

ISO-THERMAL

**INSULATED
DOORS**

1

HINGED DOORS

1.1

HINGED SINGLE LEAF DOOR

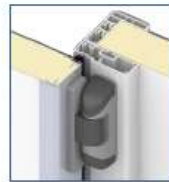
MAXIMUM DIMENSION IS 1500 X 2500 MM. COMPOSED OF FOUR MAIN PARTS AS FOLLOWING:

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 / m³ (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 inside floorless rooms).



Rail Passage



Connecting Door to the Frame



Gasket for BT Models



Gasket for TN Models






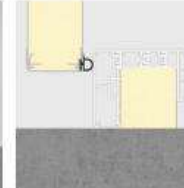
2 FRAME SPECIFICATIONS

- 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: two types one to be used for positive temperature and another for negative temperature.
- Side part: two sizes 30 and 50 mm to be connected to the outside part in order to allow fixing on different thicknesses.
- Counter frame: L shape fixed inside of the cold rooms.
- B. P.V.C Frames can be fixed either on panel with different thicknesses up to 200 mm or brick wall.
- C. Optional/ frame 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 40 w/m powered at 220 V is inserted inside the frame covered by aluminum profile.
- E. For deep freezers, up to -40° heating cable 40w/m powered at 220 V 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

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

S1	S2	S3	S4
<p>frame is only 3 parts without threshold connected to it for positive and negative temperature, for negative temperature heating cable will be inserted inside a special rubber gasket profile or inside the P.V.C. frame.</p>	<p>frame is only 3 parts and a 50x50 mm 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. for negative temperature heating cable will be inserted inside a special rubber gasket profile or inside the P.V.C. frame.</p>	<p>frame is only 3 parts, A metal tube Angle 40 x 40 mm joined with another stainless-steel tube (20 x 40 mm) both are connected to the frame at the bottom and recessed into the concrete floor. A heating cable 40W/m powered at 220v is inserted inside the upper stainless-steel tube which remain visible at the same floor level only for negative temperature.</p>	<p>frame is 4 parts of P.V.C consist of (2 jambbs + 2 transoms) for both positive and negative temperature.</p>
			

4 HARDWARE

The hinged system consists of the following parts:

- 1- External fastener with key lock and emergency safety release.
- 2- Hinges

HINGED SYSTEM TECHNICAL DATA

- High quality Italian hinged hardware
- All models are CE certified and tested up to 10000 times
- In compliance with EN179 rules
- Interchangeable right or left.
- Inside emergency safety release push-button.
- Adjustments: horizontal / dual vertical adjustment.
- Snatch-proof pin and tamper-proof fixing at closed door.
- Recessed auto-lubricating ramp.
- Modular shims.
- European Standard compliant cylinder (Master key on request).



HINGED SINGLE LEAF MODELS

	H-70TN	H-100TN	H-70TNG	H-100TNG
Leaf Thickness	70 mm	100 mm	70 mm	100 mm
Temperature	+5°C	+2°C	+5°C	+2°C
Threshold	S1/S2/S4	S1/S2/S4	S1/S2/S4	S1/S2/S4
Rail passage	-	-	yes	yes



H-70TN



H-100TN



H-100TNG

	H-100BT	H-120BT	H-150BT
Leaf Thickness	100 mm	120 mm	150 mm
Temperature	-18°C	30°C	-40°C
Threshold	S3/S4	S3/S4	S3/S4
Rail passage	-	-	-



H-120BT



H-100BT



H-150BT

1.2

HINGED DOUBLE LEAVES DOOR

MAXIMUM DIMENSION IS 3000 X 2500MM, CONSIST OF TWO LEAVES A MOBILE LEAF AND A SEMI-FIXED LEAF (WITH TWO HATCHES ONE UP AND ONE BELOW), THE TWO LEAVES CAN BE IDENTICAL OR DIFFERENT IN WIDTH, 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 are Injected with Polyurethane rigid foam (PUR) materials in order to act the thermal insulation with density 40 Kg / m³ (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 gasket is fixed at the bottom of the door leaf (temperature seal inside floorless rooms).

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: for positive.
 - Side part: two sizes 30 and 50 mm to be connected to the outside part in order to allow fixing on different thicknesses.
 - Counter frame: L shape fixed inside of the cold rooms.
- B. P.V.C Frames can be fixed either on panel with different thicknesses up to 200 mm or brick wall.
- C. Optional/ frame can be covered by welded stainless steel 304 along with door leaf made both sides from stainless steel.
- D. 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 200x 400 mm or as customer request.
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 - Two rubber seals will be fixed on the opening to let pass the Guide way.



3 THRESHOLD

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

S1	S2	S4
frame is only 3 parts without threshold connected to it for positive and negative temperature, for negative temperature heating cable will be inserted inside a special rubber gasket profile or inside the P.V.C frame.	frame is only 3 parts and a 50x50 mm 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: for negative temperature heating cable will be inserted inside a special rubber gasket profile or inside the P.V.C frame.	frame is 4 parts of P.V.C consist of (2 jambs + 2 transoms) for positive temperature.

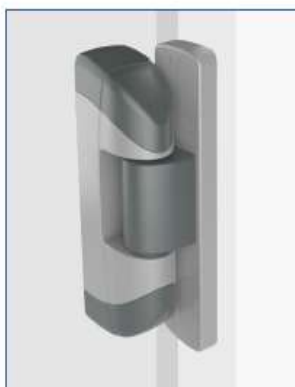
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Leaf Thickness	70 mm	70 mm	100 mm	100 mm
Temperature	+5°C	+5°C	+2°C	+2°C
Threshold	S1/S2/S4	S1/S2/S4	S1/S2/S4	S1/S2/S4
Rail passage	-	yes	-	yes



HD-100TNG



HD-100TN