

Kingspan DFH1

Freezer doors (hinged)

Freezer doors (hinged, single leaf) for use in buildings where the required interior temperature range is 0°C to -35°C.





Technical information:

Temperature range:

- For use in buildings where the required interior temperature range is 0°C to -35°C

Door leaf:

- Door leaf thickness: 100 and 120 mm
- Galvanized steel covered with 25 µm PES coating in R9002/R9010; protection foil.
- Other material can be used, e.g. INOX stainless steel, 150 µm FoodSafe chemically inert coating for interior and food contact applications, etc.
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Rounding gasket to seal the contact point between the door leaf and the frame.
- Bottom gasket to seal the space between the door leaf and the threshold.
- Possibility to equip the door with a combined plastic bumpers.



Door frame:

- Fitted onto the opening.
- Galvanized steel covered with 25 µm PES coating in R9002/R9010; protection foil.
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density.
- One-sided, adapted to the technology of the walls, it is possible to order an insulated inner frame as an option.
- Fitted with heating wire to prevent condensation.
- Heating threshold to be concreted.

Hardware:

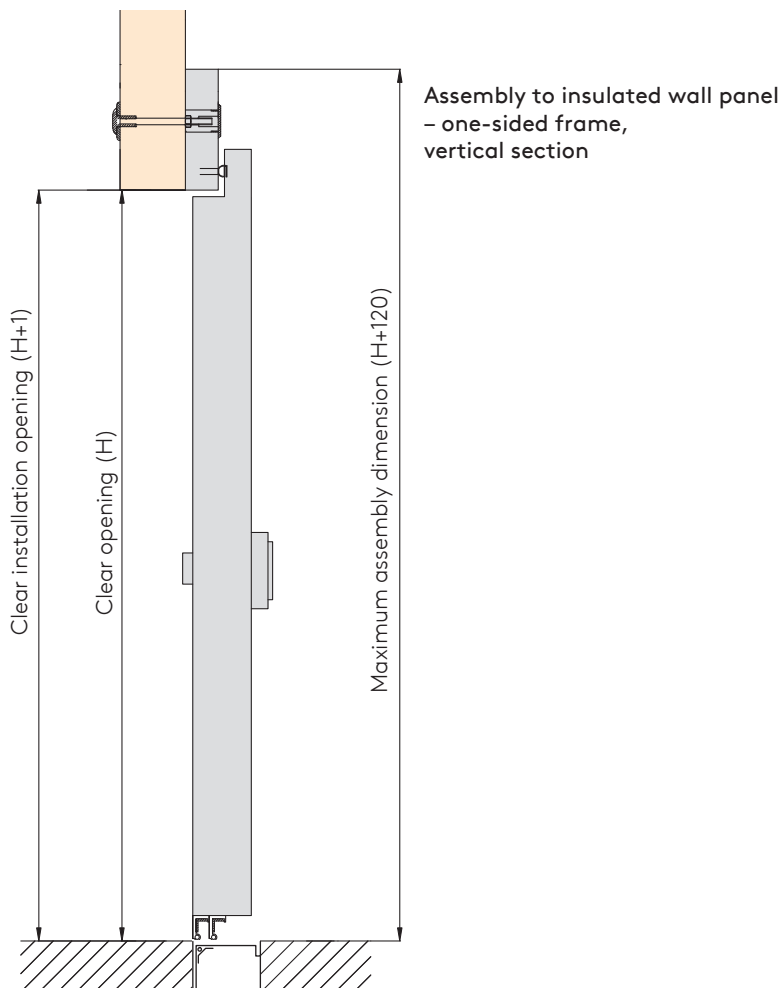
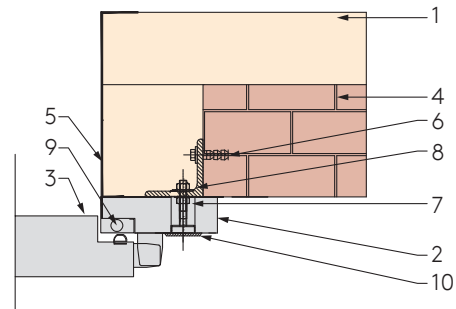
- Safety lock with key provided by Fermod, French leader in hardware for refrigeration industry,
- Rising hinges provided by STUV,
- Door adjustment without disassembly,

Standard dimensions range:

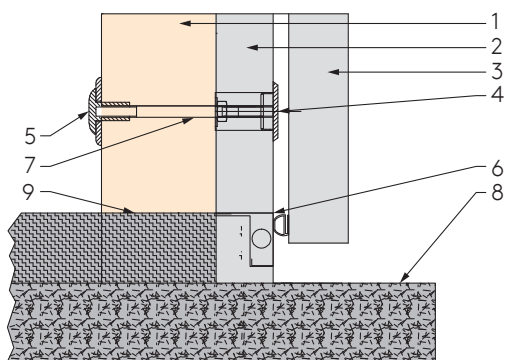
- min.: 700x1800 mm,
- max.: 1500x2600 mm
- Non-standard dimensions are also available.



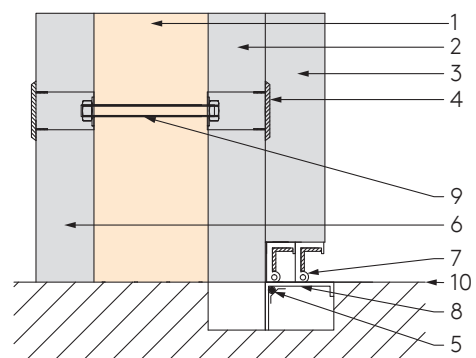
Drawings of installation:

Traditional assembly (brickwall)
– insulated with composite panels

- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brick wall
- 5 - Flashing
- 6 - Expansion anchor
- 7 - M10 type bolt with expanded washer
- 8 - Angle bar 80x80x8 mm
- 9 - Heating wire in the frame
- 10 - Plug

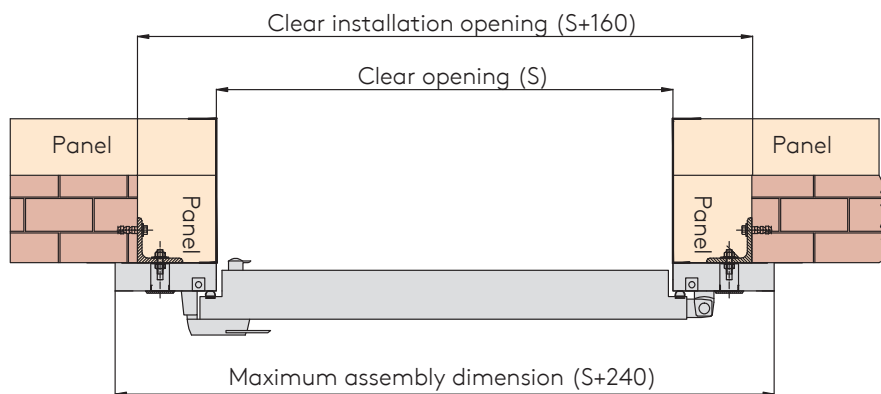
Assembly to insulated wall panel
– steel threshold

- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - "Castel Cool" bolt
- 6 - Threshold at h=floor level inside,
eg. 100 mm
- 7 - M10 ertalone rod
- 8 - "0" level
- 9 - Floor level within the chamber

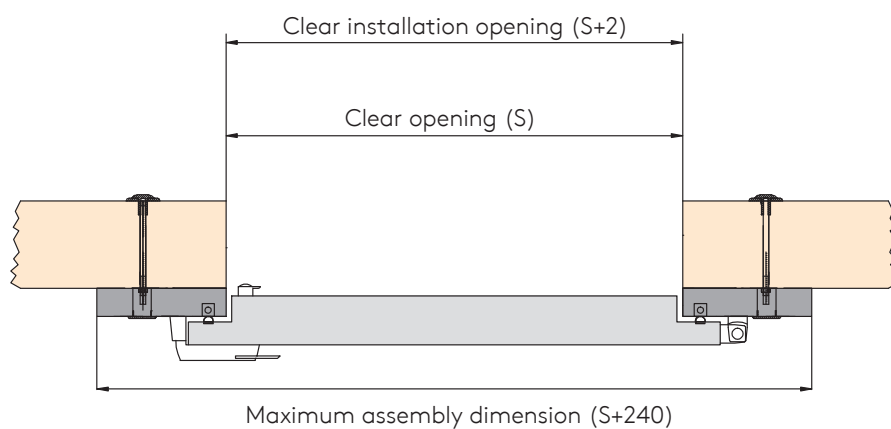
Assembly to insulated wall panel
– threshold for concreting

- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Heating wire
- 6 - Interior frame
- 7 - Threshold gasket
- 8 - Threshold
- 9 - M10 ertalone rod
- 10 - "0" level

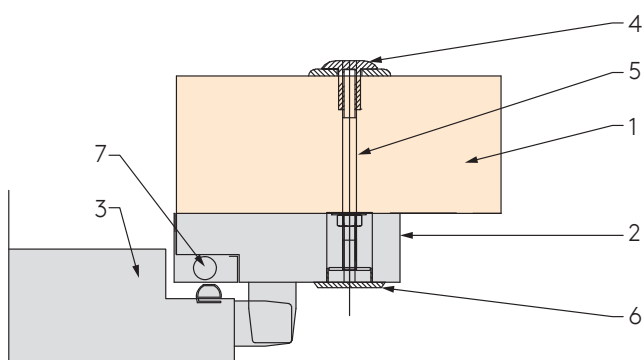
Traditional assembly (brickwall)
– insulated with composite panels



Assembly to insulated wall panel
– one-sided frame, horizontal section



Assembly to insulated wall panel
– one-sided frame



Installation guide:

1. Unpack the door.
2. See description of product and check its compliance with order and description (width, height , direction of opening).
3. Check dimensions of hole in wall with manufacturer's recommended.
4. Clean and straighten edges and surfaces of prepared hole.
5. Check level of floor in turning area on door leafs. In absence of target forms, finish floor to keep mounting slot.
6. Remove the door leaf from the frame and remove the technological beam.
7. Pre-position the frame in the selected place of the light prepared in the wall of the opening and immobilize it.
8. Correct the errors in the initial setting of the frame in the opening and immobilize it using quick-assembly grips.
9. Mark and make mounting holes for pins (mounting to the board) or anchors (mounting to the wall).
10. Install flashings in case of mounting to the panel.
11. Place the door frame in the selected place of the light prepared in the wall of the opening and fix it with the use of quick-assembly grips.
12. Correct and possibly adjust the vertical of the frame arm equipped with hinges using a spirit level.
13. Check how the leaf closes and opens in the frame - make appropriate adjustments depending on the situation.
14. Finally, install the frame arms.
15. Fill the gaps between the frame and the wall / panel with silicone.
16. Plug the mounting holes.
17. In the freezer door, connect the 230V 50 (60) Hz power supply with a 3-5A protection to the electric box mounted on the frame, in the power box with a 3x1.5 mm cable, from a power point protected against electric shock in accordance with applicable regulations. The power supply is used to heat the heater in the threshold and the frame in order to eliminate freezing of the gasket. Check the power supply to the measuring device and the frame for warmth.
18. Remove the protective foil securing the door leaf immediately after its installation.

Maintenance:

Recommendations:

- Lubricate all hinges at least twice a year..
- Maintain the gaskets with a gasket preservative at least twice a year.
- Replenishing paint or zinc coating defects resulting from bruising or scratching in order to protect the product against corrosion centers. It is best to fill the cavities with generally available anti-corrosion paints.
- Doors made of stainless steel should be repaired with resins with fiberglass.
- Weather conditions (rain, snow, sun) should not act directly on the door and should be protected at least with a roof protecting against such conditions.

Transport and storage of doors:

- Doors should be transported and stored with particular care.
- The loading spaces of the means of transport should be clean, and the planes of walls and floors should not have protruding sharp elements that could damage the door.
- Doors for transport (storage) should be arranged vertically, individually or horizontally in the maximum position 5 layers separated with spacers (for standard sizes - doors packed in a cardboard box)
- In the case of large doors, transport and storage should take place on special stands.
- During loading, the doors should be positioned so that the plane of the wings is parallel to the longitudinal axis of the vehicle.
- The loaded and properly positioned door must be attached to the means of transport (e.g. with safety belts) in a way that ensures stability and protects it against displacement and damage during transport.
- Doors packed on a pallet should be stored and transported as mentioned above. way with the difference that the pallet with the door can be moved and loaded using a forklift.
- The storage place should be dry and airy, and should also protect the door against rainfall and weather conditions.

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