

Insulated Panels
Poland, Lithuania, Latvia, Estonia, Ukraine

Kingspan DGS1

Gas-tight (ULO) doors

Gas-tight (ULO) doors for controlled, gas-tight environments where the interior temperature range is 0°C to 16°C.

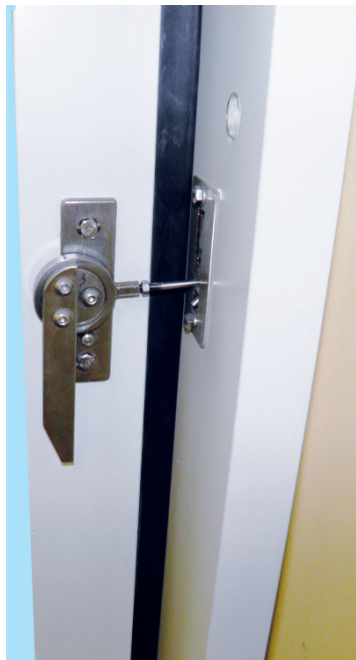


**Hardware:**

- Provided by Fermob, French leader in hardware for refrigeration industry.
- Rail raising the door leaf when opening.
- Door adjustment without disassembly.
- Sealing clamps fixed to the floor
- Additional cam clamps
- Window 700x700 mm
- Two ball valves to control the environment inside.

Standard dimensions range:

- min: 1600x2000 mm
- max.: 3100x3500 mm
- Non-standard dimensions are also available.

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

- For controlled, gas-tight environments where the interior temperature range is 0°C to 16°C

Door leaf:

- Door leaf thickness: 100 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
- As options, you can also install: a safe lock with a key, a lever that supports opening, PVC buffers

Door frame:

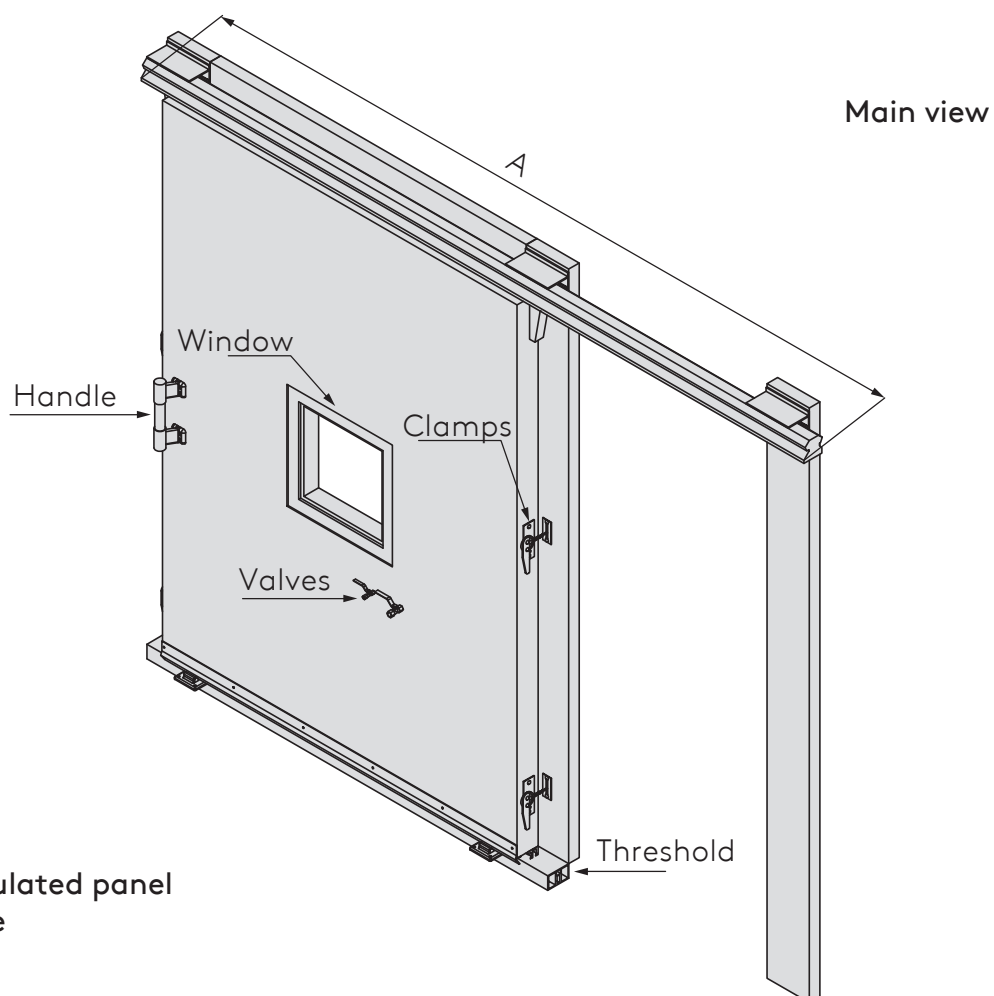
- Fitted onto the opening.
- Galvanized steel covered with 25 µm PES coating in R9002/R9010; protection foil,
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density,
- One or double frame (interior/exterior) depending on doors size,
- Threshold for concreting.



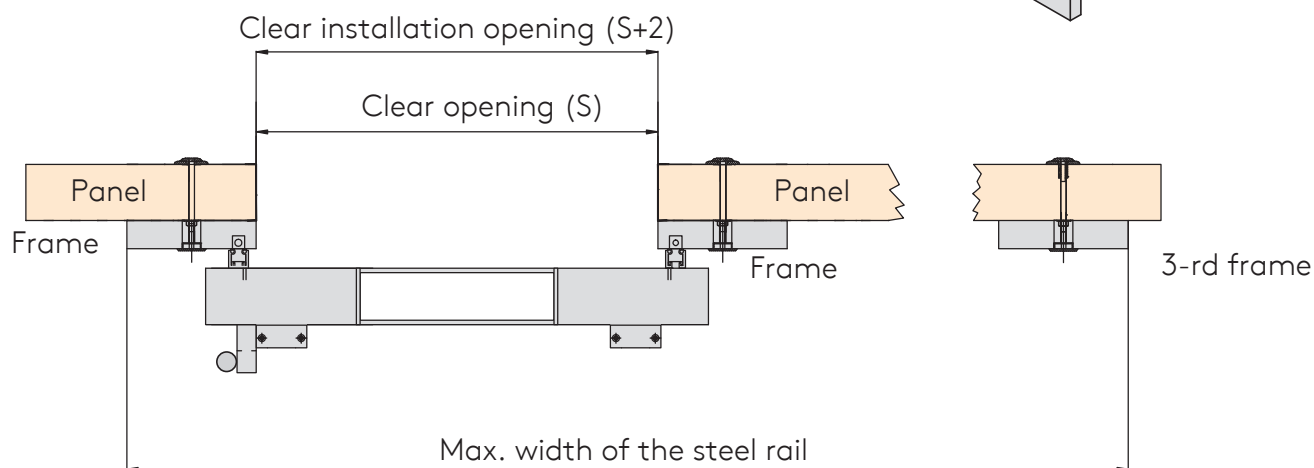
Drawings of installation:

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)

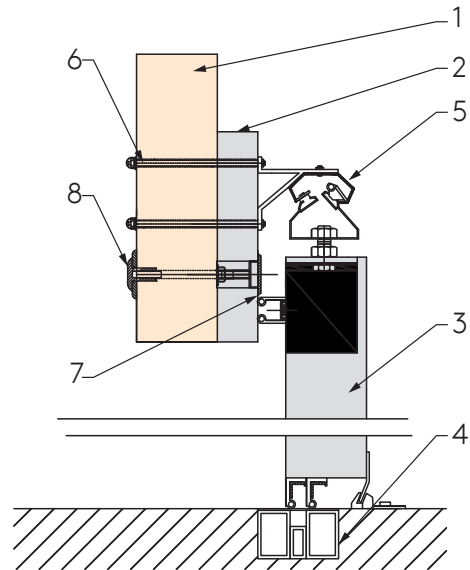


Assembly to insulated panel
one-sided frame



Assembly to insulated panel-one sided frame

- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Threshold
- 5 - Rail
- 6 - M10 metal rod
- 7 - Plug
- 8 - "Castel Cool" bolt



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 installation on to panel.
 14. Set the frame in a selected hole, location in the light of doors eqarlier prepared and fix with quick mounting bracket. On ULO 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. Use silicone or other sealant and carefully seal all openings between frames a panel;
 23. Check how is door sliding on the fram - depending on the situation, make appropriate adjustments.
 24. Fill the gap between the frame and the wall (frame and panel) with silicone.
 25. Plug holes.
 26. Remove the protective foil which protective door leaf, immediately after their installation.
 27. Follow the instructions provided.

Maintenance:

Recommendations:

- At least twice a year you should smear lubricant on all hinges and a lock.
- At least twice a year you should preserve gasket with a substance for sealant preservation.
- You should fill in a loss of lacquer or zinc layer (which has been caused by scratches) to prevent the product from corrosion. Losses should be filled in with commonly-used anticorrosion paints.
- For door should not act directly to weather conditions (rain, snow, sun) and should be protected at least a roof that protects for mention conditions.

Transport and storage of doors:

- You should exercise extreme caution while door transport and storage.
- Loading room should be clean and no sharp elements should stick out of the floor and walls to prevent doors from damage.
- Doors for transport (storage) should be laid vertically (separately) or horizontally – maximum 5 layers separated with a protective separator (standard-sized doors are packed in a carton box). In cases of big-sized doors, transport and storage should be arranged on a special rack.
- Doors that have been loaded on a truck should be belted to the vehicle in such a way that stability is ensured and goods are prevented from movement and damages during transport.
- Storage place should be dry and airy; apart from this it should shelter doors from rain, snow and sunlight.

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