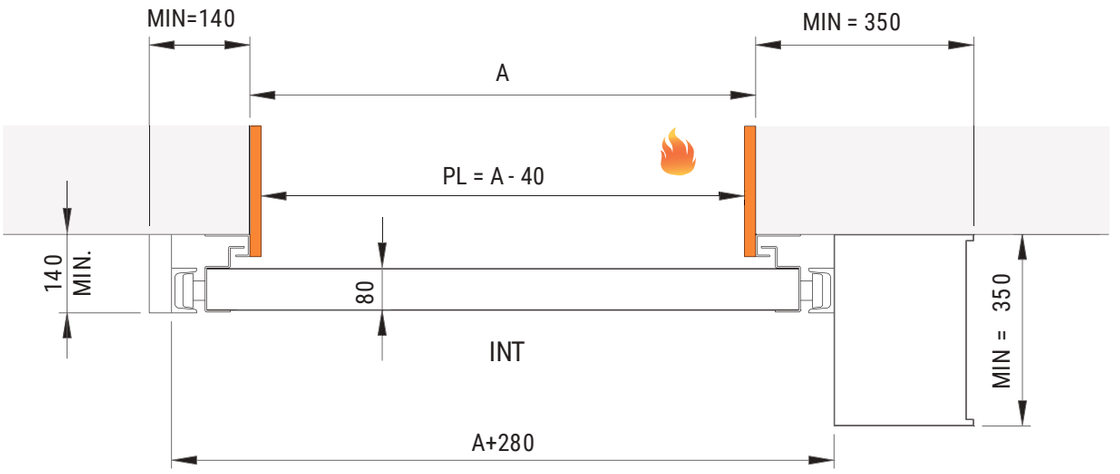
Single leaf $EI_2$60







GIR 60 / 90 - 1H		
	Mín.	MÁx.
A	1400	8000
H	1500	5000



A: Opening width
H: Opening height
HH: Leaf height
PL: Free passage
CP: Counterweight
H_{min}: Minimum height
INT: Inside
MIN: Minimum

IMPORTANT: Cover with gypsum or plasterboard.

For other measurements, please contact our sales department.

FIRE-RESISTANT PEDESTRIAN DOOR
$EI_2$60 C5

FRAME
Manufactured in galvanised sheet with a thickness of 1.5 mm. In accordance with standard EN 10142.

LEAF
Manufactured in galvanised sheet steel with a thickness of 0.6 mm with 2.5-mm reinforcements around the inside of the edges.
Inside, the entire surface is insulated using rock wool weighing 165 kg/m3 attached with intumescent glue (zero toxicity and non-flammable).
Between the two lower hinges, there is a safety pivot that prevents the leaf from being separated from the frame or deforming from the heat.

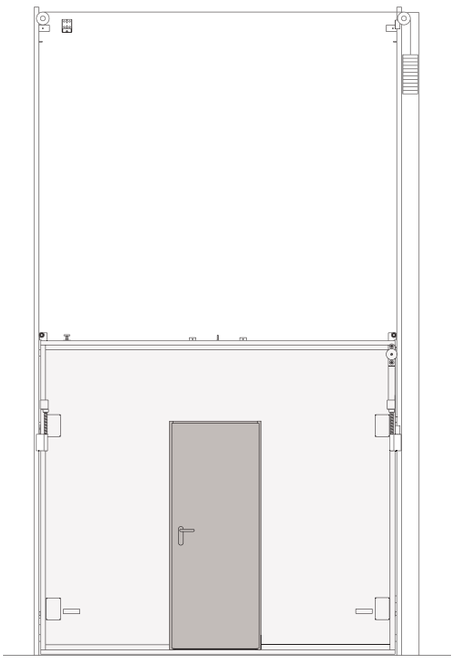
HINGES
Two galvanised fire hinges without springs for doors in accordance with standard EN 1935 for $EI_2$60 C5.

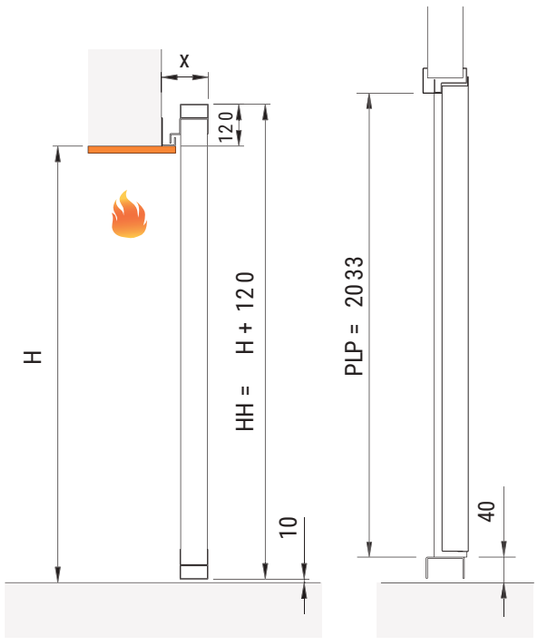
INTUMESCENT SEAL
This seal runs along the entire edge of the frame except for the bottom section. Its dimensions are 20 x 2.5 mm. It is graphite-based, black, flexible, insoluble and odourless with high expansion.

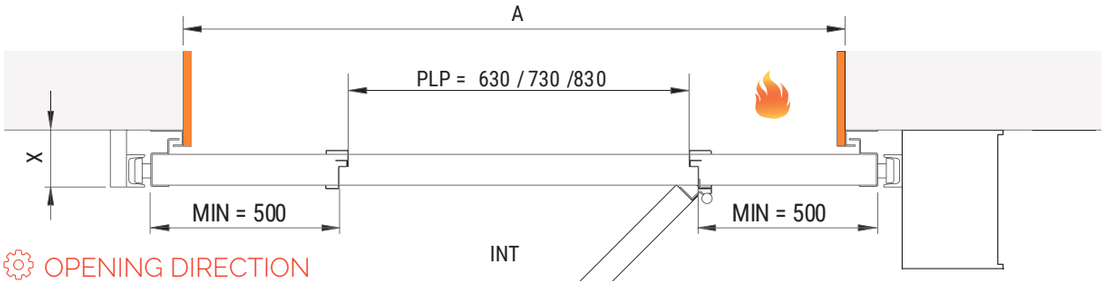
FIRE LOCK
Built into the leaf. Reversible with double locking and slam latch. Complies with standard EN 12209 and carries the CE mark.

VERTICAL SLIDING FIRE DOOR

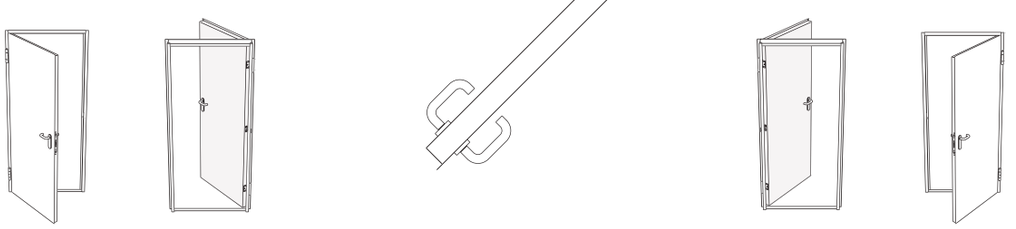
Single leaf $EI_2$60 with wicket gate for pedestrians







OPENING DIRECTION



Yellow / Right

Blue / Left

A: Opening width
H: Opening height

PLP: Clear passage pedestrian
INT: Inside
MIN: Minimum

STANDARD						
PEDESTRIAN REFERENCE	RF	WIDTH	HEIGHT	WIDTH CLEARANCE	HEIGHT CLEARANCE	DOORKNOB LOCK X=170
974850	80	800	2070	730	2033	YES
974853	80	900	2070	830	2033	YES
974851	80	1000	2070	930	2033	YES

OPTIONAL			
BULL'S EYE	DOOR CLOSER	ANTI MS X=210	ANTI PUSH X=170
YES	YES	YES	YES

IMPORTANT: Cover with gypsum or plasterboard.

ROPER

PUERTAS METÁLICAS

Fire-Rated Access Panel

ROPER FIRE-RATED ACCESS PANELS ARE USED FOR FIRE PROTECTION IN ZONES WHERE, DUE TO THEIR SIZE, IT IS NOT POSSIBLE TO INSTALL A FIRE DOOR. THEY ARE IDEAL FOR INSTALLATION ON METERS, COMMUNICATION SYSTEMS, CONTROL PANELS AND SIMILAR.

RBG FIRE-RATED ACCESS PANEL with Large Hinges

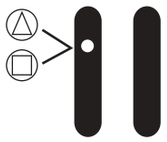
SPECIFICATIONS

- Accredited quality control and tests in accordance with standards.
- Fully assembled, ready to install.
- Durability.
- Standard and special dimensions.
- Different types of finishes and colours.
- A wide variety of accessories is available.
- The ROPER RBG fire-rated access panel is made up of two trays of galvanised steel with a thickness of 0.6 mm. Positioned between the two trays is insulation based on rock wool, with a thickness of 55 mm.
- It has a slam latch with double locking that carries the CE mark in accordance with standard EN 12209. It is opened and closed using a triangle key (standard finish) or with a cylinder lock (optional finish).
- It has a frame around the edge, which makes it easier to open, in either direction.
- The high-expansion intumescent seal is attached around the perimeter of the frame. The joint between the frame and leaf is achieved through two galvanised-steel hinges in accordance with DIN 18272.

CERTIFICACIÓN

CLASSIFICATION: $EI_2$60. The panels are tested in certified laboratories in accordance with standard EN 1634-1 for fire doors.

STANDARD HARDWARE



Lock cover without hole on the inside, with lock cover on the outside for triangle or square key.

OPTIONAL HARDWARE

Inside lock cover without hole and outer lock cover for cylinder lock.

Inside lock cover without hole and outer lock cover with handle and for cylinder lock.

Inside lock cover without hole and outer lock cover with handle and for cylinder lock.

STANDARD FINISH

Galvanised

MEASUREMENTS

ROPER RBG fire-rated access panels are manufactured with 27 different dimensions.

BUILT OPENING		HEIGHT				
		1600	1700	1800	1900	2000
WIDTH	500	●	○	●	○	○
	600	○	○	●	○	○
	700	○	○	○	○	○
	800	○	○	●	○	
	900	○	○	○	○	
	1000	○	○	●	○	

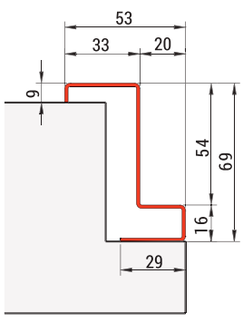
● Standard measurements.
○ NON-standard measurements

* Please ask the sales department for other measurements.

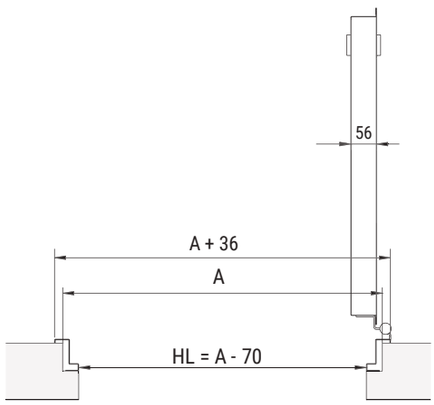
CLEAR PASSAGE

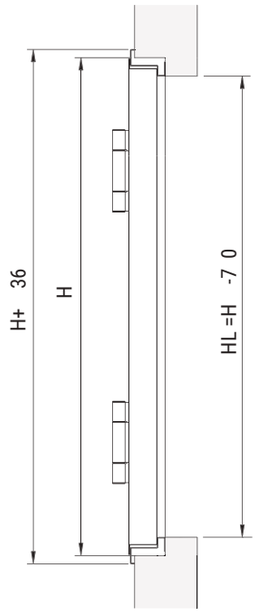
To calculate the clear passage, subtract 50 mm in width and height from the built opening.

*** VERY IMPORTANT: WHEN PLACING YOUR ORDER, STATE WIDTH X HEIGHT, IN THAT ORDER.**



RBG FRAME





A: Opening width
H: Opening height
HL: Clearance height

RBO FIRE-RATED ACCESS PANEL with Concealed Hinges

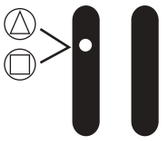
Fire-rated access panels are used for fire protection in places where, due to their size, it is not possible to install a fire door: meters, control panels, etc. Fire-rated access panels can be found in the main parts of any building. It is common to see them with conventional fire hinges on the outside, but, as a result of numerous studies and tests, ROPER has managed to manufacture a fire-rated access panel that goes unnoticed because its hinges are concealed.
In addition to safety, the ROPER fire-rated access panel with concealed hinges offers a design that will satisfy the most demanding tastes.

The ROPER RBO fire-rated access panel with concealed hinges has a frame around the edge in galvanised steel, optionally pre-painted, with a thickness of 1.2 mm, and a leaf made of two trays of galvanised sheet, optionally pre-painted, containing a rigid rock-wool panel with a thickness of 55 mm. A high-expansion intumescent seal is attached to the frame to ensure an effective seal when it comes into contact with heat. A lock carrying the CE mark ensures that the leaf is locked in accordance with standard EN 12209.

CERTIFICATION

CLASSIFICATION: EI260. The panels are tested in certified laboratories in accordance with standard EN 1634-1 for door and shutter assemblies.

HARDWARE



STANDARD. Inside lock cover without hole and outside lock cover for triangle or square key.

OPTIONAL Inside lock cover without hole and outside lock cover for cylinder lock.

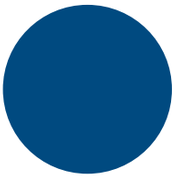
STANDARD FINISH

Galvanised

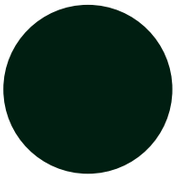
OPTIONAL FINISH

RBO fire-rated access panels with concealed hinges are manufactured in seven colours and two imitation-wood finishes.

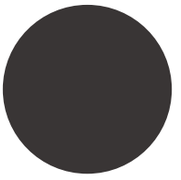
RAL 3000



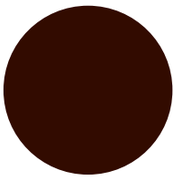
RAL5010



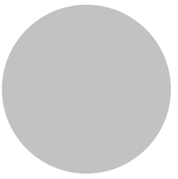
RAL 6009



RAL 7024



RAL 8017



RAL 9006

RAL 9010

LIGHT OAK

DARK OAK

The sample colours are offered by way of guidance. They do not depict the actual colours and tones of the sheet used.

RBO FIRE-RATED ACCESS PANEL with Concealed Hinges

Single leaf

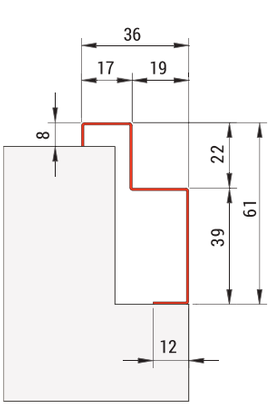
MEASUREMENTS

Single-leaf fire-rated access panels are manufactured in 52 different sizes.

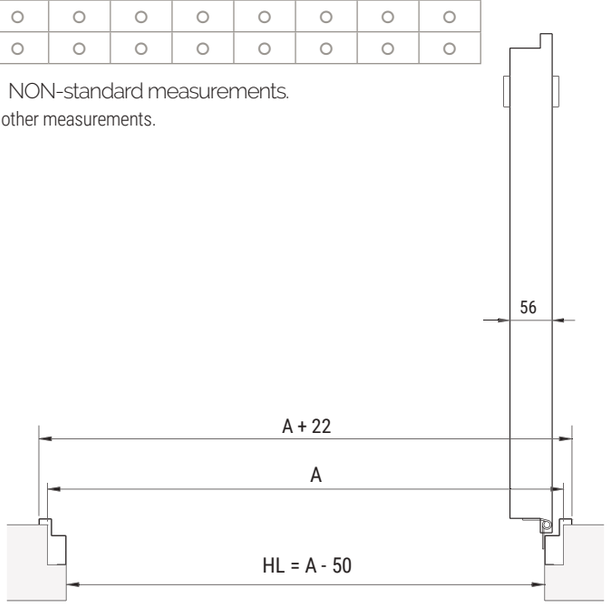
BUILT OPENING		HEIGHT										
		500	600	700	800	900	1000	1100	1200	1300	1400	1500
WIDTH	400	●	○	○	○	○	○	○	○	○	○	○
	500	●	●	●	○	○	●	○	○	○	○	●
	600	○	●	○	●	○	●	○	○	○	○	○
	700		○	○	○	○	○	○	○	○	○	○
	800			○	○	○	○	○	○	○	○	○

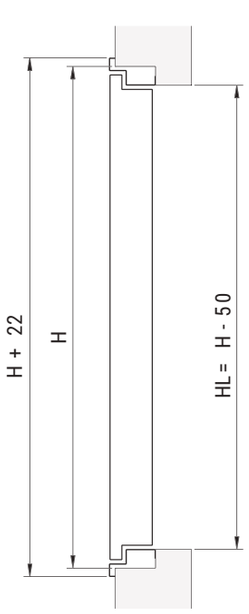
● Standard measurements. ○ NON-standard measurements.

* Please ask the sales department about other measurements.



RBO FRAME





A: Opening width
H: Opening height
HL: Clearance height

RBO FIRE-RATED ACCESS PANEL with Concealed Hinges

Double leaf

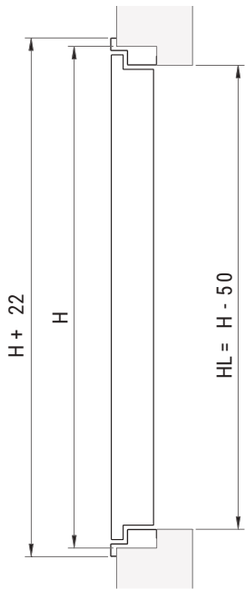
MEASUREMENTS

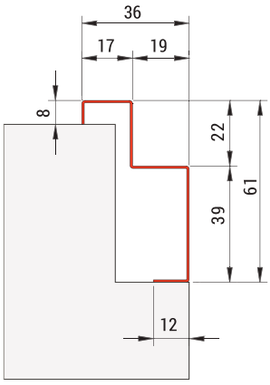
For double-leaf fire-rated access panels, 26 different sizes are available, as per the table.

BUILT OPENING		HEIGHT					
		500	600	700	800	900	1000
WIDTH	1000	●	●	○	○	○	●
	1200	○	●	○	○	○	○
	1400		○	○	○	○	●
	1600			○	○	○	○
	1800				○	○	●
	2000					○	○

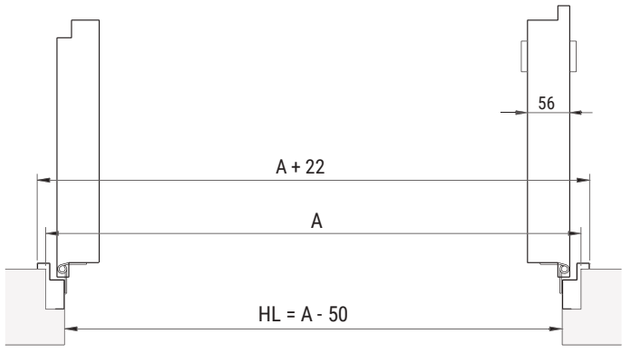
● Standard measurements. ○ NON-standard measurements.

* Please ask the sales department for other measurements.





RBO FRAME



A: Opening width
H: Opening height
HL: Clearance height

Multipurpose

ROPER

PUERTAS METÁLICAS

Multipurpose Door

THE ROPER MULTIPURPOSE DOOR IS DESIGNED TO ADAPT TO ALL TYPES OF HOUSING, STORAGE ROOMS, BASEMENTS, WINERIES, MACHINERY ROOMS, INDUSTRIAL ENVIRONMENTS, WAREHOUSES, DETACHED HOUSES, SCHOOLS, GARAGES AND COUNTLESS OTHER APPLICATIONS.
THE ROBUSTNESS OF ITS LEAF AND THE QUALITY OF ITS MATERIALS COMBINED WITH DIFFERENT FINISHES MAKE IT INDISPENSABLE IN PLACES WHERE ITS FEATURES ARE NEEDED.

MULTIPURPOSE SWING DOOR

Single leaf

The ROPER single-leaf multipurpose door is manufactured in different sizes and with three different types of frame: standard, Z-section frame and MC-50. All our standard models are delivered with the choice of two different finishes: galvanised or painted white (RAL 9010).

SPECIFICATIONS

- Heat-galvanised steel produced using the Sendzimir process.
- Manufactured in galvanised sheet with a thickness of 0.5 mm, with or without ventilation.
- The frame is made of galvanised sheet with a thickness of 0.8 mm.
- The whole assembly is delivered in white (RAL 9010), powder coated and baked at 180 °C. This coating gives the product excellent resistance to rust, even in damp environments.
- It comes with six anchors for installation on site.
- Two two-part hinges.
- Reversible lock.
- The door is delivered assembled and ready for installation.
- The door is delivered with a set of black plastic handles.

FINISH

The standard finish of the multipurpose door is coated in embossed white (RAL 9010). It can optionally be ordered coated in a different colour in accordance with the RAL chart.

Standard colour white (RAL 9010)

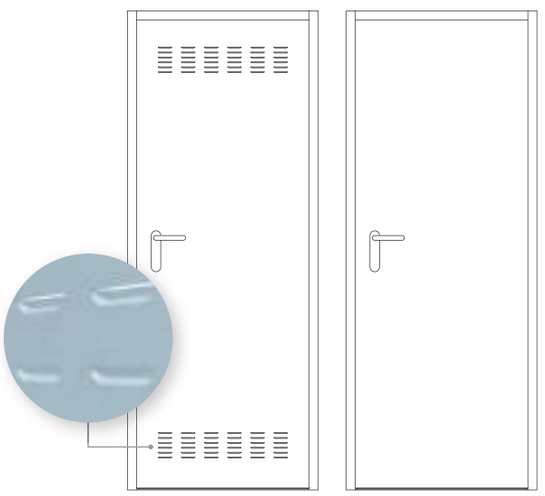
Galvanised

Imitation wood, dark oak

RAL colours (optional)

HANDLES

LP DOOR
Single leaf / standard frame

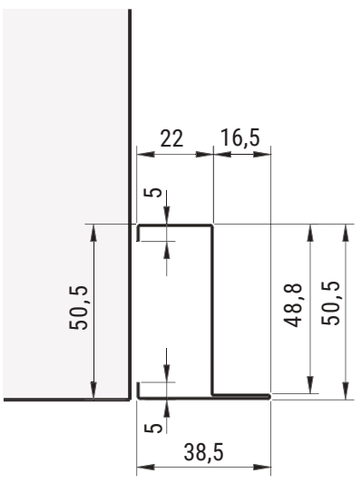


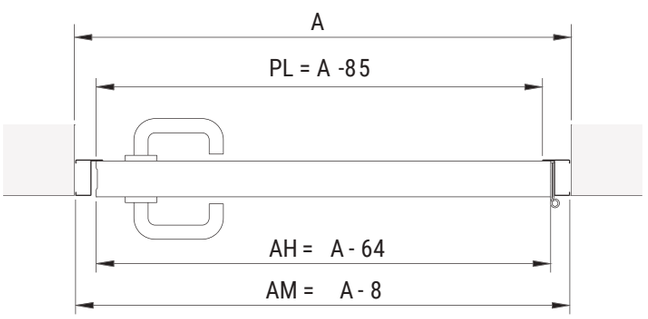
With ventilation

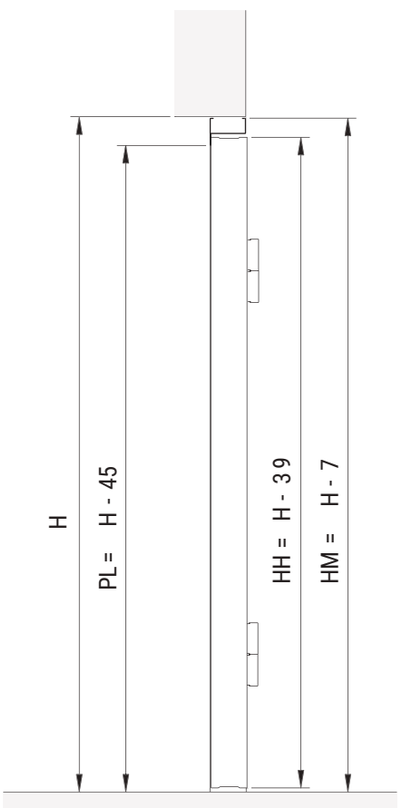
Without ventilation

MULTIPURPOSE DOOR WITH STANDARD FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
700	2100	615	2055
800		715	
900		815	
1000		915	

Optionally, it can be manufactured in heights of 2,015 / 2,150 mm.

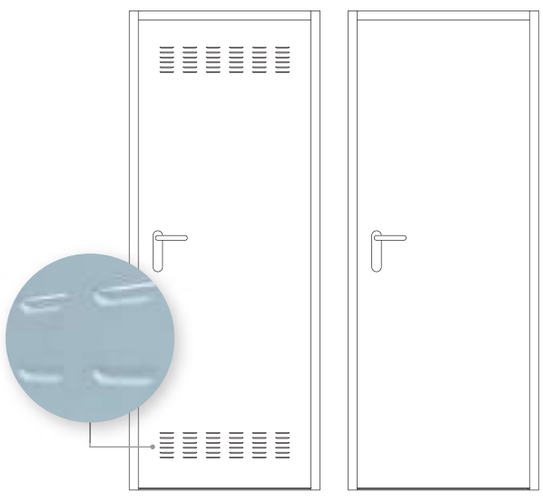






A: Opening width
AH: Leaf width
AM: Frame width
HL: Opening clearance
HH: Opening height
HM: Frame height

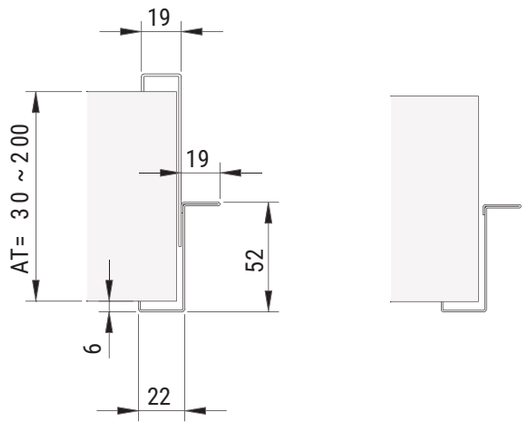
Single leaf / Z-section frame

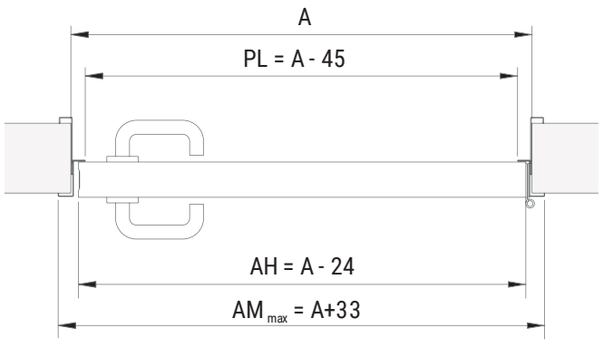


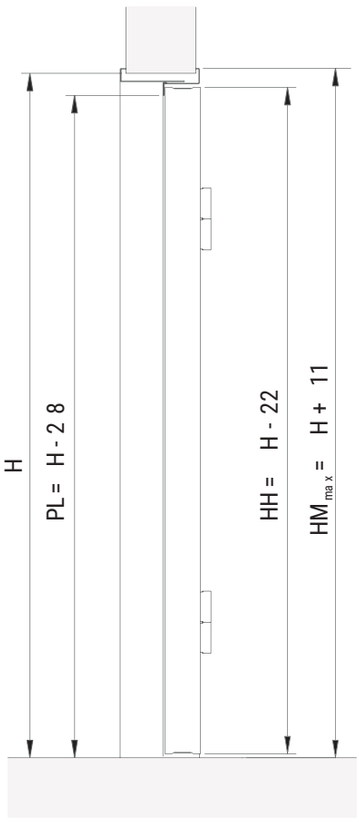
With ventilation Without ventilation

MULTIPURPOSE WITH Z-SECTION FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
660	2080	615	2055
760		715	
860		815	
960		915	

WITH SUBFRAME WITHOUT SUBFRAME

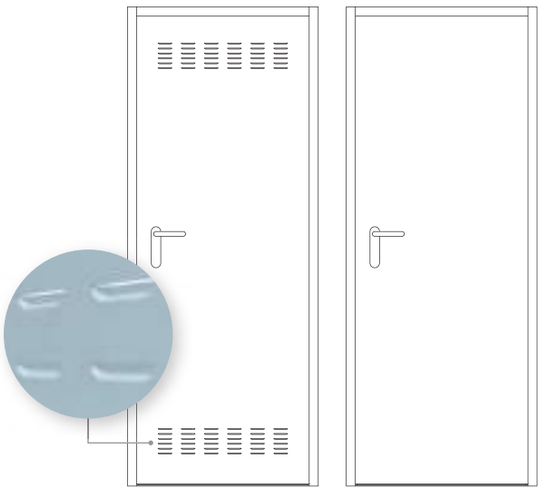






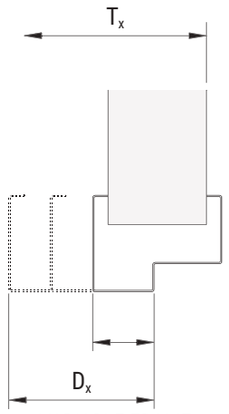
A: Opening width
H: Opening height
AH: Leaf width
AM$_{max}$: Maximum frame width
HL: Opening clearance
HH: Opening height
HM$_{max}$: Maximum frame height
PL: Clear passage
AT: Partition width

Single leaf / MC-50 frame

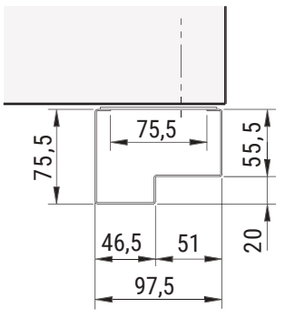


With ventilation Without ventilation

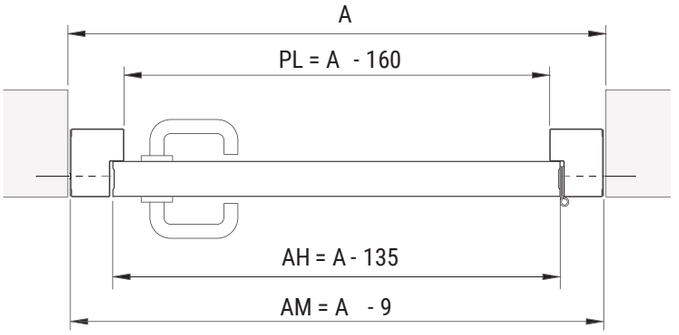
MULTIPURPOSE DOOR WITH MC-50 FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
700	2100	615	2055
800		715	
900		815	
1000		915	

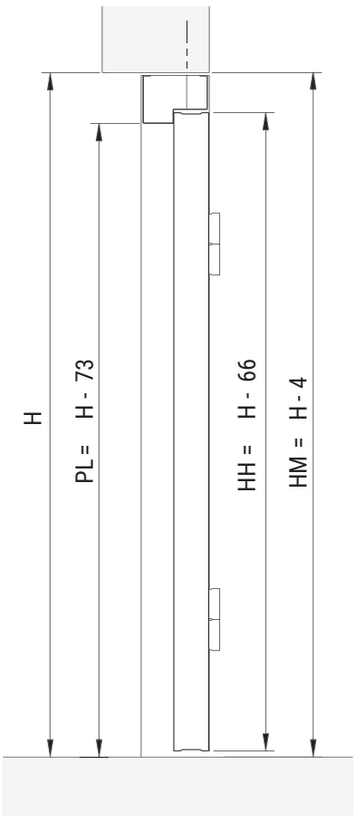


VARIABLE FRAME MEASUREMENT INSTALLATION OPTION



CORRIDOR-STYLE INSTALLATION OPTION





A: Opening width
AH: Leaf width
AM: Frame width
HL: Opening clearance
HH: Opening height
PL: Clear passage
H: Opening height
HM: Frame height
Tx: Variable partition
Dx: Variable measurement

MULTIPURPOSE SWING DOOR

Double leaf

The ROPER double-leaf multipurpose door is manufactured in different sizes and with three different types of frame: standard, Z-section frame and MC-50.

All our standard models are delivered with the choice of two different finishes: galvanised or painted white (RAL 9010).

SPECIFICATIONS

- Heat-galvanised steel produced using the Sendzimir process.
- Manufactured in galvanised sheet with a thickness of 0.5 mm, with or without ventilation.
- The frame is made of galvanised steel with a thickness of 0.8 mm.
- The whole assembly is delivered in white (RAL 9010) powder coating, baked at 180 °C. This coating gives the product excellent resistance to rust, even in damp environments.
- It comes with six anchors for installation on site.
- Two two-part hinges.
- Reversible lock.
- The door is delivered assembled and ready for installation.
- The door is delivered with a set of black plastic handles.

FINISH

The standard finish of the multipurpose door is coated in embossed white (RAL 9010). It can optionally be ordered coated in a different colour in accordance with the RAL chart.

Standard colour (RAL 9010)

Galvanised

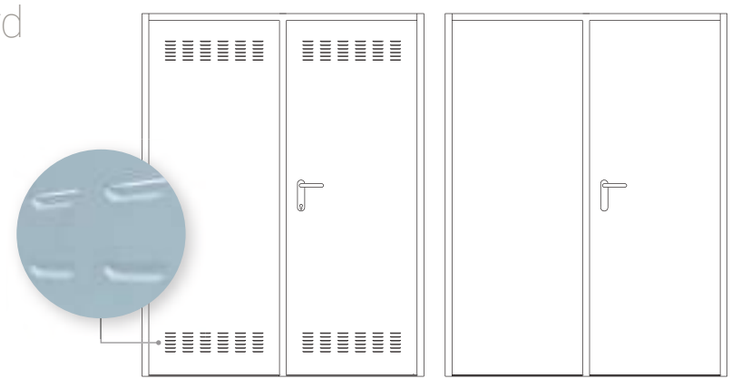
Imitation wood, dark oak

RAL colours (optional) white

HANDLES

LP DOOR

Double-leaf / standard frame

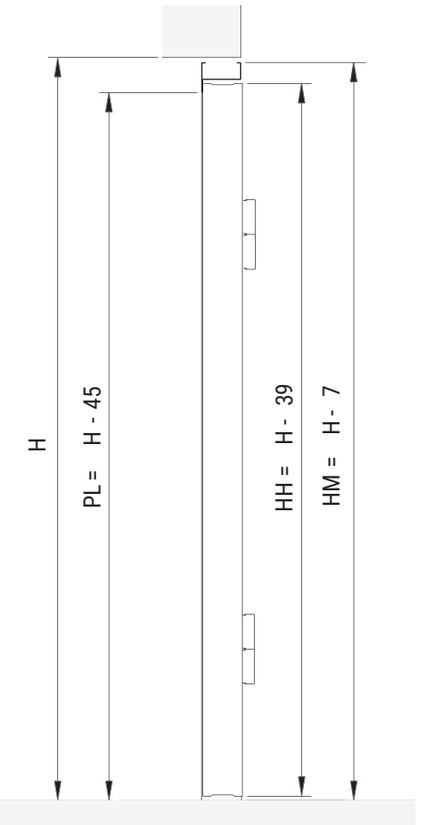


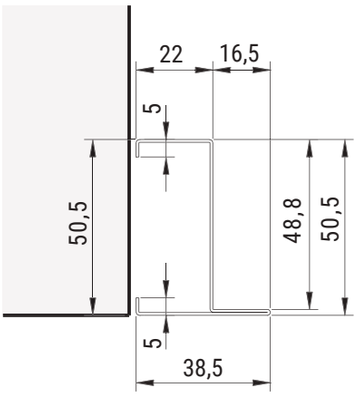
With ventilation

Without ventilation

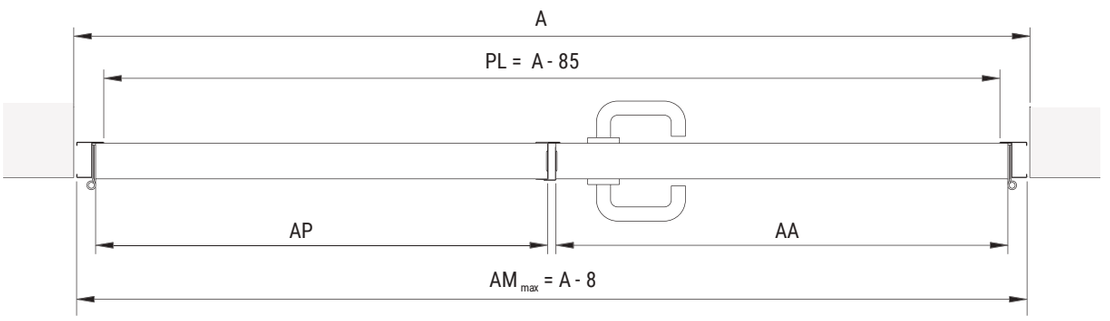
MULTIPURPOSE DOOR WITH STANDARD FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
1350	2100	1270	2055
1450		1370	
1550		1470	
1750		1670	

It can optionally be manufactured in heights of 2,015 / 2,150 mm.

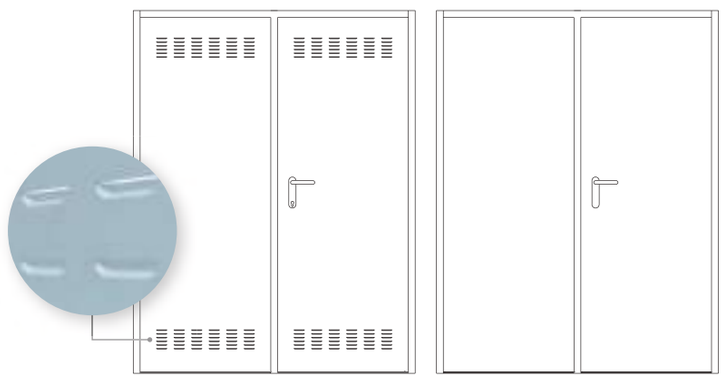




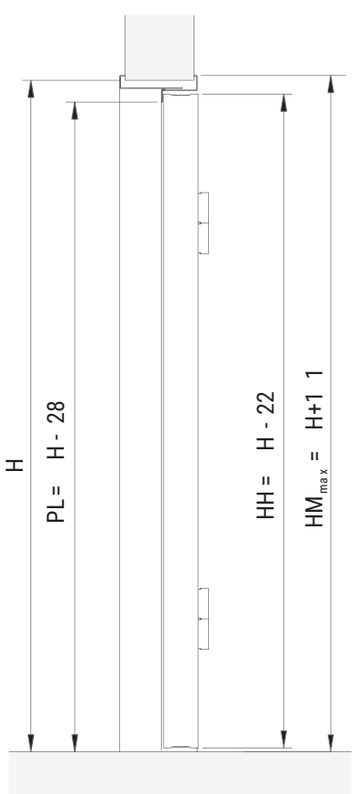
A: Opening width
H: Opening height
AP: Passive leaf width
AA: Active leaf width
AM_{max}: Maximum frame width
PL: Clear passage
HH: Opening height
HM: Frame height



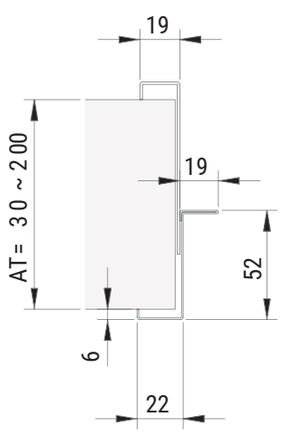
Double-leaf / Z-section frame



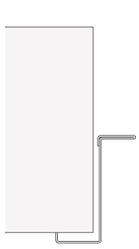
MULTIPURPOSE WITH Z-SECTION FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
1330	2080	1270	2055
1430		1370	
1530		1470	
1730		1670	

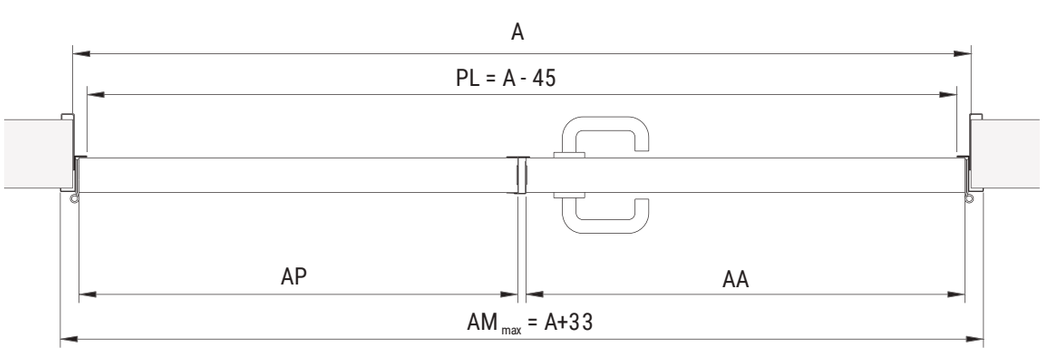


WITH SUBFRAME



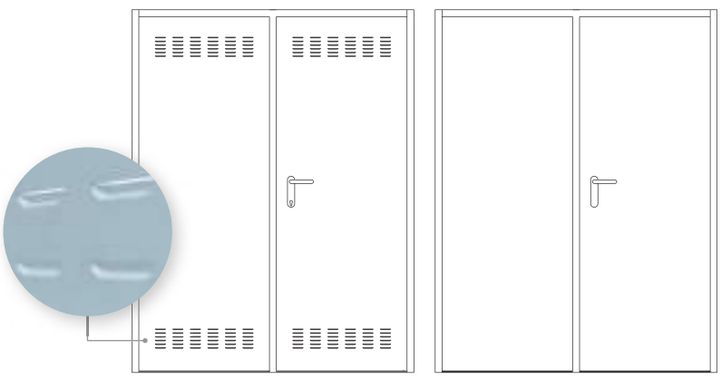
WITHOUT SUBFRAME



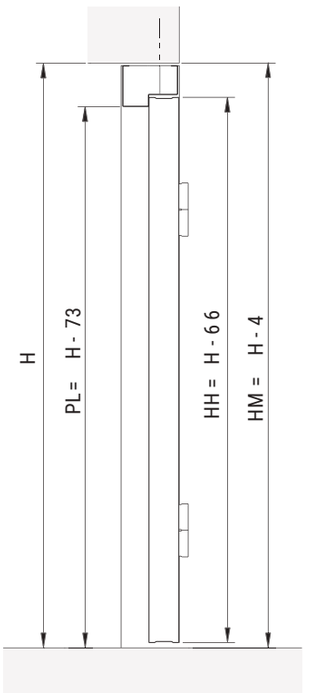


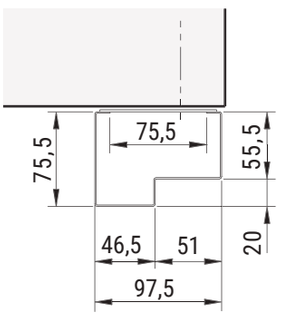
A: Opening width
H: Opening height
AP: Passive leaf width
AA: Active leaf width
AM_{max}: Maximum frame width
AT: Partition width
PL: Clear passage
HH: Opening height
HM_{max}: Maximum frame height

Double-leaf / MC-50 frame

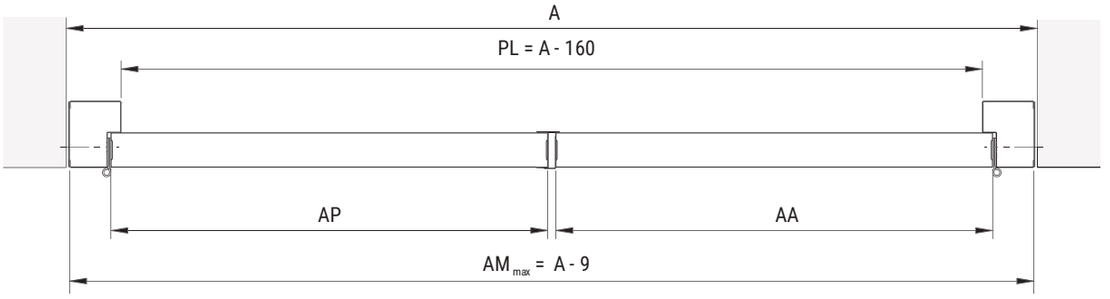


MULTIPURPOSE DOOR WITH MC50 FRAME			
Built opening		Clear passage	
Width (A)	Height (H)	Width (AL)	Height (HL)
1350	2100	1270	2055
1450		1370	
1550		1470	
1750		1670	





A: Opening width
H: Opening height
AP: Passive leaf width
AA: Active leaf width
AM_{max}: Maximum frame width
PL: Clear passage
HH: Opening height
HM: Frame height

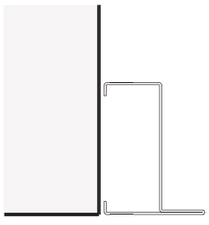


INTERNAL PANEL

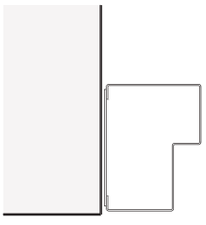
The entire of the inside of the leaf is filled with a honeycomb panel. Manufactured in semi-chemical paper, it does not propagate toxic smoke and is highly resistant to compression, with a cell size of 15 mm.

FRAMES

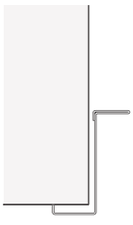
Fabricado con chapa galvanizada de espesor hasta 0,8 mm y compuesto por un perfil superior, un perfil inferior y dos perfiles laterales unidos entre sí mediante soldadura.
El marco estándar lleva 6 fijas ó zarpas de anclaje para fijar la puerta, cuando se recibe directamente, a la obra soporte. El marco MC-50 y "Z" tiene la posibilidad de montarse adicionalmente un perfil abrazamuro de remate.



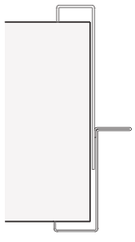
STANDARD



MC50



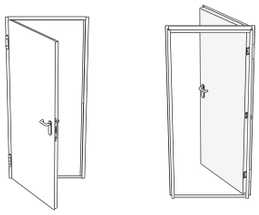
Z-section



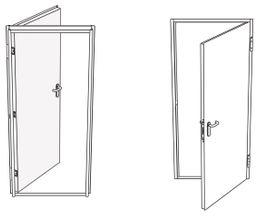
Z-section with subframe

OPENING DIRECTION

* For doors with two leaves, the leaf that opens first is the one shown in the opening code.



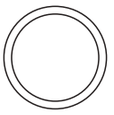
Yellow / Right

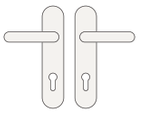


Blue / Left

ACCESSORIES

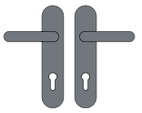

ROPER set, with keyhole.


Bull's eye LP/LG (no glass) (/) 200.


Aluminium keyhole-handle set.


Panic bar / push bar


ROPER handle.


LP inox keyhole-handle package.


LP accessories set: handle, keyhole, doorknob, keyhole covers.


Surface-mounted door closer.


Cylinder lock 70 mm (35 x 35).

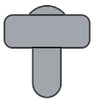

Rectangular bull's eye (250 x 1300 mm).


LP/LG accessories set.


Cylinder lock 70 mm (35 x 35), with master-key system.

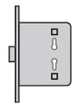

Rectangular bull's eye (250 x 700 mm).


Metal doorknob set.

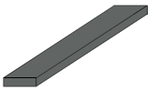

Cylinder lock 70 mm (35 x 35), with doorknob.


Rectangular bull's eye (250 x 500 mm).


Latch guard, multipurpose.


Multipurpose lock.

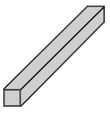

Methacrylate for bull's eye window, multipurpose (250 x 1,300 mm).


Swing seal kit, multipurpose.


Spindle adapter


Methacrylate for bull's eye window, multipurpose (250 x 700 mm).


LP swing peephole.


Spindle 8x85.


Methacrylate for bull's eye window, multipurpose (250x500).


Door coordinator

SINGLE-LEAF MULTIPURPOSE DOOR PACKAGING

Packages of multipurpose doors with a width of 55 mm contain 38 doors, loaded horizontally and distributed across two pallets (19 doors on the bottom pallet and 19 on the top pallet).

The doors are protected with self-adhesive film, and cardboard blocks are placed between them to prevent possible friction. The packages are delivered wrapped in strong stretch film. All packages include an instruction sheet on how to unpack the doors effectively, safely and easily.

BUILT OPENING		DOOR WEIGHT	DOORS PER PACKAGE	PACKAGE WEIGHT	DIMENSIONS		
A	H				A	B	H
700	2100	19	38	724	2105	730	2395
800		21	38	792		830	
900		24	38	918		930	
1000		26	38	1004		1030	

DOUBLE-LEAF MULTIPURPOSE DOOR PACKAGING

Packages of double-leaf multipurpose fire doors contain 15 doors, packed vertically, mounted on a stand reinforced with metal tubes and with wooden blocks to assist with subsequent movements.
The doors are protected with self-adhesive film, and cardboard blocks are placed between them to prevent possible friction. They are sequentially joined to each other with adhesive stretch tape as they are added to the pallet.
The packages are delivered wrapped in strong stretch film. All packages include an instruction sheet on how to unpack the doors effectively, safely and easily.

BUILT OPENING		DOOR WEIGHT	DOORS PER PACKAGE	PACKAGE WEIGHT	DIMENSIONS		
A	H				A	B	H
1350	2100	35	15	530	2105	1380	2395
1450		38	15	570		1480	
1550		39	15	588		1580	
1750		45	15	668		1780	

ROPER

PUERTAS METÁLICAS

High-Spec Multipurpose Swing Door (Romex Model)

ROPER IS A MANUFACTURER WITH MORE THAN 50 YEARS' EXPERIENCE IN THE SECTOR OF METAL SWING DOORS. WE CURRENTLY MANUFACTURE A WIDE RANGE OF SINGLE- AND DOUBLE-LEAF MULTIPURPOSE SWING DOORS THAT COVERS PRACTICALLY ALL MARKET NEEDS.
THIS TYPE OF SWING DOOR IS PARTICULARLY SUITABLE FOR HOUSING, LARGE COMMERCIAL AREAS LIKE SUPERMARKETS, CINEMAS, FACTORIES, HOSPITALS, PERFORMANCE VENUES, LIBRARIES, NIGHTCLUBS AND HOTELS, NOT TO MENTION ANYWHERE ELSE THAT REQUIRES HIGH LEVELS OF SAFETY AND RELIABILITY.

LEAF + FRAME

SPECIFICATIONS

Our entire range of Romex swing multipurpose doors has the following features:

- Top-quality materials.
- Made of heat-galvanised sheet produced using the Sendzimir process.
- Coating process using epoxy powder with washing, grease removal, phosphating and oven baking at 180°C.
- Standard colour is RAL 9010. We offer the option for other colours based on the RAL chart.
- High-quality finish and aesthetics.
- The leaf is manufactured with two joined trays filled with a rigid cardboard honeycomb panel.
- The frame is adapted to the leaf and ready to be screwed to the walls.
- Three high-quality, durable hinges measuring 4½" x 4", with rolling bearings, carrying the CE mark, manufactured in high-resistance AISI stainless steel in accordance with standard EN 1935 Grade 13.

MANUFACTURING

The entire range of this product is manufactured on a production line that employs state-of-the-art technology, which allows high-quality finishes and consistent quality.
All our manufacturing processes have been studied and developed by our technical department

TESTS

The products in our Romex range undergo periodic durability tests in our own laboratories so we can continually improve them.

DIMENSIONS

The Romex multipurpose swing door is manufactured in accordance with the table of measurements given later in this section. If you need different dimensions, please ask our sales department.

FINISHES

RAL 9010 (standard)

RAL colours (optional)

OPENING DIRECTION

It is not necessary to state the opening direction of the Romex multipurpose swing door at the time of ordering because the door can be installed to open to the left or right and inwards or outwards with the same profiles.

The opening direction is changed by rotating the door 180º. To do this, it is also necessary to rotate the vertical profiles of the frame 180º.

FRAME

- Manufactured in galvanised sheet with a thickness of 1.2 mm.
- Reversible frame: it can be used for opening to the left or right.
- Comprising a top profile, a bottom profile and two side profiles, clamped together.
- It has seven plates for connection to the wall using anchors.

LEAF

- Leaf thickness of 41 mm.
- Made of two galvanised steel sheets with a thickness of 1 mm connected by a high-resistance cardboard panel and galvanised-steel rivets.
- Reversible door: it can open to the left or right.
- The entire leaf is filled with a high-resistance honeycomb panel made of cardboard.
- Manufactured in semi-chemical paper weighing 112 gr/m. It does not propagate toxic smoke. Cell size: 15 mm.
- High resistance to compression: 2.2 kg/cm2.
- Excellent flatness.
- Very low weight: 11.7 kg/m2.
- 100% recyclable and environmentally friendly.
- It does not release toxic gases in the event of fire.
- Its components do not contain HCFCs or HFCs.
- It does not contain hazardous substances such as benzene or toluene.

HINGES

- Manufactured in steel with a thickness of 3 mm. AISI-304.
- They are made up of two parts and a pin, and connected to the frame and to the leaf with stainless-steel countersunk screws.
- They include two rolling bearings that promote smooth, quiet closure.
- Three hinges are supplied for each door.

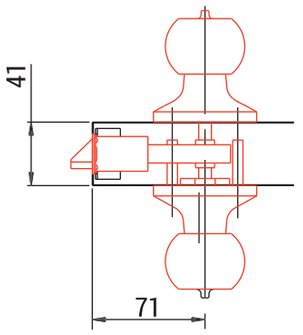
Door latch

DOOR LATCH WITH SET OF DOORKNOBS (OPTIONAL)

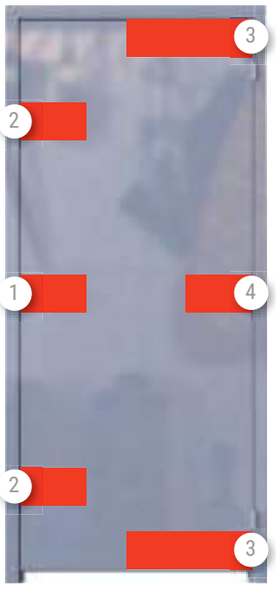
- Reversible door latch built into the leaf.
- Manufactured in steel and activated via an 8-mm spindle.
- The accessories to operate the lock are manufactured in matte stainless steel.
- There is a round rose of the same material.
- The kit is supplied unassembled and comprises a set of doorknobs with rose, cylinder lock, keys and door latch.

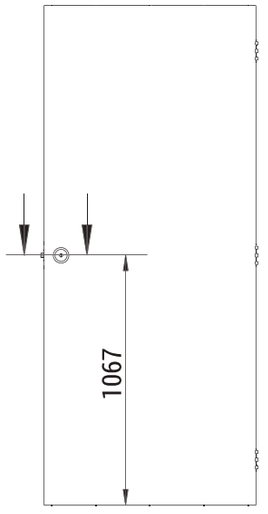
Strike

Operating mechanism



Doorknob





Hoja

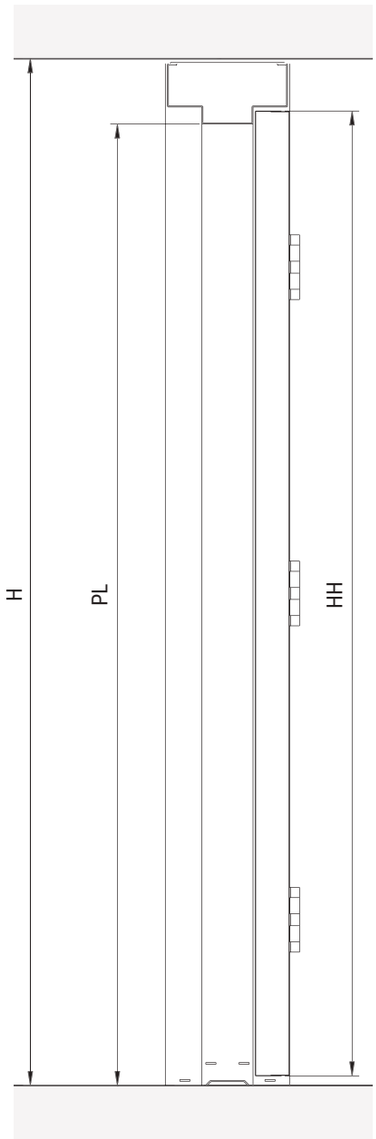
REINFORCED DOOR (OPTIONAL)

All reinforcements are made of galvanised steel with a thickness of 1 mm..

1. Reinforcement for lock and doorknob or handle.
2. Reinforcement for latch.
3. Reinforcement for door closer.
4. Reinforcement for panic bar.

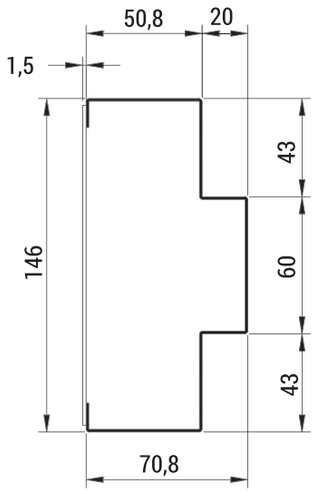
ROMEX MULTIPURPOSE SWING DOOR

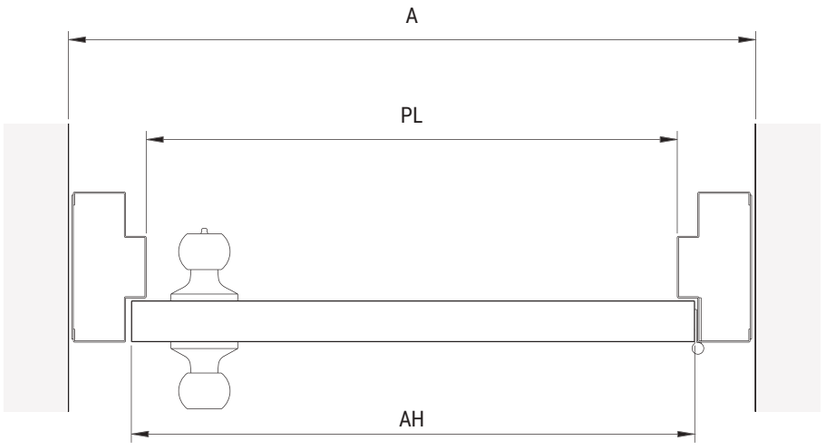
Single leaf / measurements and cross sections



OPENING	LEAF WIDTH	CLEARANCE	FRAME WIDTH
800	683	652	790
900	783	752	890
1000	883	852	990
1100	983	952	1090
1200	1083	1052	1190

OPENING	LEAF HEIGHT	CLEARANCE	FRAME
2100	2028	2024	2093
2150	2078	2074	2143
2200	2128	2124	2193
2300	2228	2224	2293
2400	2328	2324	2393
2500	2428	2424	2493





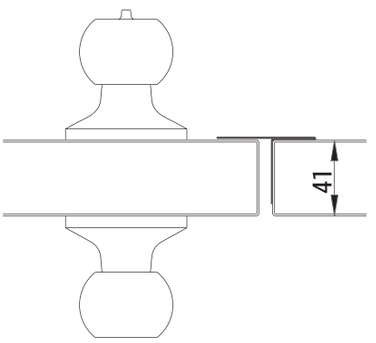
A: Opening width
H: Opening height
PL: Clear passage
AH: Leaf width
HH: Leaf height

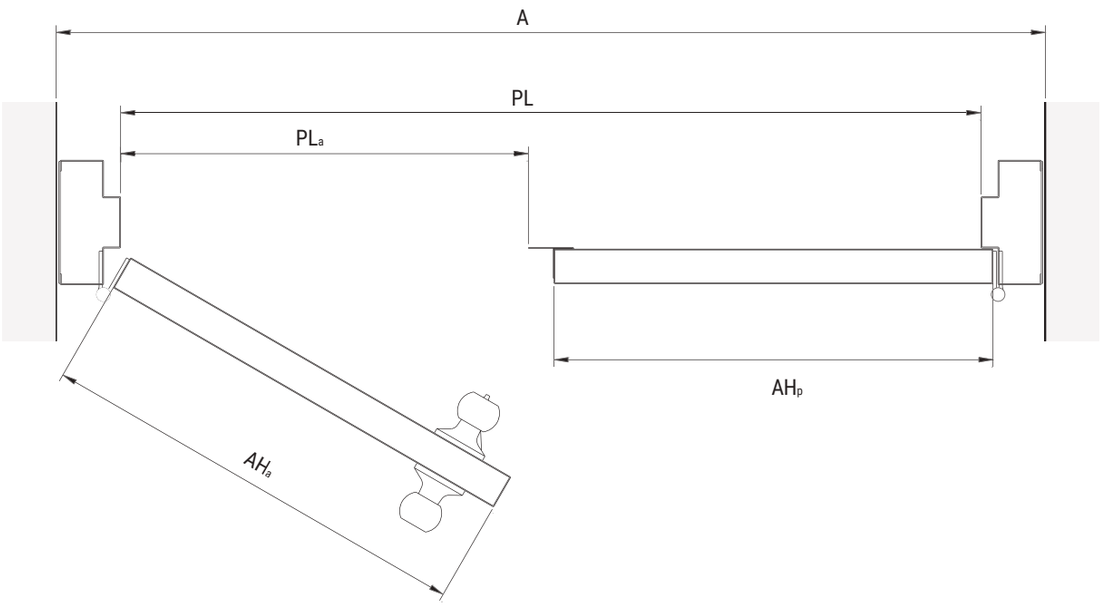
ROMEX MULTIPURPOSE SWING DOOR

Double leaf / measurements and cross sections

OPENING WIDTH	LEAF WIDTH	TOTAL CLEARANCE	ACTIVE LEAF	FRAME WIDTH
1200	1083	1052	600	1190
1300	1183	1152	700	1290
1400	1283	1252	800	1390
1500	1383	1352	900	1490
1600	1483	1452	1000	1590
1700	1583	1552	1000	1690
1800	1683	1652	1000	1790
1900	1783	1752	1000	1890
2000	1883	1852	1000	1990
2100	1983	1952	1000	2090
2200	2083	2052	1100	2190
2300	2183	2152	1100	2290
2400	2283	2252	1100	2390

OPENING HEIGHT	LEAF HEIGHT	CLEARANCE	FRAME HEIGHT
2100	2028	2024	2093
2150	2078	2074	2143
2200	2128	2124	2193
2300	2228	2224	2293
2400	2328	2324	2393
2500	2428	2424	2493

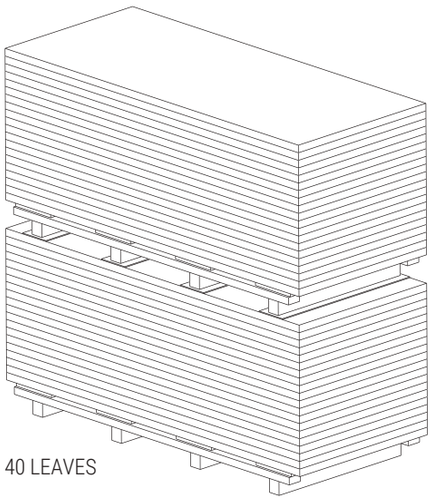




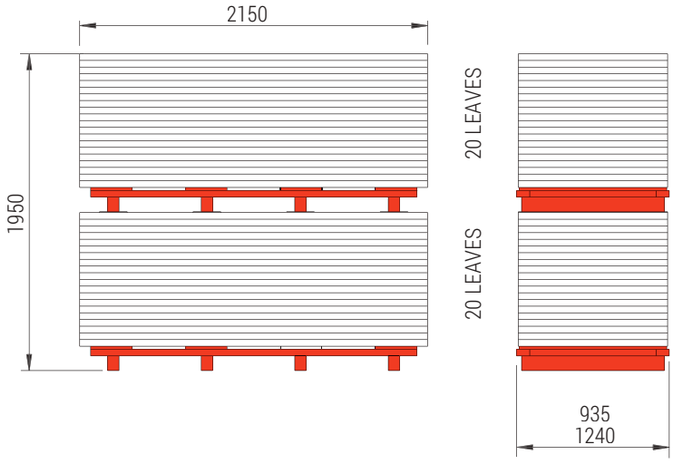
A: Opening width
PL: Clear passage
PLa: Clear passage active leaf
AHa: Width active leaf
AHp: Width passive leaf

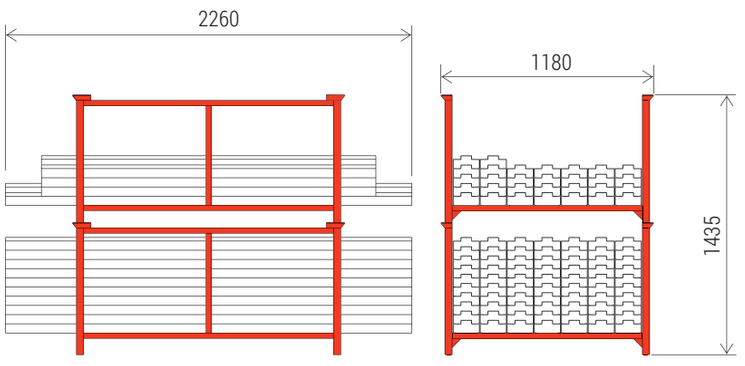
PACKAGING FOR SINGLE- AND DOUBLE-LEAF ROMEX

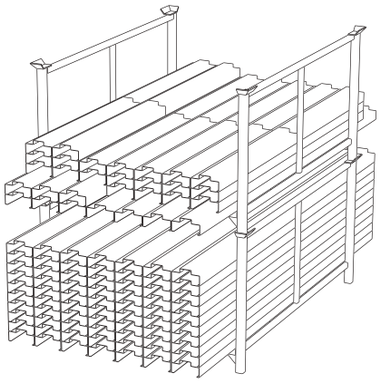
The leaves are delivered separately to their frames.
Packages containing Romex doors are supplied on two pallets, with up to 20 leaves per pallet. The maximum number of packaged units is 40 leaves, and the frame profiles are supplied on pallets with metal railings.
The leaves and pallets with metal railings containing the frame profiles are wrapped in transparent stretch-film to create a robust package for handling and carriage.



40 LEAVES







Frames on pallets with metal railings

TESTS

ROPER has its own laboratory to perform mechanical tests that allow its quality department to ensure the best possible guarantee of quality, reliability and innovation for our customers.

ROPER

PUERTAS METÁLICAS

Multipurpose Access Panel

THE MULTIPURPOSE ACCESS PANEL IS DESIGNED FOR USE IN BUILDING WORKS WHERE ACCESS IS NEEDED TO HIDDEN SERVICES LIKE WATER, TELEPHONE AND GAS. THIS PRODUCT IS MANUFACTURED WITH ONE OR TWO LEAVES, USING QUALITY MATERIALS. THE SHEET USED FOR THE ENTIRE ASSEMBLY IS HEAT GALVANISED USING THE SENDZIMIR PROCESS. IT IS DELIVERED COATED IN THE COLOUR RAL 9010 OR, OPTIONALLY, IN ANOTHER COLOUR BASED ON THE RAL CHART.
THE AESTHETICS OF THE ACCESS PANEL MEAN IT CAN BE USED ON ALL TYPES OF SURFACE.

SPECIFICATIONS

• The leaf is manufactured in galvanised sheet with a thickness of 1 mm, with or without ventilation.

• The frame is made of galvanised sheet with a thickness of 1.2 mm.

• The whole assembly is delivered in white (RAL 9010) powder coating, baked at 180 °C. This coating gives the product excellent resistance to rust, even in damp environments.

• It comes with four anchors for installation on site.

• Two two-part hinges.

• Standard closure via a quarter-turn latch with triangle key. Optionally available with a square key or cylinder lock and key.

• The access panel is manufactured in various standard dimensions, with special dimensions also available to order.

FINISH

Standard colour white (RAL 9010)

RAL colours (optional)

LOCKS

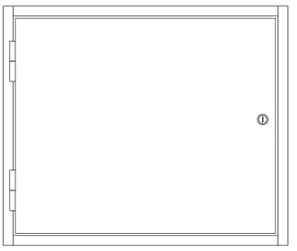
Square-key lock

Triangle-key lock

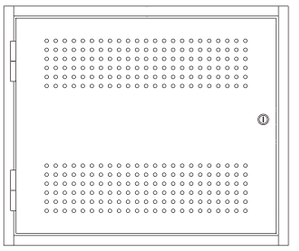
Cylinder lock 30 x 10 mm

Single leaf

CROSS SECTIONS AND MEASUREMENTS



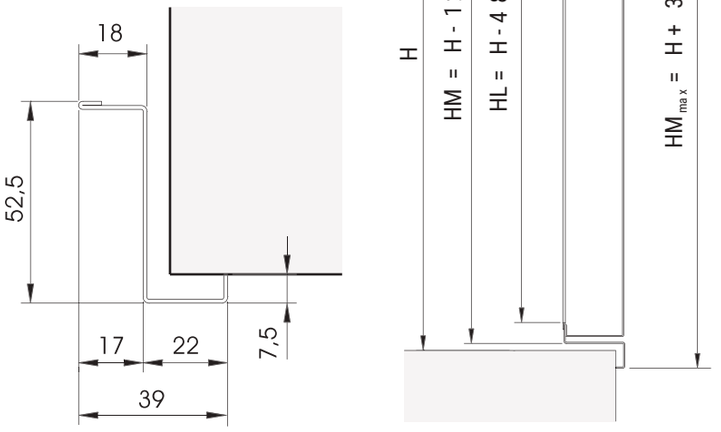
Model RT1 / Single leaf

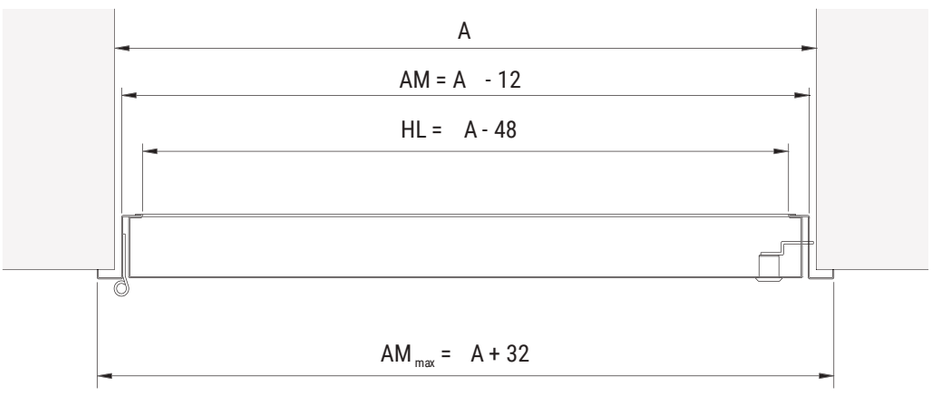


Model RT1V / Single leaf

SINGLE LEAF		HEIGHT*								
		400	500	600	700	800	900	1000	1100	1200
WIDTH*	400	●	●	●	●	●	●	●	●	●
	500	●	●	●	●	●	●	●	●	●
	600		●	●	●	●	●	●	●	●
	700			●	●	●	●	●	●	●
	800				●	●	●	●	●	●

*Width and height of the built opening.

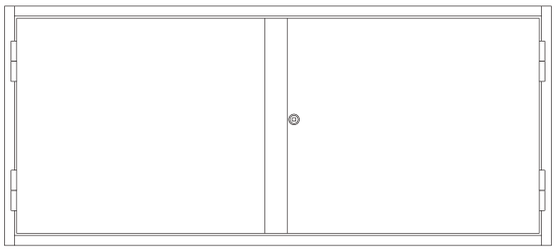




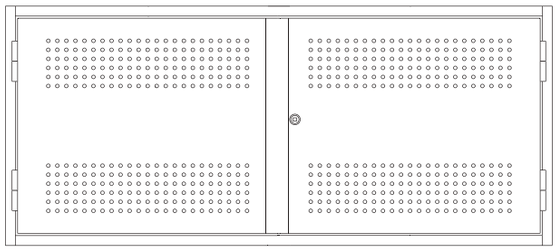
A: Opening width
AM: Frame width
AMmax: Maximum frame width
HL: Clear opening
H: Opening height
HM: Frame height
HMmax: Maximum frame height

Double leaf

CROSS SECTIONS AND MEASUREMENTS



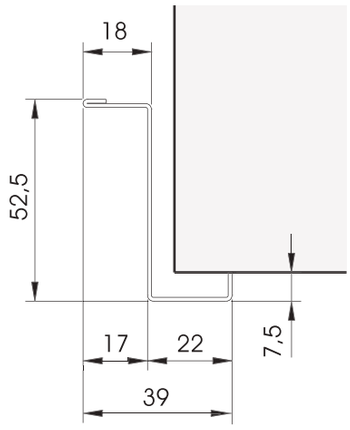
Model RT2 / Double leaf

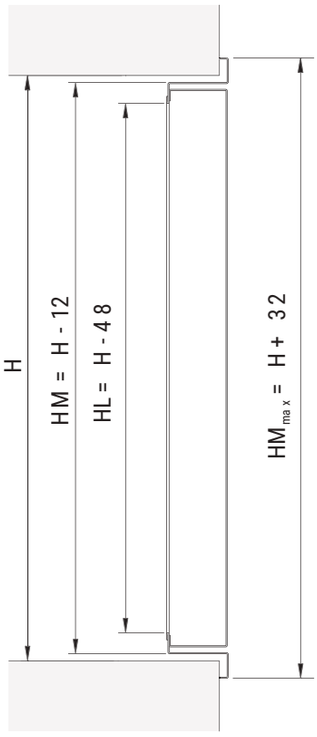


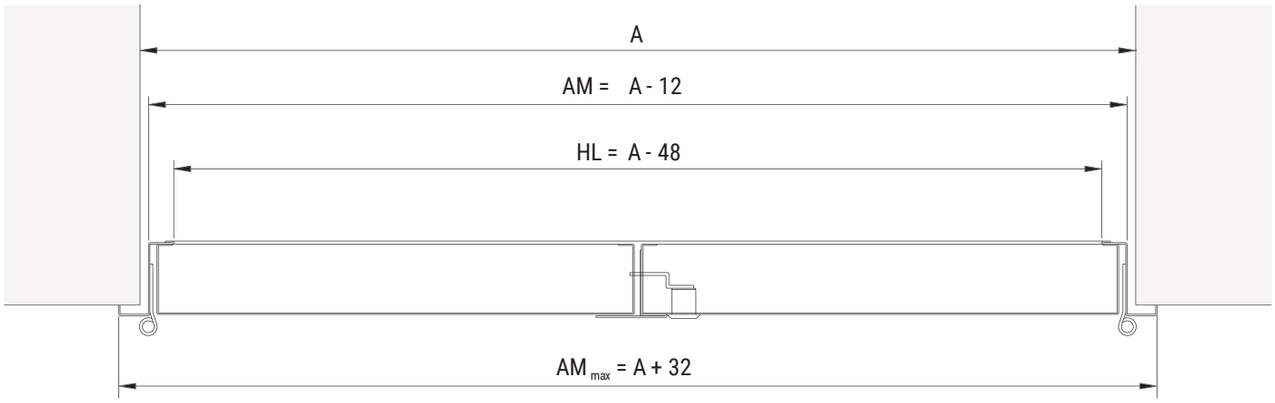
Model RT2V / Double leaf

DOUBLE LEAF		HEIGHT*								
		400	500	600	700	800	900	1000	1100	1200
WIDTH*	800	●	●	●	●	●	●	●	●	●
	900	●	●	●	●	●	●	●	●	●
	1000	●	●	●	●	●	●	●	●	●
	1100		●	●	●	●	●	●	●	●
	1200		●	●	●	●	●	●	●	●

*Width and height of the built opening.







A: Opening width
AM: Frame width
AMmax: Maximum frame width
HL: Clear opening
H: Opening height
HM: Frame height
HMmax: Maximum frame height

ROPER

PUERTAS METÁLICAS

PMC Subframe Structure for Pocket Door

THE ROPER PMC SUBFRAME STRUCTURE FOR POCKET DOORS IS CREATED TO ELIMINATE THE ARCHITECTURAL BARRIERS CREATED BY CONVENTIONAL DOORS AND TO GAIN IN SPACE AND EASE-OF-USE. THE ROPER PMC SUBFRAME STRUCTURE FOR POCKET DOORS MAKES IT POSSIBLE TO HIDE THE DOOR INSIDE THE WALL CAVITY, WHICH ACHIEVES BETTER USE OF SPACE. IN DOMESTIC SETTINGS, THIS OPTION MAY BE IDEAL FOR SMALL BEDROOMS, AS A MEANS OF CREATING A PARTITION IN LARGE ROOMS, AND FOR TOILET ROOMS, STAIRWELLS AND OTHER SIMILAR USES. IN BUSINESS AND PUBLIC SETTINGS USES INCLUDE PUBLIC BATHROOMS IN BUSINESSES AND BARS, AND SMALL ROOMS THAT ARE DIFFICULT TO ACCESS IN HOTELS AND SCHOOLS.

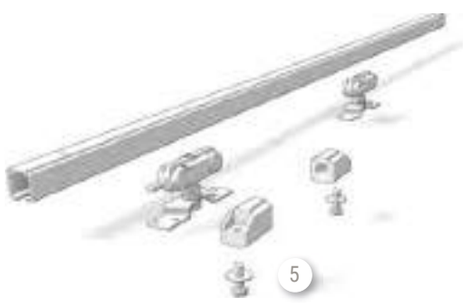
PMC BOX
Single leaf

The ROPER subframe structure for pocket doors is made with top-quality materials and a design that makes installation fast and easy. Each PMC box, whether for one or two leaves, includes an instruction sheet for the installer.

As a result of its design, the PMC subframe structure for pocket doors adapts to two types of wall finish: rendered or plasterboard. It is available in two different pocket widths, which makes it possible to hang any type of door available on the market, including standard doors (smooth) and doors with mouldings.

A wood kit is available, in four different tones. It is supplied without varnishing and includes draught excluders.

The PMC box is available in five different widths to cover the standard door opening sizes available on the market, from 600 to 1,000 mm, and there are two different pocket widths: 55 or 70 mm. The height of the pocket is always 2,115 mm.

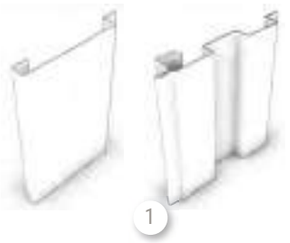


Please ask our sales department if you would like to find out if different measurements are possible.

1. Main body profiles.
2. Header and bottom of box.
3. Lintel and vertical closing profile with pine blocks.
4. Spacer.
5. Guide-rail assembly.(Max. weight 40kg)
6. Double-leaf PMC lintel.
7. Wood Kit

PMC BOX
Double leaf

By installing the DOUBLE-LEAF PMC SPACER KIT (includes two spacers and a double-leaf PMC lintel) two single-leaf PMCs can be converted into a double-leaf PMC.

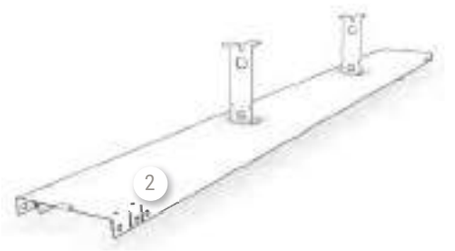


MAIN BODY PROFILES

The main body of the ROPER PMC box is constructed using profiles made of galvanised sheet with a thickness of 0.6 mm joined using a tongue-and-groove system and reinforced by horizontal slats of sheet, which make it highly robust.

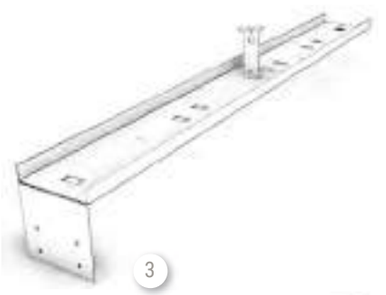
HEADER AND BOTTOM OF BOX

These parts of the box are formed by joining (via crimping) two pieces of galvanised sheet with a thickness of 0.6 mm and they are positioned at the top and bottom of the box.
They have anchors to secure the box to the adjacent structure.
The header is also joined (via crimping) to two pieces of galvanised sheet with a thickness of 2 mm, which are used to support the guide rail that the door will slide along.



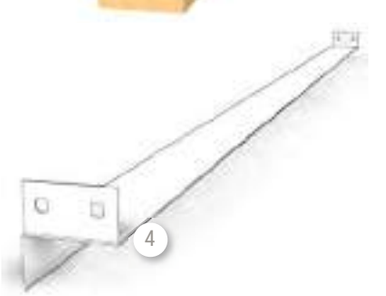
LINTEL + VERTICAL PROFILE CLOSING STOP + PINE BLOCKS (SINGLE-LEAF PMC ONLY)

The lintel is made of galvanised sheet of up to 2-mm thick.
It is used to join/bridge the box and the profile that holds the pine blocks. It has anchors to secure it to the adjacent structure.
The pine blocks are inserted into the vertical profile of the PMC subframe.



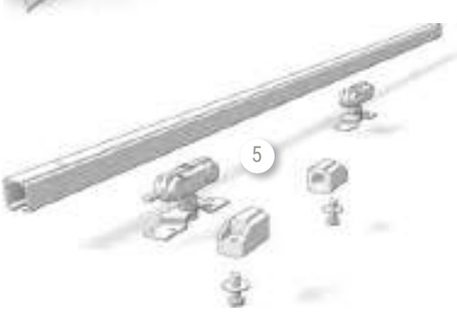
SPACER

Made of galvanised sheet with a thickness of 0.6 or 1 mm (depending on the model of PMC). It is a spacer between the box and the vertical profile that houses the pine blocks (single-leaf PMC), or between the boxes (double-leaf PMC), and it is used to correctly install PMC box 1 in the adjacent structure. Each model has two units.



GUIDE RAIL ASSEMBLY / MAXIMUM LEAF WEIGHT OF 40 KG

Comprising a hardened aluminium track, stops, sheaves, fixing plates, bottom track and fasteners to enable easy installation and support of the sliding door. All assemblies come with an instruction sheet to ensure correct installation.

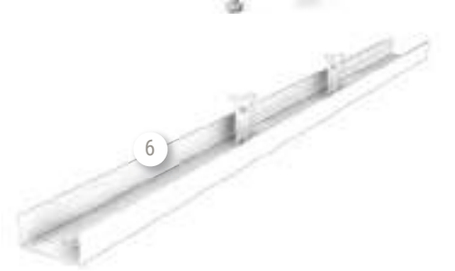


LINTEL (DOUBLE-LEAF PMC ONLY)

The lintel is made of galvanised sheet with a thickness of 1.5 or 2 mm, depending on the model of PMC.
It is used to join/bridge the two boxes that make up the double-leaf PMC. It has anchors so it can be secured to the supporting structure.

1. Perfiles estructura cuerpo principal.

1. Main body profiles.
   Cross slat
2. Header and bottom of box.
3. Lintel and vertical closing profile with pine blocks.
4. Spacer.
5. Guide-rail assembly.
6. Double-leaf PMC lintel.
7. Wood Kit



FINISHING OF WOOD KITS

Delivered without varnishing.


Mukali*


Natural oak


Steamed natural beach


Natural sapele

*A finish that can be varnished in any colour.
The sample colours are offered by way of guidance. They do not depict the actual colours and tones of the wood used.

DETAILS


Illustration of opening to be prepared for installation of the box.


Detail of the stop for the bottom track for the leaf. The box is anchored to the floor by folding the perforated feet.


Illustration of rendering and finishing. Concealment of the box.


DETAIL OF "USEFUL" INSIDE WIDTH OF THE BOX.
Inside gap H = 55 mm maximum thickness of leaf is 40 mm.
Inside gap H = 70 mm maximum thickness of leaf is 55 mm.

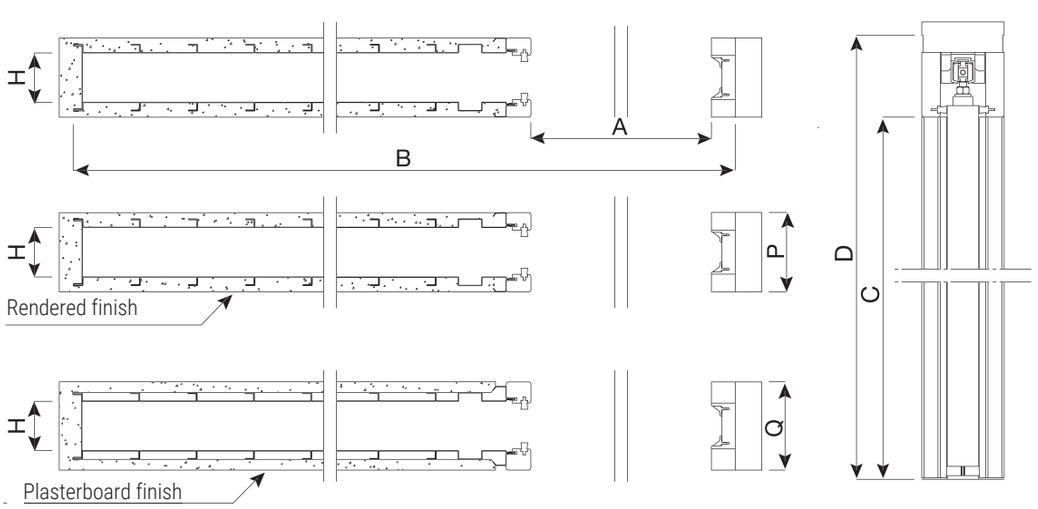
Single leaf

The ROPER PMC subframe structure for a single-leaf pocket door is manufactured in 10 different sizes:

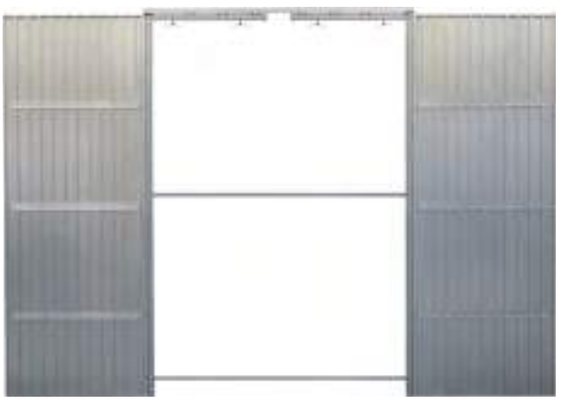
ORDER MEASUREMENTS	BUILT OPENING		CLEARANCE		H: INSIDE	PLASTERED	
						RENDERED	PLASTERBOARD
	B: WIDTH	D: HEIGHT	A: WIDTH	C: HEIGHT		D: FINISHED WALL	Q: FINISHED WALL
600x55	1365	2115	585	2030	55	90	100
700x55	1595	2115	685	2030	55	90	100
800x55	1760	2115	785	2030	55	90	100
900x55	1990	2115	885	2030	55	90	100
1000x55	2155	2115	985	2030	55	90	100
600x70	1365	2115	585	2030	70	105	115
700x70	1595	2115	685	2030	70	105	115
800x70	1760	2115	785	2030	70	105	115
900x70	1990	2115	885	2030	70	105	115
1000x70	2155	2115	985	2030	70	105	115

DETAILS

For inside gap H = 55 mm, maximum thickness of the leaf is 40 mm.
For inside gap H = 70 mm, maximum thickness of the leaf is 55 mm.



A: Width of passage
B: Width of opening in wall
C: Height of passage
D: Height of built opening
H: Gap inside box
P: Rendered finish
Q: Plasterboard finish



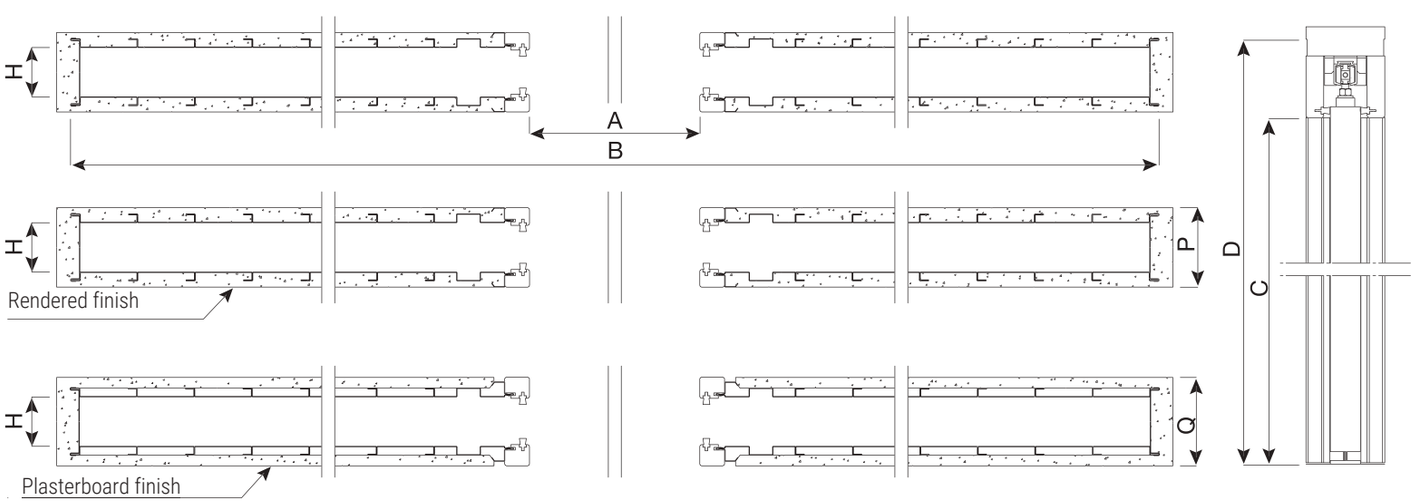
Double leaf

The ROPER PMC subframe structure for the double-leaf pocket door is manufactured in 10 different sizes:

MODEL	CONFIGURATION PMC1H / PMC1H	BUILT OPENING		CLEARANCE		H: INSIDE	PLASTERED	
							RENDERED	PLASTER-BOARD
		B: WIDTH	D: HEIGHT	A: WIDTH	C: HEIGHT		D: FINISHED WALL	Q: FINISHED WALL
1200	600x55 / 600x55	2575	2140	1150	2030	55	90	100
1400	700x55 / 700x55	3035	2140	1350	2030	55	90	100
1600	800x55 / 800x55	3365	2140	1550	2030	55	90	100
1800	900x55 / 900x55	3825	2140	1750	2030	55	90	100
2000	1000x55 / 1000x55	4155	2140	1950	2030	55	90	100
1200	600x70 / 600x70	2575	2140	1150	2030	70	105	115
1400	700x70 / 700x70	3035	2140	1350	2030	70	105	115
1600	800x70 / 800x70	3365	2140	1550	2030	70	105	115
1800	900x70 / 900x70	3825	2140	1750	2030	70	105	115
2000	1000x70 / 1000x70	4155	2140	1950	2030	70	105	115

DETAILS

For inside gap H = 55 mm, maximum thickness of the leaf is 40 mm.
For inside gap H = 70 mm, maximum thickness of the leaf is 55 mm.



A: Width of passage
B: Width of opening in wall
C: Height of passage
D: Height of built opening
H: Gap inside box
P: Rendered finish
Q: Plasterboard finish

SINGLE-LEAF PMC WOOD KIT

The kit comprises:
- 2 side guides.
- 2 overhead guides.
- 1 sliding-door stop.
- 3 plush seals.
- 2 rubber seals.

DOUBLE-LEAF PMC WOOD KIT

The kit comprises:
- 4 side guides.
- 2 overhead guides.
- 6 plush seals.

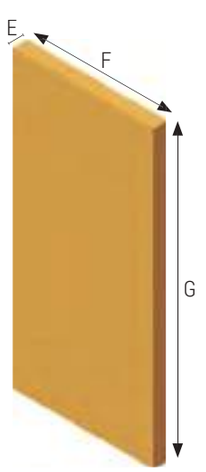
PACKAGING SINGLE-LEAF PMC BOX:

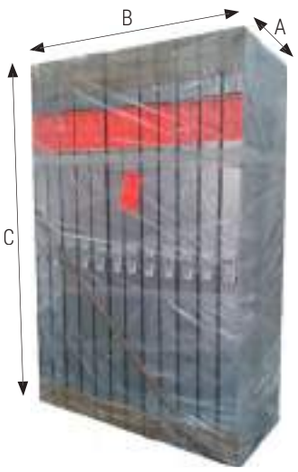
The ROPER PMC subframe structure for pocket doors is supplied palletised, positioned vertically, on a metal stand supported on wooden blocks.
The number of PMCs in each package is 12 units (if the PMC model has a thickness of 55 mm) or 11 units (if the PMC model has a thickness of 70 mm).
The packages are wrapped in self-adhesive film. They form a robust, safe structure for subsequent carriage and storage. Each PMC comes with an instruction sheet to ensure correct installation.

PACKAGING AND SUPPLY

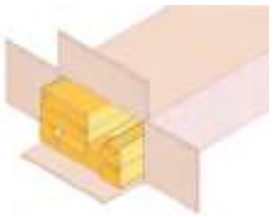
MODEL	PACKAGE MEASUREMENTS			INDIVIDUAL WEIGHT	PACKAGE WEIGHT
	A: WIDTH	C: HEIGHT	B: THICKNESS		
600x55	770	2250	1200	33,5	431
700x55	900	2250	1200	37,5	478
800x55	970	2250	1200	40	511
900x55	1100	2250	1200	43,3	552,5
1000x55	1170	2250	1200	46	576
600x70	770	2250	1200	34,2	406
700x70	900	2250	1200	39	457
800x70	970	2250	1200	41,5	484
900x70	1100	2250	1200	45	527
1000x70	1170	2250	1200	48,5	565,5

The weight is approximate and given in kg.



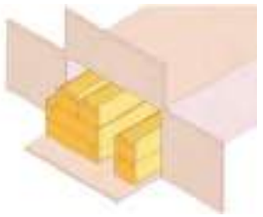


PMC WOOD KIT PACKAGING
SINGLE LEAF / DOUBLE LEAF / DOUBLE-LEAF PMC SPACER



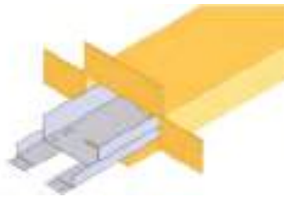
SINGLE-LEAF PMC WOOD KIT	PACKAGING MEASUREMENTS			WEIGHT (*)
	WIDTH	HEIGHT	THICKNESS	
Mukali KIT 55V	135	2200	65	7,5
Mukali KIT 70V	135	2200	65	8
Mukali KIT 55CY	135	2200	65	8,3
Mukali KIT 70CY	135	2200	65	8,8

(*) Approximate weight in kg.



DOUBLE-LEAF PMC WOOD KIT	PACKAGING MEASUREMENTS			WEIGHT (*)
	WIDTH	HEIGHT	THICKNESS	
Mukali KIT Y	135	2200	65	7,2
Mukali KIT CY	135	2200	65	8,7

(*) Approximate weight in kg.



DOUBLE-LEAF PMC SPACER	PACKAGING MEASUREMENTS			WEIGHT (*)
	WIDTH	HEIGHT	THICKNESS	
1200x55	100	1300	40	4
1200x70	115	1300	50	4,1
1400x55	100	1500	40	4,5
1400x70	115	1600	50	4,6
1600x55	100	1700	40	5,1
1600x70	115	1700	50	5,2
1800x55	100	1900	40	5,7
1800x70	115	1900	50	5,8
2000x55	100	2100	40	6,4
2000x70	115	2100	50	6,5

(*) Approximate weight in kg.

SANDWICH PANEL

ROPER

PUERTAS METÁLICAS

Sandwich Panel for Doors

ROPER DEDICATES MORE THAN 35,000 M² TO MANUFACTURING PANELS AND USES STATE-OF-THE-ART TECHNOLOGY IN ITS MANUFACTURING AND DESIGN PROCESSES. WE OFFER MANUFACTURERS OF SECTIONAL DOORS A QUALITY PRODUCT AND SERVICE.

EXCELLENT TECHNICAL SPECIFICATIONS COMBINED WITH METICULOUS PRODUCT AESTHETICS HAVE MADE US A LEADING COMPANY IN THE ENCLOSURES SECTOR, VALUED BY THE MARKET AND OUR CUSTOMERS ALIKE.

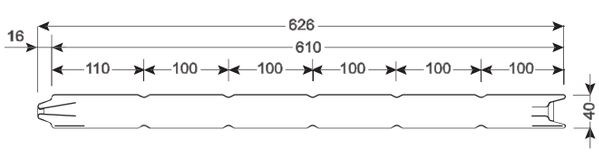
EUROLINES SERIES (Lined Panel)

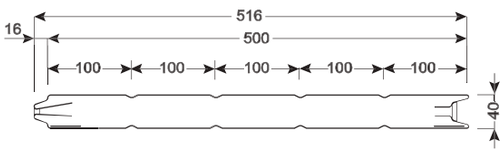
On 21 September 1921, the first European motorway opened in Milan. It connected Milan to Varese, though it was not until the 1930s when this concept for fast travel was launched on a large scale. Starting in Germany, it gradually spread throughout the European continent.
Today, our panels travel on trailers on this modern motorway network, and in a few hours, they are taken from our factory in Aguilar de Campoo to professional manufacturers of sectional doors.
The asphalt is our continual production line and the endless white lines along these motorways are what inspired our Eurolines panel. Eurolines is a classic in our panel range and indispensable for all manufacturers of sectional doors.

EUROLINES Indurop (Industrial)

SPECIFICATIONS

• Manufactured in pre-painted galvanised steel sheet in accordance with standard EN 10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m³, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with a length of 11,850/12,200 mm (*).
• Finish: the outside has a panelled appearance, with the finish options being embossed, stucco, wood or smooth (thickness e+). Colours according to the ROPER colour chart. The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.

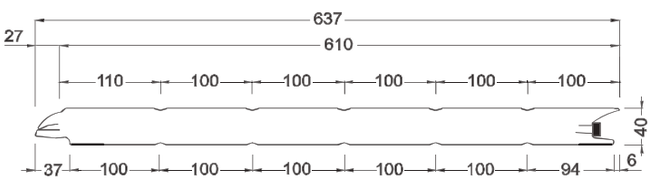


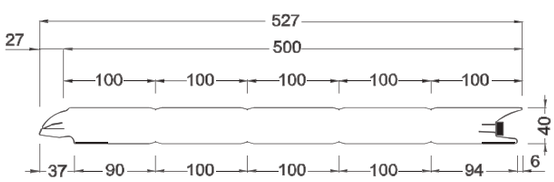


EUROLINES Gararop (Residential)

SPECIFICATIONS

• Manufactured in pre-painted galvanised steel sheet in accordance with the standard EN 10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m³, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with a length of 11,850/12,200 mm (*).
• Finish: the outside has a panelled appearance, with the finish options being embossed, stucco, wood or smooth (thickness e+). Colours according to the ROPER colour chart. The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.





* Various lengths, ask before ordering.

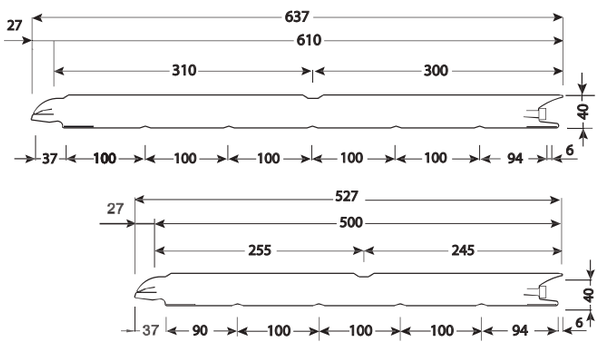
ECUADOR SERIES

The equator (ecuador in Spanish) is the imaginary line that divides the earth into the Northern and Southern Hemispheres.
At ROPER, we like to imagine it as a real line that connects Gabon, The Republic of the Congo, Uganda, Kenya, Somalia, Indonesia, Ecuador, Colombia, Brazil and other smaller countries, islands and atolls.
We wanted to capture this idea in a panel with a modern look that combines symmetry and design: the Ecuador series.
All our panels are manufactured in accordance with international standards. They are exempt from CFCs and HCFCs and consequently respect the ozone layer. Our small contribution to help the planet!

ECUADOR Gararop (Residential)

SPECIFICATIONS

• Manufactured in pre-painted galvanised steel sheet in accordance with standard EN 10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m^3, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with a length of 11,850/12,200 mm (*).
• Finish: the outside is panelled into two equal halves via a central groove, with the finish options being embossed, wood or smooth (thickness e+).
Colours according to the ROPER colour chart.
The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.



* Various lengths, ask before ordering.

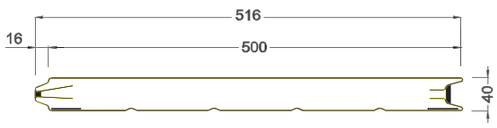
ESENCIAL SERIES (Smooth Panel)

The design is focussed on essential need, avoiding excess, saturation and pollution, to create a harmonious and functional environment.
The Escencial (essential in Spanish) series conveys the minimalist nature of the latest architectural trends.

ESENCIAL Indurop (Industrial)

SPECIFICATIONS

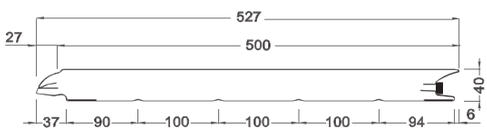
• Manufactured in pre-painted galvanised steel sheet in accordance with standard EN 10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m^3, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with a length of 11,850/12,200 mm (*).
•Outside finish: embossed, wood, stucco or smooth (thickness e+).
Colours according to the ROPER colour chart.
The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.

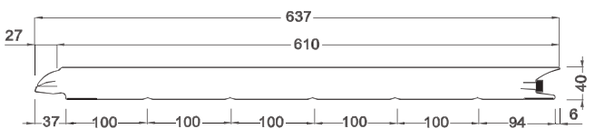


ESENCIAL Gararop (Residential)

SPECIFICATIONS

• Manufactured in pre-painted galvanised steel sheet in accordance with standard EN 10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with a length of 11,850/12,200 mm (*).
• Outside finish: embossed, wood, stucco or smooth (thickness e+).
Colours according to the ROPER colour chart.
The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.

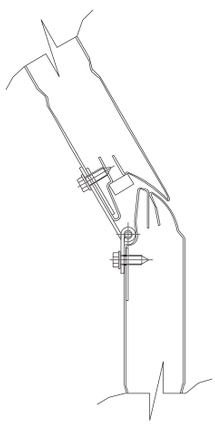




* Various lengths, ask before ordering.

MAYA SERIES (Raised Panels)

Family lay at the heart of Mayan society and daily life was closely linked to religious beliefs.
The Temple of Kukulcan, in Chichen ltza, was the last and probably the biggest of all Mayan temples, owing to the high level of development the Mayans reached in exact sciences such as astronomy and mathematics, and arts like architecture.
It was built in accordance with an astronomical calculation so that, during the equinoxes, it is possible to see the image of a snake reflected along the side of the stairway.
This told the villagers that the time had come to sow their crops.
The Maya series, with its precise geometrical raised panels, is a symbol of our high quality and know-how. Our panel for the family.



JOINT DETAIL

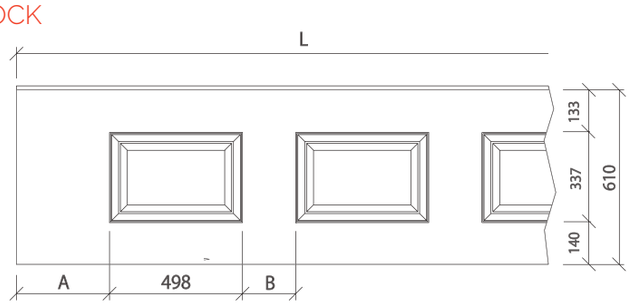
MAYA Gararop (Residential)

SPECIFICATIONS

• Manufactured in pre-painted galvanised steel sheet in accordance with the standard EN-10142.
• Internally, the panel contains expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs.
• The panel thickness is 40 mm, and it is available in formats of 500 and 610 mm, with various lengths to select (see format table) (*).
• Finish: the outside has centred raised panels with the finish options being embossed or wood. Colours according to the ROPER colour chart. The inside has a panelled appearance, with the finish options being embossed or stucco. Colour RAL 9010. Protected on both sides with adhesive polyethylene.

LIST OF MEASUREMENTS AND FORMATS OF THE MAYA SWING PANEL THAT ARE KEPT IN STOCK

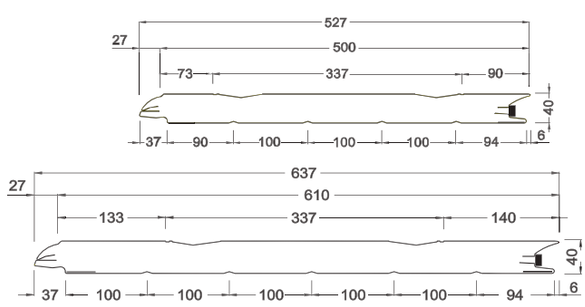
LONGITUD	Nº CUARTERONES	A	B
4400	4	301	602



OVERVIEW OF A 610 SECTION

LIST OF MEASUREMENTS AND FORMATS OF THE MAYA RESIDENTIAL PANEL THAT ARE KEPT IN STOCK

LONGITUD	Nº CUARTERONES	A	B
2740	4	239	90
3050	4	319	140
3660	5	305	140
4270	6	291	140
4870	7	272	140
5480	8	258	140
6090	9	244	140



* For other lengths and layouts, please ask.

SANDWICH PANEL

FINISH


STUCCO

SMOOTH

WOOD

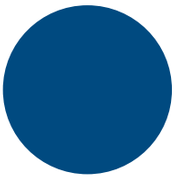
INSIDE SHEET COLOURS

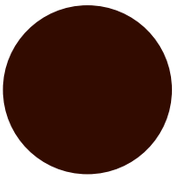
RAL 9010

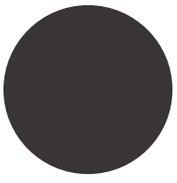
OUTSIDE SHEET COLOURS

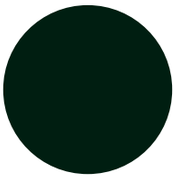
RAL 9010

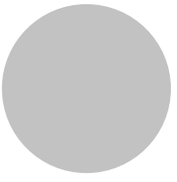

RAL 3000


RAL5010


RAL 8014


RAL 7024


RAL 6009


RAL 9006

IMITATION WOOD


LIGHT OAK

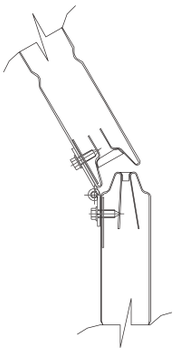

DARK OAK

* The sample colours are offered by way of guidance. They do not depict the actual colours and tones of the sheet used.

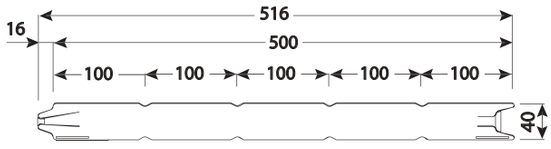
SANDWICH PANEL / ROPER INDUROP INDUSTRIAL PANEL

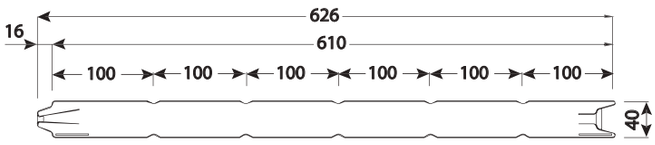
Manufactured in pre-painted galvanised steel sheet in accordance with standard EN-10142.

Internally, the panel contains expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs, to respect the ozone layer.



JOINT DETAIL





PANEL TOLERANCES IN mm	FORMAT	THICKNESS	LENGTH	WIDTH	MISALIGNMENT
INDUROP 500	500	± 2	± 5	± 2	± 3
INDUROP 610	610	± 2	± 5	± 2	± 3

	U	ε	FIRE	WIND	ACOUSTICS
TEST DATA	W/m²˜°K	W/m˜°C	Reaction to fire classification EN 13501-1:2002	Wind resistance EN 12424	Pondered weighted index of sound-reduction RW(C;Ctr)=dB EN ISO 140-3 1995
INDUROP 500	0,82	0,023	B-S3,d0	4	26 (-2;-3)
INDUROP 610	0,80	0,023	B-S3,d0	4	26 (-2;-3)

PANEL	COLOUR	LENGTH (mm)	WEIGHT m without internal reinforcement kg/m	WEIGHT m with internal reinforcement kg/m	WEIGHT m² without internal reinforcement kg/m²	WEIGHT m² without internal reinforcement kg/m²
INDUROP 500	Varios	12.200 / 11.850	5,5	5,9	11	11,8
INDUROP 610	Varios	12.200 / 11.850	6,4	6,8	10,5	11,15

PACKAGE	NO. OF PANELS	TOTAL LENGTH (m)	TOTAL SURFACE AREA (m²)
INDUROP 500	14	187,6	93,80
INDUROP 610	14	187,6	114,43

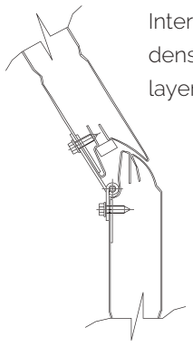
CIDEMCO

(*) Owing to the tolerances in the raw materials, the weight of the panel may vary by 5% for industrial and residential panels.

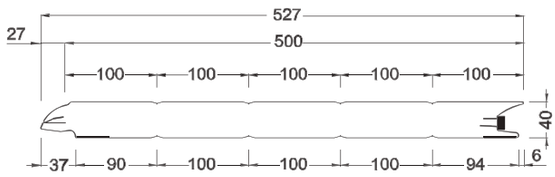
SANDWICH PANEL / ROPER GARAROP GARAGE PANEL

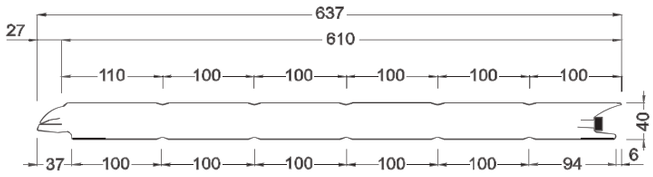
Manufactured in pre-painted galvanised steel sheet in accordance with standard EN-10142.

Internally, the panel contains expanded polyurethane with an average density of 40 kg/m3, free of CFCs and HCFCs, to respect the ozone layer.



JOINT DETAIL





PANEL TOLERANCES IN mm	FORMAT	THICKNESS	LENGTH	WIDTH	MISALIGNMENT
GARAROP 500	500	± 2	± 5	± 2	± 3
GARAROP 610	610	± 2	± 5	± 2	± 3

	U	ε	FIRE	WIND	ACOUSTICS
TEST DATA	W/m² ºK	W/m ºC	Reaction to fire classification EN 13501-1:2002	Wind resistance EN 12424	Pondered weighted index of sound-reduction RW(C;Ctr)=dB EN ISO 140-3 1995
GARAROP 500	0,82	0,023	B-S3,d0	4	26 (-2;-3)
GARAROP 610	0,80	0,023	B-S3,d0	4	26 (-2;-3)

PANEL	COLOUR	LENGTH (mm)	WEIGHT m without internal reinforcement kg/m	WEIGHT m² without internal reinforcement kg/m²
GARAROP 500	Varios	12.000 / 11.850	5,3	10,6
GARAROP 610	Varios	12.000 / 11.850	6,2	10,16

PACKAGE	NO. OF PANELS	TOTAL LENGTH (m)	TOTAL SURFACE AREA (m²)
GARAROP 500	14	187,6	93,80
GARAROP 610	14	187,6	114,43

(*) Owing to the tolerances in the raw materials, the weight of the panel may vary by 5% for industrial and residential panels.

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HEADQUARTERS
Pol. Ind. Trascueto, Parcela F-3 Apdo. 41
39600 Revilla de Camargo (Cantabria) - SPAIN

T. + 34 942 25 12 12 / F. +34 942 25 49 42

roper@roper.es

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www.puertasroper.com

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