

HINGED DOORS FOR COLD ROOMS AND FREEZER ROOMS SLIDING DOORS FOR COLD ROOMS AND FREEZERS SWINGING DOORS DOORS FOR PRODUCTION PREMISES SPECIAL DOORS Hermetel Oy



Hermetel Oy manufactures a wide range of high-quality doors primarily intended for cold rooms, freezers and production premises. Wherever well-insulated, sealable and durable doors are required, Hermetel Oy can provide the solution.

In product development and production, appropriate and customer-friendly implementations have been sought through testing. Thanks to the wide range of available sizes and the comprehensive selection, it is always possible to find the right kind of door. The manufacturing of special doors case-specifically also diversifies the selection.



KTO LIGHTWEIGHT COLD ROOM DOOR, KTOP LIGHTWEIGHT DOUBLE DOOR AND PTO LIGHTWEIGHT FREEZER ROOM DOOR



KTO-/PTO single leaf door



KTOP double door



A door pull



Hermetel H iron hinge



Durable Hermetel R lift-off spring hinge, model He/Roc 2000

Temperature ranges

- KTO lightweight cold room doors and KTOP double doors: +0 °C to +60 °C
- PTO lightweight freezer room door: -0 °C to -25 °C

CONSTRUCTION AND MATERIALS

- door leaf insulation thickness 80 mm, rabbeted door leaf, shaped door edges
- standard external and internal surface material: hot galvanised steel sheet, thickness 0,6 mm, with baked powder finish, av. thickness 70 µm
- between the surface sheets: foamed in-mould HCFC-free polyurethane, 40 kg/m³
- single leaf KTO and PTO doors and KTOP double doors: 2 self-closing, lift-off spring hinges made of stainless steel, model He/Roc 2000
- wide doors (1100...1300 mm): 3 Hermetel H hinges (stainless steel)
- frame: hot galvanised steel sheet with baked powder finish, thickness 2,0 mm, cellular insulation core
- doors are surface mounted
- door handedness is interchangeable - hinges according to handedness
- all doors have a flexible magnetic seal (gasket replacement easy)

STANDARD FITTINGS

- KTO and PTO doors: a tubular door pull on the outside
- PTO doors: a resistance-type heating cable in the frame, P = 105 W, 230 V, 50 Hz
- KTOP cold room double doors: a top-mounted lever-type or hidden door closer on the inside
- a door pull in passage doors

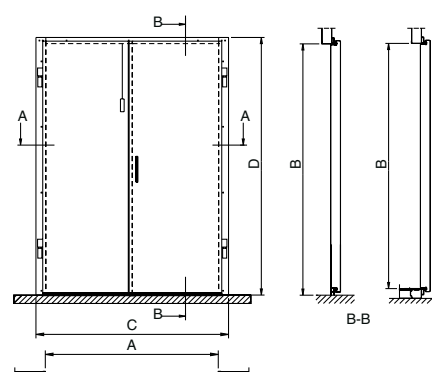
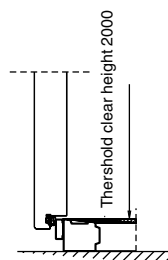
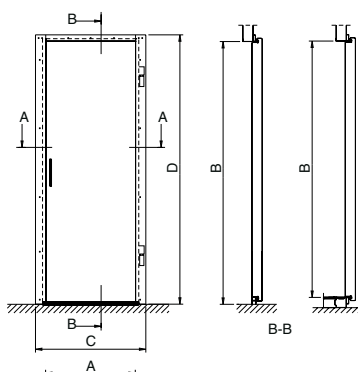
OPTIONAL FITTINGS

- door leaf surface material: plastic-coated steel, stainless steel AISI 304 Grid 180, HST acid-resistant steel or aluminium
- frame: stainless steel. In this case, consideration must be given to the fact that the magnetic seal does not function because stainless steel is not magnetic.
- a rubber seal, as required
- for doors with a drag seal: a twin adjustable rubber drag seal
- stainless kick-plates, claw plates etc., height free
- strike-resistant plastic shields, height free
- for KTO and KTOP cold room double doors: an Abloy or other type of surface-mounted lock
- for PTO freezer room doors: a lock featuring a safety opening device on the inside such as Jumbo-6000 or F491
- thermal windows in doors

Dimensions of KTO, PTO and KTOP doors

Door type	Clear opening size A x B, mm	Outside dimensions of frame C x D, mm
Single leaf doors		
KTO/PTO-7	700 x 2000	860 x 2100
KTO/PTO-8	800 x 2000	960 x 2100
KTO/PTO-9	900 x 2000	1060 x 2100
KTO/PTO-10	1000 x 2000	1160 x 2100
KTO/PTO-11	1100 x 2000	1260 x 2100
KTO/PTO-12	1200 x 2000	1360 x 2100
KTO/PTO-13	1300 x 2000	1460 x 2100
Double doors		
KTOP-14	1400 x 2000	1560 x 2100
KTOP-15	1500 x 2000	1660 x 2100
KTOP-16	1600 x 2000	1760 x 2100
KTOP-17	1700 x 2000	1860 x 2100
KTOP-18	1800 x 2000	1960 x 2100
KTOP-19	1900 x 2000	2060 x 2100
KTOP-20	2000 x 2000	2160 x 2100
KTOP-22	2200 x 2000	2360 x 2100
KTOP-24	2400 x 2000	2560 x 2100
KTOP-26	2600 x 2000	2760 x 2100

Clear height of doors with thresholds 2000 mm.
Clear height of doors with drag seals 2050 mm.
Doors are manufactured to heights of 1800...2600 mm in 100 mm increments.



KTOk-S AND PTOk-S MIDDLEWEIGHT DOORS FOR COLD ROOMS AND FREEZERS



KTOk-S/PTOk-S middleweight door for cold rooms and freezers, single leaf door



KTOk-S/PTOk-S middleweight door for cold rooms and freezers, double door

Dimensions of KTOk-S and PTOk-S doors

Door type	Clear opening size A x B, mm	Outside dimensions of frame C x D, mm
Single leaf doors		
KTOk-S/PTOk-S 8	800 x 2100	
KTOk-S/PTOk-S 9	900 x 2100	1170x2190
KTOk-S/PTOk-S 10	1000 x 2100	
KTOk-S/PTOk-S 11	1100 x 2100	1370x2190
KTOk-S/PTOk-S 12	1200 x 2100	
KTOk-S/PTOk-S 13	1300 x 2100	1570x2190
Double doors		
KTOk-S/PTOk-S 14P	700+700 x 2100	1670x2190
KTOk-S/PTOk-S 15P	700+800 x 2100	1770x2190
KTOk-S/PTOk-S 16P	800+800 x 2100	1870x2190
KTOk-S/PTOk-S 17P	800+900 x 2100	1970x2190
KTOk-S/PTOk-S 18P	900+900 x 2100	2070x2190
KTOk-S/PTOk-S 19P	800+1100 x 2100	2170x2190
KTOk-S/PTOk-S 20P	900+1100 x 2100	2270x2190

The standard clear opening height is 2100 mm and the external height of the frame 2190 mm. There is no difference in the dimensions of doors with thresholds or drag seals.

Other doors

Clear opening width 1400...3000 mm in 100 mm increments. Clear opening height 1400...3000 mm in 100 mm increments

Cold room doors with drag seals do not have a beam at the bottom of the frame – the floors are at the same level.



Gasket



Inside safety latch



Hinges



Key lockable bolt mechanism

STANDARD FITTINGS

- in addition to the constructions mentioned above, the doors feature a bolt mechanism equipped with a safety opening device on the inside
- a door pull in the passage door of double doors

OPTIONAL FITTINGS

- for doors with a drag seal: a double rubber drag seal with adjustable fixation
- stainless kick-plates, height free
- strike shields: strike-resistant plastic sheet, approved for foodstuffs
- surface material of door leaf and frame: stainless steel AISI 304 Grid 180 or acid-resistant steel
- track opening at the top of the door, eg. size 300 x 500 mm, rubber flaps in the opening, hardware and edge frame
- locking devices, stay fasteners
- thermal window
- plywood reinforcement beneath the door leaf
- strip curtain in the door opening
- door surfaces made from plastic-coated steel sheets are also available
- high doors are fitted with an extra hinge

To be noted when ordering

- The handedness of single leaf doors must be stated when ordering.
- The right door leaf of double doors is normally the entrance door and the left leaf is the auxiliary door. If the reverse is needed, this must be stated in the order.

Temperature ranges

- mainly for industrial use
- temperature range: +0 °C to +60 °C

CONSTRUCTION AND MATERIALS

- door leaf thickness 100 mm, door leaf without rabbet, shaped door edges
- standard external and internal surface material: hot galvanised steel sheet, thickness 0,6 mm, with baked powder finish, av. thickness 70 µm
- between the surface sheets: foamed in-mould HCFC-free polyurethane, 40 kg/m³, door also reinforced
- in all door models 4 adjustable pivot hinges, self-closing
- rubber seal
- bolt mechanism + inside safety latch
- frame: hot galvanised steel sheet with baked powder finish, thickness 0,6 mm, reinforced frame and insulation
- door surface mounted fixed with cylinder head bolts through wall, or with hidden bolts or screws
- long closer in double doors

KTO-S HEAVY DOOR AND KTOP-S HEAVY DOUBLE DOOR FOR COLD ROOMS AND PTO-S HEAVY DOOR AND PTOP-S HEAVY DOUBLE DOOR FOR FREEZER ROOMS



Heavy-duty opening latch for single leaf door; adjoining picture shows bolt mechanism for double leaf door.

Temperature ranges

- for industrial use, shops
- temperature range: $-0\text{ }^{\circ}\text{C}$ to $-60\text{ }^{\circ}\text{C}$

CONSTRUCTION AND MATERIALS

- door leaf thickness 100 mm, door leaf without rabbet, shaped door edges
- standard external and internal surface material: hot galvanised steel sheet, thickness 0,6 mm, with baked powder finish, av. thickness 70 μm
- between the surface sheets: foamed in-mould HCFC-free polyurethane, 40 kg/m^3 , door also reinforced
- all doors: two jewelled pivot hinges, not self-closing
- rubber seal
- bolt mechanism
- frame: hot galvanised steel sheet with baked powder finish, thickness 0,6 mm, frame reinforcement and insulation between the formed sheets
- door surface mounted fixed with cylinder head bolts through wall or with through bolts

STANDARD FITTINGS

- in addition to the constructions mentioned above, the doors feature a bolt mechanism equipped with a safety opening device on the inside
- a door pull in the passage door of double doors

FUNCTIONAL APPLICATIONS

Door types KTO-S, KTOP-S, PTO-S and PTOP-S are no longer part of Hermetel's standard production; they have in many respects been replaced with the KTOk-S and PTOk-S middleweight doors.

This kind of heavyweight door type is however available if an extremely strong door fitted with tightening devices, internal frame reinforcement, and a reinforced frame is required.

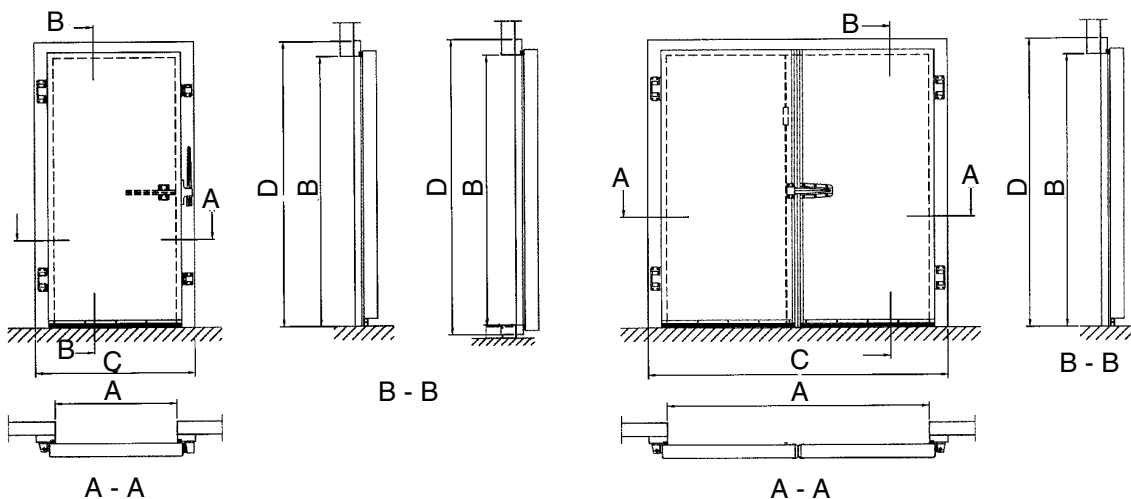
KTO-S, KTOP-S, PTO-S and PTOP-S hinged doors are either single leaf or double leaf doors, and they suit cold rooms and freezers.



Hinge and heating in freezer door.



Tightening roller, 2 pcs/door



TTO DOOR AND TTOP DOUBLE DOOR FOR PRODUCTION PREMISES

Temperature range

- temperature range for TTO doors and TTOP double doors for production premises: +0 °C to +60 °C

CONSTRUCTION AND MATERIALS

- door leaf thickness 52 mm, rabbeted, shaped edges
- standard external and internal surface material: hot galvanised steel or stainless steel sheet, thickness 0,6 mm
- between the surface sheets: foamed in-mould polyurethane, 40 kg/m³
- jewelled stainless steel pivot hinges
- formed cellular rubber seal
- Abloy lockbody and handle
- frame: formed steel profile
- the inside of the frame is either hollow or insulated
- the frame is installed directly in the opening and is fixed with hidden screws
- stainless steel threshold, doors with a drag seal do not have a threshold

SURFACE FINISH

- Surface sheets and frame (hot galvanised steel sheet)
- baked powder or PVF₂ finish

OPTIONAL FITTINGS

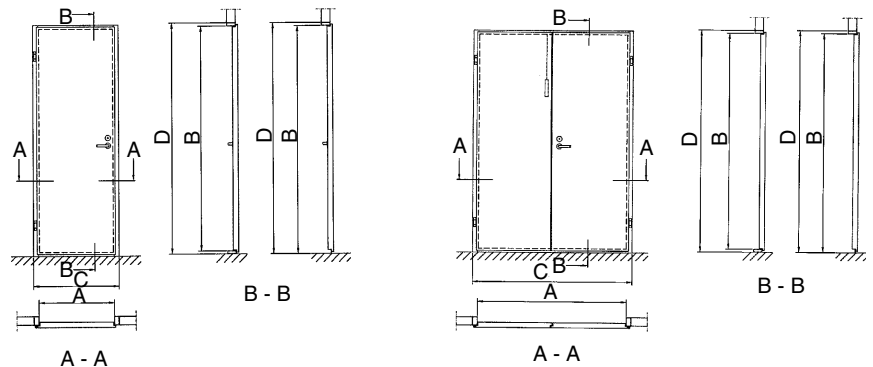
- for doors with a drag seal: a single rubber drag seal or descending bottom seal
- various locks, toilet fittings
- hidden door closers for the auxiliary door of double doors
- a single or double windows including beading

USE APPLICATIONS

- for locations that demand durability, hygiene and ease of cleaning such as industrial production premises, supervision booths and various institutions
- storage, bottle return and cleaning rooms of shops



The production premises doors TTO and TTOP are designed for heated spaces in shops and food production facilities. Depending on the functional purpose, the doors can be fitted with flush-mounted windows - equal to the door's thickness - whose glazing options are tempered glass, standard glass and laminated glass (clear/tinted).



Dimensions of TTO and TTOP doors

Door typ	Clear opening size A x B, mm	Outside dimensions of frame C x D, mm
Single leaf doors		
TTO 8 x 21	700 x 2040	800 x 2100
TTO 9 x 21	800 x 2040	900 x 2100
TTO 10 x 21	900 x 2040	1000 x 2100
TTO 11 x 21	1000 x 2040	1100 x 2100
TTO 12 x 21	1100 x 2040	1200 x 2100
Double doors		
TTOP 13 x 21	1200 x 2040	1300 x 2100
TTOP 14 x 21	1300 x 2040	1400 x 2100
TTOP 15 x 21	1400 x 2040	1500 x 2100
TTOP 16 x 21	1500 x 2040	1600 x 2100
TTOP 17 x 21	1600 x 2040	1700 x 2100
TTOP 18 x 21	1700 x 2040	1800 x 2100

The clear opening height is 2040 mm (threshold) or 2070 mm (drag seal) and the external height of the frame 2100 mm.

Installation opening = external dimensions of the frame.



Stove enamel painted double door



Stainless steel door

HERMETEL BEST DOOR SWINGING DOOR

ADVANTAGES OF HERMETEL SWINGING DOORS

- extensive range of dimensions
- excellent installation opening to access opening ratio
- flexible and durable hinges
- non-breakable gaskets
- lightweight construction
- adjustable door sweep
- alternative surface materials (i.e. stainless steel)
- sturdy and long-lasting frame construction for all wall thicknesses
- easy to install
- hygienic, impact-resistant kickplate
- replaceable kickplate
- separate stainless steel buffer railing for truck traffic
- affordable in all sizes
- use of recyclable materials

USE APPLICATIONS

Hermetel-swinging doors have been designed for:

- foot and truck traffic locations requiring convenient two-way access.
- locations requiring hygienic, durable and easily cleaned swinging doors.
- openings requiring well-insulated doors, but with swinging door functionality.

SAMPLE LOCATIONS

- shops, wholesale warehouses
- public buildings
- schools, hospitals
- industrial halls
- cooling plant rooms



Stainless steel double door

HHO AND HHOP INSULATED SWINGING DOORS

HHO is a single leaf door; HHOP is a double leaf door.

CONSTRUCTION

Door thickness 40 mm

- Foamed polyurethane 40 kg/m³ as insulation in form.
- Edges specially formed to eliminate holes, screws or rivets in surface.

Depending on order, the door leaf is either:

- stove enamelled Zn steel sheet, thickness 0,6 mm,
- stove enamelled Al steel sheet, thickness 1,0 mm or
- stainless steel sheet (ground grit 180 or 400), thickness 0,8 mm.

For stove enamelled sheets it is possible to use colours from the RAL colour chart (stove enamelled); if desired the door's different sides can be different colours.

STANDARD ACCESSORIES

- Impact-resistant buffer sheets are available for the doors in different heights, standard colours grey or black, standard height 1000 mm
- The impact sheet is attached with flush rivets that are recessed in the panel. Impact protectors can be replaced afterwards.
- Doors have a single-pane acrylic window, size 300 x 500 mm, or a polycarbonate window of the same size in equivalent locations. The window is attached with anodised aluminium lists that cannot be loosened by the goods being transported through the door.
- Door frame stainless steel, wall thickness 1,5 mm.
- Screw-attached frame according to wall thickness. The grip and stiffness is excellent.



HHO single leaf door



HHOP double leaf door

HINGE

- The Hermetel swinging door's plastic hinge and counterpart are recessed inside the door
- The hinge has been tested 1,000,000 times without showing any signs of damage that would hinder its operation.
- Because the hinge works as a sliding bearing it requires no oil or grease and is thus maintenance-free.
- The hinge withstands floor and truck traffic.
- Standard doors have 2 hinges; higher doors have 3 hinges.
- The hinge's stiffness is adjustable.



Hinge



Window



Door sweep

HHOPK AND HHOPKP UNINSULATED POLYCARBONATE SWINGING DOORS

DOOR OPERATION

- Using the door is easy and effortless because the hinge has been designed to automatically return both sides of the door to the 0 position, even from an angle of 88°. Double doors are also aligned to the correct position opposite each other.
- The door's weight resistance of only, 2...5 kg makes it the most user-friendly door on the market.
- At an angle of 95°, the door automatically remains open and with a light motion is self-closing.
- The hinge also tolerates a slight amount of excessive torsion (95°).
- The hinge does not form projections from the door's surface (except for the attachment screws).

DOOR SWEEP

- Double-rubber, height-adjustable door sweep.

HHOPK DOORS

Except for the door leafs the construction is the same as for the HHO and HHOP doors.

Door leaf construction

- The door leaf is 6 or 8 mm impact-resistant polycarbonate sheet.
- A window is not necessary because the door is transparent.
- Also available as a coloured polycarbonate sheet; a window is required for transparency.
- The door has the same impact plates and protectors as insulated doors.
- The door's edge stiffeners are formed from stainless steel reinforcements, inside which plastic panels and Hermetel hinges are attached.
- The reinforcements' width is 160 mm in all doors.
- The frame and hinge are identical to those in insulated doors.
- Door sweep single-rubber, list attachment.

ADDITIONAL ACCESSORIES

- Kickplates
 - stainless steel
 - PVC plastic sheet
- Different windows
- Door's surface colours according to RAL colour chart

Truck impact protectors

- The protectors installed at the door frames shield the frames from truck impacts.
- The truck impact protectors are outside the drive opening.
- The impact protectors for the doors' hinges, together with the door frames' impact protectors, safeguard the doors' opening mechanisms effectively.
- Impact protectors



Door type			Installation opening ±10 mm	Door width mm	Width of free opening mm
Single doors					
Insulated doors	Opaque PC doors	Transparent PC doors			
HHO-7*VAK	HHOM-7*VAK	HHOPK-7 *VAK	710	669	625
HHO-8*VAK	HHOM-8*VAK	HHOPK-8*VAK	810	769	725
HHO-9*VAK	HHOM-9*VAK	HHOPK-9*VAK	910	869	825
HHO-10*VAK	HHOM-10*VAK	HHOPK-10*VAK	1010	969	925
HHO-11*VAK	HHOM-11*VAK	HHOPK-11*VAK	1110	1069	1025
HHO-12*VAK	HHOM-12*VAK	HHOPK-12*VAK	1210	1169	1125
HHO-13*VAK			1310	1269	1225
Double doors					
Insulated doors	Opaque PC doors	Transparent PC doors			
HHOP-14*VAK	HHOMP-14*VAK	HHOPKP-14*VAK	1380	2 x 669	1280
HHOP-15*VAK	HHOMP-15*VAK	HHOPKP-15*VAK	1480	2 x 719	1380
HHOP-16*VAK	HHOMP-16*VAK	HHOPKP-16*VAK	1580	2 x 769	1480
HHOP-18*VAK	HHOMP-18*VAK	HHOPKP-18*VAK	1780	2 x 869	1680
HHOP-20*VAK	HHOMP-20*VAK	HHOPKP-20*VAK	1980	2 x 969	1880
HHOP-22*VAK	HHOMP-22*VAK	HHOPKP-22*VAK	2180	2 x 1069	2080
HHOP-24*VAK	HHOMP-24*VAK	HHOPKP-24*VAK	2380	2 x 1169	2280
HHOP-26*VAK			2580	2 x 1269	2480

* Standard heights (VAK) of free openings: 2100, 2300, 2500, 2700 and 3000 mm.

Construction of impact protectors

- The door frames' impact protectors consist of 40 x 40 mm stainless steel tubes attached to the door frames with screws and to the floor with cotter bolts.
- The truck impact protectors outside the width of the free opening are 60 x 60 mm stove enamelled steel tubes or stainless steel tubes lined with yellow stripes, and are attached to the floor with cotter bolts and to the wall with screws.
- The hinges' impact protection consists of Ø 10 stainless steel rods and stainless

sheet attached to the door frames' impact protector.

HHOM doors

- Door leaf 6 or 8 mm PVC plastic sheet
- Single pane 300 x 500 mm acrylic window in door.
- Doors have the same impact plates and protectors as insulated doors.

SLIDING DOORS

The lightweight HLO sliding door is intended for use primarily at foot traffic or light roller traffic areas where the use of a hinged door is problematic owing to, for example, space limitations.

- for cold rooms with a temperature range of $\pm 0\text{ }^{\circ}\text{C} \dots +20\text{ }^{\circ}\text{C}$
- for freezers with a temperature range of $\pm 0\text{ }^{\circ}\text{C} \dots -40\text{ }^{\circ}\text{C}$
- for heat rooms with a temperature range of $+20\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$

The heavyweight HLOS door is used when a lightweight sliding door is insufficient.

- for demanding functional conditions
- for truck traffic
- for cold rooms with a temperature range of $\pm 0\text{ }^{\circ}\text{C} \dots +20\text{ }^{\circ}\text{C}$
- for freezers with a temperature range of $\pm 0\text{ }^{\circ}\text{C} \dots -40\text{ }^{\circ}\text{C}$
- for heat rooms with a temperature range of $+20\text{ }^{\circ}\text{C} \dots +70\text{ }^{\circ}\text{C}$
- for other spaces requiring well-insulated, tightly-sealed and workable sliding doors.



HLO LIGHTWEIGHT SLIDING DOOR

DOOR CONSTRUCTION

- door leaf thickness 52, 65, 80 or 100 mm, depending on functional application.
- maximum height 2500 mm.
- surface panels galvanised, stainless, or aluminium-coated steel sheet.
- surface panel thickness 0.7...1.0 mm, standard thickness 0.75 mm.
- panels' corners welded shut.
- foamed polyurethane 40 kg/m³ in the form between the surface panels.
- at all door edges a 1- or 2-part rubber gasket and guide rail seals the door extremely well.
- when the door is opened, the guide rail raises the door to prevent the rubber gasket from rubbing against the floor or walls.
- the door slides very easily.
- a track at the lower end of the door, together with tightening devices attached to the floor, seal the door and control its movement.
- tightening devices are made from wear-resistant metal.
- no frames in cold rooms' and heat rooms' doors.
- heated frame in freezers' doors.

ADDITIONAL ACCESSORIES

- insulated glass window for doors, dimensions according to door size
- various kickplates, stainless steel or textured aluminium
- stainless steel nail plates
- inside or outside impact protectors from steel tube profiles
- padlock with lug handles, in freezers can be opened from inside
- protective housing for guide rail

Impact protection post

- for forklift truck traffic
- low models, higher model also available



Lightweight HLO sliding door fitted with pull handles.

SURFACE TREATMENT AND MATERIALS

Door leaf and frame

- stove baked enamel (galvanised steel sheet).
- plastic coating (coated panel), colour shades selected from RR chart.

Guide rail

- guide rail Hermetel F2320
- track anodised aluminium
- plastic slide rollers
- door's suspension fittings anodised aluminium, plastic-protected fittings
- adjustment mechanism in suspension fittings
- rubber stoppers in guide rail
- maximum door weight 80 kg.

STANDARD ACCESSORIES

- heat resistance in freezer doors, 110...200 W.
- rubber gasket in all doors
- hand grip



Lower guide



Upper guide



Opens inside door



Impact protection post



Lightweight HLO sliding door fitted with torque handles.

HLOS HEAVY SLIDING DOOR

DOOR CONSTRUCTION

- thickness of door leafs: in cold rooms 80 mm or 100 mm, in freezers 100 mm or 150 mm, in other spaces 80, 100 or 150 mm.
- surface panels galvanised, stainless steel or aluminium-coated steel sheet
- surface panel thickness 0,7...1,0 mm, standard thickness 0,75 mm
- panels' corners welded shut
- foamed polyurethane 40 kg/m³ in the form between the surface panels
- door leaf is reinforced around its metal or wooden frame for the attachment of fittings.
- at all door edges there is a 1 or 2-part rubber gasket that with the help of the guide rail seals the door extremely well
- when the door is opened, the guide rail raises the door to prevent the rubber gasket from rubbing against the floor or walls
- a track at the lower end of the door, together with tightening devices attached to the floor, seal the door and control its movement
- tightening devices are made from wear-resistant metal
- the door slides very easily, and opening it requires very little effort.

SURFACE TREATMENT

Door and frame either stove enamelled galvanised steel sheet, coated steel sheet or stainless steel sheet.

STANDARD ACCESSORIES

- heat resistance in freezer doors, 110...200 W
- heating beam at lower edge of door opening.
- rubber gasket in all doors
- sliding mechanisms
- sealing gasket between leafs of double doors.



Heavyweight HLOS sliding door, stainless steel-surfaced.

- torque action to facilitate the door's manual operation (stainless steel tubes, anodised aluminium attachments)

ADDITIONAL ACCESSORIES

- insulated glass window for doors, dimensions according to door size.
- various kickplates, stainless steel or textured aluminium.
- stainless steel nail plates.
- inside or outside impact protectors from steel tube profiles.
- padlock with lug handles, in freezers can be opened from inside.
- protective housing for guide rail.
- access door for foot traffic.

GUIDE RAILS

- guide rail is Hermetel F3530, F3530DV or F4460, depending on size and weight of door.
- track from yellow chromated steel profiles or stainless steel.
- sliding carriage is anodised aluminium and bearing-mounted stainless steel slide rollers, two-part bearings in suspension section.
- door's suspension fittings anodised aluminium, covered with plastic-surfaced housing.
- adjustment mechanism in suspension fittings.

Maximum door weights for guide rails

F3530 200 kg (single leaf)
 F3530DV 200+200 kg (double leaf)
 F4460 400 kg (single leaf)

TVRFC 5 Z7M-46 (example of sliding door mechanism)

The mechanism has a so-called sliding gear, in other the door can be operated in the event of a power outage.

Control panel E6

- multifaceted functional possibilities
- option to attach additional accessories afterwards

Accessories

- mechanism
- control panel
- 3-button (open-stop-close)
- sensor edge
- switch/sensor edge
- pull switch

Additional accessories

- 4-button (1/1 open - 1/2 open - stop - close)
- protective light cell
- sensors
- access control
- radio control
- timing devices
- vehicle detectors

- warning buzzers and lights
- remote control system

Mechanism

- power 0,23 kW
- voltage 400 V 50 Hz
- current 1,35 A

The closing power can be adjusted steplessly with a sliding switch. The switch also protects the mechanism from overloading and dampens start-up impulses. The limit switches have been built inside the machinery. Besides the normal open-close switches, the border switch mechanism facilitates the installation of four additional switches for the control of such functions as the operation of safety equipment and traffic lights. The border switches' mechanism is durable and will not break even if someone drives over the border locations. Manually operated override switches can also be installed in the mechanism.

Door mechanisms are selected according to the door's weight; contact Hermetel Oy for additional information.

DIMENSIONS OF SLIDING DOORS

Single leaf doors

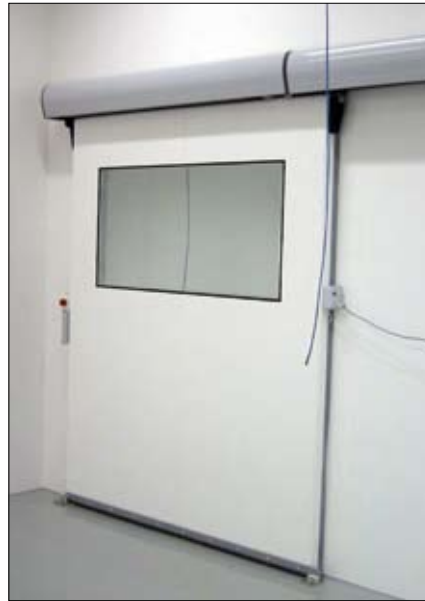
- Lightweight HLO sliding door
- width 800...2000 mm, in 100 mm increments
- height 2000...2700 mm, in 100 mm increments
- Heavy HLOS sliding door
- width 1000...3000 mm, in 100 mm increments
- height 2000...4000 mm, in 100 mm increments

Double leaf doors

- Heavy HLOS sliding door
- width 4000 mm
- height 4000 mm



Machine-operated HLOS-C or HLOS-F heavyweight sliding door.

SPECIAL DOORS

Hermetel special doors suit a wide range of functional purposes and needs.

MANUFACTURING, SALES AND INFORMATION

Hermetel Oy
P.O. Box 29 (Ollostentie 46)
FI-16301 ORIMATTILA, FINLAND
Tel. +358 3 887 470
Fax +358 3 887 4710
myynti@hermetel.com
www.hermetel.com