

Insulated Panels  
Poland, Lithuania, Latvia, Estonia, Ukraine

# Kingspan DFS1

## Freezer doors (sliding)

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



**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/m<sup>3</sup> density.
- One-sided, adapted to the technology of the walls, it is possible to order an insulated inner frame as an option.
- Adapted to the technology of wall construction.
- Fitted with heating wire to prevent condensation.

**Hardware:**

- Guide track and automation from the renowned FERMOD company.
- A guide that lifts the door leaf while opening.
- Flush-mounted clamps for easy door adjustment without disassembly.

**Standard dimensions range:**

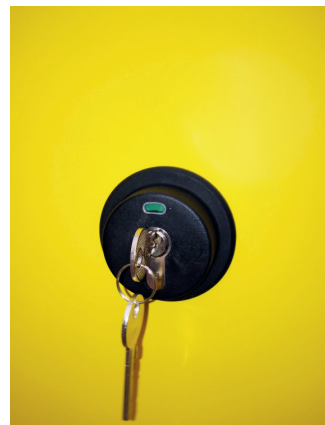
- min: 1000x2000 mm
- max: 3100x3500 mm
- Non-standard dimensions are also available.

**Technical information:****Temperature range:**

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

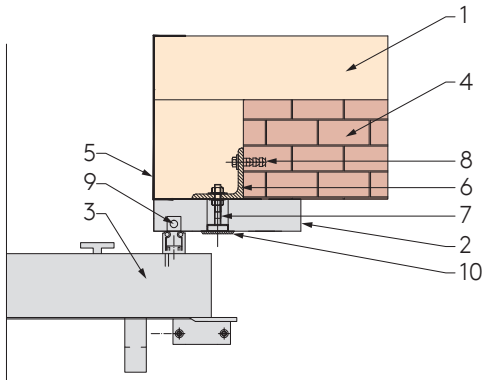
**Door leaf:**

- Door leaf thickness: 100, 120, 150 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/m<sup>3</sup> density
- Rounding gasket to seal the contact point between the door leaf and the frame.
- Heated threshold and a double threshold seal that seals the contact between the door leaf and the floor
- As options, you can order: a safe lock, an additional lever supporting opening, an automation kit, an insulated inner frame, an outer shell in a different available color, etc.



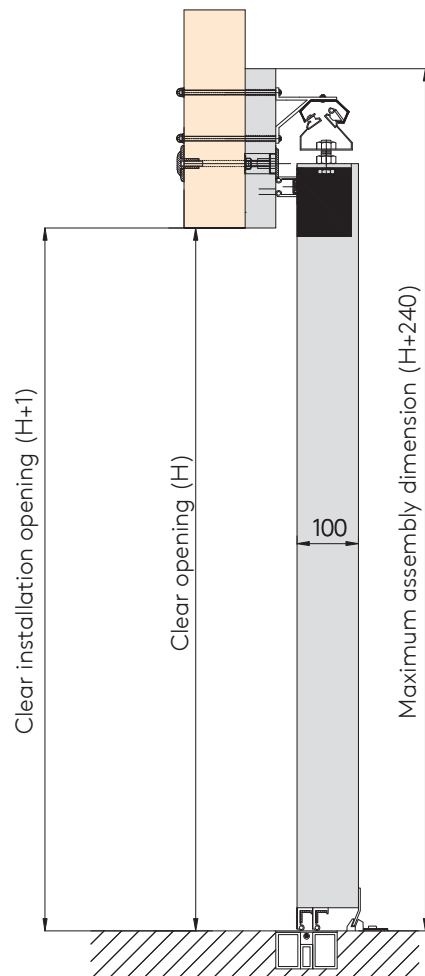
## Drawings of installation:

Traditional assembly (brickwall)  
– insulated with composite panel

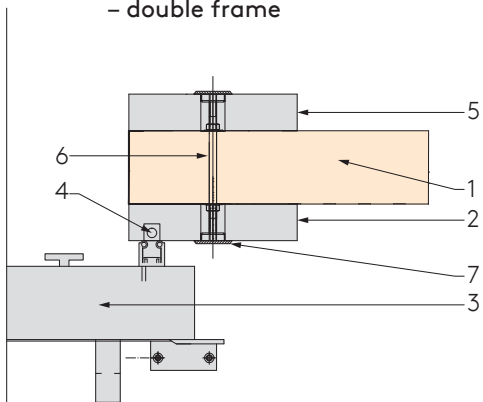


- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Flashing
- 6 - Angle bar 80x80x8
- 7 - Bolt
- 8 - Expansion anchor
- 9 - Heating wire
- 10 - Plug

Assembly to insulated wall panel  
– one-sided frame

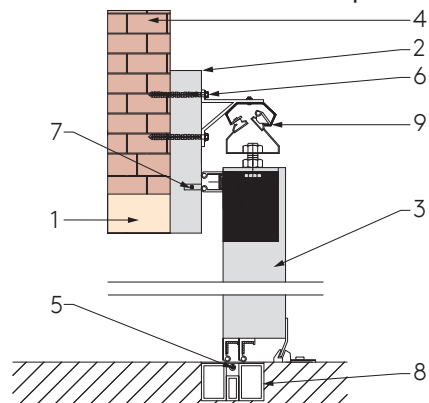


Assembly to insulated wall panel  
– double frame



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Heating wire in the frame
- 5 - Internal frame
- 6 - Ertalone rod
- 7 - Plug

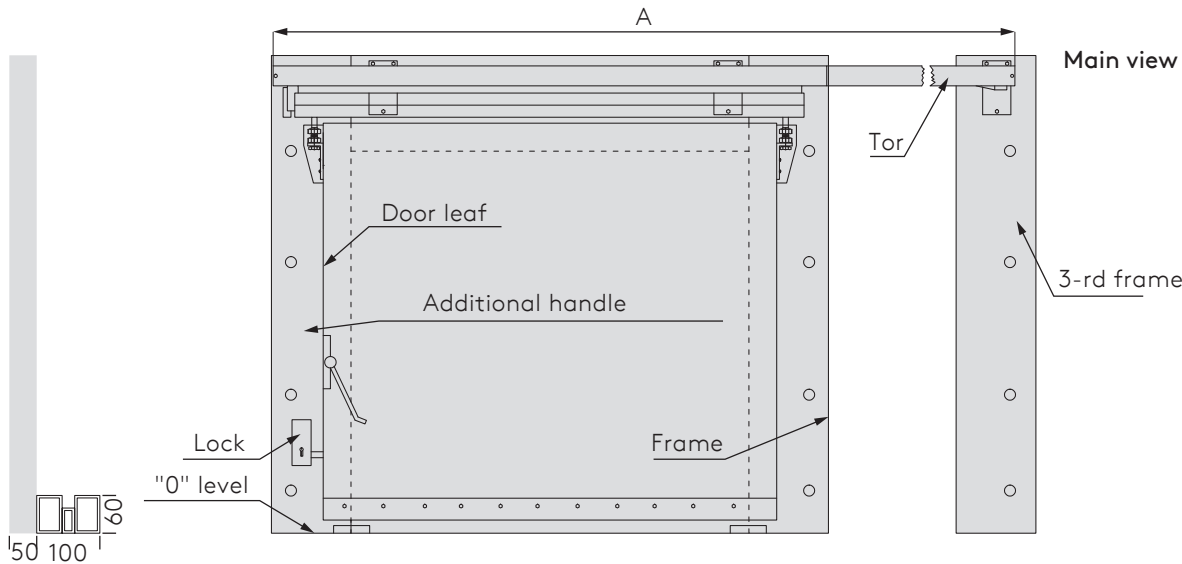
Traditional assembly (brickwall)  
– insulated with composite panel



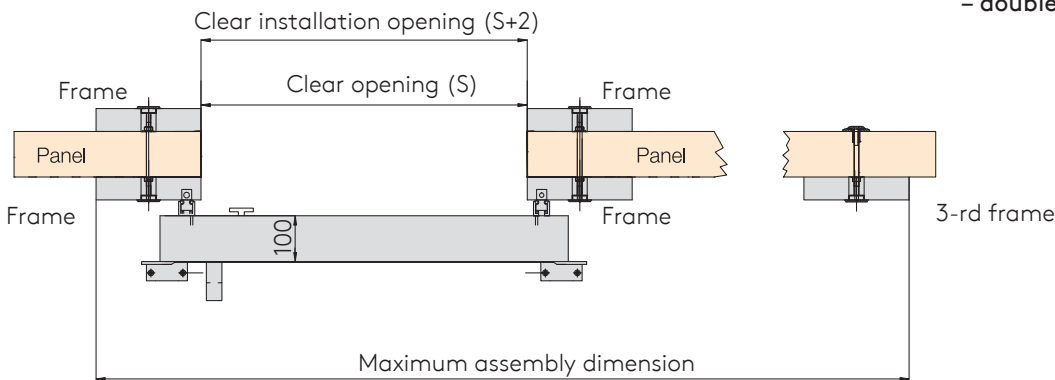
- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Heating wire in the threshold
- 6 - Wall plug or through pin (optional for low wall thickness)
- 7 - Heating wire in the frame
- 8 - Threshold
- 9 - Bottom rail

Max. width of the steel rail

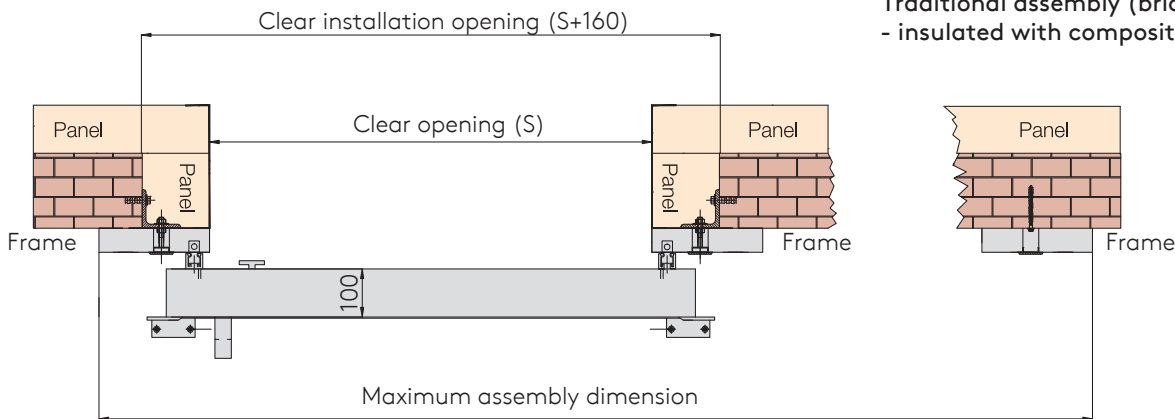
| Door width | 1600-1900 | 1901-2200 | 2201-2500 | 2501-2800 | 2801-3100 |
|------------|-----------|-----------|-----------|-----------|-----------|
| A          | 4350 (mm) | 4950 (mm) | 5550 (mm) | 6150 (mm) | 6750 (mm) |



Assembly to insulated wall panel  
- double frame



Traditional assembly (brickwall)  
- insulated with composite panel



## Installation guide:

1. Unpack the door.
2. For a description of the product and verify its compliance with the order and description (width, height, direction of opening).
3. Become familiar with this document and the assembly instructions of the rail system.
4. Check the dimensions of the hole in the wall and the space necessary for the door working recommended by the manufacturer.
5. Locate the outer doorframe (on the cross-bar frames, from the closure side, its marked the mounting point of handles of the door rail)
6. Clean and align the edges and surfaces of the prepared hole.
7. Check the floor level in the work area of the door panel. In the case of absence of the target forms on floor, should be appropriate mounting gap.
8. In the case of freezing door to check the dimensions and quality of the hole under the threshold (door light dimensions + 400 mm x 100 mm + x 60 mm). The hole should be suitably increased to allow for adequate "concreting" threshold.  
**NOTE: When the outside floor, be sure to expansion gaps between the threshold and the floor.**
9. Remove the technological bar placed between the legs of the transportation time frames (cold store doors)
10. Set the frame in a pre-selected location in the wall, where is light of door, prepared hole and immobilize.
11. Correct the errors preset frame in the hole and fix it with quick mounting brackets.
12. Determine and execute the mounting holes for rods of ertalon(mounting in to panel) or anchors (mounted to the wall).
13. Assembly the flashings in case of instalation on to panel. In case of freezer door, do additional incisions on the body chamber (cut thermal bridge) in place of mounting frames.
14. Set the frame in a selected hole, location in the light of doors eqarlier prepared and fix with quick mounting bracket. At the freezer door do you have to remember about threshold that must be set set flush with the floor and concrete.
15. Assemble the frame arms.
16. Make holes for mounting the suspension of the track
  - For the aluminum rail is marked with a point outside the bracket.
  - For steel rail is marked with the lower point of the handle
17. During installing rail system and clamps follow under the instructions that came with the rail keeping in mind that:
  - designation E is the thickness of the door leaf;
  - designation R is a overlaping door leaf on to the frame = 70mm
18. At the end of the rail system, assembly in an upright position a "third" leg of frame.
19. Assembly door leaf on to the rail system.
20. In the case of door supplied mounted on a track nickel buffers for supporting the lever to open
21. Install the lock according to the instructions provided (optional)
22. Check how is door sliding on the fram - depending on the situation, make appropriate adjustments.
23. Fill the gap between the frame and the wall (frame and panel) with silicone.
24. Plug holes.
25. In freezer doors in to electrical box, mounted on the door frame, connect the power supply 230 V with protection 3 - 5 A power supply cable in box, depending on size of door 3 x 1.5 mm. Power is used to heat the heating cable in the door frame and threshold to eliminate freeze seal. Check the power using measuring device and the surface of the frame by checking whether it is warm.
26. Remove the protective foil which protective door leaf, immediately after their installation.
27. When installing a door with automatic, assembly automation should be made by a person with appropriate permissions. Follow the instructions provided.

## 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.

Poland:

**Kingspan Sp. z o.o.**  
ul. Przemysłowa 20  
27-300 Lipsko  
tel.: +48 48 378 31 00  
fax: +48 48 378 13 30  
[www.kingspan.pl](http://www.kingspan.pl)

Estonia:

**Kingspan Eesti**  
Tel (+371) 28 393 333  
[info@kingspan.ee](mailto:info@kingspan.ee)  
[www.kingspan.ee](http://www.kingspan.ee)

Latvia:

**Kingspan Latvia**  
Kronvalda bulv. 3-1  
LV-1010 Riga  
Tel: +371 28393 333  
[info@kingspan.lv](mailto:info@kingspan.lv)  
[www.kingspan.lv](http://www.kingspan.lv)

Lithuania:

**UAB Kingspan**  
Neries kr. 16  
LT-48402, Kaunas  
Tel: +370 66 565 862  
[info@kingspan.lt](mailto:info@kingspan.lt)  
[www.kingspan.lt](http://www.kingspan.lt)

Ukraine:

**ТОВ «Кінгспан-Україна»**  
7Б Наукова, офіс 113В  
79060 м. Львів  
+38 067 538 8930  
email: [info@kingspan.ua](mailto:info@kingspan.ua)  
[www.kingspan.ua](http://www.kingspan.ua)

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