






## PRODUCT CATALOGUE

**QUALITY**  
**DOORS**

- ZK Valencia Cod Room Doors
- ZK Bilbao Interior Doors
- ZK Madrid High Speed Doors
- ZK Barcelona Logistics
- ZK Numancia PE protections



-  Headquarters
-  Factories
-  Sales offices
-  Sales representatives
-  Exports

Established in 1980, **INFRACA** is an internationally recognized **industrial door manufacturing** company with production plants in several continents. Eversince our birth we have focused on continuous product development employing the very latest technologies. Today, Infracca is one of the leading manufacturers of **high quality industrial doors**. Currently operating in more than 60 countries with over 3,000 satisfied customers worldwide , making us a global benchmark in the industrial door manufacturing sector. Having consolidated our position in emerging markets over the past ten years this has acted as a catalyst for our continued growth. **Our target being, complete customer satisfaction.**

With a distinct international character ,INFRACA is a company proud of its history and its **brand**. Through listening to our customers and providing a **personalized service** we strive to maintain a **proactive position** in design and build projects. We seek to understand market needs and take measures to **adapt** accordingly; dedicated to a practical and modern design and manufacturing of strong, reliable and aesthetically attractive products through continuous **innovation** and **development**. Caring for the environment being a priority and supported by an efficient after sales **service** and **technical support**; we strive to offer an economically **competitive** product design. Having a well-trained, strong and qualified workforce we aim to offer a highly respected lead time from order to production and **delivery**. We work with our suppliers in a **transparent and responsible way**; complying to current guidelines and **standards** and the application of the latest technologies. Through strong, consistent and solid leadership we aim to have a very motivated workforce with **mentoring, training, teamwork, integrity, honesty**, a shared **commitment** to targets and the long-term **sustainability** of the company being at the very core of our company's strategy, we maintain a very solid relationship with our shareholders based on **trust** and transparency always offering an efficient, **cost effective** and responsible option through good planning.

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The data included in this catalogue are indicative and may be modified without prior notice due to Zirkel Infrac's ongoing improvement and development of products. ENG-.V.1902





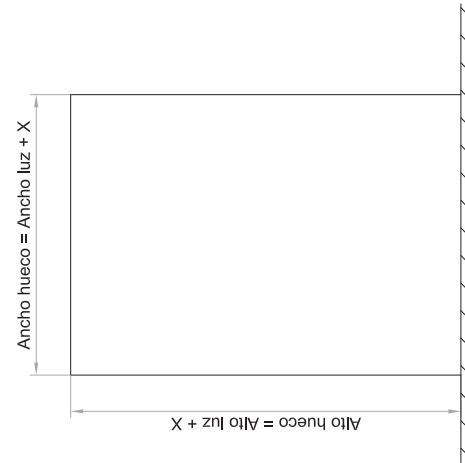
# GENERAL INFORMATION

## Information about measurements

- Door sizes are defined by the dimensions of the free passage with the door open, commonly known as "clear opening width" and "clear opening height".
- The dimensions of the door are specified as indicated: first the clear opening width, followed by the clear opening height, and then the units of the measurement.

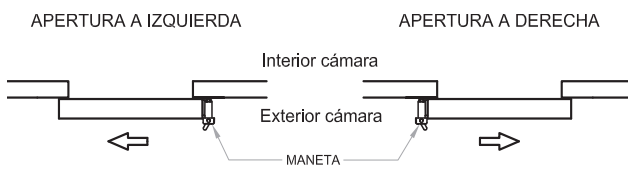
OPENING WIDTH (mm) x OPENING HEIGHT (mm)

- One of the most important measurements for the installer is the size of the cut out in the panel / structural opening, which is always specified in terms of the measurements of the free passage of the door plus an extra margin (in mm).
- This margin corresponds to the space needed to install the frame, after which a filler can be injected into the remaining gap.

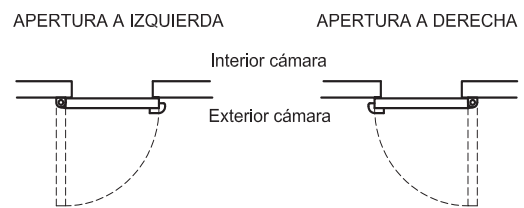


## Opening directions

### SLIDING DOORS

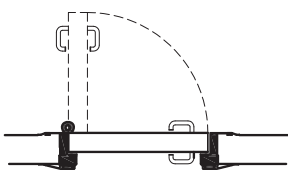


### HINGED COLD ROOM DOOR

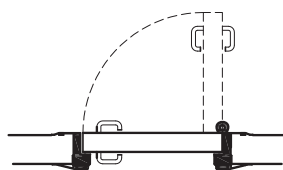


### HINGED SERVICE DOORS

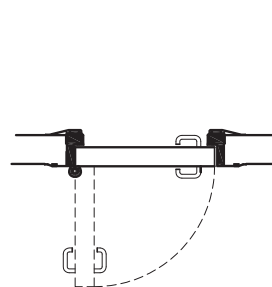
#### EMPUJANDO IZQUIERDA



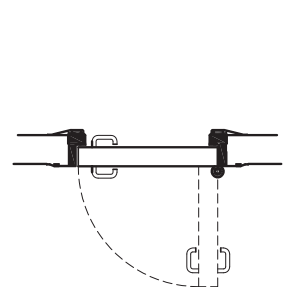
#### EMPUJANDO DERECHA



#### TIRANDO IZQUIERDA

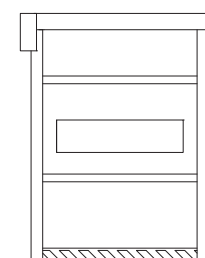


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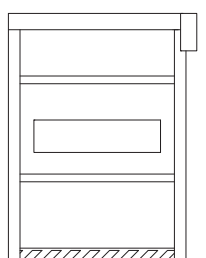


### MOTOR SIDE (RAPID DOORS)

Motor on left

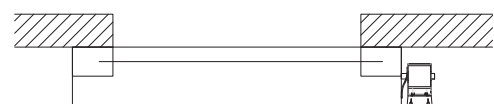


Motor on right



### COLOURED FABRIC SIDE

Side without motor visible



Side with motor visible



## Range of finishes

■ Zirkel Infracra's doors come with certain standard finishes, which depend on the particular type of door. The table below compares the different finishes, to allow selection of the most suitable for a given application.

### Polyester finish (CS)

- Galvanized steel sheet EN10142 and EN10147 with 25µ polyester protection: Pyrenees white 1006 (equivalent to RAL 9002), dark grey (RAL 7015) and pearl grey 5001 (equivalent to 9006), ask for others.
- Corrosion resistant.
- **Food grade approval.**
- Supplied with protective film.

### PVC finish

- Galvanized steel sheet EN10142 and EN10147 steel sheet with 130-200µ PVC protection, white colour (equivalent to RAL 9002).
- Very high resistance to corrosion and chemical agents.
- **Food grade approval.**
- Supplied with protective film.

### Stainless steel finish (S/S)

- AISI 304 2B stainless steel sheet.
- High corrosion resistance.
- **Food grade approval.**
- Supplied with white-lacquered counter frames.

### Polypropylene finish (PP)

- Isotactic polypropylene sheet with smooth finish, white colour (equivalent to RAL 9010).
- Corrosion free and high resistance to chemical agents.
- **Food grade approval.**
- Supplied with protective film.

### Polyester/ Fibre Glass composite finish (GFRP)

- Fibre Glass-reinforced polyester sheet with smooth finish, white colour (equivalent to RAL 9010), ask for other finishes.
- Corrosion free and high resistance to chemical agents.
- **Food grade approval.**
- Supplied with protective film.

### Comparison of finishes

	Mechanical resistance	Impact resistance	Corrosion resistance	Hygiene
CS	👍👍👍	👍👍	👍👍	👍
PVC	👍👍👍	👍👍	👍👍	👍
SS	👍👍👍	👍👍	👍👍	👍
PP	👍👍👍	👍👍👍	👍👍👍	👍
GFRP	👍👍	👍👍	👍👍👍	👍👍👍

## Product range table

### Cold room doors

			Temperature range		
Type of opening	Usage frequency	Size	+0°C	-20°C	-40°C
Sliding	High	up to 2x2.6m	Sliding 002		Sliding IF
		> 2x2.6m	Sliding IF		
Hinged	High	up to 1.1x2.2m	Hinged Standard		Hinged Industrial
		> 1.2x2.2m	Hinged Industrial		
Fire Doors	Low	up to 2.5x3m	IFire +0°C	IFire -20°C	-

### Rapid doors

Type of door	Opening height		Wind		
	Up to 3.4m	> 3.4m	Low	Moderate	Strong
Rapid Roll-up	👍👍👍	👍	👍👍👍	👍	NO
Rapid Roll-up (Large Sizes)	👍👍	👍👍👍	👍👍👍	👍	NO
Rapid Fold-up	👍👍👍		👍👍👍		
Rapid Cold Room	Only for cold chambers				

👍 Not recommended    👍👍 Acceptable    👍👍👍 Ideal

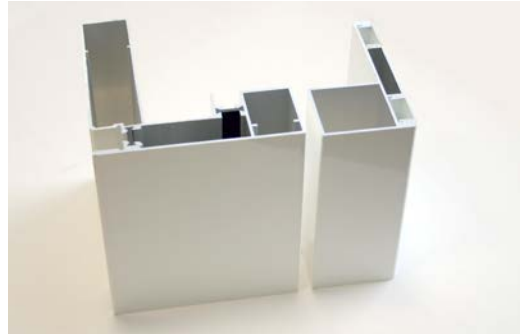
## // Frame and installation types

### Panel-mounted frame:

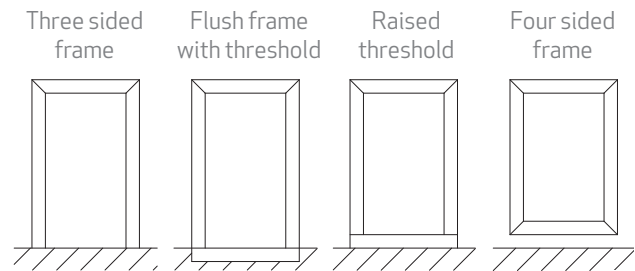
- Consists of a main frame in combination with a secondary frame (referred to as the counter frame). This combination is adjusted to the thickness of the panel into which the door is to be installed.
- If the panel is thicker than the standard counter frame combination, a third frame (supplementary frame) is used.
- The frames are joined to each other by screws, which remain hidden beneath the counter frame beading.

### Wall frame:

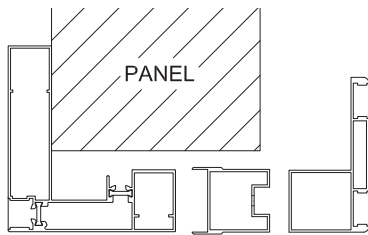
- Consists of a main frame to which several construction clamps are attached, arranged in such a way that the door can be correctly fixed to the wall.
- The clamps are made from galvanised steel.



### Types of frame:



### COMMERICAL COLD ROOM FRAME



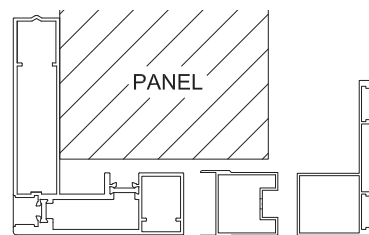
#### Benefits:

- High mechanical strength and lightweight.
- Easy and fast installation, adaptable to any panel thickness.
- Double thermal break, ensuring thermal insulation.

#### Applicable to doors:

- Sliding commercial (002), Hinged commercial.

### INDUSTRIAL COLD ROOM FRAME



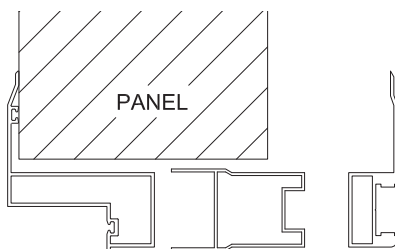
#### Benefits:

- High mechanical strength
- Easy and fast installation, adaptable to any panel thickness.
- Double thermal break, ensuring thermal insulation.

#### Applicable to doors:

- Sliding industrial (IF), Hinged industrial.

### COMMERICAL SERVICE FRAME



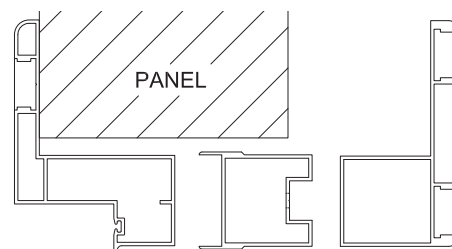
#### Benefits:

- Aesthetically appealing finish.
- Easy and fast installation, adaptable to any panel thickness.

#### Applicable to doors:

- Commercial doors.

### INDUSTRIAL SERVICE FRAME



#### Benefits:

- High mechanical strength
- Easy and fast installation, adaptable to any panel thickness.

#### Applicable to doors:

- Industrial service doors.



# CLEAN ROOM



## // Application

- Mainly used to divide work and service areas, particularly "clean" and "dirty" areas using an "airlock" system with high traffic and/or where fast opening and closing operations are required.

## // Advantages

- Hygienic design according to ISO 14644-1 standard.
- UNE-EN 13241-1 certification with class 2 wind resistance.
- Concealed attachment to ground.
- Doors are supplied pre-installed and with all screws and fastening hardware.
- Easy programming and low maintenance.
- Airlock system and touchless activation options.



## // Benefits

- Suitable for clean rooms.
- Safety and security of operation.
- Saves time and costs.
- Easy and very fast installation.
- Saves costs.
- Control and safety for maximum cleanliness.



### MAXIMUM DIMENSIONS

<b>Opening width</b>	Max. 4m
<b>Opening height</b>	Max. 3.4m
<b>Other specific dimensions upon request</b>	



## // Standard features



Control unit



Standard motor

### Standard fabric colours



RAL 9010 RAL 1003 RAL 2004 RAL 3002



RAL 7030 RAL 6026 RAL 5010 Ask for others

\*(approximate RAL equivalent)

### Infracra IF10VF control unit

- Control panel designed and developed by Infracra,
- Single phase 1x230 VAC+PE connection at 50-60 Hz and frequency converter.
- Digitally controlled door positioning and adjustment.
- IP56 protective case in ABS plastic for mounting in positive temperature areas.
- Protected by the use of class II hardware and reinforced insulation.
- Case includes display window for ease of use when box is closed.

### Motor

- STANDARD MOTOR: 3x230 VAC+PE, 0.5 HP, 160 rpm, IP54
- Door opening and closing speed: 0.93m/s.
- Electronic limit switches, with encoder for absolute positioning of door.
- Low noise gears.

### Structure

- Lintel and guides made from white-lacquered extruded aluminium with clean, flexible joints and low wear for better sealing, and with cable housing (hidden cables).
- Support panel and fixtures in stainless steel.
- Floor mounting with hidden screws to facilitate cleaning.

### Safety

- A 2000H to 2500H emitter-receiver photocell barrier is integrated into the guide, IP67. A safety edge is not required.
- Emergency stop button inside and outside

## // Optional features

- Door manufactured **ENTIRELY** in **STAINLESS STEEL** (guides, lintel, control panel, base and screws in 304 stainless steel).
- Several opening options: radar, handle, magnetic loop, remote control, no-touch button and one point laser movement sensor.
- Anodised structure optional.
- Single phase 1200w Uninterruptible Power Supply (UPS).
- Additional or made-to-measure observation windows.
- Airlock system between several doors.
- Contactless activation system.
- Low headroom option.
- Flashing safety beacon



Contactless activation system



Flashing safety beacon



One point laser movement sensor

## // Distinguishing features

- Aluminium structure with optional anodising. **Hygienic and clean.**
- Attaches to floor with hidden screws. **Ease of cleaning.**