



COLD ROOM DOOR & ACCESSORIES



inovarefrigeration
by INOVA YAPI



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

OUR VISION

TRUST IN THE COLD CHAIN, VALUE FOR THE FUTURE

With our high-tech products and sustainable solutions, we aim to be a globally trusted business partner in the preservation of food, health, and life.



TRUST

Continuous and secure storage solutions



SUSTAINABILITY

Energy-saving and environmentally friendly technologies



INNOVATION

R&D-focused engineering and innovative products



PARTNERSHIP

Long-term, strong, and value-adding solutions



“ Protecting today, adding value to the future. ”

iNOVA REFRIGERATION, DOOR, SANDWICH PANEL AND ACCESSORIES

Engineering and Cold Storage Solutions Since 1988

Inova Refrigeration is a manufacturer specializing in cold room doors, sandwich panels, and refrigeration accessories, offering engineering solutions for industrial cold storage projects worldwide.

Our manufacturing journey began in Germany in 1988, when we established our first manufacturing infrastructure based on European engineering standards. Over time, we expanded our production capacity and product range, becoming one of the first manufacturers to produce industrially in Türkiye:

- Sandwich panels (since 2004)
- Cold room doors (since 2007)
- Cold room accessories
- Door accessories for refrigeration systems

Today, we serve refrigeration, construction, and sustainable building customers in over 190 countries, supporting international contractors, distributors, and project developers with reliable and scalable solutions.

Manufacturing Expertise and Product Scope

Our manufacturing philosophy is based on precision engineering, material quality, and long-term performance. Each product category has been developed to meet the operational demands of industrial environments:

-Cold Room Doors

Designed for thermal efficiency, airtight sealing, and intensive industrial use.

- Sandwich Panels

Highly insulated panels designed for cold storage facilities, providing energy efficiency and structural integrity.

- Refrigeration Accessories

Complementary components that enhance system performance, installation efficiency, and durability.

International Standards and Certifications

Quality and compliance form the basis of our manufacturing process.

All our cold storage door models are manufactured in accordance with:

• ISO 9001 Quality Management System

- European norms and food safety regulations

In addition, our products are evaluated according to **Good Hygiene Practices (GHP) standards**, ensuring their suitability for hygiene-critical environments such as food processing and cold storage facilities.

Our GHP-based approach reflects our commitment to hygiene, safety, and regulatory compliance, which are essential requirements for global industrial refrigeration projects.



COLD ROOMS



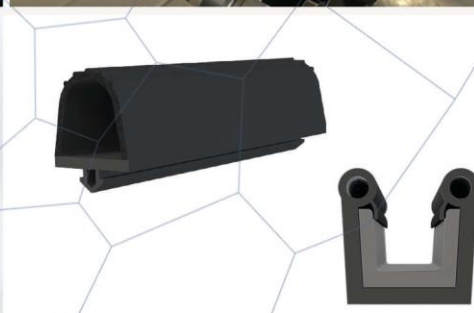
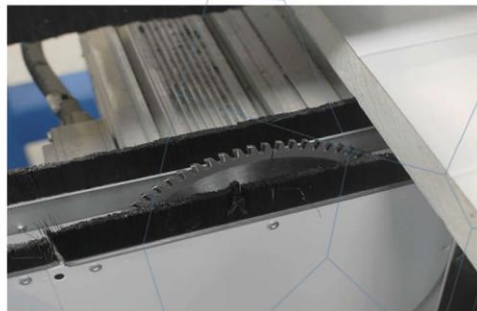
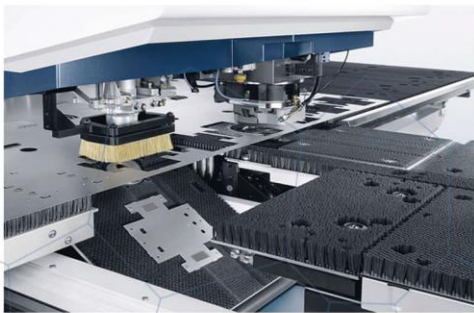
FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

iNOVA DOOR and ACCESSORIES SYSTEMS



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com



THE DOORS WITH INSULATING , FILLED WITH POLYURETHANE, ISOTHERMIC - HINGED AND SLIDING DOORS - TWO LEAVES SLIDING DOORS - SLIDING DOORS WITH PERSONAL DOOR MONORAIL TYPE DOORS USAGE AREAS;

- Cold storage
- Cold rooms
- Modular cold plants
- Walk-in freezer rooms
- Vehicles with cold dorse
- Cold product protection rooms
- Shock freezing chambers
- Climating rooms
- Medical materials and waste plants
- The facilities that apply polyurethane
- Factories
- Health and beauty facilities
- Hotels
- Hospitals
- Restaurants
- Chemical laboratories
- Gsm
- Telecominication
- Morgues
- Operation rooms
- Units in which insulation and hygiene are required



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

HINGED COLD ROOM DOOR

PVC FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

PVC FRAME

Aluminum
Case

Pcv
Frame

With Step

inovaRefrigeration
by INOVAYAPI

HINGED COLD ROOM DOOR

PVC FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Recessed type doors

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

75 cm width * 180 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
90 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
100 cm width * 200 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
110 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)

Minimum and Maximum Door Dimensions :

Minimum : 40 cm Width * 40 cm High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)
Maximum : 1.5 m Width * 3 m High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)

The maximum door dimensions are calculated by considering the load bearing system of the PVC frame
Measures can be made in the desired size in the areas to be applied on-site.
The prices vary for models other than standard size.



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Hinged door

Door Wing Thickness : 80 mm / 100 mm (Optionally)

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m3 - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022$ W/mK - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets .Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : 100 % leak - proof & frost- free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards. Dark rooms In order to detect the door lock & facilitate the output, it is marked with phosphorus (bright).

Door Hinges : The door hinges have a system that opens up when the door is opened & a downward system while closing. This system ensures maximum insulation of the door. The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size. It works silently No sagging, No breaking.

Door Front Frame : In accordance with the working principles of Cold Storage, they are produced in maximum quality at aesthetic , ergonomic & flexible to be used at +80 °C / 60 °C- It is designed with 100 % German technology at doors with negative and + °C positive values. It is made of pvc raw material imported from 1st class quality according to European Norms . Cold room door frame is so strong that screw buldeks and bolt are applicat easily on the surface.

Door Rear Frame : 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted. It has 2 models in aluminum & PVC . Since the rear frames do not carry loads, they are applied only for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



Resistance (Heating Cable) : 220 Volt It can be connected directly .It can work within the range of- 70° C to + 200 ° C Maximum degree.(optionally) .

The Viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate : Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories : Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.



PVC FRAME :

Without Step Pvc Frame

1

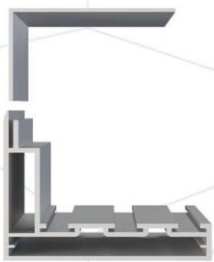
Screw

Screw hiding
coverPVC
Frame

2

3

Back Frame



Front Frame

Without Step



COLD ROOMS



FOOD INDUSTRY

PHARMACEUTICAL AND
HEALTHCARE SECTORiNOVA Refrigeration
www.inovarefrigeration.com

PVC FRAME :

With Step Pvc Frame

1



Screw

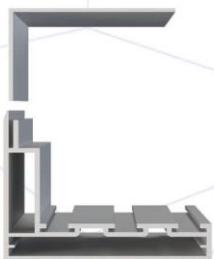
Screw hiding cover

PVC Frame

2

3

Back Frame



Front Frame

With Step

4



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

HINGED COLD ROOM DOOR

ALUMINIUM FRAME

Aluminium
Case

Aluminium
Frame

inovaRefrigeration
by INOVAYAPI



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

**ALUMINUM
FRAME**

Aluminum
Case

Aluminium
Frame

Without Step

HINGED COLD ROOM DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

INOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Recessed type doors

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

75 cm width * 180 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
90 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
100 cm width * 200 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
110 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)

Minimum and Maximum Door Dimensions :

Minimum : 40 cm Width * 40 cm High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)
Maximum : 2 m Width * 3 m High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transport standards
Measures can be made in the desired size in the areas to be applied on-site.
The prices vary for models other than standard size.



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Hinged door

Door Wing Thickness : 80 mm / 100 mm (Optionally)

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocyanate = Polyurethane

Insulation Density : 40- 45 kg / m³ - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022 \text{ W/mK}$ - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & +150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : 100 % leak - proof & frost- free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards. Dark rooms In order to detect the door lock & facilitate the output, it is marked with phosphorus (bright).

Door Hinges : The door hinges have a system that opens up when the door is opened & a downward system while closing. This system ensures maximum insulation of the door. The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size. It works silently No sagging, No breaking.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame.

Door Rear Frame : 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted. It has 2 models in aluminum & PVC . Since the rear frames do not carry loads, they are applied only for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



Resistance (Heating Cable) : 220 Volt It can be connected directly .It can work within the range of- 70° C to + 200 ° C Maximum degree.(optionally) .

The Viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

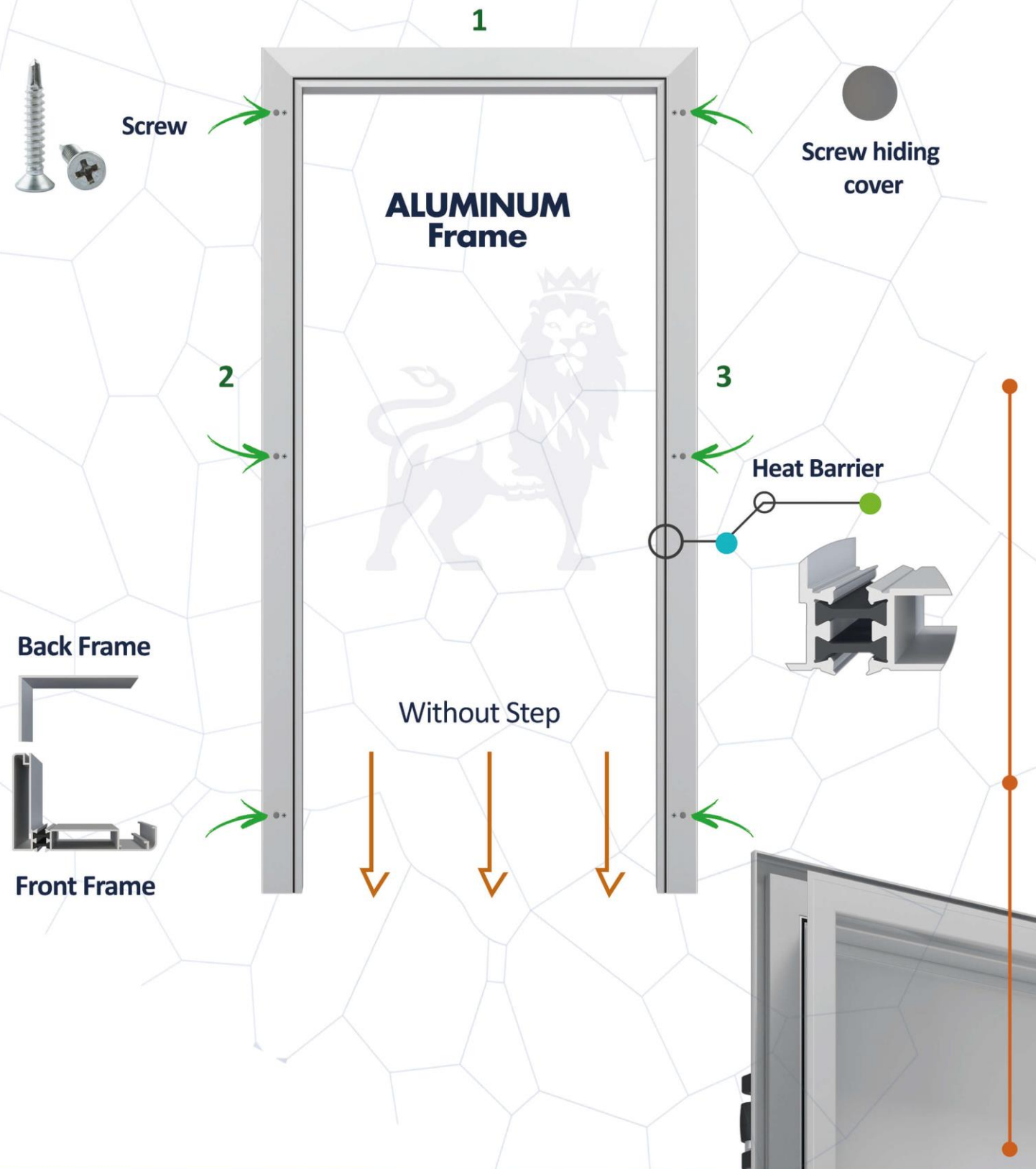
Door Bumper Plate : Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories : Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.



ALUMINUM FRAME :

Without Step Aluminum Frame



COLD ROOMS



FOOD INDUSTRY

PHARMACEUTICAL AND
HEALTHCARE SECTORiNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME :

With Step Aluminum Frame



Screw

Screw hiding
cover

1

ALUMINUM
Frame

2

3

Heat Barrier



Back Frame



Front Frame

With Step



4



COLD ROOMS



FOOD INDUSTRY

PHARMACEUTICAL AND
HEALTHCARE SECTORiNOVA Refrigeration
www.inovarefrigeration.com

MONORAIL COLD ROOM HINGED DOOR

PVC FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com



PVC FRAME

**Monorail
Channel**

**PVC
Frame**

**Aluminium
Case**

Without Step

MONORAIL COLD ROOM HINGED DOOR

PVC FRAME



COLD ROOMS



FOOD INDUSTRY



**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Recessed type doors

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

75 cm width * 180 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
90 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
100 cm width * 200 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
110 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)

Minimum and Maximum Door Dimensions :

Minimum : 40 cm Width * 40 cm High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)
Maximum : 1.5 m Width * 3 m High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)

The maximum door dimensions are calculated by considering the load bearing system of the PVC frame
Measures can be made in the desired size in the areas to be applied on-site.
The prices vary for models other than standard size.



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Monorail Hinged Door

Door Wing Thickness : 80 mm / 100 mm (Optionally)

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m³ - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022$ W/mK - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : 100 % leak - proof & frost- free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards. Dark rooms In order to detect the door lock & facilitate the output, it is marked with phosphorus (bright).

Door Hinges : The door hinges have a system that opens up when the door is opened & a downward system while closing. This system ensures maximum insulation of the door. The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size. It works silently No sagging, No breaking.

Door Front Frame : In accordance with the working principles of Cold Storage, they are produced in maximum quality at aesthetic, ergonomic & flexible to be used at +80 °C / 60 °C- It is designed with 100 % German technology at doors with negative and + °C positive values. It is made of pvc raw material imported from 1st class quality according to European Norms . Cold room door frame is so strong that screw buldeks and bolt are applicat easily on the surface. The monorail channel is in the upper part of the front . It's applied as standard in the middle of the door . According to the monorail system located in the area where the door will be installed , a monorail channel can be opened with the special production technique.

Door Rear Frame : 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted. It has 2 models in aluminum & PVC . Since the rear frames do not carry loads, they are applied only for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



Resistance (Heating Cable) : 220 Volt It can be connected directly .It can work within the range of- 70° C to + 200 ° C Maximum degree.(optionally) .

The Viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate : Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories : Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.

MONORAIL SYSTEM :

With the heavy transport system such as meat ,chicken , etc , hanger systems called monorail are used especially in the areas where product transitions are used with air suspension system & product transitions from outdoor units to indoor units .In monorail systems , In Monorail systems , it's desired to be close to the maximum level of insulation & easy transport of heavy product transitions is the main purpose. In order to operate the monorail system to be applied in the unit ,the multiplication doors produced by finding a monorail channel suitable for our unit are called monorail type multiplication doors . Since monorail doors are different in every project in the World, each product can be produced according to the Project . Monorail doors are manufactured using hygienic materials in accordance with European standards . They do not undergo any deformation in all kinds of chemical disinfectant cleaning .

ADVANTAGES OF SINGLE WING MONORAIL HINGED DOORS :

- Provides moderate thermal insulation .
- It can be opened more functional (such as by drag and carry) provides ease in the transition of heavy products .
- It provides to prevent heat losses by opening it to the desired extent during periods when big and heavy product loading will not be done .
- Has an aesthetic & ergonomic look .
- Saves time and space .
- One-wing application saves cost thanks to its functional suitability in required areas .
- to the monorail channel , hanging system provides maximum convenience for product transportations .
- For monorail doors , the only disadvantage is that the monorail cannot be closed 100%, resulting in minimum heat losses.



MONORAIL SYSTEM HINGED DOORS

Technical Specifications of Aluminum Case & PVC Frame - Monorail Channel (Hinged) DOORS

Hinged Doors



COLD ROOMS



FOOD INDUSTRY

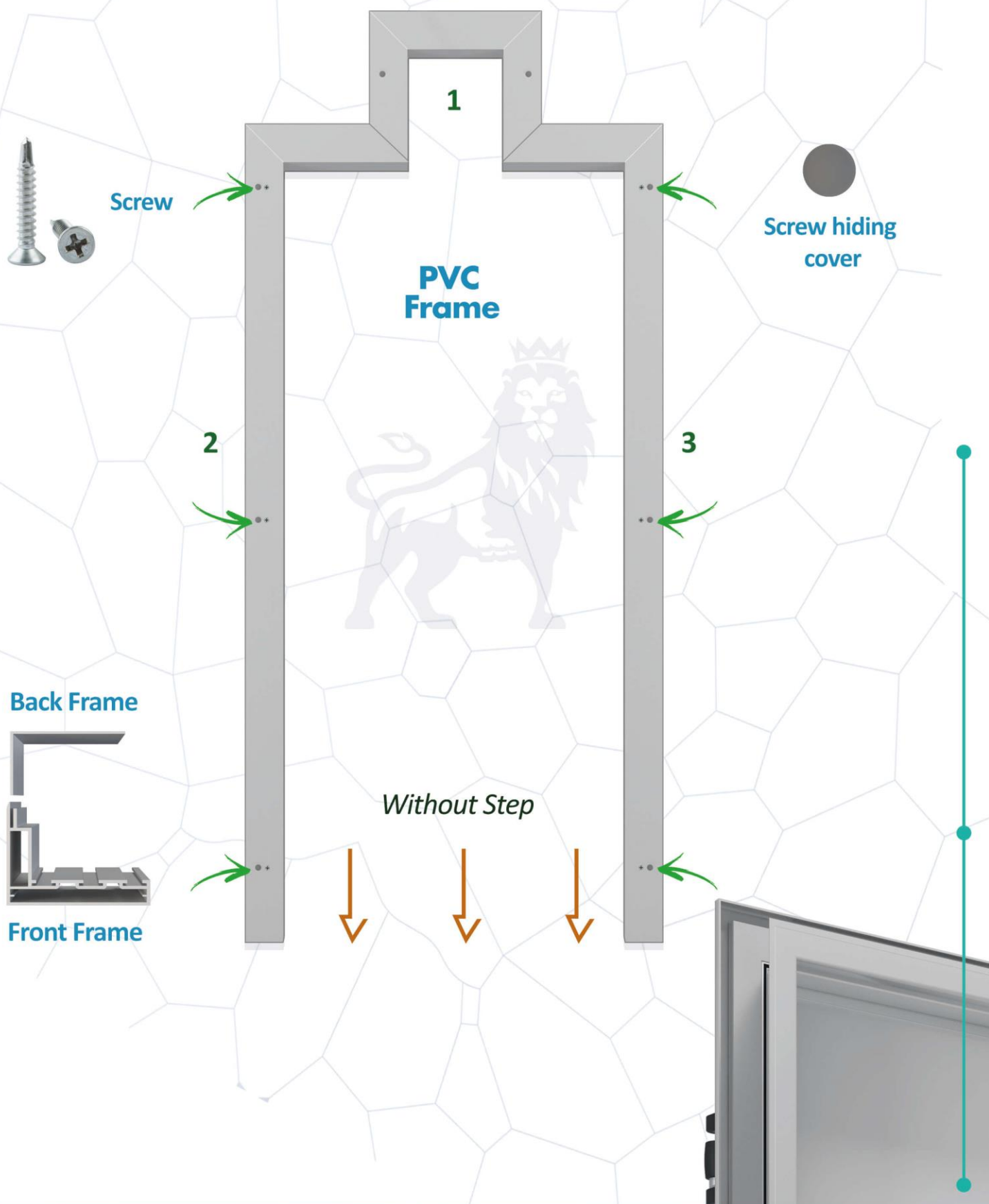


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

PVC FRAME :

Without Step Pvc Frame



COLD ROOMS



FOOD INDUSTRY

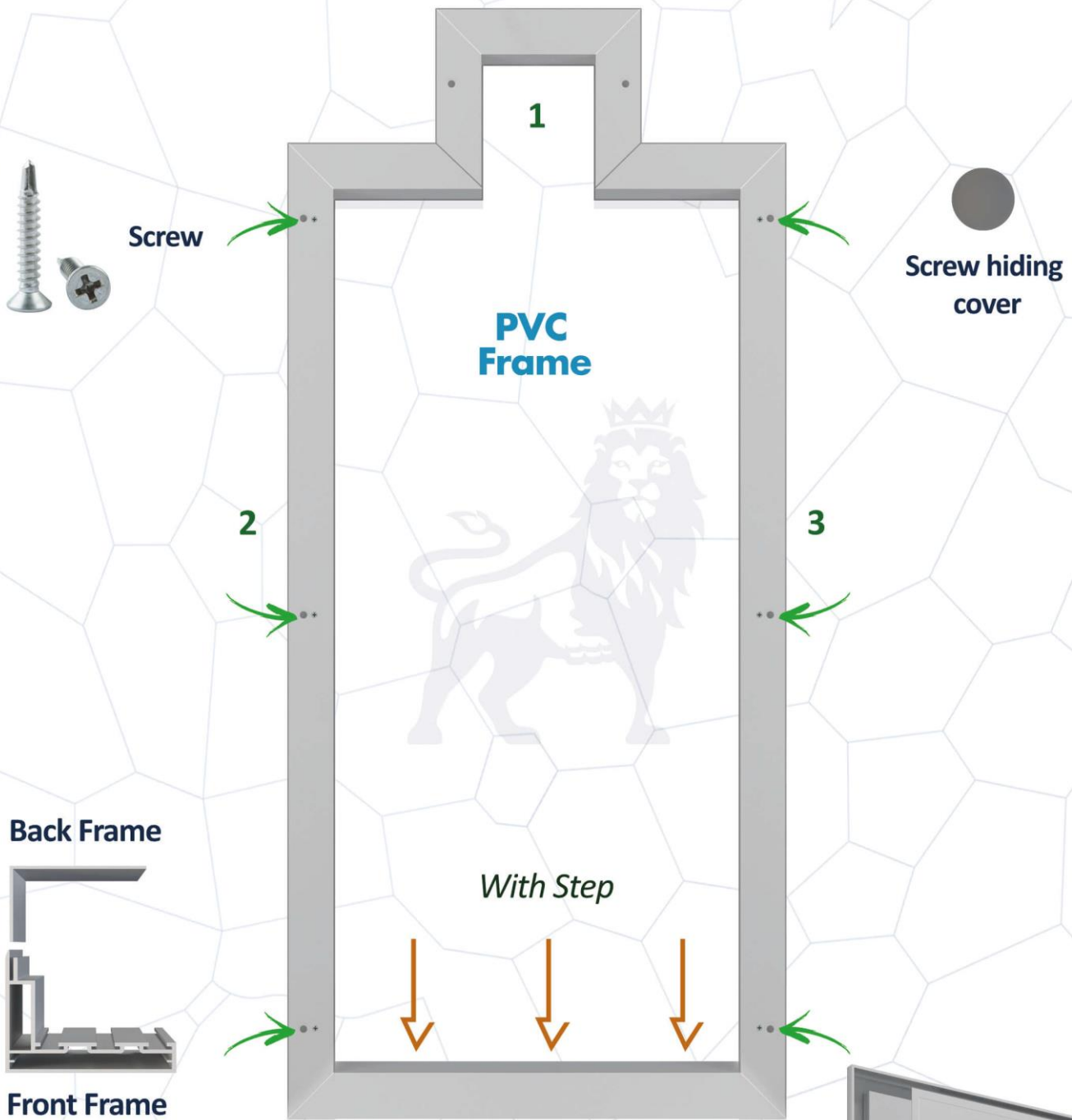


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

PVC FRAME :

With Step Pvc Frame



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

MONORAIL COLD ROOM HINGED DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

**ALUMINUM
FRAME**

Monorail
Channel

Aluminum
Frame

Aluminum
Case

Without Step

MONORAIL COLD ROOM HINGED DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Recessed type doors

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

75 cm width * 180 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
90 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
100 cm width * 200 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)
110 cm width * 190 cm High * 80 mm / 100 mm (Optionally) thickness (wing or blade size)

Minimum and Maximum Door Dimensions :

Minimum : 40 cm Width * 40 cm High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)
Maximum : 2 m Width * 3 m High * 80 mm / 100 mm (Optionally) thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transport standards
Measures can be made in the desired size in the areas to be applied on-site.
The prices vary for models other than standard size.



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Monorail Hinged door

Door Wing Thickness : 80 mm / 100 mm (Optionally)

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m³ - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022$ W/mK - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : 100 % leak - proof & frost- free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards. Dark rooms In order to detect the door lock & facilitate the output, it is marked with phosphorus (bright).

Door Hinges : The door hinges have a system that opens up when the door is opened & a downward system while closing. This system ensures maximum insulation of the door. The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size. It works silently No sagging, No breaking.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame. The monorail channel is in the upper part of the front . It's applied as standard in the middle of the door. According to the monorail system located in the area where the door will be installed , a monorail channel can be opened with the special production technique.

Door Rear Frame : 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted. It has 2 models in aluminum & PVC . Since the rear frames do not carry loads, they are applied only for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



Resistance (Heating Cable) : 220 Volt It can be connected directly .It can work within the range of- 70° C to + 200 ° C Maximum degree.(optionally) .

The Viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate : Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories : Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.

MONORAIL SYSTEM :

With the heavy transport system such as meat , chicken , etc , hanger systems called monorail are used especially in the areas where product transitions are used with air suspension system & product transitions from outdoor units to indoor units .In monorail systems , In Monorail systems , it's desired to be close to the maximum level of insulation & easy transport of heavy product transitions is the main purpose. In order to operate the monorail system to be applied in the unit , the multiplication doors produced by finding a monorail channel suitable for our unit are called monorail type multiplication doors . Since monorail doors are different in every project in the World, each product can be produced according to the Project . Monorail doors are manufactured using hygienic materials in accordance with European standards . They do not undergo any deformation in all kinds of chemical disinfectant cleaning .

ADVANTAGES OF SINGLE WING MONORAIL HINGED DOORS :

- Provides moderate thermal insulation .
- It can be opened more functional (such as by drag and carry) provides ease in the transition of heavy products
- It provides to prevent heat losses by opening it to the desired extent during periods when big and heavy product loading will not be done .
- Has an aesthetic & ergonomic look .
- Saves time and space .
- One-wing application saves cost thanks to its functional suitability in required areas .
- to the monorail channel , hanging system provides maximum convenience for product transporations .
- For monorail doors, the only disadvantage is that the monorail cannot be closed 100%, resulting in minimum heat losses.



MONORAIL SYSTEM HINGED DOORS

Technical Specifications of Aluminum Case &
Aluminium Frame / Monorail Channel (Hinged) Doors

Hinged Doors



COLD ROOMS



FOOD INDUSTRY

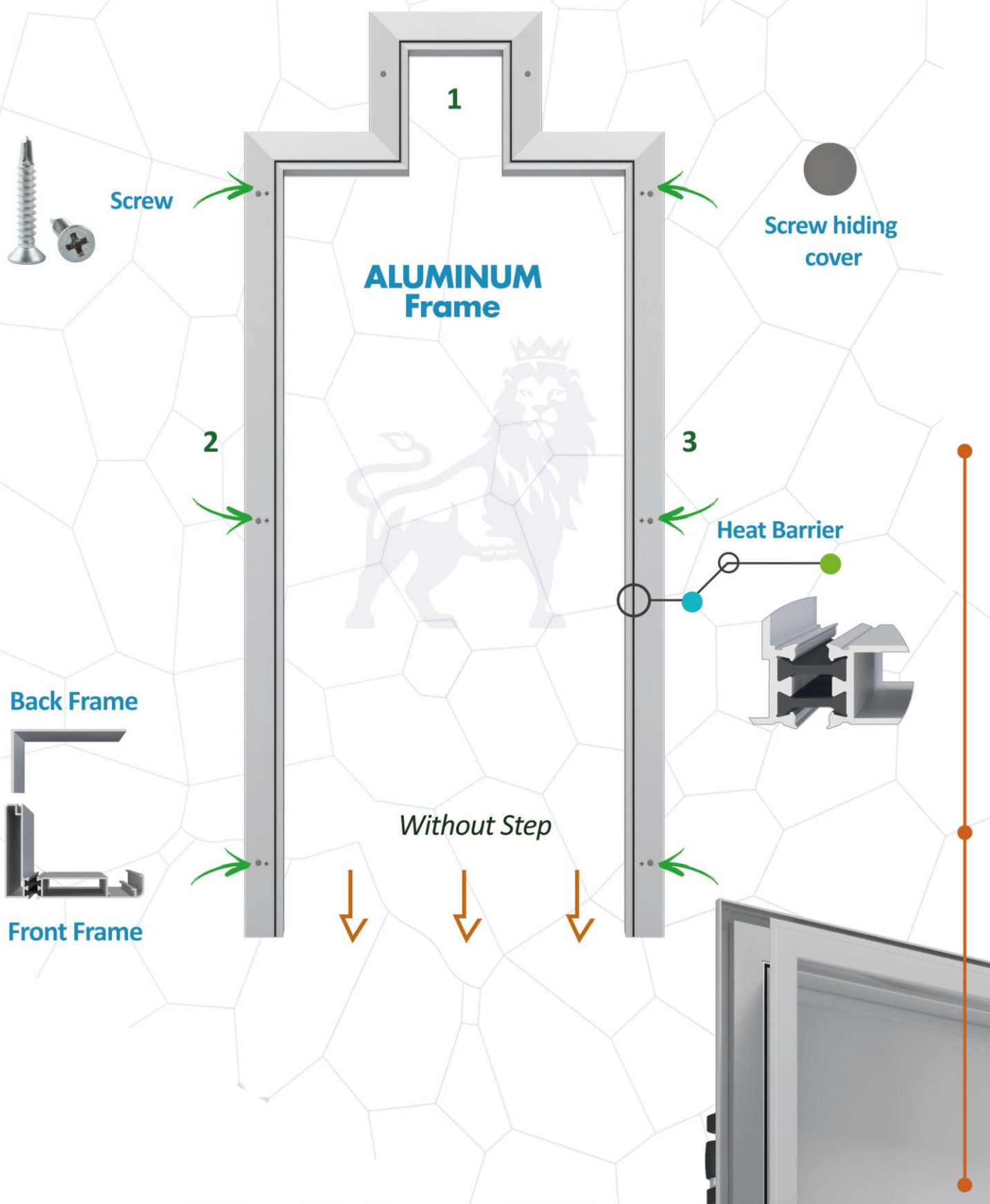


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME :

Without Step Aluminum Frame



COLD ROOMS



FOOD INDUSTRY

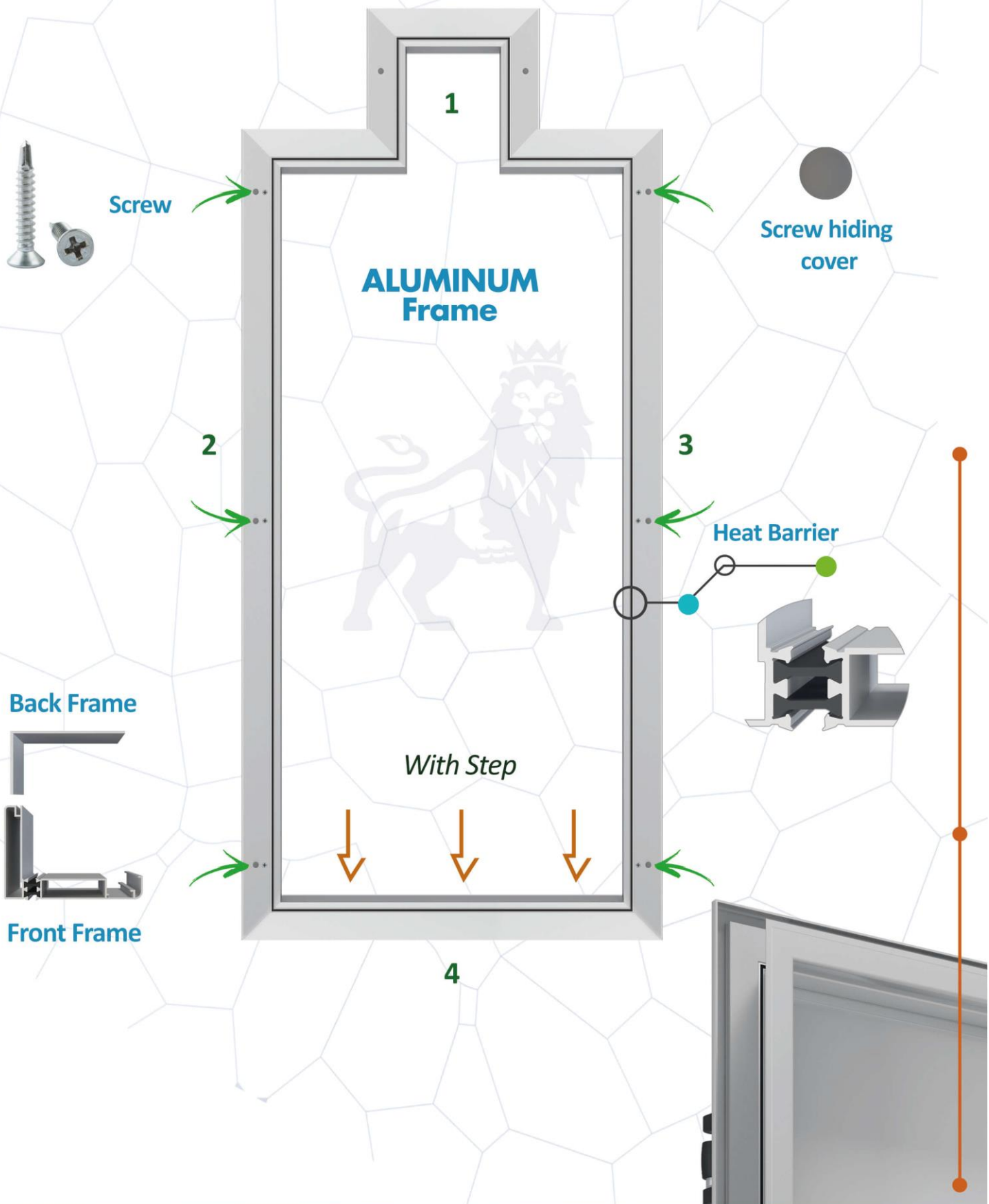


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME :

With Step Aluminum Frame



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

DOUBLE WINGS HINGED COLD ROOM DOOR

ALUMINIUM FRAME



Aluminium
Frame

Aluminium
Case

inovaRefrigeration
by INOVAP

**ALUMINUM
FRAME**



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Recessed type doors

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, double leaf hinged doors models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum : 40 cm Width * 40 cm High * 80 mm thickness (wing / blade size)
Maximum : 1,5 m Width * 3 m High * 80 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Double leaf Hinged door

Door Wing Thickness : 80 mm / 100 mm (Optionally)

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m3 - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022 \text{ W/mK}$ - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : 100 % leak - proof & frost- free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards. Dark rooms In order to detect the door lock & facilitate the output, it is marked with phosphorus (bright).

Door Hinges : The door hinges have a system that opens up when the door is opened & a downward system while closing. This system ensures maximum insulation of the door. The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size. It works silently No sagging, No breaking.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame.

Door Rear Frame : 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted. It has 2 models in aluminum & PVC . Since the rear frames do not carry loads, they are applied only for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .

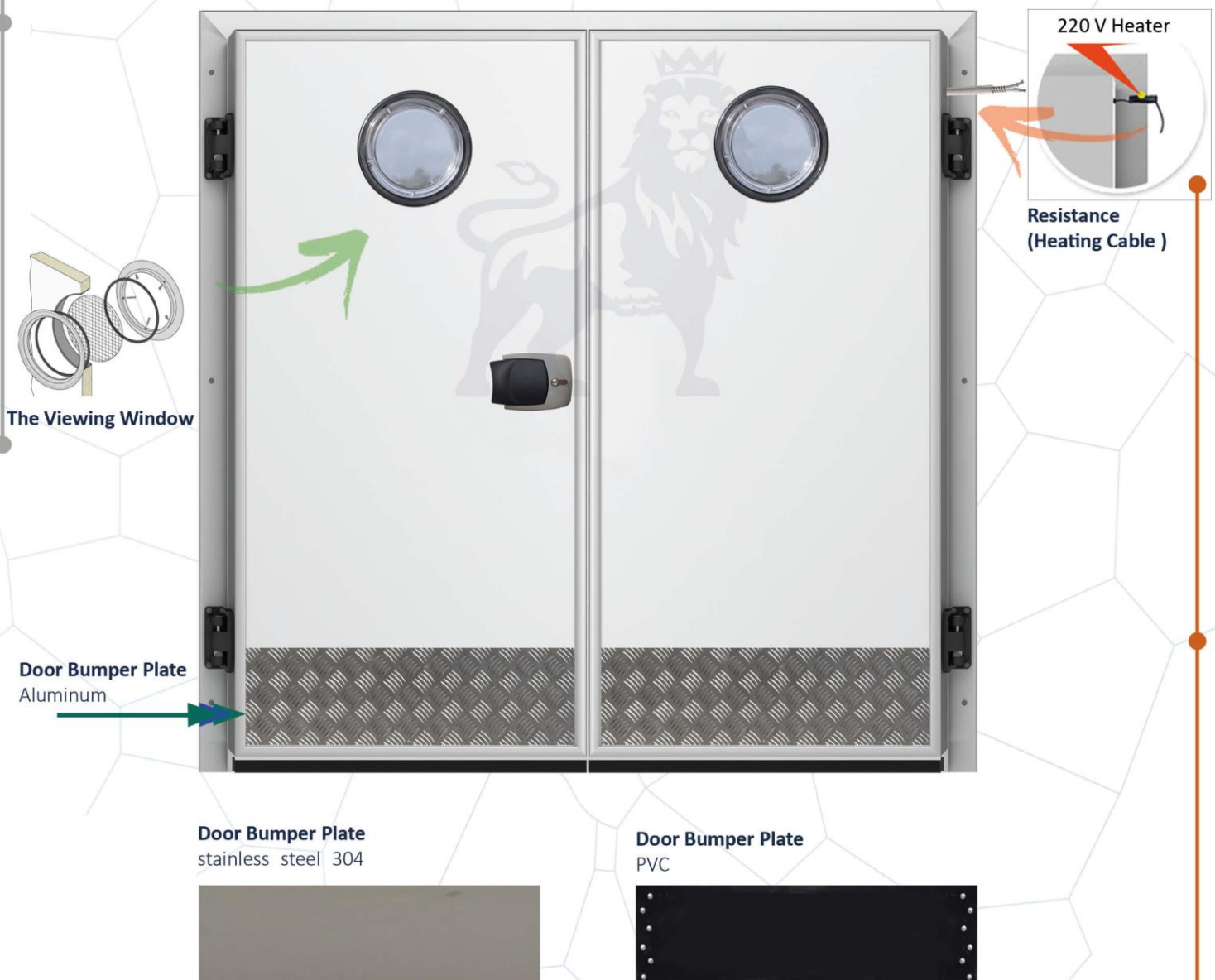


Resistance (Heating Cable) : 220 Volt It can be connected directly .It can work within the range of- 70° C to + 200 ° C Maximum degree.(optionally) .

The Viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate : Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories : Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.





SLIDING COLD ROOM DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

SLIDING COLD ROOM DOOR

ALUMINIUM FRAME



ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Sliding type doors are produced from heat bridged profiles.maximizes

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	100 cm Width	* 100 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	300 cm Width	* 500 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	500 cm Width	* 300 cm High	* 80 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Sliding door
Door Blade (wing) Thickness	: 80 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel.
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m ³ - EN 1602 Standards
Thermal Conductivity Coefficient	: λ = 0,022 W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & PVC Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C As used in food and living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards . the gasketed U polyamide support are used by us for the first time in the World , it's ensured that the gaskets are 100 % fully pressed against the door sill.
Door Blade (wing) Case	: DIN 50049-2.2. / EN 10204-3.1.B. Anodized aluminum profile in Polyamide heat bridge according to the unit where the door is used or without bridges Frames first in the world It's implemented by us . this system, even if there is a power failure in the doors where the heater is installed 100% it will be prevented door freezing.
Door Outer Handle	: There are 2 types of wings (blade) located on the outside of the door which provides a comfortable opening of the doors . According to the dimensions of the door & according to the customer requirements are applied either individually . The large opening lever is made of aluminum & stainless materials. 2. The holding drawbar PA 6.6 (Polyamide 6.6) is produced at 30 % GF standards.
Door Inner Handle	: In dark rooms , In order to make the door opening handle easier & to facilitate the exit, the phosphor (shiny) marked PVC body has the inner handle with aluminum handle . Two arm application is made according to the door size.
Door Top Rail (slider) System	: Aluminum top rail for easy opening & closing of doors System is available . Worldwide except Germany & Italy are also working with several companies that are manufacturing in Turkey doors reverse single rail system . While the reverse rail system provides ease of installation , the main purpose is 100% acceptance in terms of work safety rules worldwide . Thanks to this system, the doors do not fall on people in any impact or misuse . Sliding door production system DIN 50049-2.2./EN 10204-3.1.B standards of anodized aluminum profiles are composed of.Gaskets have a special system that can be pressed sideways & above . And it has an aesthetic appearance as it hides the mechanism running on the door . Doors run quietly inside the room No sagging, No breaking.



Door Top Rail Stops

: There are L door stops at the top & End of the door to prevent the door from coming off the top rail. It's produced from aluminum profile materials according to DIN 50049-2.2./EN 10204-3.1.B. They are equipped with sound & speed cut-out rubber stop.

Door Top Rail Wheels

: ZnAl27Cu2 in accordance with EN 12844 standards Zamak 27 materials are used in heavy industry around the World . Top wheel carriers with double - ball steel ball bearings When we use a plastic material system , we use steel roller bearing , zamak 27 rib rotors & reverse system upper rail wheels consisting of aluminum anodized parts in DIN 50049-2.2./EN 10204-3.1.B standards . You can adjust the irregularities in the units & the floor by means of this system . You can provide the full insulation of your door by completing all the process . To the excellent acoustics , the doors are quiet and easy to open & close.

Door Bottom Rail

: DIN 50049-2.2. / EN 10204-3.1.B standards include anodized aluminum coated V sub-rail system . it provides closing of the door with the top + bottom rail system by providing 100% sealing from the bottom . The door lower rail system operates in parallel with the overflow system & the doors are lifted up when the doors are opened + presses down when closing. To this system, insulation is kept at maximum level.

Door Bottom Rail Slider

: PVC Appearance PA 6.6 (Polyamide 6.6) is an aesthetic rail slide channel with 30% GF standards . It's mounted 5 cm outwards in the opening direction of the door. It's internal channel , it enables the door bottom rail to open & close easily.

Door Front interlock

: Door pre - interlock is produced in male logic with PA 6.6 (Polyamide 6.6) 30% GF standards . It's aesthetic door closers with PVC look . 2- part clamping mechanism 1 piece on the door + 1 part is mounted on the door jamb or closing direction on the unit. Both parts are interlocked in the door closure & 100 % insulation is supported by allowing the door seals to fully press into the moldings.

Door Front frame

: Anodized 100 % to DIN 50049-2.2. / EN 10204-3.1.B Standards german designed against frost , maximum heat insulation polyamide barrier aluminum moldings.

Door Rear Frame

: 2 types of rear frame can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC . Since the rear frames do not carry loads , they are applied only for image aesthetics.

Door Opening System

: Sliding doors are mainly operated as manual option . Detailed information on sliding doors as well as motorized sliding doors are in the section.

Resistance (heating cable)

: 220 Volt It can be connected directly It can work within the range of- 70 ° C to + 200 ° C Maximum degree.

The viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals 100% leak-proof. (Optional).

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper . bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.



SLIDING DOORS TECHNICAL SPECIFICATIONS OF (SLIDING) DOORS WITH ALUMINIUM CASE + ALUMINIUM FRAME

Sliding Doors

Door Lock

: 100% leak-proof & frost - free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards . Dark rooms In order to detect the door lock & facilitate the output , it's marked with phosphorus (bright) (optional)

Optional door accessories

: Over 30 pieces. colors are Available
304 quality chrome stainless sheet blade
Door Lock
Viewing window
Bumper plate
PIR Polyurethane
Automatic door closers

ADVANTAGES OF SINGLE WING SLIDING DOORS :

Provides maximum thermal insulation .

It can be opened wider (forklift , truck , truck , container, pallet) provides great convenience in the transition. It provides to prevent heat losses by opening it to the desired extent in periods when big product loading is not done.

- Has an aesthetic & ergonomic look .
- Saves time & space .
- Single wing application saves cost thanks to its functional suitability in required areas.
- One-wing sliding doors provide maximum advantage to the high insulation system , which allows you to use your unit components easily for many years with minimum payment convenience.



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME



DOUBLE WINGS SLIDING DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Sliding type doors are produced from heat bridged profiles. maximizes system thermal insulation

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	100 cm Width	* 100 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	300 cm Width	* 500 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	500 cm Width	* 300 cm High	* 80 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Double Wings Sliding door
Door Blade (wing)Thickness	: 80 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel.
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m ³ - EN 1602 Standards
Thermal Conductivity Coefficient	: λ = 0,022 W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & PVC Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C As used in food and living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards . the gasketed U polyamide support are used by us for the first time in the World , it's ensured that the gaskets are 100 % fully pressed against the door sill.
Door Blade (wing) Case	: DIN 50049-2.2. / EN 10204-3.1.B. Anodized aluminum profile in Polyamide heat bridge according to the unit where the door is used or without bridges Frames first in the world It's implemented by us . this system, even if there is a power failure in the doors where the heater is installed 100% it will be prevented door freezing.
Door Outer Handle	: There are 2 types of wings (blade) located on the outside of the door which provides a comfortable opening of the doors . According to the dimensions of the door & according to the customer requirements are applied either individually . The large opening lever is made of aluminum & stainless materials. 2. The holding drawbar PA 6.6 (Polyamide 6.6) is produced at 30 % GF standards.
Door Inner Handle	: In dark rooms , In order to make the door opening handle easier & to facilitate the exit, the phosphor (shiny) marked PVC body has the inner handle with aluminum handle . Two arm application is made according to the door size.
Door Top Rail (slider) System	: Aluminum top rail for easy opening & closing of doors System is available . Worldwide except Germany & Italy are also working with several companies that are manufacturing in Turkey doors reverse single rail system . While the reverse rail system provides ease of installation , the main purpose is 100% acceptance in terms of work safety rules worldwide . Thanks to this system, the doors do not fall on people in any impact or misuse . Sliding door production system DIN 50049-2.2./EN 10204-3.1.B standards of anodized aluminum profiles are composed of.Gaskets have a special system that can be pressed sideways & above . And it has an aesthetic appearance as it hides the mechanism running on the door . Doors run quietly inside the room No sagging, No breaking.



Door Top Rail Stops

: There are L door stops at the top & End of the door to prevent the door from coming off the top rail. It's produced from aluminum profile materials according to DIN 50049-2.2./EN 10204-3.1.B. They are equipped with sound & speed cut-out rubber stop.

Door Top Rail Wheels

: ZnAl27Cu2 in accordance with EN 12844 standards Zamak 27 materials are used in heavy industry around the World . Top wheel carriers with double - ball steel ball bearings When we use a plastic material system , we use steel roller bearing , zamak 27 rib rotors & reverse system upper rail wheels consisting of aluminum anodized parts in DIN 50049-2.2./EN 10204-3.1.B standards . You can adjust the irregularities in the units & the floor by means of this system . You can provide the full insulation of your door by completing all the process . To the excellent acoustics , the doors are quiet and easy to open & close.

Door Bottom Rail

: DIN 50049-2.2. / EN 10204-3.1.B standards include anodized aluminum coated V sub-rail system . it provides closing of the door with the top + bottom rail system by providing 100% sealing from the bottom . The door lower rail system operates in parallel with the overflow system & the doors are lifted up when the doors are opened + presses down when closing. To this system, insulation is kept at maximum level.

Door Bottom Rail Slider

: PVC Appearance PA 6.6 (Polyamide 6.6) is an aesthetic rail slide channel with 30% GF standards . It's mounted 5 cm outwards in the opening direction of the door. It's internal channel , it enables the door bottom rail to open & close easily.

Door Front interlock

: Door pre - interlock is produced in male logic with PA 6.6 (Polyamide 6.6) 30% GF standards . It's aesthetic door closers with PVC look . 2- part clamping mechanism 1 piece on the door + 1 part is mounted on the door jamb or closing direction on the unit. Both parts are interlocked in the door closure & 100 % insulation is supported by allowing the door seals to fully press into the moldings.

Door Front frame

: Anodized 100 % to DIN 50049-2.2. / EN 10204-3.1.B Standards german designed against frost , maximum heat insulation polyamide barrier aluminum moldings.

Door Rear Frame

: 2 types of rear frame can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC . Since the rear frames do not carry loads , they are applied only for image aesthetics.

Door Opening System

: Sliding doors are mainly operated as manual option . Detailed information on sliding doors as well as motorized sliding doors are in the section.

Resistance (heating cable)

: 220 Volt It can be connected directly It can work within the range of- 70 ° C to + 200 ° C Maximum degree.

The viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals 100% leak-proof. (Optional).

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper . bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.



DOUBLE WINGS SLIDING DOORS TECHNICAL SPECIFICATIONS OF ALUMINUM CASE & ALUMINIUM FRAME DOUBLE WINGS SLIDING DOORS

Double Wings Sliding Doors

Door Lock

: 100% leak-proof & frost - free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards . Dark rooms In order to detect the door lock & facilitate the output , it's marked with phosphorus (bright) (optional)

Optional door accessories

: Over 30 pieces. colors are Available
304 quality chrome stainless sheet blade
Door Lock
Viewing window
Bumper plate
PIR Polyurethane
Automatic door closers

ADVANTAGES OF SINGLE WING SLIDING DOORS :

Provides maximum thermal insulation .

It can be opened wider (forklift , truck , truck , container, pallet) provides great convenience in the transition. It provides to prevent heat losses by opening it to the desired extent in periods when big product loading is not done.

- Has an aesthetic & ergonomic look .
- Saves time & space .
- Single wing application saves cost thanks to its functional suitability in required areas.
- One-wing sliding doors provide maximum advantage to the high insulation system , which allows you to use your unit components easily for many years with minimum payment convenience.



COLD ROOMS



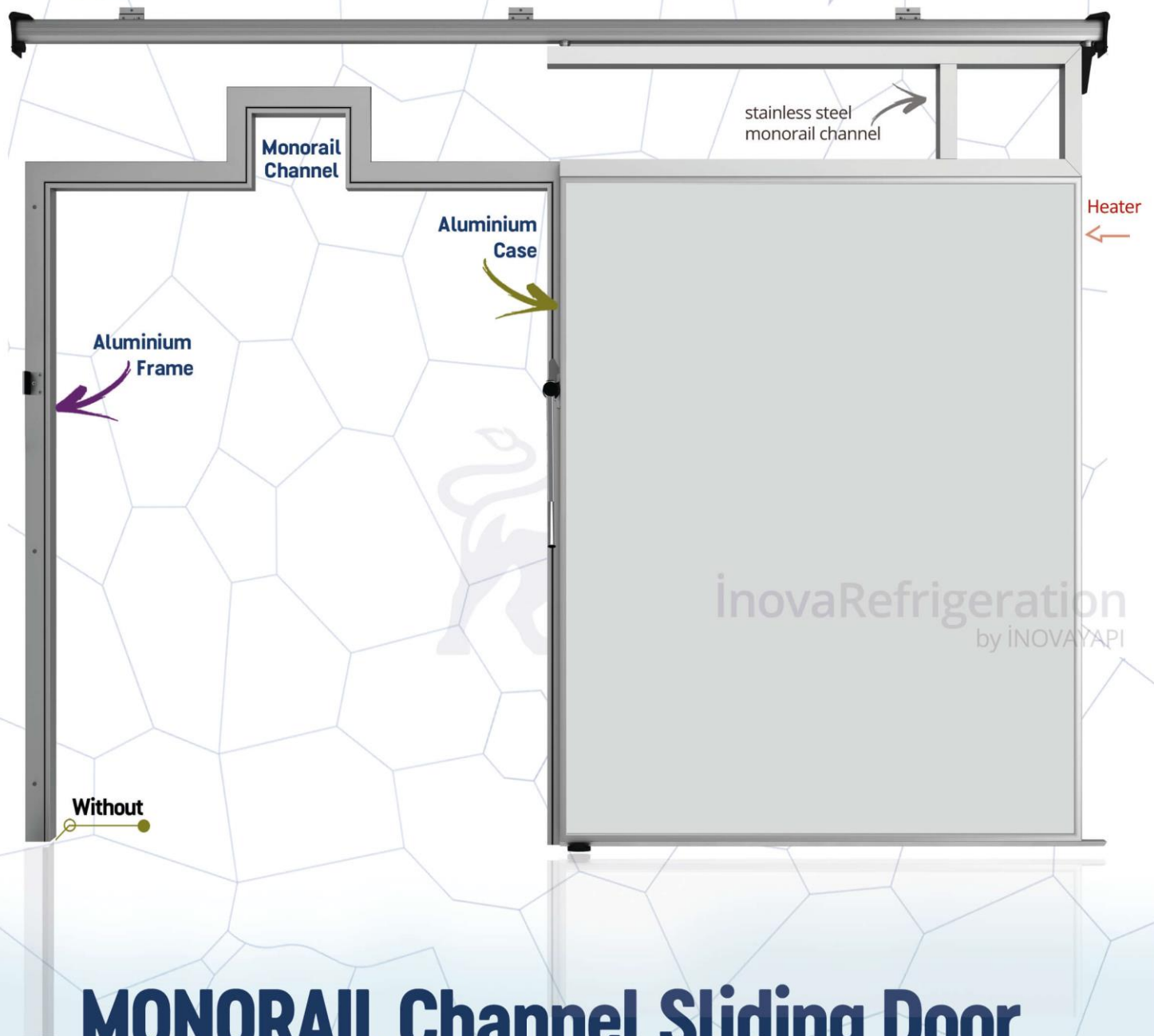
FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME



MONORAIL Channel Sliding Door

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Sliding type doors are produced from heat bridged profiles. maximizes system thermal insulation

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	100 cm Width	* 100 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	300 cm Width	* 500 cm High	* 80 mm thickness (wing / blade size)
Maximum	:	500 cm Width	* 300 cm High	* 80 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Open-top containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Monorail Channel Sliding door
Door Blade (wing)Thickness	: 80 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel.
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m ³ - EN 1602 Standards
Thermal Conductivity Coefficient	: λ = 0,022 W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & PVC Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C As used in food and living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards . the gasketed U polyamide support are used by us for the first time in the World , it's ensured that the gaskets are 100 % fully pressed against the door sill.
Door Blade (wing) Case	: DIN 50049-2.2. / EN 10204-3.1.B. Anodized aluminum profile in Polyamide heat bridge according to the unit where the door is used or without bridges Frames first in the world It's implemented by us . this system, even if there is a power failure in the doors where the heater is installed 100% it will be prevented door freezing.
Door Outer Handle	: There are 2 types of wings (blade) located on the outside of the door which provides a comfortable opening of the doors . According to the dimensions of the door & according to the customer requirements are applied either individually . The large opening lever is made of aluminum & stainless materials. 2. The holding drawbar PA 6.6 (Polyamide 6.6) is produced at 30 % GF standards.
Door Inner Handle	: In dark rooms , In order to make the door opening handle easier & to facilitate the exit, the phosphor (shiny) marked PVC body has the inner handle with aluminum handle . Two arm application is made according to the door size.
Door Top Rail (slider) System	: Aluminum top rail for easy opening & closing of doors System is available . Worldwide except Germany & Italy are also working with several companies that are manufacturing in Turkey doors reverse single rail system . While the reverse rail system provides ease of installation , the main purpose is 100% acceptance in terms of work safety rules worldwide . Thanks to this system, the doors do not fall on people in any impact or misuse . Sliding door production system DIN 50049-2.2./EN 10204-3.1.B standards of anodized aluminum profiles are composed of.Gaskets have a special system that can be pressed sideways & above . And it has an aesthetic appearance as it hides the mechanism running on the door . Doors run quietly inside the room No sagging, No breaking.



Door Top Rail Stops : There are L door stops at the top & End of the door to prevent the door from coming off the top rail. It's produced from aluminum profile materials according to DIN 50049-2.2./EN 10204-3.1.B. They are equipped with sound & speed cut-out rubber stop.

Door Top Rail Wheels : ZnAl27Cu2 in accordance with EN 12844 standards Zamak 27 materials are used in heavy industry around the World . Top wheel carriers with double - ball steel ball bearings When we use a plastic material system , we use steel roller bearing , zamak 27 rib rotors & reverse system upper rail wheels consisting of aluminum anodized parts in DIN 50049-2.2./EN 10204-3.1.B standards . You can adjust the irregularities in the units & the floor by means of this system . You can provide the full insulation of your door by completing all the process . To the excellent acoustics , the doors are quiet and easy to open & close.

Door Top Rail Carrier Hanger Profiles : Profiles which are shaped between the door & upper rail are used to provide easy operation of the door without connecting monorail doors to the monorail channel . Stainless 304 quality box (square or rectangular) profiles in model X5CrNi18-10- EN 1.4301 paslanmaz standards . 2. Painted or unpainted galvanized boxes (square or rectangular) profiles .

Door Bottom Rail : DIN 50049-2.2. / EN 10204-3.1.B standards include anodized aluminum coated V sub-rail system . it provides closing of the door with the top + bottom rail system by providing 100% sealing from the bottom . The door lower rail system operates in parallel with the overflow system & the doors are lifted up when the doors are opened + presses down when closing. To this system, insulation is kept at maximum level.

Door Bottom Rail Slider : PVC Appearance PA 6.6 (Polyamide 6.6) is an aesthetic rail slide channel with 30% GF standards . It's mounted 5 cm outwards in the opening direction of the door. It's internal channel , it enables the door bottom rail to open & close easily.

Door Front interlock : Door pre - interlock is produced in male logic with PA 6.6 (Polyamide 6.6) 30% GF standards . It's aesthetic door closers with PVC look . 2- part clamping mechanism 1 piece on the door + 1 part is mounted on the door jamb or closing direction on the unit. Both parts are interlocked in the door closure & 100 % insulation is supported by allowing the door seals to fully press into the moldings.

Door Front frame : Anodized 100 % to DIN 50049-2.2. / EN 10204-3.1.B Standards german designed against frost , maximum heat insulation polyamide barrier aluminum moldings.

Door Rear Frame : 2 types of rear frame can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC . Since the rear frames do not carry loads , they are applied only for image aesthetics.

Door Opening System : Monorail Sliding doors are mainly operated as manual option . Detailed information on sliding doors as well as motorized sliding doors are in the section.

Resistance (heating cable) : 220 Volt It can be connected directly It can work within the range of- 70 ° C to + 200 ° C Maximum degree.

The viewing Window : Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals 100% leak-proof. (Optional).



Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper . bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

Door Lock

: 100% leak-proof & frost - free door lock that can be locked from the outside . PA 6.6 (Poliamid 6.6) % 30 GF we manufacturing in standards . Dark rooms In order to detect the door lock & facilitate the output , it's marked with phosphorus (bright) (optional)

Optional door accessories

: Over 30 pieces. colors are Available
304 quality chrome stainless sheet blade
Door Lock
Viewing window
Bumper plate
PIR Polyurethane
Automatic door closers

MONORAIL SYSTEM :

With the heavy transport system such as meat , chicken , etc , hanger systems called monorail are used especially in the areas where product transitions are used with air suspension system & product transitions from outdoor units to indoor units . In monorail systems , In MonoRail systems , it's desired to be close to the maximum level of insulation & easy transport of heavy product transitions is the main purpose . In order to operate the monorail system to be applied in the unit , the multiplication doors produced by finding a monorail channel suitable for our unit are called monorail type multiplication doors . Since monorail doors are different in every project in the World , each product can be produced according to the Project . Monorail doors are manufactured using hygienic materials in accordance with European standards . They do not undergo any deformation in all kinds of chemical disinfectant cleaning.

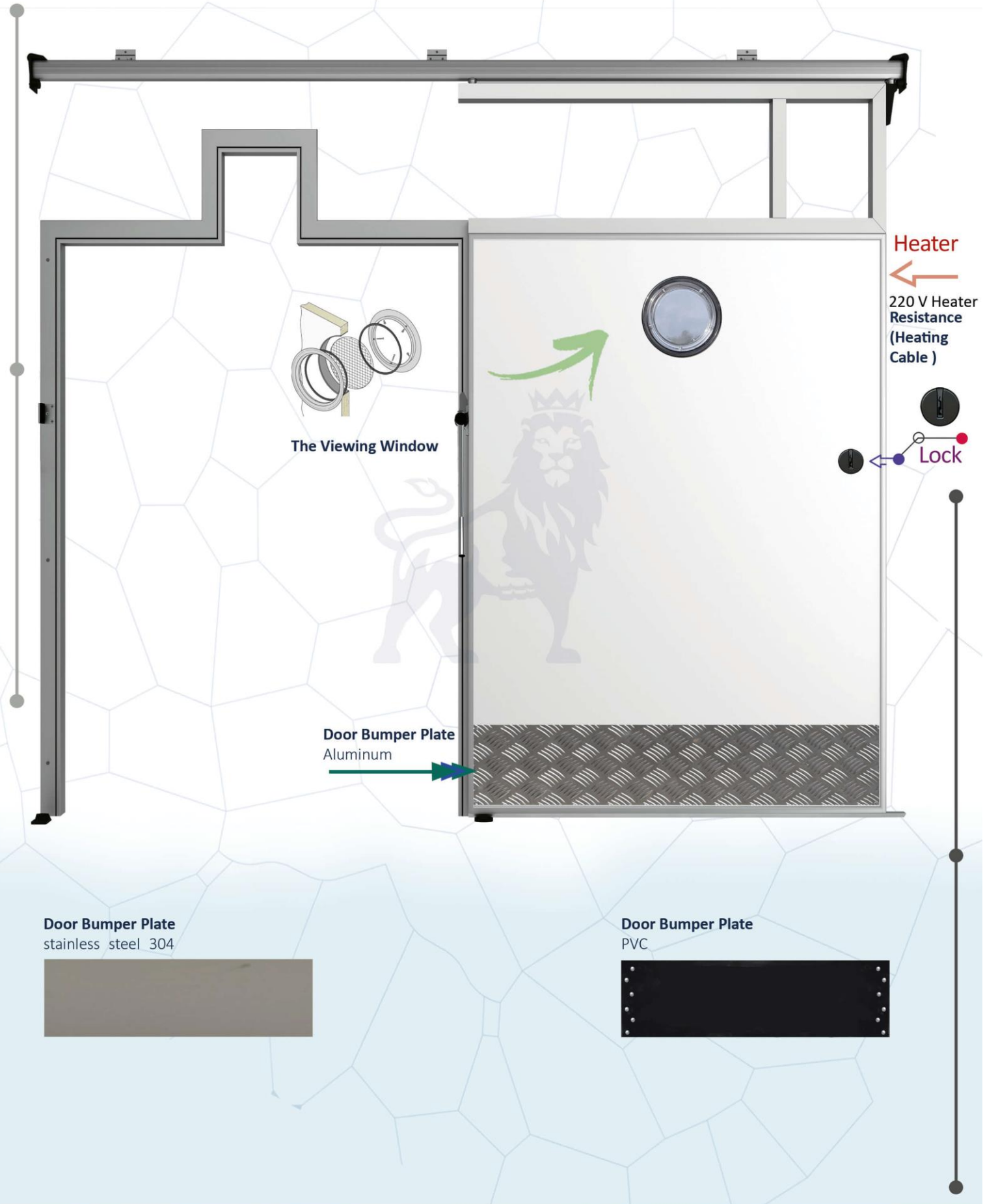
ADVANTAGES OF SINGLE WING MONORAIL SLIDING DOORS.

- Provides moderate thermal insulation.
- It can be opened wider (forklift , truck , truck, container , pallet) provides great convenience in the transition.
- It ensures that heat losses are prevented by opening it to the desired extent in periods when big product loading is not done.
- Has an aesthetic & ergonomic look .
- Saves time and space.
- Single wing application saves cost thanks to it's functional suitability in required areas .
- Thanks to the monorail channel , hanging system provides maximum convenience for product transporations.
- The only disadvantage in monorail doors is that the monorail channel cannot be closed 100 % , resulting in minimum heat losses.



MONORAIL SLIDING DOORS
TECHNICAL SPECIFICATIONS OF ALUMINUM CASE &
ALUMINIUM FRAME – MONORAIL CHANNEL (SLIDING) DOORS

Monorail Sliding Doors



COLD ROOMS



FOOD INDUSTRY



**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP ONE LEAF DOOR

PVC HANDLE



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP DOOR

ALUMINIUM FRAME

PVC HANDLE

Aluminum Case

Aluminum Frame

PVC Handle

Without Step



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	: 50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	: 120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	: 250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: One wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Floride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.In Anodized aluminum
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards.Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 °C while 90 °C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door siz in both wings, at least 2 pieces separately.It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.

Door opening system

: The Flip Flap doors are only opened closed manually.

Resistance (heating cable)

cable)is optional.

: The Flip Flap doors on standard system resistance (Heating

The viewing Window

the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100 % leak-proof (Optional).

: Surveillance windows are the window system for viewing

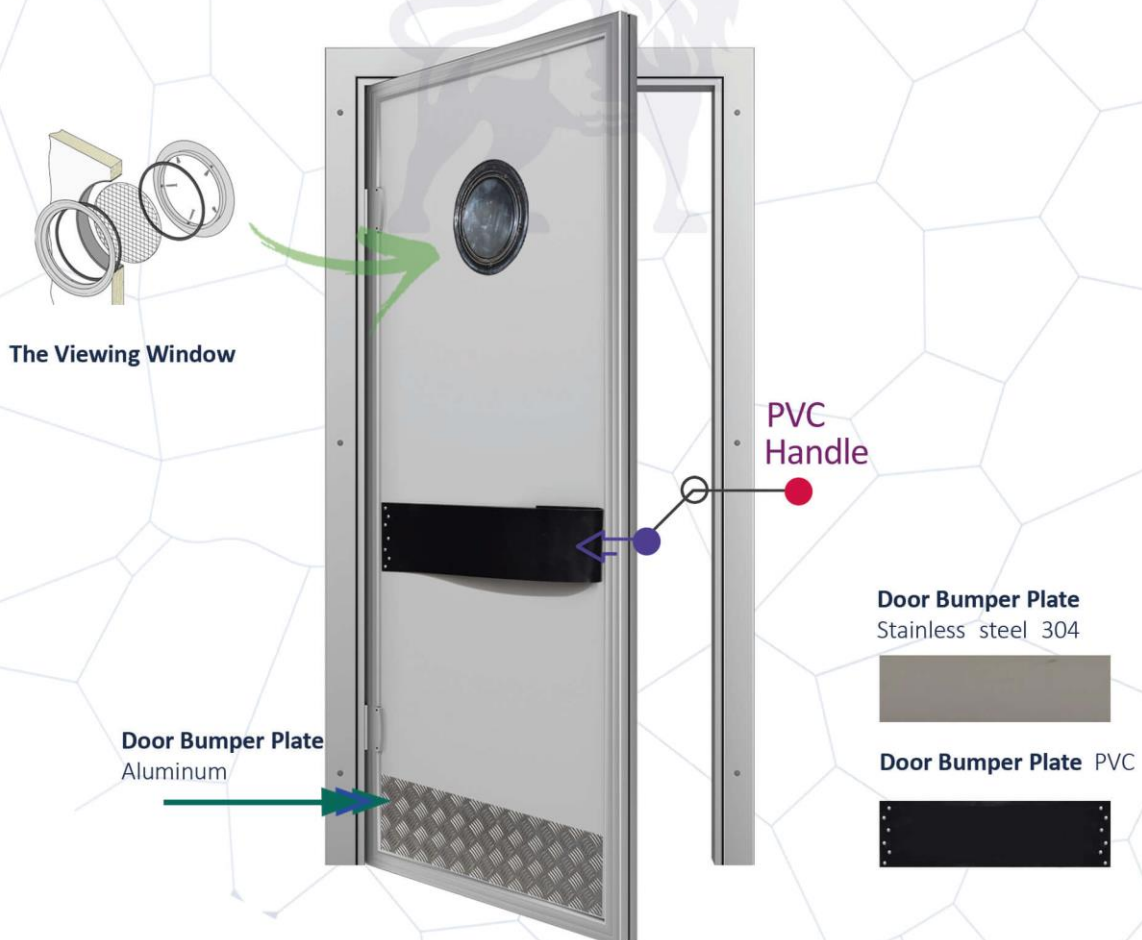
Door bumper plate

or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

: Aluminum or Pvc Thick absorber materials applied on the inside

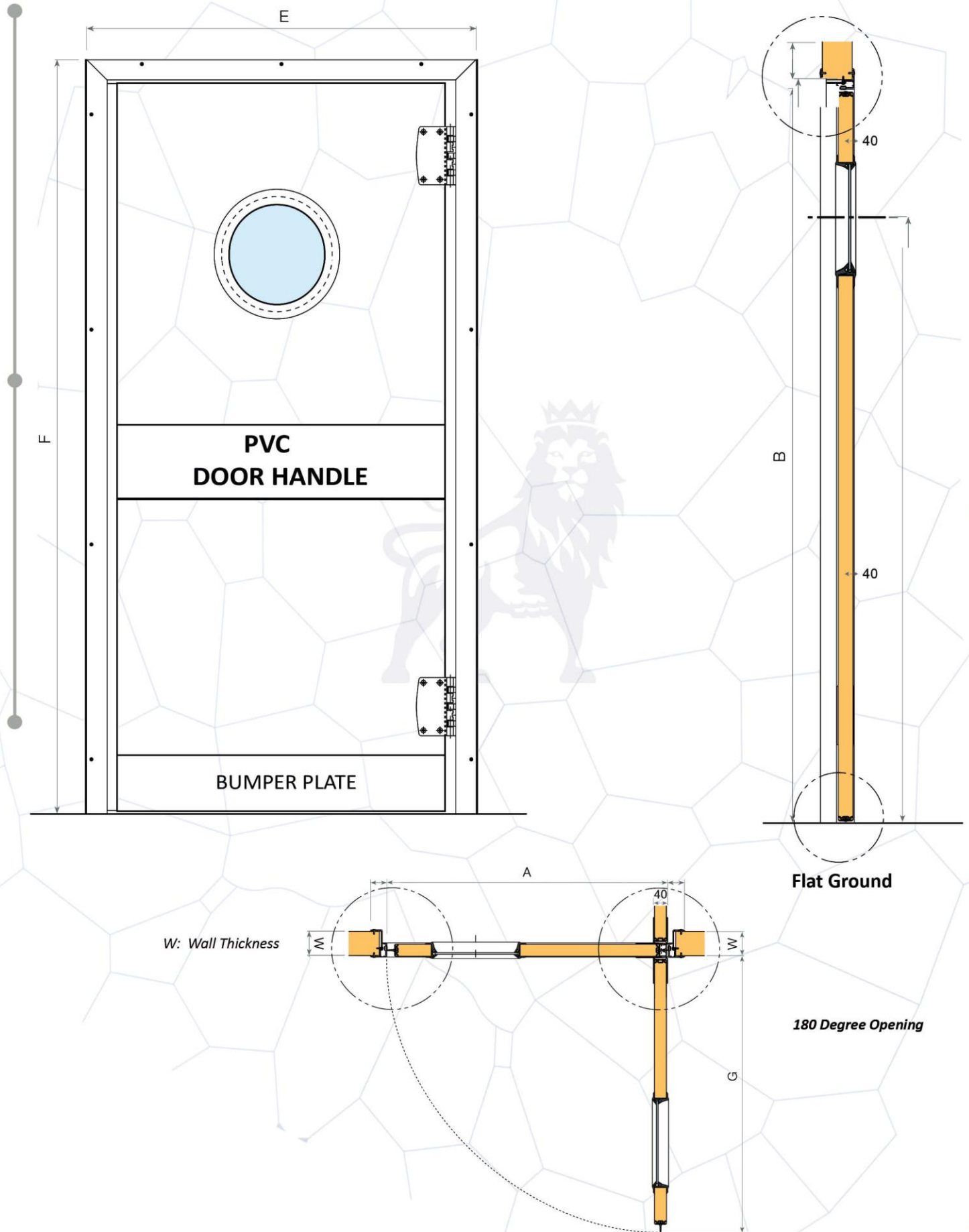
Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless sheet blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



ONE WINGS FLIP FLAP DOOR
TECHNICAL SPECIFICATIONS OF ALUMINUM CASE +
ALUMINUM FRAME / PVC HANDLE

Flip Flap (Swing) Doors



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP DOOR

PVC HANDLE



Aluminium
Frame

Aluminium
Case

inovaRefrigeration
by INOVA API



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

INOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Double wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Floride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case in Anodized aluminum profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards. Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door siz in both wings, at least 2 pieces separately. It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



DOUBLE WINGS FLIPFLAP DOOR TECHNICAL SPECIFICATIONS OF ALUMINUM CASE + ALUMINUM FRAME / PVC HANDLE

Flip Flap (Swing) Doors

Door opening system

: The Flip Flap doors are only opened closed manually.

Resistance (heating cable)

is optional.

: The Flip Flap doors on standard system resistance (Heating cable)

The viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100 % leak- proof (Optional).

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless sheet blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



Door Bumper Plate
Aluminum

PVC
Handle

Door Bumper Plate
Stainless steel 304

Door Bumper Plate PVC



COLD ROOMS



FOOD INDUSTRY

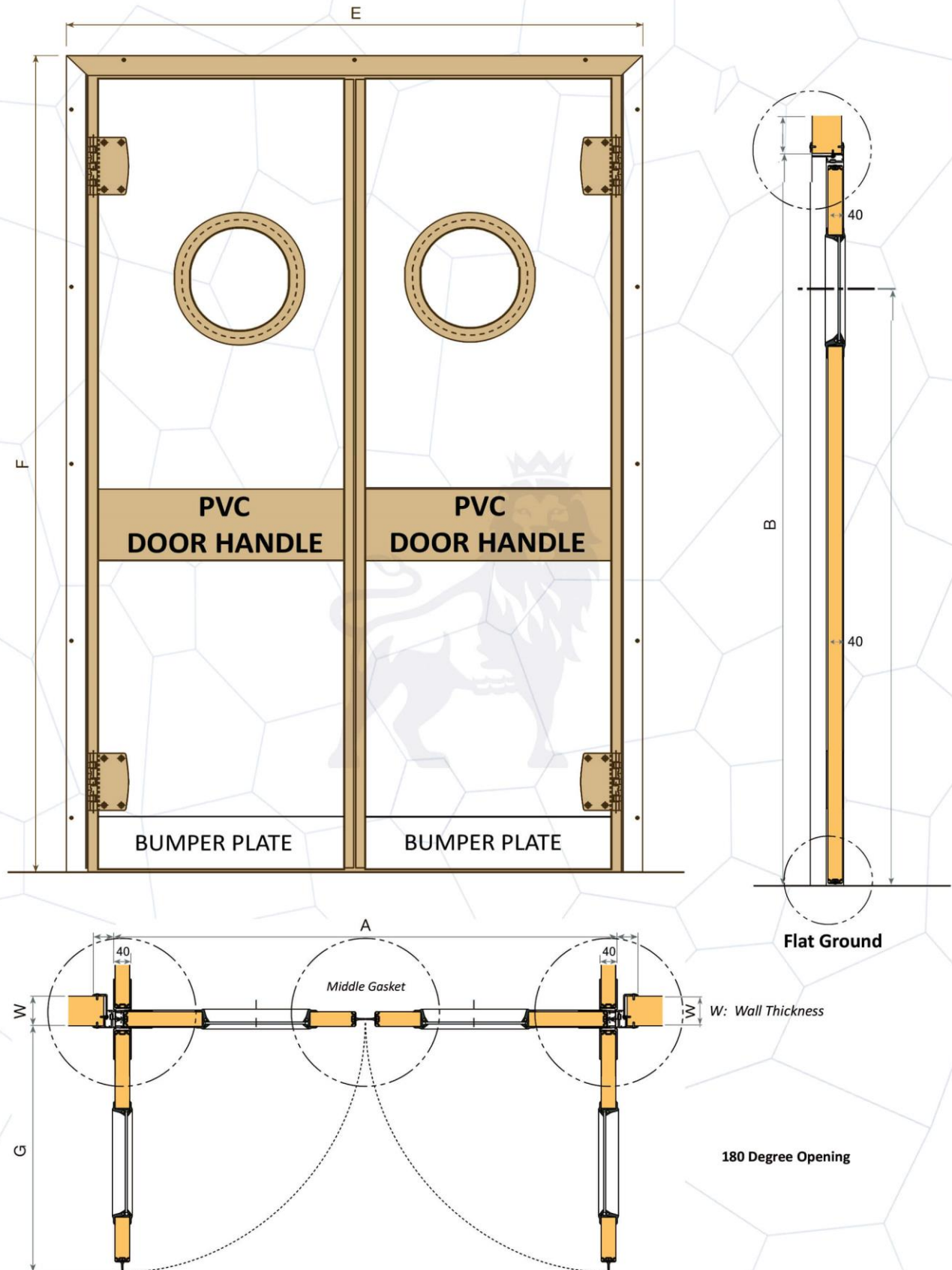


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

DOUBLE WINGS FLIPFLAP DOOR
TECHNICAL SPECIFICATIONS OF ALUMINUM CASE +
ALUMINUM FRAME / PVC HANDLE

Flip Flap (Swing) Doors



COLD ROOMS



FOOD INDUSTRY



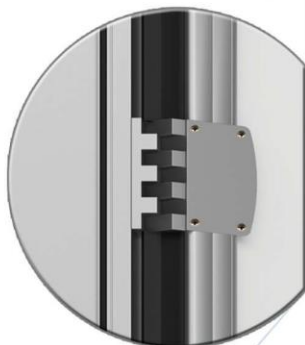
**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP ONE LEAF DOOR

ALUMINIUM FRAME

90 Degree
Opening



Aluminium
Case

Aluminium
Frame



Flat Ground



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM HANDLE

**Aluminum
Frame**

**Aluminum
Case**

**Aluminum
Handle**

Without Step

FLIP FLAP DOOR
ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: One wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Floride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.In Anodized aluminum
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards.Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 °C while 90 °C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door siz in both wings, at least 2 pieces separately.It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



Door opening system

: The Flip Flap doors are only opened closed manually.

Resistance (heating cable)

cable)is optional.

: The Flip Flap doors on standard system resistance (Heating

The viewing Window

the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100 % leak-proof (Optional).

: Surveillance windows are the window system for viewing

Door bumper plate

or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

: Aluminum or Pvc Thick absorber materials applied on the inside

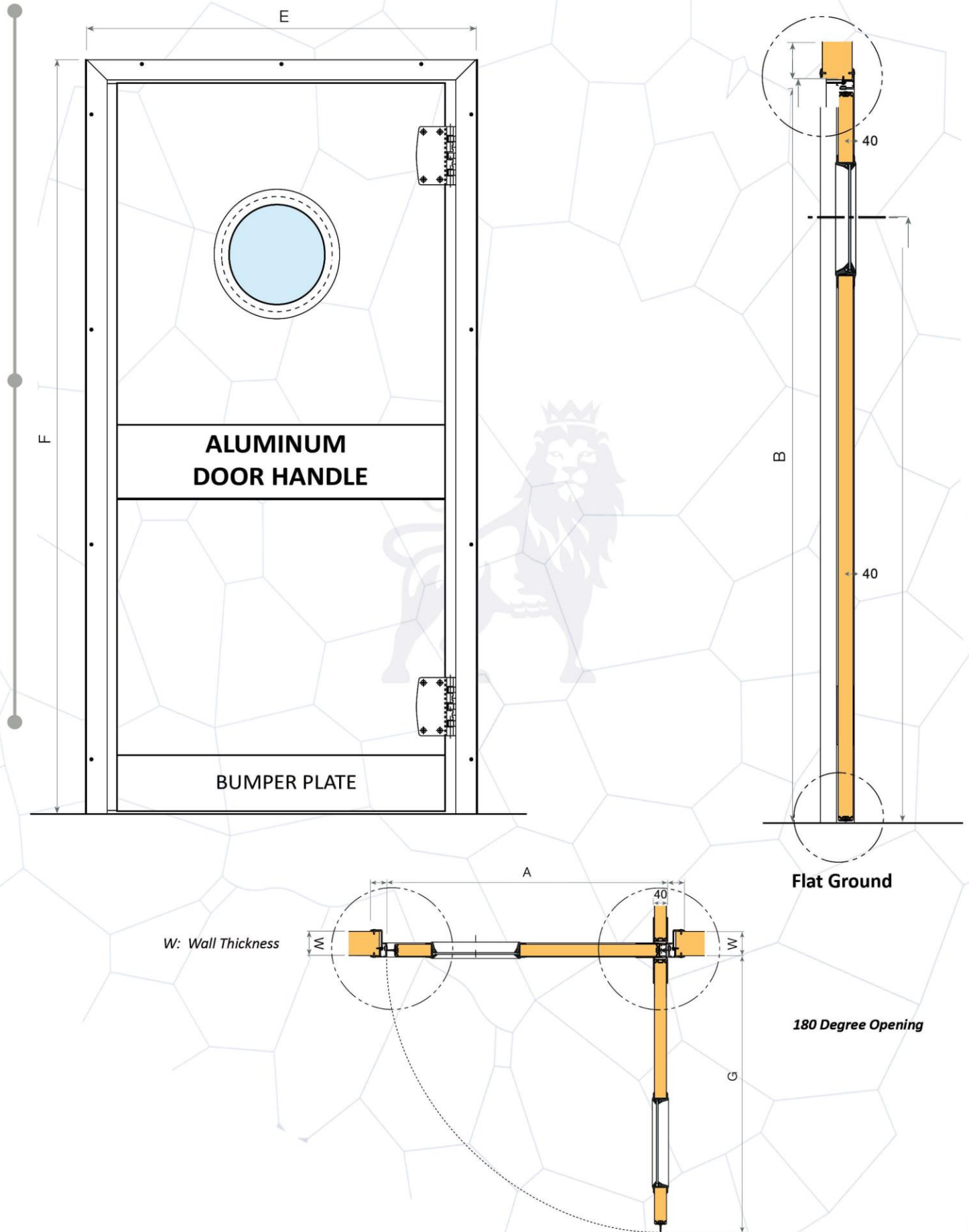
Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless sheet blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



ONE WINGS FLIP FLAP DOOR
TECHNICAL SPECIFICATIONS OF ALUMINUM CASE +
ALUMINUM FRAME / ALUMINUM HANDLE

Flip Flap (Swing) Doors



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

FLIP FLAP DOOR

Aluminum
Frame

Aluminum
Case

Aluminum
Handle

Without Step

ALUMINUM HANDLE



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Double wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case in Anodized aluminum profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards. Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door size in both wings, at least 2 pieces separately. It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



DOUBLE WINGS FLIPFLAP DOOR TECHNICAL SPECIFICATIONS OF ALUMINUM CASE + ALUMINUM FRAME / ALUMINUM HANDLE

Flip Flap (Swing) Doors

Door opening system

: The Flip Flap doors are only opened closed manually.

**Resistance (heating cable)
cable)is optional.**

: The Flip Flap doors on s tandard system resistance (Heating

The viewing Window
inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100% leak-proof
(Optional).

: Surveillance windows are the window system for viewing the

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless steel blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)

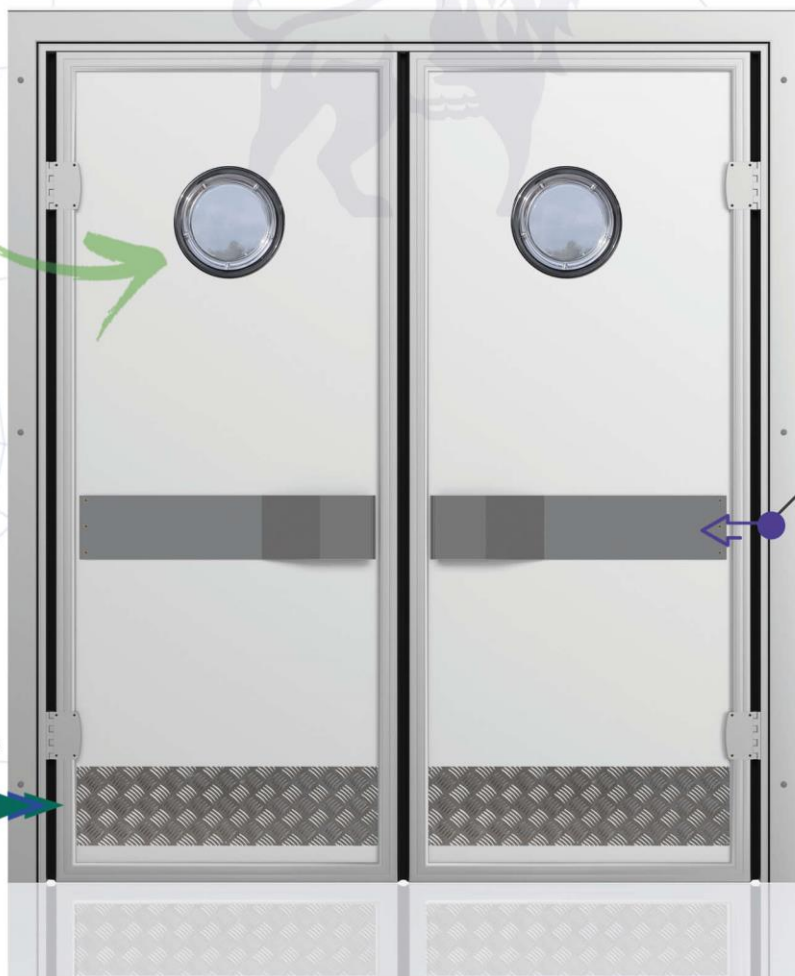


Door Bumper Plate
Aluminum

**Aluminum
Handle**

Door Bumper Plate
Stainless steel 304

Door Bumper Plate PVC



COLD ROOMS



FOOD INDUSTRY

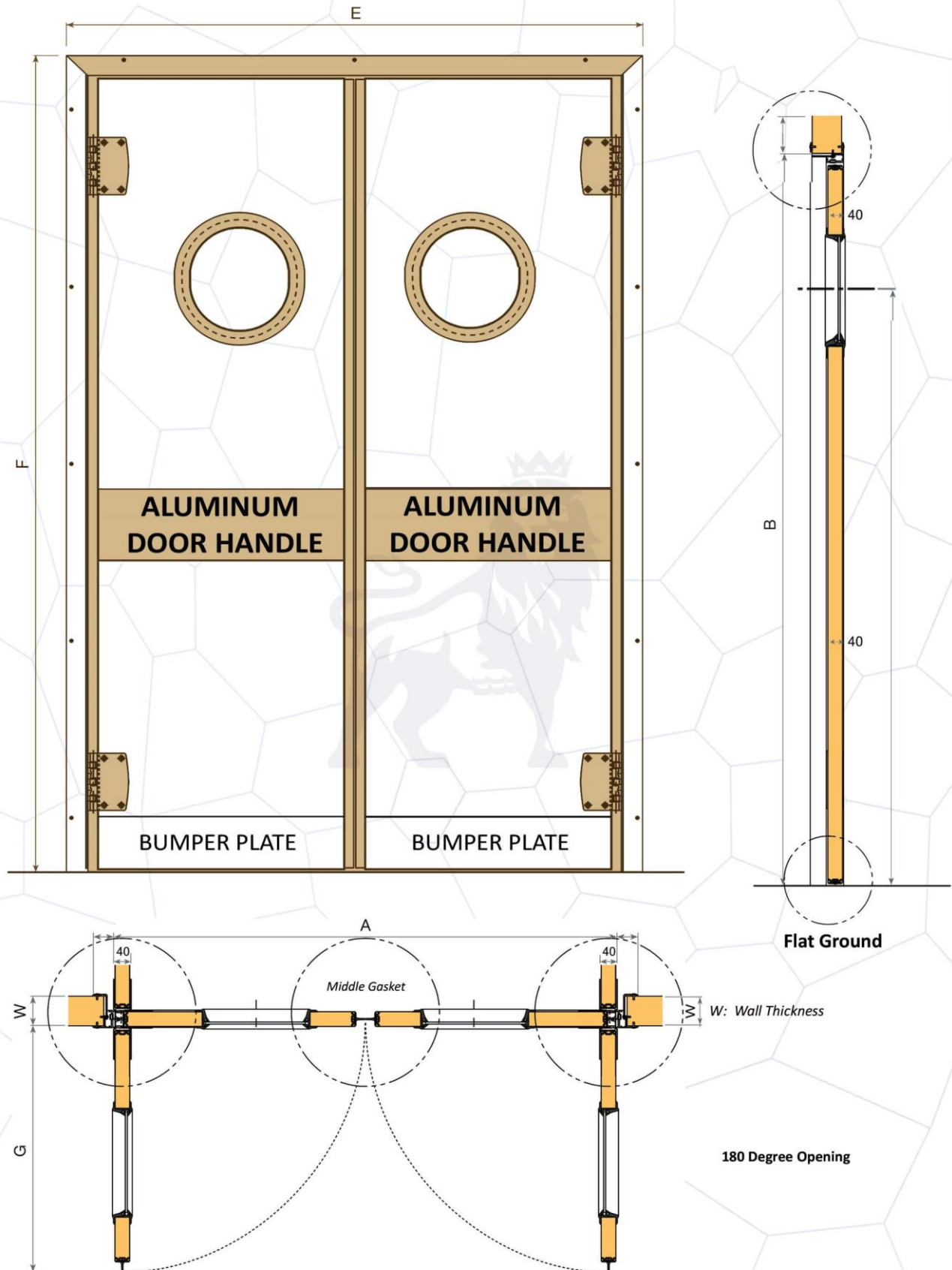


PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

DOUBLE WINGS FLIPFLAP DOOR
TECHNICAL SPECIFICATIONS OF ALUMINUM CASE +
ALUMINUM FRAME / ALUMINUM HANDLE

Flip Flap (Swing) Doors



COLD ROOMS



FOOD INDUSTRY

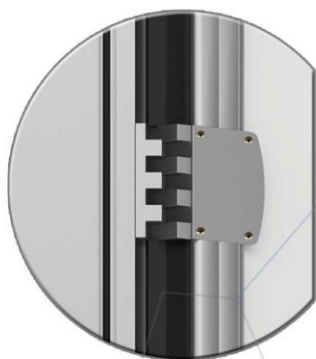


**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

MONORAIL FLIP FLAP DOOR

ALUMINIUM FRAME



90 Degree
Opening



Flat Ground



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com



MONORAIL FLIP FLAP DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Monorail One wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.In Anodized aluminum
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards.Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door size in both wings, at least 2 pieces separately.It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



Door opening system

: The Flip Flap doors are only opened closed manually.

Resistance (heating cable)
cable)is optional.

: The Flip Flap doors on standard system resistance (Heating

The viewing Window

the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100 % leak-proof (Optional).

: Surveillance windows are the window system for viewing

Door bumper plate

or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

: Aluminum or Pvc Thick absorber materials applied on the inside

Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless sheet blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



MONORAIL DOUBLE WINGS FLIP FLAP DOOR

PVC HANDLE



inovaRefrigeration
by INOVA API



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

PVC HANDLE

Aluminum Case

PVC Handle

Aluminum Frame

Without Step

inovaRefrigeration
by INOVAYAPI

MONORAIL DOUBLE WINGS FLIP FLAP DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

INOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Double wings Monorail Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m ³ - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case in Anodized aluminum profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards. Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door size in both wings, at least 2 pieces separately. It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



Door opening system

: The Flip Flap doors are only opened closed manually.

**Resistance (heating cable)
cable) is optional.**

: The Flip Flap doors on standard system resistance (Heating

The viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100% leak - proof (Optional).

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless steel blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



Door Bumper Plate
Aluminum

**Aluminum
Handle**

Door Bumper Plate
Stainless steel 304

Door Bumper Plate PVC



COLD ROOMS



FOOD INDUSTRY

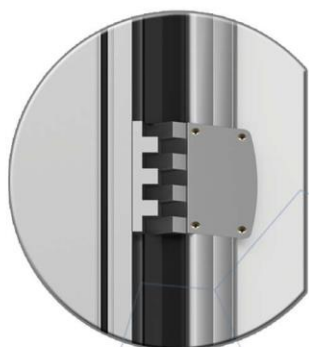


**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

MONORAIL ONE WINGS FLIP FLAP DOOR

ALUMINIUM FRAME



90 Degree
Opening



Flat Ground



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM HANDLE

Monorail
Channel

Aluminum
Frame

Aluminum
Case

Aluminum
Handle

Without Step

inovaRefrigeration
by INOVAYAPI

MONORAIL ONE WINGS FLIP FLAP DOOR

ALUMINIUM FRAME



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities ,Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Monorail One wings Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m3 - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Floride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.In Anodized aluminum
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards.Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door siz in both wings, at least 2 pieces separately.It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.





inovaRefrigeration
by INOVAPI

MONORAIL FLIP FLAP DOOR

ALUMINIUM HANDLE



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

ALUMINUM FRAME

Aluminum Case

Aluminum Handle

Aluminum Frame

Without Step

inovaRefrigeration
by INOVA API

MONORAIL FLIP FLAP DOOR

ALUMINIUM HANDLE



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

INOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Flip Flap doors are produced embedded inside the moldings
- Opens in both directions

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, sliding door models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High * 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 120 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transportation standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS :

Room temperature range door to use	: NEGATIVE- 50C / POSITIVE 80 ° C
Door type	: Double wings Monorail Flip Flap door
Door Blade (wing) Thickness	: 40 mm
Door Blade (wing) sheet feature	: Door sheet are coatings with scratch protection surface with PVC films 100-200 μ micron / 0,50 mm x 0,70 mm (minimum) hot dipped galvanized coil coating painted steel 10142
Door Blade (wing) sheet quality	: dx51d + z- EN 10327- Standards
Door Blade (wing) insulation features	: Polyol + Izocyanate = Polyurethane
Insulation density	: 40- 45 kg / m ³ - EN 1602 Standards
Thermal Conductivity Coefficient	: $\lambda = 0,022$ W/mK - EN 13162
Fire Classification	: PUR- B-s1, d0 EN 13501-1/PIR B-s1, d0 EN 13501-1 (optionally)
Door Blade (wing) color suggested	: Standard models Ral 9002- Different colors optional PVDF (Polyvinylidene Fluoride) Painted Galvanized sheet
Door Insulation Gaskets	: Double Density Component with Epdm & Pvc Combination Suitable for use in the thermal temperature range between 65 ° C & + 150 ° C . As used in food & living areas , it's in compliance with 21.CFR 177.2600 specifications & quality standards Can be produced without Step (threshold) or with Step (threshold) type
Door wing (blade) Case in Anodized aluminum profile	: DIN 50049-2.2./EN 10204-3.1.B Standards.
Door Handle	: Standard 2 type door handle application is done in the bar doors.1. Polyethylene release arm manufactured in accordance with the TS EN ISO 14632 Quality system in compliance with HACCP standards & food safety management system according to DIN EN ISO 22000: 2005 production standards 2. Anodized aluminum release lever is applied to DIN 50049-2.2./EN 10204-3.1.B. Due to the fact that the doors are opened & closed by the impact & impact method throughout the world, mostly polyethylene arms are preferred due to their flexible structure.
Door hinges	: Flip Flap door hinges are produced in PA 6.6 (Polyamide 6.6) 30% GF standards. Polyamide visible hinges have stainless steel springs . Flip Flap door hinges provide opening & closing of doors in both directions of 90 ° C while 90 ° C is to be fixed on which side you want . Such doors are preferred in intermediate compartments where it is preferable to open the door by touching the desired location without frequent contact with passages. Hinges can be used according to the area & door size in both wings, at least 2 pieces separately. It works silently. Does not sag, no breaking.
Door Front Frame	: 100 % German design against DIN 50049-2.2. / EN 10204-3.1.B maximum heat insulation polyamide barrier aluminum Frame.
Door Rear frame	: 2 types of rear moldings can be applied according to the wall thickness of the door to be mounted . It has 2 models in aluminum & PVC. Since the rear frames do not carry loads , they are applied only for image aesthetics.



Door opening system

: The Flip Flap doors are only opened closed manually.

Resistance (heating cable)
cable)is optional.

: The Flip Flap doors on s tandard system resistance (Heating

The viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & epdm flexible seals 100% leak - proof (Optional).

Door bumper plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper bumpers are available as optional in cold room doors . In addition to aluminum material or PVC plate absorbers, stainless steel 304 quality thick sheet application can be made.

Optional door accessories

: Over 30 pieces. colors are Available
304 quality stainless sheet blade
Viewing window
Over 2 pieces of hinge
Bumper plate
PIR Polyurethane
Resistance (heating cable)



Door Bumper Plate
Aluminum

**Aluminum
Handle**

Door Bumper Plate
Stainless steel 304

Door Bumper Plate PVC



COLD ROOMS



FOOD INDUSTRY



**PHARMACEUTICAL AND
HEALTHCARE SECTOR**

iNOVA Refrigeration
www.inovarefrigeration.com

ONE WINGS SERVICE DOOR

ALUMINIUM FRAME

Aluminium
Case

Aluminium
Frame

inovaRefrigeration
by INOVAYAP



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Service doors are produced embedded inside the moldings
- Suitable for office and living areas

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, double leaf hinged doors models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	50 cm Width * 50 cm High	* 40 mm thickness (wing / blade size)
Maximum	:	120 cm Width * 250 cm High	* 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transport standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport
Maximum dimensions for Double wing models



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : One leaf Service door

Door Wing Thickness : 40 mm

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m3 - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022 \text{ W/mK}$ - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : The door can be applied in different models according to the areas to be used, but as standard , round stainless arm is applied.

Door Hinges : TDIN 50049-2.2./EN 10204-3.1.B Anodized aluminum hinges are used as standard in the service doors . The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size . It works silently Does not sag , no breaking . Service Doors open in one direction only to our side.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame.

Door Rear Frame : According to the wall thickness of the area to be installed according to DIN 50049-2.2./EN 10204-3.1.B Standards anodized aluminum back mold application is made . Since the rear frames do not carry loads , they are only applied for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



The Viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories

: Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.



ALUMINIUM FRAME



Aluminium Case

inovaRefrigeration
by INOVAYAR



iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Painthouses, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolu vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Service doors are produced embedded inside the moldings
- Suitable for office and living areas

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, double leaf hinged doors models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum	:	100 cm Width * 100 cm High * 40 mm thickness (wing / blade size)
Maximum	:	250 cm Width * 300 cm High * 40 mm thickness (wing / blade size)
Maximum	:	300 cm Width * 250 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transport standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport
Maximum dimensions for Double wing models



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Double leaf Service door

Door Wing Thickness : 40 mm

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m³ - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022$ W/mK - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : The door can be applied in different models according to the areas to be used, but as standard , round stainless arm is applied.

Door Hinges : TDIN 50049-2.2./EN 10204-3.1.B Anodized aluminum hinges are used as standard in the service doors . The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size . It works silently Does not sag , no breaking . Service Doors open in one direction only to our side.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame.

Door Rear Frame : According to the wall thickness of the area to be installed according to DIN 50049-2.2./EN 10204-3.1.B Standards anodized aluminum back mold application is made . Since the rear frames do not carry loads , they are only applied for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



The Viewing Window

: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

Door Bumper Plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories

: Over 30 pieces. colors are Available, 304 quality chrome stainless sheet blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.



FOLDING SERVICE and FACTORY DOORS

ALUMINIUM FRAME

First in the world

Aluminium
Case

Aluminium
Frame

iNovaRefrigeration
by INOVAYAPI



COLD ROOMS



FOOD INDUSTRY



PHARMACEUTICAL AND
HEALTHCARE SECTOR

iNOVA Refrigeration
www.inovarefrigeration.com

Usage areas :

Cold storage , Cold rooms ; Product freezing rooms , Shock production chambers , Hotels , Medicine Storage rooms , Medical materials & Waste plants , Air conditioning rooms , Food facilities such as meat , Cheese, Milk Production facilities, Warehouses, Factories, Paintshops, Women's health & beauty centers , Garbage processing plants , Morgues , Frigolux vehicles , Telecommunication base station centers , Hygiene areas , Restaurants Food production facilities, Pastries , Hot rooms , Gsm booths , Integrated production facilities , Pc server rooms, Vegetable & fruit processing plants, Pickles Tomato Paste production facilities , Hospitals , Operating theaters , Fish production & processing plants , Clearing stations , Chemical laboratories .

Doors Special Solutions :

- Doors are easy & fast to mounted & easy to maintain
- The area to be used is produced according to your needs
- Includes special accessories developed according to every need
- It has a system to be installed according to each wall type
- It has the feature of keeping the thermal insulation at maximum level
- We use Package with strength packaging system
- Service doors are produced embedded inside the moldings
- Suitable for factory living areas

Environment and User Friendly :

- Clean design
- Does not contain bacteria
- Corrosion resistant
- High-pressure accessories
- Manufacturing with environmentally friendly products
- Maximum energy saving
- Durable materials
- High vapor proof sealing system
- Quiet and smooth operation

Dimensions of Standard Model Doors :

In general, double leaf hinged doors models are not standard in the world.

Minimum and Maximum Door Dimensions :

Minimum : 200 cm Width * 100 cm High * 40 mm thickness (wing / blade size)
Maximum : 800 cm Width * 650 cm High * 40 mm thickness (wing / blade size)

Maximum door dimensions can be made by considering the international transport standards.
Measures can be made in the desired size in the areas to be applied on-site.
Maximum dimensions can be increased for Opentop containers and truck transport



TECHNICAL SPECIFICATIONS OF DOORS

Room Temperature Range Door To Use : NEGATIVE – 50 °C / POSITIVE 80 °C

Door Type : Folding Service and Factory door

Door Wing Thickness : 40 mm

Door Wing Sheet Feature : Door sheet are coatings with scratch protection surface with PVC films 100- 200 µ micron / 0,50 mm x 0,70 mm (minimum) Hot dipped galvanized coil coating painted steel 10142

Door Wing Sheet Quality : dx51d + z - EN 10327 - Standards

Door Wing Insulation Features : Polyol + Izocsiyanate = Polyurethane

Insulation Density : 40- 45 kg / m3 - EN 1602 Standards

Thermal Conductivity Coefficient : $\lambda = 0,022 \text{ W/mK}$ - EN 13162

Fire Classification : PUR- B-s1, d0 EN 13501-1 / PIR - B-s1, d0 EN 13501-1 (Optionally)

Door Wing Color Suggested : Standard models Ral 9002 - PVDF (Polyvinylidene Floride) Painted Galvanized Sheet or if you want Different colors option your order should be over 30 pieces .

Door Insulation Gaskets : Double Density Component with Epdm & Pvc Combination. Suitable for use in the thermal temperature range between 65 °C & + 150 °C. As used in food & living areas, it's in compliance with 21.CFR 177.2600 specifications & quality standards. Corner gaskets used by us for the first time in the world do not require welded gaskets. Withstep (threshold) & without step (non threshold) are Provides 100 % sealing on all models.

Door Wing Case : DIN 50049 - 2.2. / EN 10204- 3.1.B Standards. In Anodized aluminum profile.

Door Lock (Handle) : The door can be applied in different models according to the areas to be used, but as standard , round stainless arm is applied.

Door Hinges : TDIN 50049-2.2./EN 10204-3.1.B Anodized aluminum hinges are used as standard in the service doors . The hinges can be used in different quantities according to the area to be used & at least 2 according to the door size . It works silently Does not sag , no breaking . Service Doors open in one direction only to our side.

Door Front Frame : 100 % German design against DIN 50049- 2.2. / EN 10204 - 3.1.B maximum heat insulation polyamide barrier Aluminum Frame.

Door Rear Frame : According to the wall thickness of the area to be installed according to DIN 50049-2.2./EN 10204-3.1.B Standards anodized aluminum back mold application is made . Since the rear frames do not carry loads , they are only applied for image aesthetics.

Door Opening System : The hinged doors are only opened & closed manually .



The Viewing Window

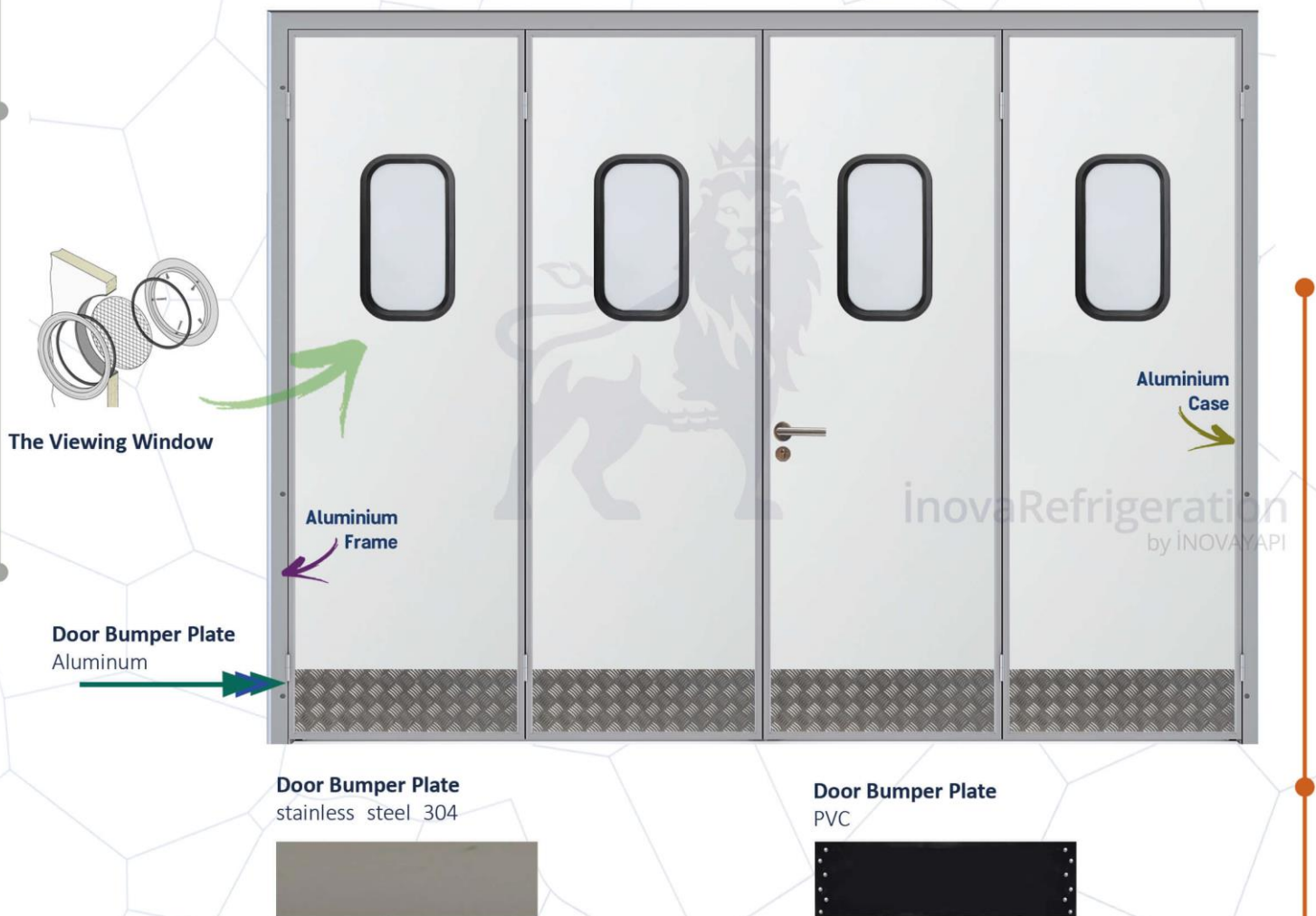
: Surveillance windows are the window system for viewing the inside & outside . Fiber glass is made of hard & transparent material & Epdm flexible seals. 100% leak-proof (optionally) .

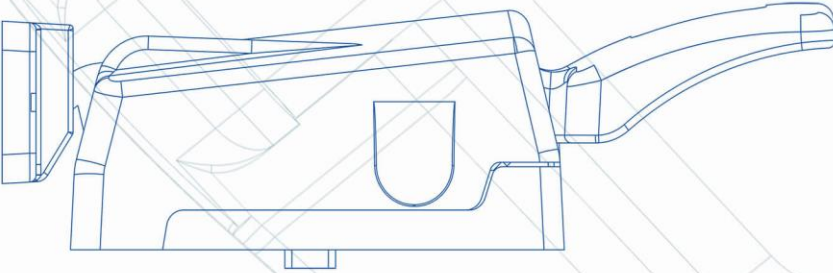
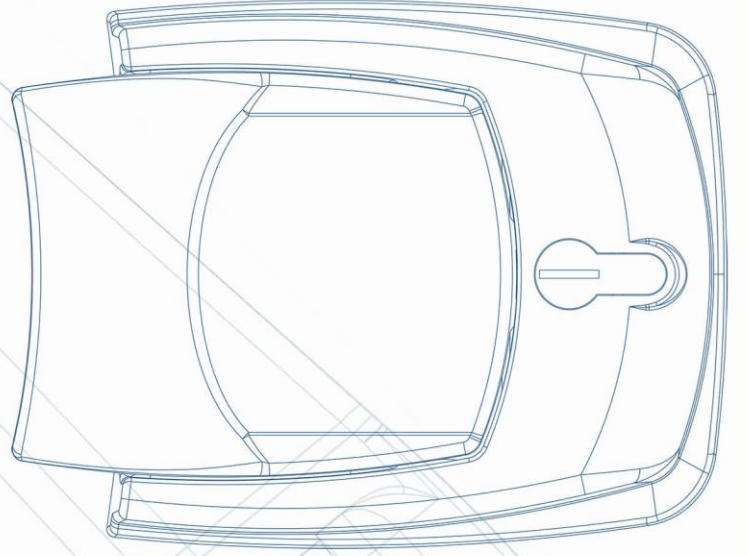
Door Bumper Plate

: Aluminum or Pvc Thick absorber materials applied on the inside or outside of the door on the lower parts of the door in frequently used & impacted areas are called bumper. Bumpers are available as optional in cold room doors. In addition to aluminum material or PVC plate absorbers ,stainless steel 304 quality thick sheet application can be made .

Optional door accessories

: Over 30 pieces. colors are Available, 304 quality chrome stainless steel blade, Viewing window,Over 2 pieces of hinge, Bumper plate , PIR Polyurethane, Automatic door closers.





iNOVA REFRIGERATION

Mehmet Akif Cad.No : 41 Kısıkköy -Menderes-izmir-Turkey



Phone : 00 90 232 257 56 70
Fax : 00 90 232 257 52 60
Mobile : 00 90 530 948 42 35



www.inovarefrigeration.com
info@inovasogutma.com