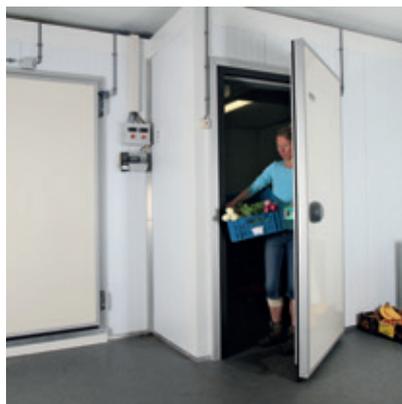


## REFRIGERATION, FREEZER, OPERATIONAL DOORS, COLD STORE SLIDING WALLS AND AUTOMATIC (AIRLOCK) DOORS



For information about doors for ULO/CA-storage,  
please see our brochure 'CA doors and windows'

## A world of possibilities

The better cells or refrigeration rooms are insulated, the lower the energy costs. Concerning this, as the only moving part, the door is a critical item. Salco supplies sturdy but light-weight doors that are easy to open, shut perfectly and have a high insulation value. We offer custom-made solutions for almost any situation, in which the right balance is found between accessibility, energy saving, safety, costs and durability.

In 35 years, Salco has developed into a well-known name in various industries at home and abroad. Among other places, our refrigeration and freezer doors can be found at refrigeration and high-rise cold-storage warehouses, agricultural businesses, chicken hatcheries, distribution centres, the food and dairy industry and fish and meat-packing businesses.

### Horizontal single or double door, vertical door or executed as a hinged door

The 40/100/140 millimetre thick door is lightweight owing to the use of high-quality, seamless polyester and available in several colours. Outer frame and framing are completely free of thermal bridges and made of anodized aluminum. The doors are available in a horizontal (single or double) and vertical design and as a hinged door. The horizontal design is provided with an anodized aluminum drop/lift-rail system with an integrated finishing cover.

The vertical design is pre-eminently suitable in situations where there is little side-space, or where goods are conveyed over the entire width of the cell. By manufacturing doors that are as wide as the cell, goods can be driven in and out of the refrigeration cell quickly and efficiently, and the cell space is utilized optimally. The vertical rail system and the support beam are powder coated in RAL 9016 (white).

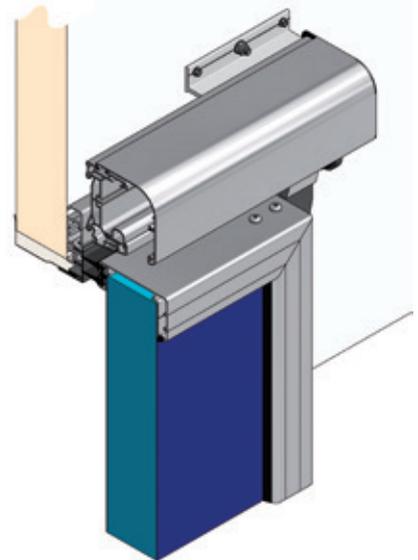


Double refrigeration door KH-1010

## Refrigeration door KH-1010(V)



The door is composed of a core of 100 millimetre insulation material, paneled with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with a drop/lift-rail system and available in both a horizontal (single and double leafed) and a vertical design. Produced completely made to measure and exceedingly suitable for high-quality and sustained cooling.



Section KH-1010

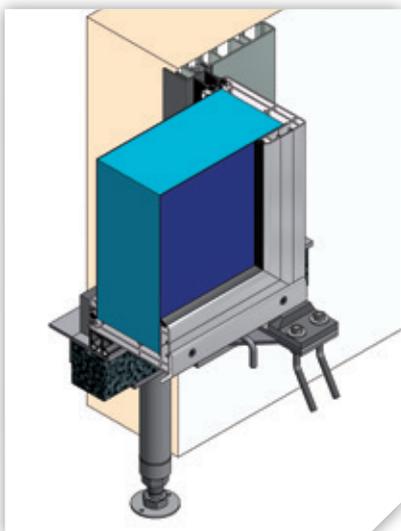


Inside opener type Pull

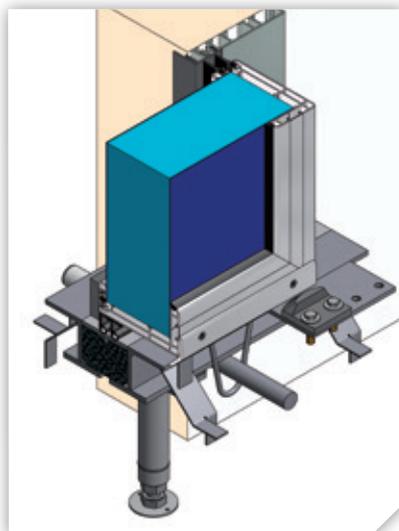
## Freezer door VH-1414(V)



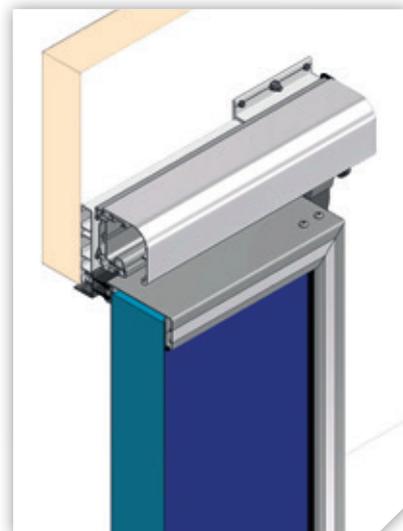
The door is composed of a core of 140 millimetre insulation material, paneled with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with a drop/lift-rail system and available in both a horizontal and a vertical design. Frame heating in the door frame and a heated threshold are standard with our doors. For specific situations you can opt for extra heating in the door leaf. Another option you can opt for is a threshold with a gliding dowel construction, a long-term solution that keeps the inside and outside floors at one level and realises a controlled shrinkage.



Standard threshold



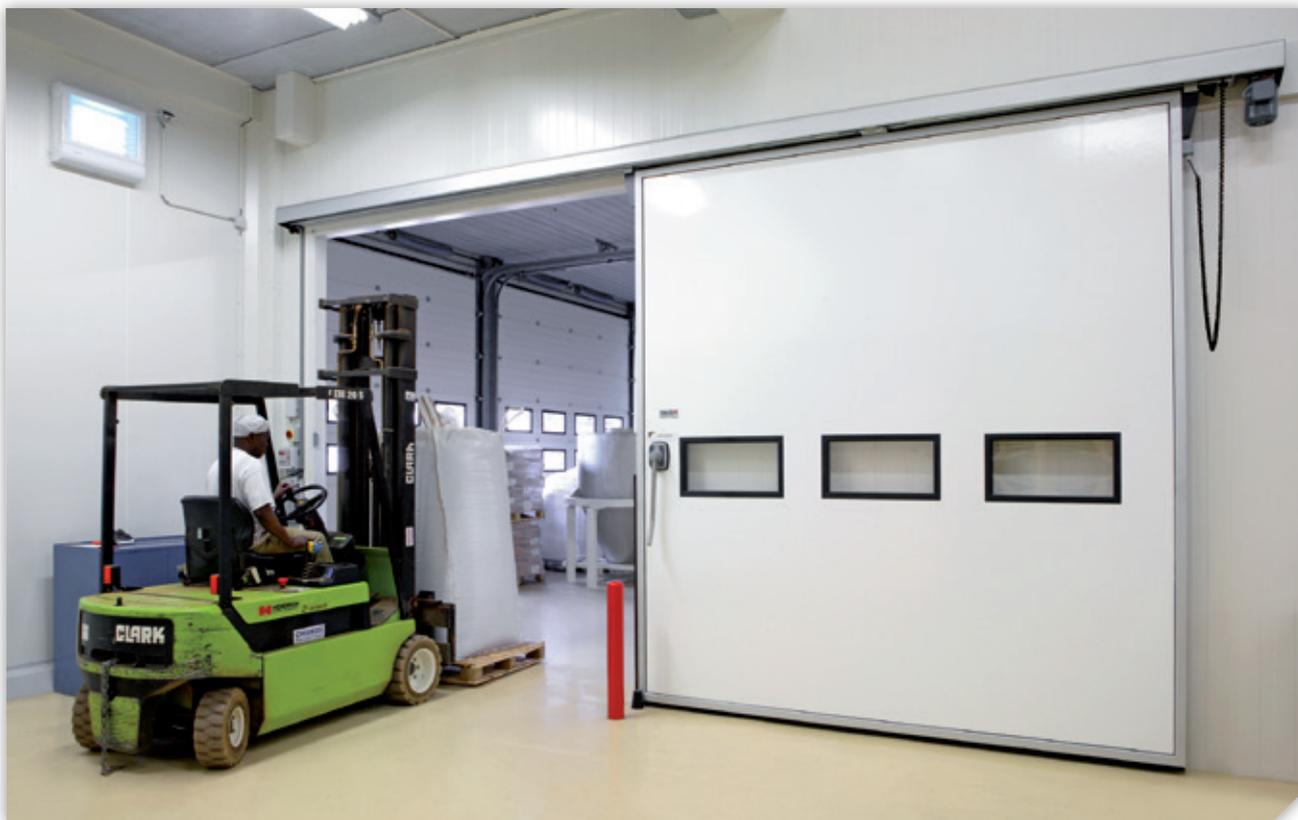
Threshold with sliding dowel construction



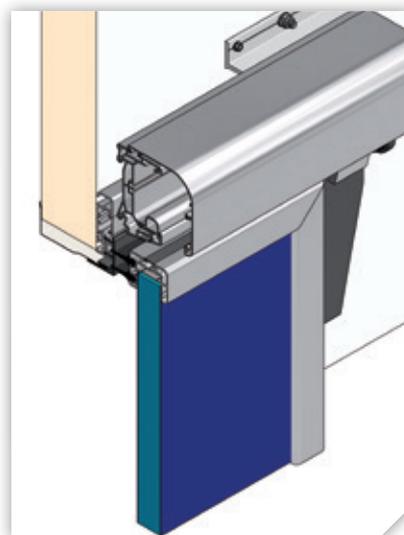
Section VH-1414



## Operational door BSD-0804(V)



The door is composed of a core of 40 millimetre insulation material, paneled with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with a drop/lift-rail system and available in both a horizontal and a vertical design. Can be provided with glazing for an additional price.



Section BSD-0804

# Refrigeration/freezer hinged door KD/VD-1010



Refrigeration and freezer door KD/VD-1010

The door is composed of a core of 100 millimetre insulation material, paneled with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with stainless steel/plastic rising hinges. Standard including emergency unlocking device and available with glazing at an additional price. The freezer design is provided with frame heating in the door frame and the threshold. Standard measurement 900 x 2300 millimetres (wxh), deviating measurements upon request.



Handle with cylinder lock for the refrigeration door (outside)



Emergency unlocking device (inside)

## Stainless steel refrigeration, freezer and operational door, KH-0910(V)/VH-0914(V)/BSD-0904(V)



*Electrically operated refrigeration door type KH-0910, completely executed in stainless steel*

For use in the food processing industry Salco supplies special designs in which the framing profiles of the door, the outer frame and the rail are executed in stainless steel 304. Often stainless steel door paneling is chosen automatically, but it is not that self-evident. With larger doors, for example, stainless steel cannot be processed seamlessly and is not always completely rustproof, for instance in an environment where aggressive acids are employed regularly (such as nitric acid). In addition to stainless steel there are other high-quality materials, such as polyester, that comply with the extremely high requirements. Even for spaces where the highest hygienic requirements must be met, there are excellent food-safe solutions with plastic door paneling. Lightweight, sharply priced, fitting in any architecture owing to the colour possibilities and of course completely rustproof. Furthermore, the door leaf can nearly always be processed seamlessly. In addition to the standard 1.5 millimetre food-safe polyester door paneling, we can also offer an extremely impact resistant version (only in RAL 9016 (white)) as a cheaper alternative to stainless steel. Of course the door can also be paneled with chased stainless steel 304/316 (sun theme).



*Electrically operated refrigeration door KH-0910 with polyester door leaf, stainless steel framing, door frame and bumper*

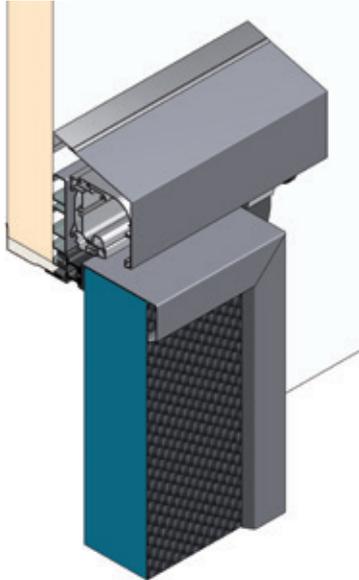


*Manually operated refrigeration door KH-0910, completely executed in stainless steel*



*Electrically operated refrigeration door KH-0910 with polyester door leaf, stainless steel framing, door frame, bumper and aluminium cover cap*

The door is not constructed out of set sheet-metal, but it is provided with strong framing profiles so that a sturdy and durable construction is formed that can survive a blow. Smooth materials with a closed surface without seams are very important for guaranteed optimum hygiene. Not surprisingly, the corners of the framing profiles are root welded so that the whole is hygienic.



*Section KH-0910*



*Electrically operated refrigeration door KH-0910, completely executed in stainless steel with aluminium cover cap*



*Root welded framing corners in combination with polyester or stainless steel door paneling*



*Stainless steel outside opener*



*Stainless steel bumper*

## Automatic (airlock) door



Salco's first project involved a fully automatic high bay cold storage warehouse for Partner Logistics Europe B.V. in Bergen op Zoom in 2000. Since then, our doors are used in several fully automatic cold store facilities all over the world.

Modern transport systems in (high-bay) warehouses require very high opening and closing speeds to keep the entry of warm air from outside, and in some cases oxygen as well, as low as possible. Salco's fully automatic doors attain extremely high speeds, both the horizontal and the vertical versions. They are suitable for frequent use and easy integration in any transport system. Whether it concerns a storage unit for frozen goods, for example chips (McCain, Lamb Weston Meijer, Farm Frites), ice creams (Unilever) or medicines (Amgen, Grifols), the diversity of designs ensures that Salco has the right door for every application. In every case a hermetic seal is provided, enabling the doors to be particularly suitable for use in rooms where for reasons of fire prevention the oxygen percentage is reduced from 21% to approx. 16%.





Salco is frequently involved in the design stage of a project to contribute ideas and suggestions and sketch in the doors in the drawings. This in order to avoid problems during the building process. A custom made solution can be designed in consultation with the supplier of the conveyor system. This will always include matters such as speed, feedback of data to the transport system and safety.

For the construction of the fully automatic doors, customers can choose a 100mm thick door leaf (cold store door) (AL-1010 H/VK), a 140mm thick door leaf (freezer room door) (AL-1414 H/VK) or a 40mm thick door leaf (AL-0804 H/VK).



*Detail threshold*



## Panels cold store sliding doors/wall PKD-100



*Sliding door wall with panels in standard colour*

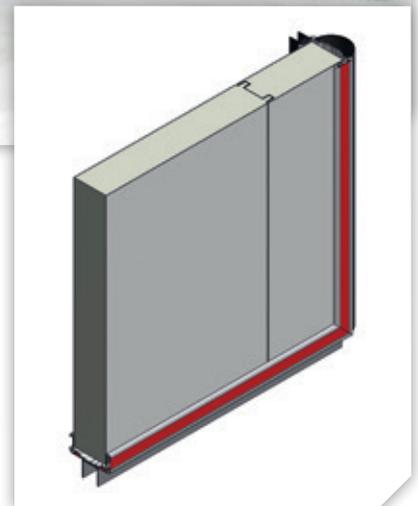
Door leaf consisting of steel sandwich panels with a core of 100mm insulation, finished with anodised aluminium extruded profiles. The door leaf is sealed around by means of double, rubber profiles. By adjoining several doors and to have one slide in front of the other, one large sliding wall can be created enabling products to be ridden into the room fast and efficiently. The PKD-100 can be designed with a door rail system with both top and bottom rails and is available in up to very large sizes. It is also available as a do-it-yourself kit excluding panels for the door. Easy to transport and with an attractive price. Applications are cold stores for flower bulbs, potatoes and several vegetables like onions and carrots.



*Sliding door wall (22m wide, 8m high) with panels in standard colour*



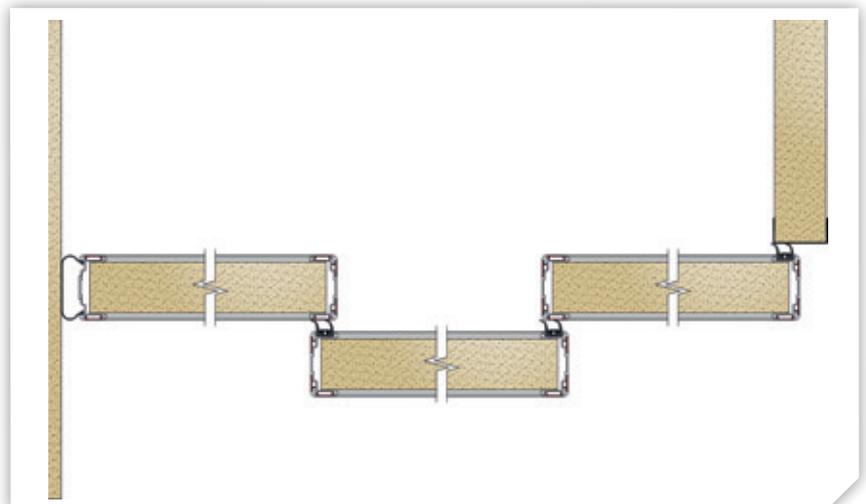
Sliding wall



Section PKD-100



Section detail bottom rolling sliding door PKD-100



Top view sliding door wall PKD-100

# Doors supplied as a construction kit



Standard 40 (BSD-0804)/100 (KH-1010/PKD-100)/  
140mm (VH-1414) sandwich panel applicable

Salco supplies all doors as a construction kit especially for export (not possible in stainless steel version). The construction kit is made completely to measure, with or without (polyester) panels for the door leaf.

Advantages:

- Favourable prices
- Lower import duties
- Uncomplicated transport
- Lower transport costs owing to reduced volume
- Possibility to apply a standard 40/100/140 millimetre sandwich panel
- Assembly against local labour costs
- Large dimensions possible

Obviously, the construction kits will be provided with detailed installation drawings, assembly and construction manuals and films.



Detail bottom corner and bottom guider refrigeration,  
freezer and operational doors



Detailed manuals and films available



Packed in boxes, ready for transport



Detail point of suspension and outside opener  
refrigeration, freezer and operational doors

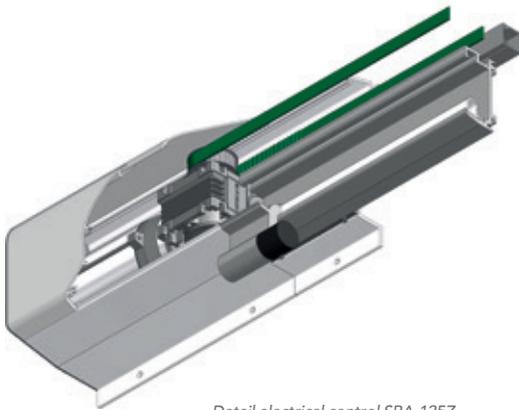
# Operational possibilities

In addition to manual controls, the doors can also be provided with electrical controls. This provides considerable energy saving and increased efficiency. At the same time, the doors can be provided with pull switches or remote controls with manual or fork-lift truck transmitters so that the fork-lift trucks can be on their way swiftly.

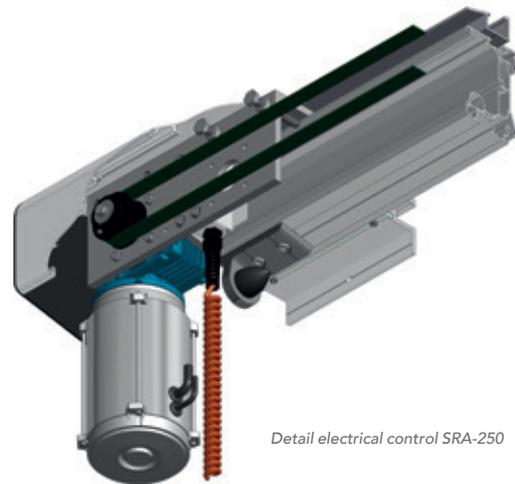
- Doors equipped with all safety devices in compliance with the CE standard
- Soft start/soft stop (frequency), 230V
- Opening speed standard operation horizontal max. 0.9 m/sec. (single leaf), max. 1.8 m/sec. (double door), vertical max. 0.2 m/sec.
- The automatic airlock control allows very high opening and closing speeds
- Potential-free contact(s) for, for instance, open/closed position, switching on/off of the lighting or refrigeration plant
- Also available with automatic closure, half open position, radar etc.
- Lock provision possible (electromagnetic lock)



Control box



Detail electrical control SRA-125Z



Detail electrical control SRA-250

## Installation and service

All our doors are designed, produced and, if desired, installed by our own staff. Everything under the same roof, so that we can guarantee a high-quality product for the full 100%. Safe, reliable, user-friendly and with a long life span.

You can also count on us after the installation of our doors. Salco disposes of an extensive service department for solving malfunctions and/or damage. Our specialists are at your service 24 hours per day 7 days per week. Fast, competent and efficient.

Periodical maintenance is the basis of a trouble-free operation. By entering into a service agreement your doors will be checked and maintained by specialists on a yearly basis. Due to this, the chance of breakdowns will be limited and unsafe situations will be prevented. Periodical,

preventative maintenance means a carefree daily use of your doors and an extension of their life-span.



## Technical specifications refrigeration door type KH-1010 (horizontal) and KH-1010V (vertical)

<b>Construction</b>	: door leaf constructed of a core of insulation material, covered on both sides with 1,5mm impact-resistant glass-fibre reinforced foodsafe polyester.
<b>Thickness door leaf</b>	: 100mm.
<b>R-value</b>	: approx. 3,7 (m <sup>2</sup> .K/W).
<b>Framing</b>	: anodized aluminium profiles, thermal bridge-free.
<b>Colour of door leaf</b>	: standard colours RAL 9016 (white), RAL 9001 (creamy white), RAL 6010 (green) or RAL 5005 (blue).
<b>Sealing</b>	: all round by means of rubber profiles.
<b>Door frame</b>	: anodized aluminium profiles with a complete thermal bridge-free fit to the wall.
<b>Rail system</b>	: anodized aluminium drop/lift rail system type SRA with dust hood (horizontal), galvanized and powder coated guiding system (vertical).
<b>Operation</b>	: manually operated (horizontal), chain operated (vertical). Electrical operation at additional price.
<b>Locks</b>	: not included. Available at additional price.
<b>Additional options</b>	: extremely impact resistant polyester (RAL 9016), double-door version, bumper, threshold, finish of the clear opening, rain hood and more.

## Technical specifications freezer door type VH-1414 (horizontal) and VH-1414V (vertical)

Construction and options are the same as the above-mentioned refrigeration door type KH-1010(V), with the following exceptions:

<b>Thickness door leaf</b>	: 140mm.
<b>R-value</b>	: approx. 5,19 (m <sup>2</sup> .K/W).
<b>Threshold</b>	: included. Flexible threshold (a so called sliding dowel construction) at additional price.
<b>Frame heating</b>	: included in door frame and threshold. Extra heating elements in the door leaf at additional price.

## Technical specifications operational door type BSD-0804 (horizontal) and BSD-0804V (vertical)

Construction and options are the same as the above-mentioned refrigeration door type KH-1010(V), with the following exceptions:

<b>Thickness door leaf</b>	: 40mm.
<b>R-value</b>	: approx. 1,48 (m <sup>2</sup> .K/W).
<b>Option</b>	: window in the door leaf.

## Technical specifications stainless steel refrigeration, freezer and operational door type KH-0910(V)/VH-0914(V)/BSD-0904(V)

Construction and options are the same as KH-1010(V)/VH-1414(V)/BSD-0804(V), with the following exceptions:

<b>Framing</b>	: stainless steel 304 profiles, thermal bridge-free.
<b>Door frame</b>	: profiles covered with stainless steel 304 with a complete thermal bridge-free fit to the wall.
<b>Additional options</b>	: door leaf covered with stainless steel 304, drop/lift rail system, bumper, finish of the clear opening and rain hood in stainless steel 304.

## Technical specifications refrigeration/freezer hinged door type KD/VD-1010

Construction and options are the same as KH-1010(V), with the following exceptions:

<b>Standard</b>	: clear size 900 x 2300 mm (wxh).
<b>Thickness door leaf</b>	: 100 mm (both refrigeration and freezer hinged door).
<b>Threshold</b>	: exclusive (refrigeration), inclusive (freezer).
<b>Frame heating</b>	: exclusive (refrigeration), including in door frame and threshold (freezer).
<b>Hinges</b>	: stainless steel/plastic rising hinges.
<b>Locks</b>	: emergency unlocking device by means of a push button on the inside and a handle with a cylinder lock on the outside.
<b>Additional options</b>	: deviating measurements, door leaf and outer frame paneled with stainless steel, outer frame all round, window in the door, finish of the clear opening, door closer, storm chain, rain hood and more.

## Technical specifications automatic (airlock) door type AL-1010/1414/0804 H (horizontal) and AL-1010/1414/0804 VK (vertical)

Construction and options are the same as KH-1010(V)/VH-1414(V)/BSD-0804(V).

## Technical specifications panels cold store sliding door/wall type PKD-100

<b>Construction</b>	: door leaf constructed of sandwich panels, covered on both sides with 0.6mm sendzimir galvanized and coated steel plate.
<b>Thickness door leaf</b>	: 100mm.
<b>R-value door leaf</b>	: approx. 4,85 (m <sup>2</sup> .K/W).
<b>Framing</b>	: anodized aluminium profile provided with synthetic strip in RAL 3000 (red).
<b>Colour of door leaf</b>	: standard colour RAL 9002 (light grey) door leaf finished in colour to be specified at additional price.
<b>Glazing</b>	: exclusive, door leaf fully closed.
<b>Sealing</b>	: all round by means of double rubber profiles.
<b>Rail system</b>	: top or bottom rolling in galvanized finish.
<b>Operation</b>	: manually operated. Electrical operation at additional price.
<b>Locks</b>	: pin lock on the outside to secure the door.
<b>Additional options</b>	: cover / rain hood, door constructed in two parts (set) and bottom rail with gutter construction. Also available in kit form.



# SALCO

☐ Korenmarkt 4  
NL-1681 PB Zwaagdijk-Oost

☒ (31) (0)228 564 200  
☒ (31) (0)228 564 232

☉ info@salco.nl  
☐ www.salco.nl