

**ISO-THERMAL**

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**INSULATED  
DOORS**

**2**

SLIDING DOORS

## 2.1a

# INDUSTRIAL SLIDING DOOR SINGLE LEAF

MAXIMUM INDUSTRIAL SLIDING DOOR ONE LEAF IS 2800X 3800 MM, DOORS ARE COMPOSED OF FOUR MAIN PARTS AS FOLLOWING:

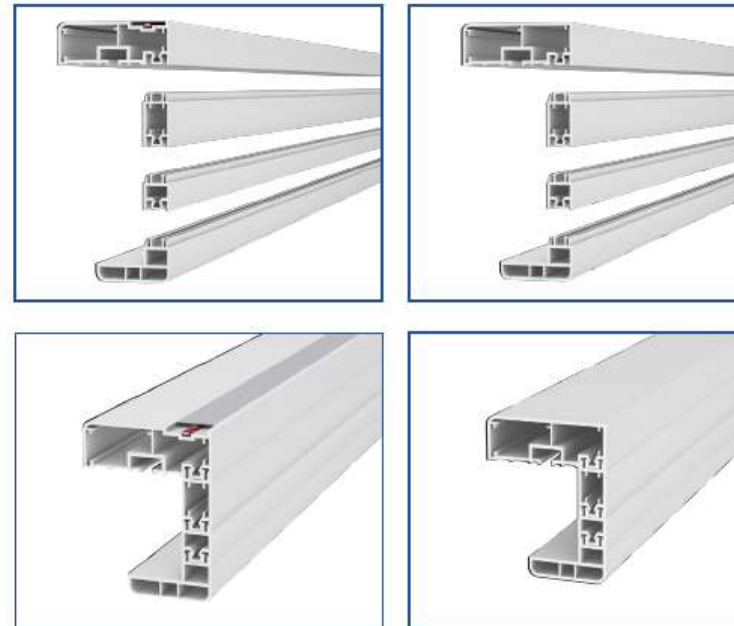
### 1 LEAF SPECIFICATIONS



- Leaf made up of two pre-painted hot dip-galvanized steel sheets thickness 0.50mm (Standard), thicker sheets available (on request), Standard sheets color RAL 9010.
- Leaf is surrounded by anodized aluminum profile.
- Leaf is Injected with Polyurethane rigid foam (PUR) materials in order to act the thermal insulation with density 40 Kg / m<sup>3</sup> (2 ± kg.)
- Along the edge of the anodized aluminum profile inserted a special EPDM rubber gasket double density in order to avoid leakage (temperature seal), In deep freezers up to -40° inserted two double density gaskets
- Special 3 lines EPDM rubber gaskets is fixed at the bottom of the door leaf (temperature seal).
- Leaf is reinforced internally with metal tube connecting four sides of anodized aluminum in perfect shape and condition.
- Along the anodized aluminum internally special metal plates inserted to allow fixing sliding system parts.

### 2 FRAME SPECIFICATIONS

- A. Frame is made up from extruded P.V.C profiles reinforced internally by steel and it is thermo-welded at (45°) delivered in 3 main parts:
- Outside part/ fixed size - 2 types - one for positive and the other for negative temperature.
  - Side part/ in two sizes 30 and 50mm to be connected to the outside part in order to allow fixing on panel.
  - Counter frame/L shape fixed inside of the cold rooms.
- B. Frame can be fixed either on panel with different thicknesses up to 200 mm or brick wall.
- C. Optional/ framed can be covered by welded stainless steel 304 along with door leaf made both sides from stainless steel.
- D. For negative temperature, a heating cable 40w/m powered at 220v is inserted inside the frame covered by aluminum profile.
- E. For deep freezers, up to -40co heating cable 40w/m powered at 220v is inserted in both leaf and frame.
- F. Inside meat processing plants where there is a rail passage for meat moving from storage to operation area a special opening for rail is done as following:
- The opening size will be 200 x 400 mm or as customer request.
  - The opening will be surrounded by the P.V.C counter frame.
  - Two rubber seals will be fixed on the opening to let pass the Guide way.



### 3 THRESHOLD TYPE

Three types of threshold are available depend on door application and temperature of the room.

S1	S2	S3
<p>frame is only 3 parts without threshold connected to it for positive and negative temperature, heating cable will be inserted inside frame or a special rubber gasket profile.</p>	<p>frame is only 3 parts and a 50mm pre-painted steel angle is connected to the frame at the bottom and recessed into the concrete floor, can be used for both positive and negative temperature.</p> <p>S3 frame is only 3 parts, A metal angle tube 40 x 40 mm (50 x 50 mm) joined with another stainless steel on aluminum tube (20 x 40 mm) both are connected to the frame at the bottom and recessed into the concrete floor.</p>	<p>frame is only 3 parts, A metal angle tube 40 x 40 mm (50 x 50 mm) joined with another stainless steel on aluminum tube (20 x 40 mm) both are connected to the frame at the bottom and recessed into the concrete floor.</p>
		

A heating cable 40 w/m powered at 220 V is inserted inside the upper stainless-steel tube which remains visible at the same floor level only for negative temperature.

### 4 SLIDING HARDWARE

ACCORDING TO THE APPLICATION AND TYPE OF THE DOOR WE USE HIGH QUALITY ITALIAN SLIDING HARDWARE, ALL MODELS ARE CE CERTIFIED AND TESTED UP TO 10000 TIMES.

OPTIONAL: LOCK WITH KEY AND SAFETY RELEASE.

### MANUAL



### AUTOMATIC (OPTIONAL)

CONTROL PANEL	THREE-PHASE GEAR MOTOR	MAGNETIC ENCODER	DEGREE OF PROTECTION
<p>Power 90/265 Vac 50-60 Hz.</p>	<p>Power 220/380V-50Hz 550 Watt</p>	<p>Resolution 2048 pulses/revolution - IP64.</p>	<p>IP55</p>



### LOCK (OPTIONAL)



## MANUAL MODELS

	SI-100TN	SI-100BT	SI-120BT	SI-150BT	SI-100TNG
Leaf Thickness	100 mm	100 mm	120 mm	150 mm	100 mm
Temperature	+2°C	-18°C	-30°C	-40°C	+2°C
Threshold	S1/S2	S3	S3	S3	S1/S2
Rail passage	-	-	-	-	yes



## AUTOMATIC MODELS

	SI-100TNA	SI-100BTA	SI-120BTA	SI-150BTA
Leaf Thickness	100 mm	100 mm	120 mm	150 mm
Temperature	+2°C	-18°C	-30°C	-40°C
Threshold	S1/S2	S3	S3	S3
Rail passage	-	-	-	-
Automatic movement	yes	yes	yes	yes



## 2.1<sub>b</sub>

# INDUSTRIAL SLIDING DOOR DOUBLE LEAF

MAXIMUM INDUSTRIAL SLIDING DOOR DOUBLE LEAVES IS 4400 X 3800 MM, DOORS ARE COMPOSED OF FOUR MAIN PARTS AS FOLLOWING:

### 1 LEAF SPECIFICATIONS



- Leaves made up of two pre-painted hot dip-galvanized steel sheets thickness 0.50mm (Standard), thicker sheets available (on request), Standard sheets color RAL 9010.
- Leaves are surrounded by anodized aluminum profile.
- Leaves Injected with Polyurethane rigid foam (PUR) materials in order to act the thermal insulation with density 40 Kg / m<sup>3</sup> (2 ± kg.)
- Along the edge of the anodized aluminum profile inserted a special EPDM rubber gasket double density in order to avoid leakage (temperature seal). In deep freezers up to -40 degrees inserted two double density gaskets.
- Special 3 lines EPDM rubber gaskets is fixed at the bottom of the door leaf (temperature seal).
- Leaves reinforced internally with metal tube connecting four sides of anodized aluminum in perfect shape and condition.
- Along the anodized aluminum internally special metal plates inserted to allow fixing sliding system parts.

### 2 FRAME SPECIFICATIONS

A. Frame is made up from extruded P.V.C profiles reinforced internally by steel and it is thermo-welded at (45°) delivered in 3 main parts:

- Outside part/ fixed size - 2 types - one for positive and the other for negative temperature.
- Side part/ in two sizes 30 and 50mm to be connected to the outside part in order to allow fixing on panel.
- Counter frame/L shape fixed inside of the cold rooms.

Frame can be fixed either on panel with different thicknesses up to 200 mm or brick wall.

B. Optional / frame can be covered by welded stainless steel 304 along with door leaf made both sides from stainless steel.

C. For negative temperature, a heating cable 40w/m powered at 220v is inserted inside the frame covered by aluminum profile.

D. For deep freezers, up to -40° heating cable 40w/m powered at 220v is inserted in both leaf and frame. Inside meat processing plants where there is a rail passage for meat moving from storage to operation area

E. special opening for rail is done as following:

- The opening size will be 200 x 400 mm or as customer request.
- The opening will be surrounded by the P.V.C counter frame.
- Two rubber seals will be fixed on the opening to let pass the Guide way.

### 3 THRESHOLD TYPE

Four types of threshold are available depend on door application and temperature of the room.

#### S1

frame is only 3 parts without threshold connected to it for positive and negative temperature, heating cable will be inserted inside frame or a special rubber gasket profile.

#### S2

frame is only 3 parts and a 50mm pre-painted steel angle is connected to the frame at the bottom and recessed into the concrete floor, can be used for both positive and negative temperature.

#### S3

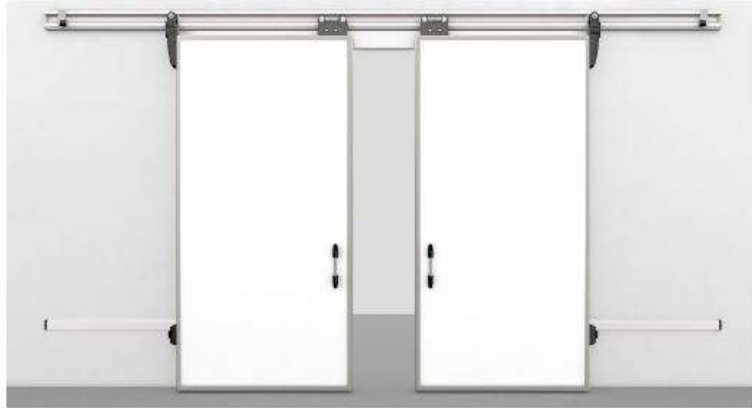
frame is only 3 parts, A metal angle tube 40 x 40 mm (50 x 50 mm) joined with another stainless steel on aluminum tube (20 x 40 mm) both are connected to the frame at the bottom and recessed into the concrete floor.

A heating cable 40 w/m powered at 220 v. is inserted inside the upper stainless-steel tube which remains visible at the same floor level only for negative temperature.

## 4 MOVEMENT TYPE

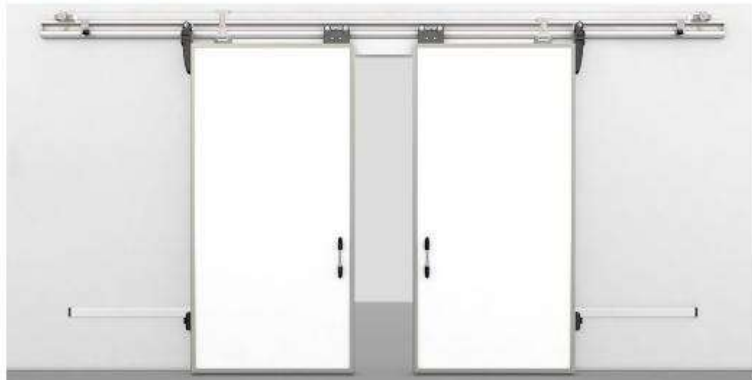
### A. MANUAL (INDEPENDENT OPENING OF EACH LEAF)

- Upper rail in Anodized aluminum supplied in detached pieces to allow fixing the falling ramps with possibility to setup the right or left opening.
- Adjustable patented brackets "FSS" (Flex System Support) in reinforced composite material, suitable for doors with different counter-frame.
- Wall Guide in anodized aluminum both sides (left-right).
- Brackets in reinforced composite material and zinc-coated metal.
- Two pulleys made of composite plastic materials on each leaf (left-right).
- Two pulleys made contain two wheels each made of metal and composite plastic materials (left-right)
- Two Fixed external handle in composite plastic material with stainless steel 304 tube.



### B. MECHANICAL MOVEMENT (SIMULTANEOUS OPENING OF BOTH LEAVES)

- Belt pensioner tooth bracket.
- Rubber drive belt.
- Connection bracket door/belt.



### C. AUTOMATIC MOVEMENT (SIMULTANEOUS OPENING OF BOTH LEAVES)

- Electronic control unit power supply 90/265V Single-phase.
- Full control with magnetic encoder.
- Obstacle detection in closing, with adjustable drive-torque.
- Adjustable opening and closing speed.
- Re-close pause timer adjustable from 1 to 60 seconds.
- Optional temperature controller and heater (for low temperature).
- Electric gear motor 220/380V-50Hz with magnetic encoder, supplied with assembling Kit.
- Belt pensioner tooth bracket.
- Rubber drive belt.
- Connection bracket door/belt.
- External flashing light.
- Control panel: Power 90/265 Vac 50-60 Hz.
- Three-phase gear motor: Power 220/380V-50Hz 550 Watt.
- Magnetic encoder: Resolution 2048 pulses/revolution - IP64.
- Degree of protection: IP55



Manual Models	SD-100TN	SD-100BT	SD-120BT	SD-150BT
Mechanical Models	SD-100TNC	SD-100BTC	SD-120BTC	SD-150BTC
Automatic Models	SD-100TNA	SD-100BTA	SD-120BTA	SD-150BTA
Available Thickness	100 mm	100 mm	120 mm	150 mm
Temperature	+5°C	-18°C	-30°C	-40°C
Threshold	S1/S2	S3	S3	S3

## 2.2

# LIGHT SLIDING SINGLE DOOR SL70

MAXIMUM DIM 1500 X 2400MM FRAMELESS DOORS USED FOR POSITIVE TEMPERATURE ONLY COMPOSED OF THREE MAIN PARTS AS FOLLOWING:

### 1 LEAF SPECIFICATIONS



- Leaf made up of two pre-painted hot dip-galvanized steel sheets thickness 0.50mm (Standard), thicker sheets available (on request), Standard sheets color RAL 9010.
- Leaf is surrounded by anodized aluminum profile thickness 70mm.
- Leaf is Injected with Polyurethane rigid foam (PUR) materials in order to act the thermal insulation with density 40 Kg / m<sup>3</sup> (2 ± kg.)
- Along the edge of the anodized aluminum profile inserted a special EPDM rubber gasket double density in order to avoid leakage (temperature seal)
- Special 3 lines EPDM rubber gaskets is fixed at the bottom of the door leaf (temperature seal).

### 2 SLIDING HARDWARE

- Upper rail in Anodized aluminum supplied in detached pieces to allow fixing the falling ramps with possibility to setup the right or left opening.
- Wall Guide in anodized aluminum.
- Brackets in reinforced composite material and zinc-coated metal.
- Two pulleys made of composite plastic materials.
- Fixed external handle in composite plastic material with stainless steel 304 tube.
- Fixed deep internal handle in luminescent plastic material.
- Adjustable lower register.
- Vertical and horizontal door leaf adjustment
- Optional: lock with key and safety release



### 3 THRESHOLD TYPE

Two types of threshold are available depend on door application and temperature of the room.

#### S1

Without threshold, frame is only 3 parts (2 jambs + 1 transom) for positive temperature for rooms with or without floor.

#### S2

Frame is only 3 parts and a special 40x40 mm thickness 4mm pre-painted steel angle is connected to the frame at the bottom and recessed into the concrete floor at 80mm, used for both positive for rooms without floor.