

# Kingspan Controlled Environments Doors & Chambers

Cold storage and freezer doors | Gas-tight (ULO) doors | Service and swing doors  
Cold storage and freezer chambers (camlock)



Kingspan Insulated Panels, part of the Kingspan Group Plc, has established a leading global position in design and manufacture of high quality Insulated Roof, Wall and Facade Systems for the construction industry.

Kingspan has considerable knowledge in controlled environments sector which is proven by successfully completed projects for some of the largest brand names who operate in the retail, food supply chain, confectionery, distribution, logistic and food processing.

Our Technical and Construction design support is available to investors, architects and contractors in any phase of project design and execution.



Cold store product range includes:

- roof systems;
- wall and facade systems;
- panel system for buildings with temperature controlled environments;
- cold storage and freezer doors, hinged and sliding, also flush doors;
- gas-tight (ULO) sliding doors;
- cold storage and freezer chambers;
- accessories.

Kingspan insulated sandwich panels systems offer a wide range of construction solutions for roofs, walls and suspended ceilings in buildings where full control of the atmosphere or indoor temperature must be ensured (i.e. food processing buildings, fruit storages, warehouses, distribution centers, cold stores, freezers, pharmaceutical and biotechnology companies). Sandwich panels are also used wherever high hygienic standards are required.

### Cold storage doors

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**FIREsafe™**

Off-site factory pre-engineered,  
single component & single fix site  
installation

POWERED BY  
**QuadCore™**  
TECHNOLOGY

**Kingspan.**



## Cold storage doors KINGSPAN DCH1

### Hinged, single leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- Double frame (interior/exterior) for installation in insulated panel walls
- One-sided for traditional assembly

#### Hardware:

- Locks provided by Fermod, French leader in hardware for refrigeration industry
- Rising hinges provided by STUV, German leader in cold store door equipment
- Safety lock with key
- Door adjustment with out disassembly

#### Standard dimensions range:

- Min: 700x1800 mm
- Max: 1500x2600 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Internal frame
- Other, non-standard dimensions
- Steel threshold to accommodate floor level difference (interior/exterior), INOX threshold (up to 1200 mm) applied on floor
- Window
- Bumpers
- Meat-Rail adjusted



Lock mechanism



Hinge



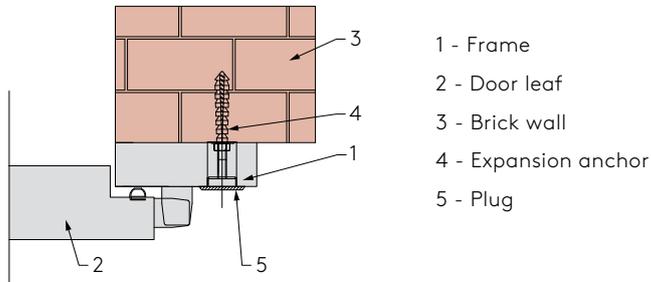
Lock mechanism (inside)



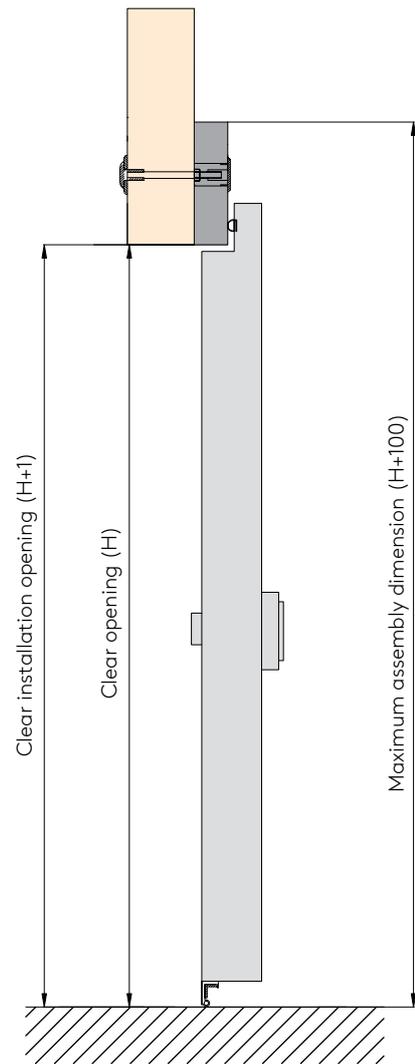
Lock mechanism (non standard option)



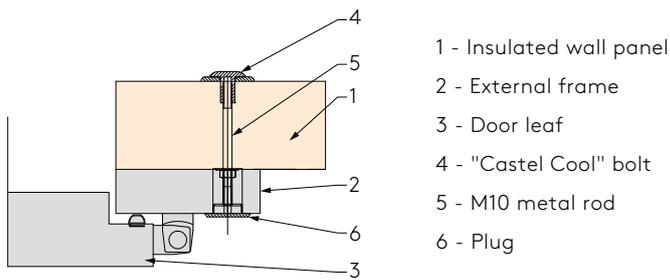
Traditional assembly (brickwork)



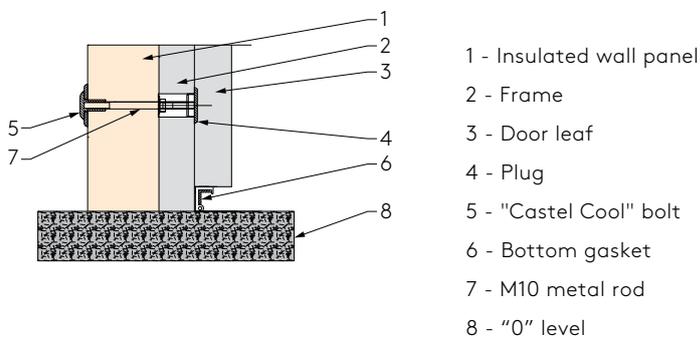
Assembly to wall panel



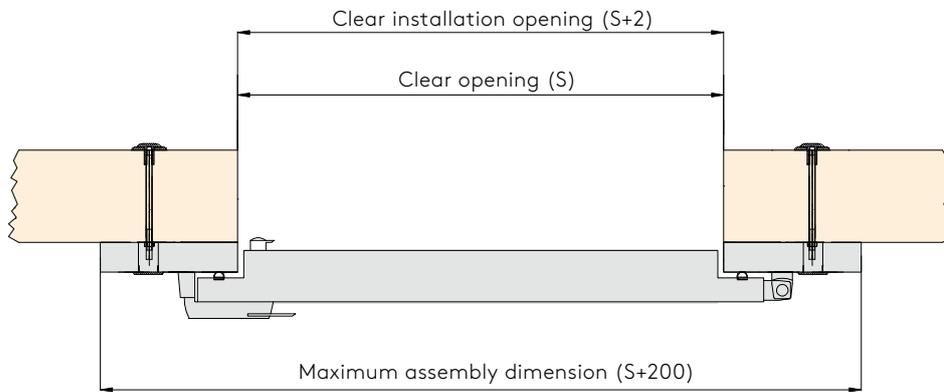
Assembly to insulated wall panel – one frame



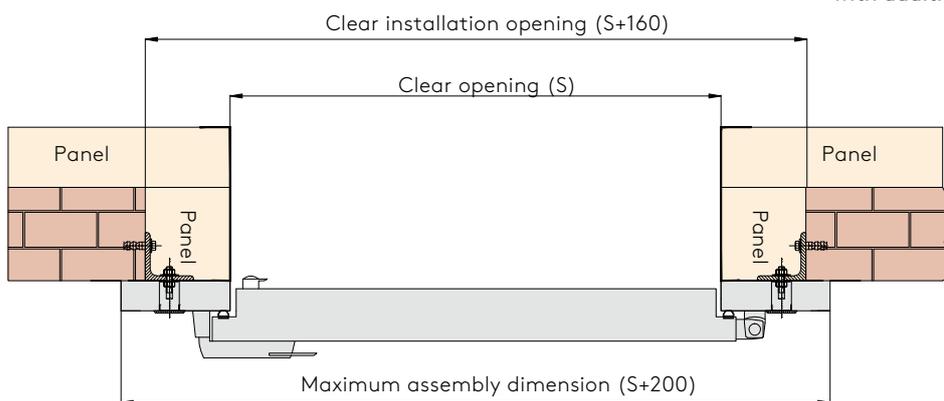
Assembly to insulated wall panel - threshold



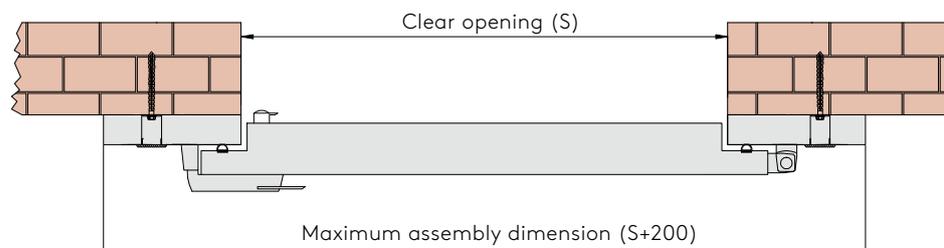
Assembly to insulated wall panel - one frame



Traditional assembly (brickwork) with additional insulation



Traditional assembly (brickwork)



## Cold storage flush doors KINGSPAN DFCH1

### Hinged, single leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 42 kg/m<sup>3</sup> 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

#### Door frame:

- One side exterior, made of aluminium, not insulated
- For assembly to insulated panel wall using appropriate flashings from internal side

#### Hardware:

- Lock - provided by FERMOD
- Standard steel hinges
- Screws and flashings for installation

#### Standard dimensions range:

- Min: 600x1800 mm
- Max: 1200x2100 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating
- For interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Window
- PVC bumpers
- Typical lock insert by renowned polish supplier GERDA
- Meat-Rail adjusted



Lock mechanism



Lock mechanism - inside



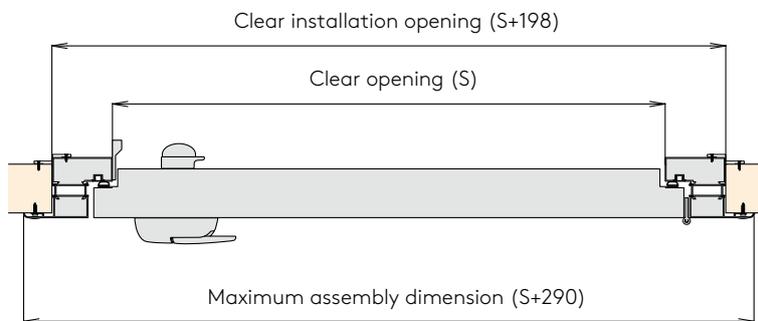
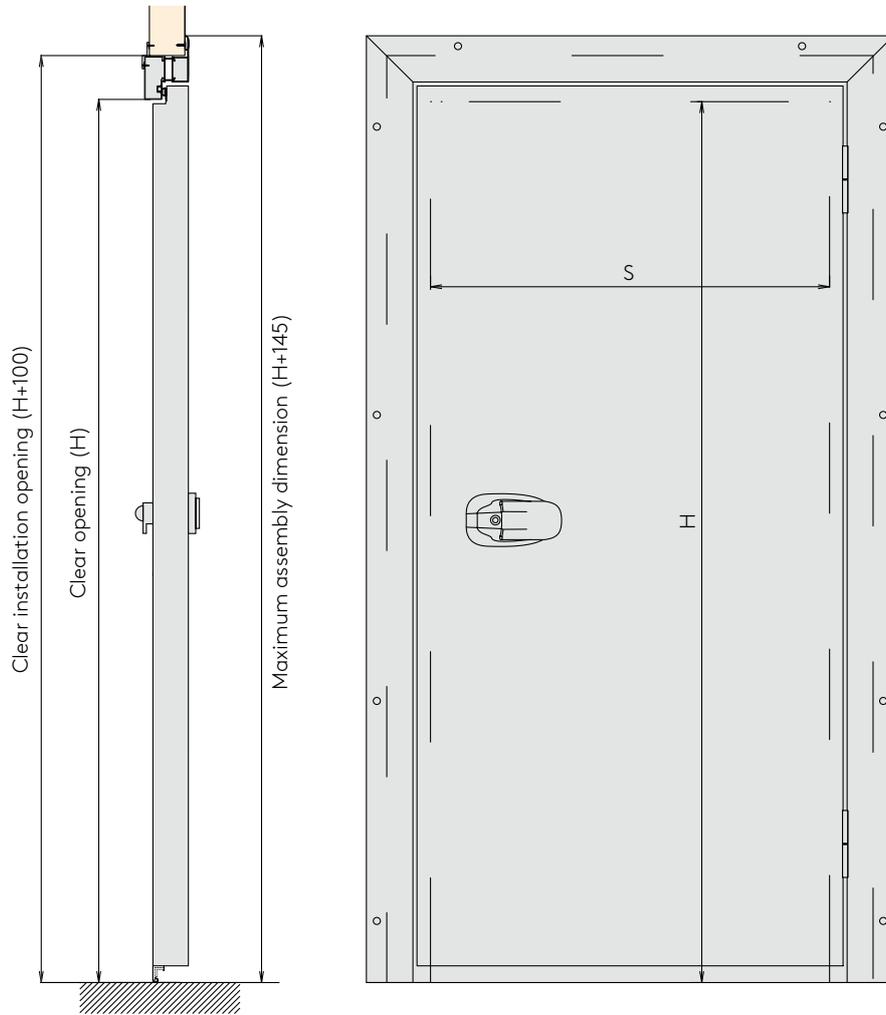
Hinge



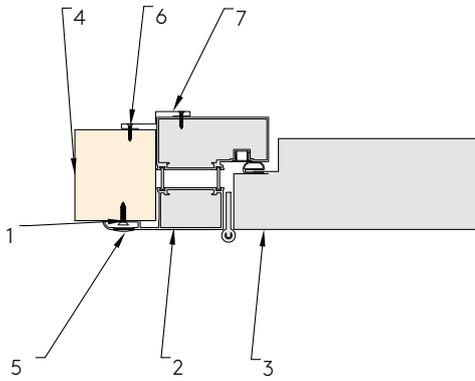
Polished aluminum frame



Lock with handle (option)

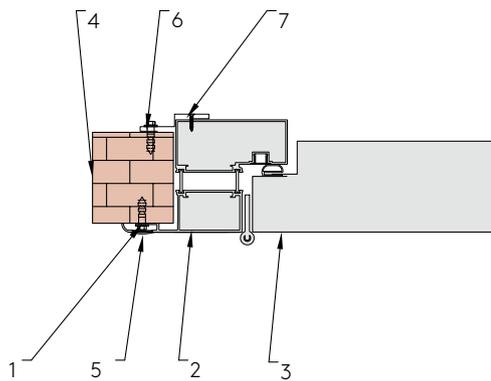


**Assembly to insulated panel**



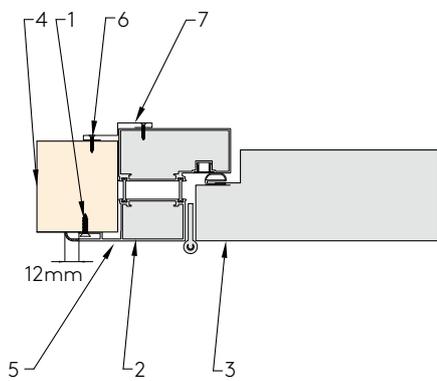
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

**Traditional assembly (brickwork)**



- 1 - Lag screw
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Plug
- 6 - Screw
- 7 - Flashing

**Cut out frame**



- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

## Cold storage doors KINGSPAN DCH2

### Hinged, double leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- One side exterior, made of aluminium, not insulated
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- For assembly to insulated panel wall using appropriate flashings from internal side



#### Hardware:

- Lock - provided by STUV
- Rising hinges provided by STUV
- Screws and flashings for installation

#### Standard dimensions range:

- Min: 1000x2000 mm
- Max: 2400x2900 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Window
- Steel threshold to accommodate floor level difference (interior/exterior)
- PVC bumpers
- Meat-Rail adjusted



Safety lock



Inside view



Hinge

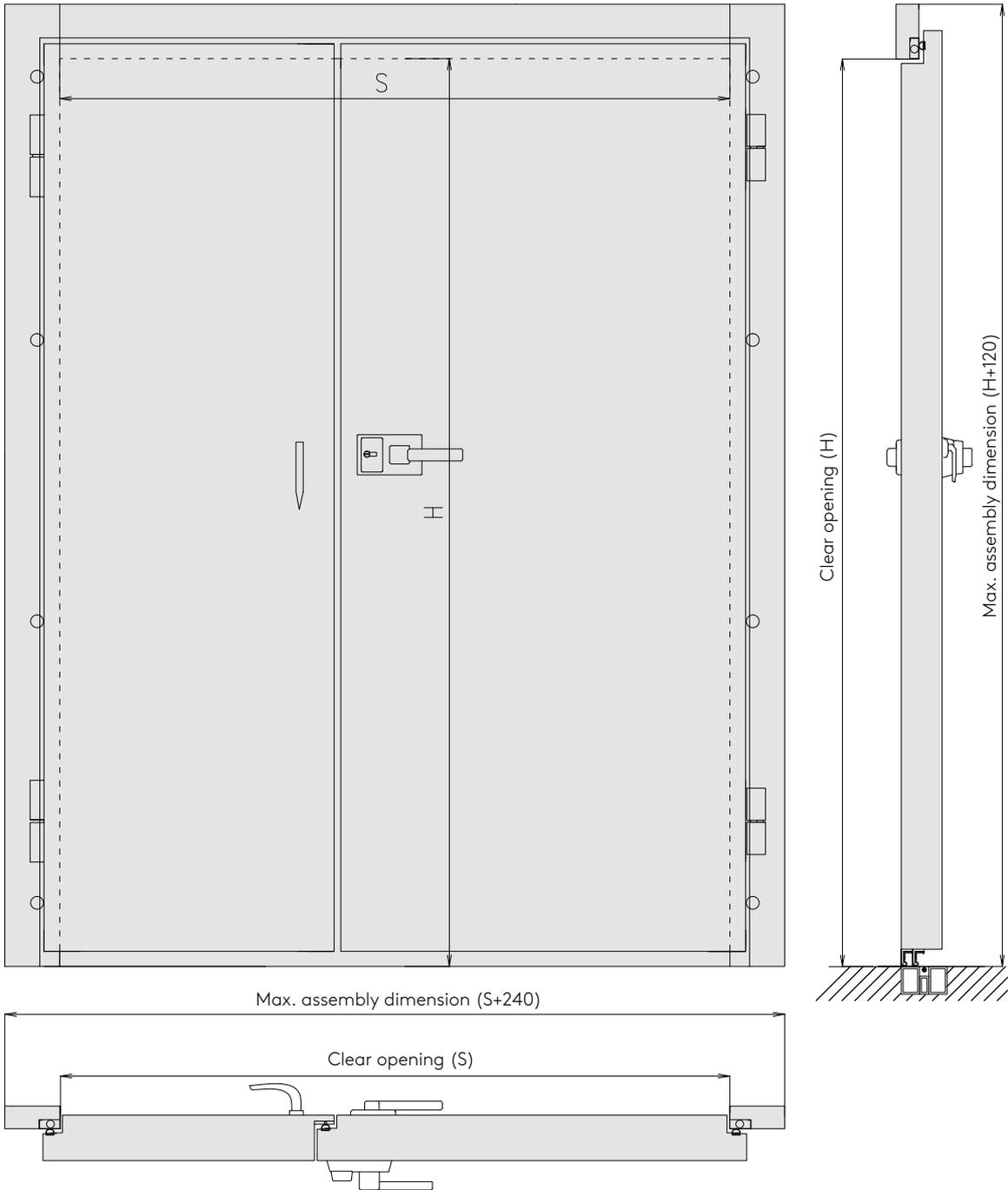


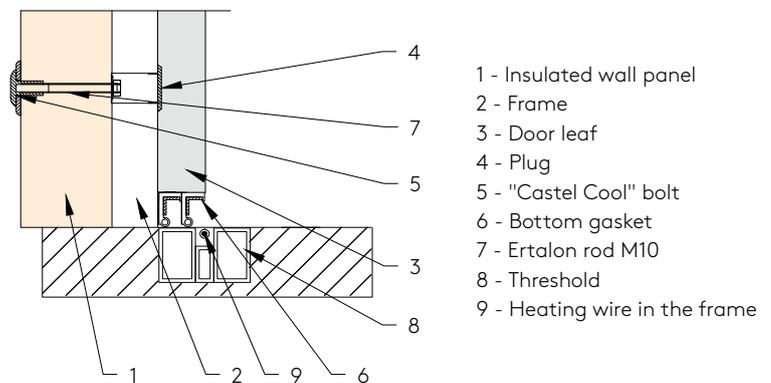
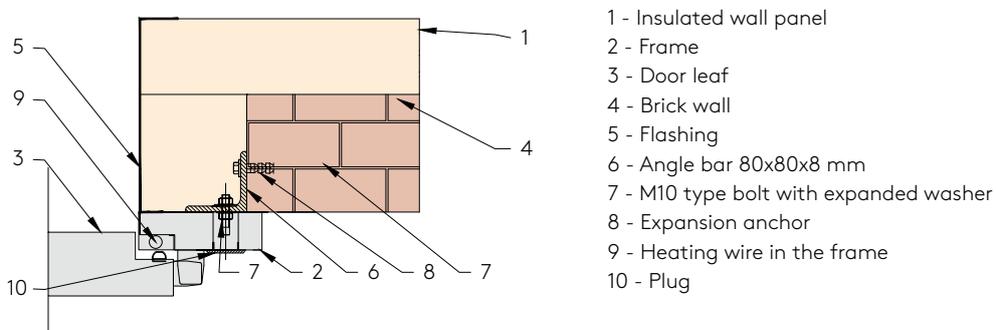
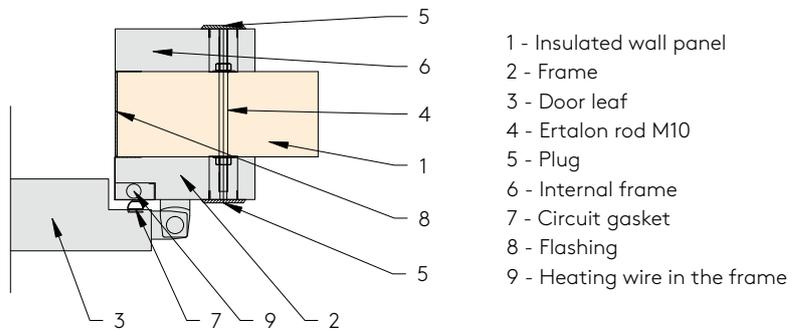
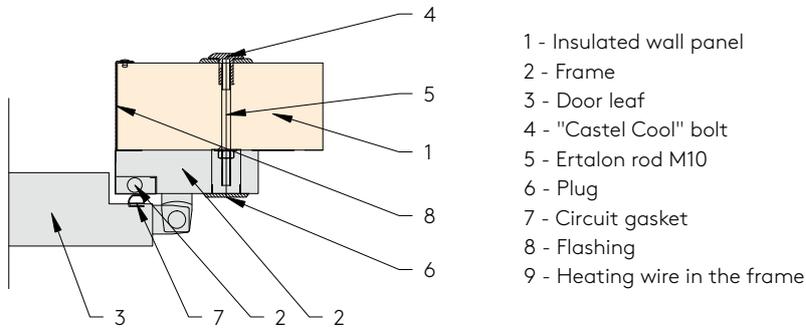
Passive leaf blockade



Locking element on the frame







## Cold storage flush doors KINGSPAN DFCH2

### Hinged, double leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- One side exterior, made of aluminium, not insulated
- For assembly to insulated panel wall using appropriate flashings from internal side

#### Hardware:

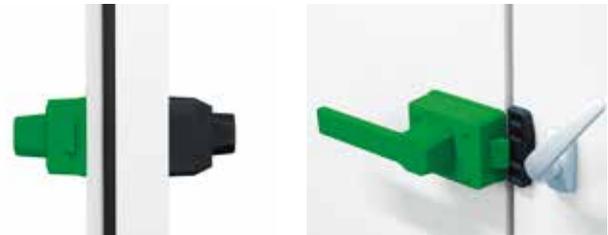
- Lock - provided by STUV
- Standard steel hinges
- Passive leaf blockade
- Screws and flashings for installation

#### Standard dimensions range:

- Min: 1000x2000 mm
- Max: 2400x2900 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Window
- Door leaf 100 mm
- PVC bumpers
- Meat-Rail adjusted



Lock mechanism



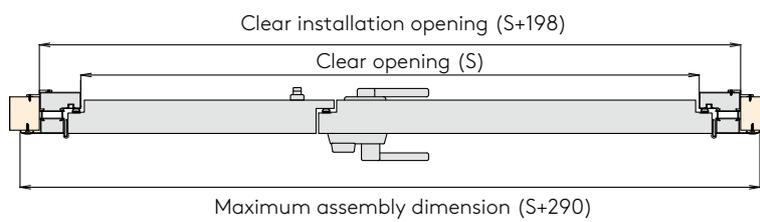
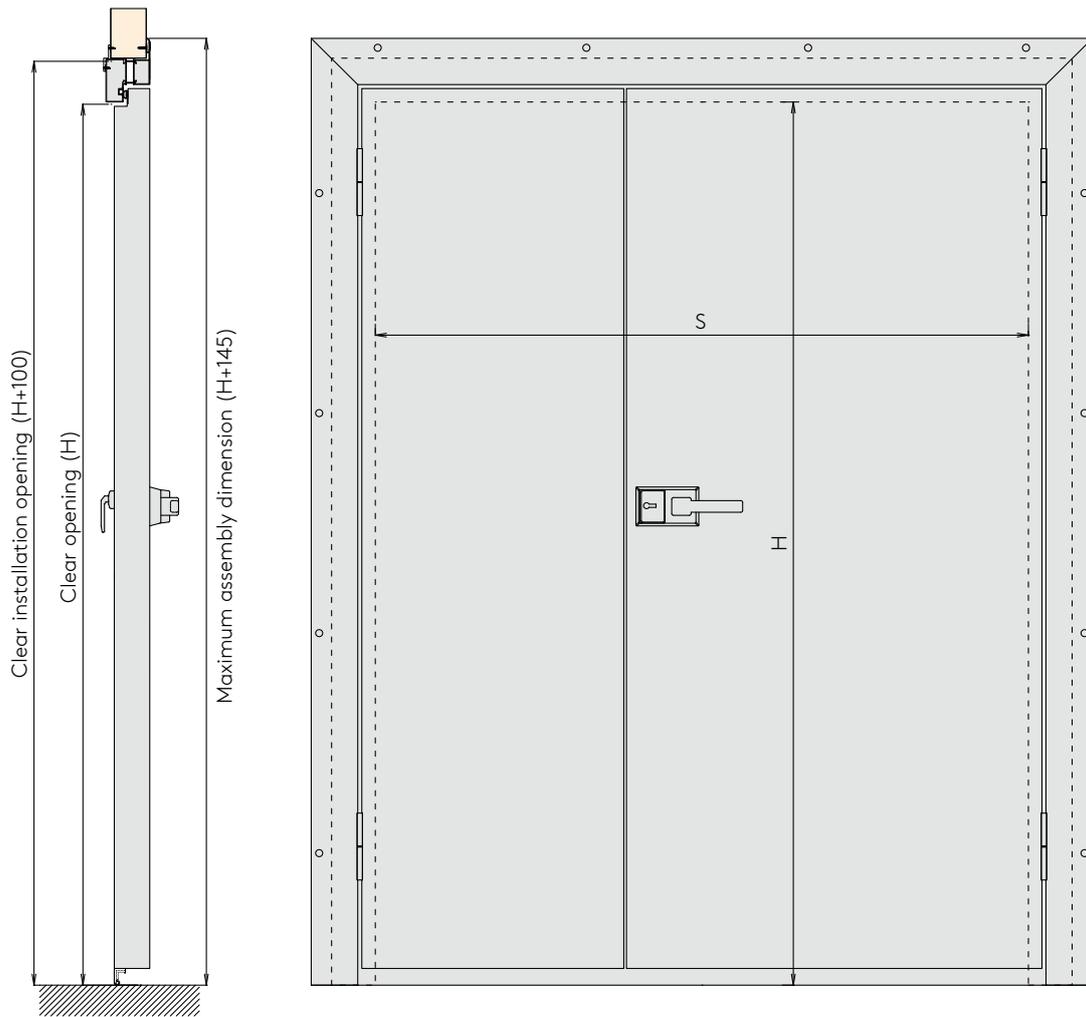
Hinge



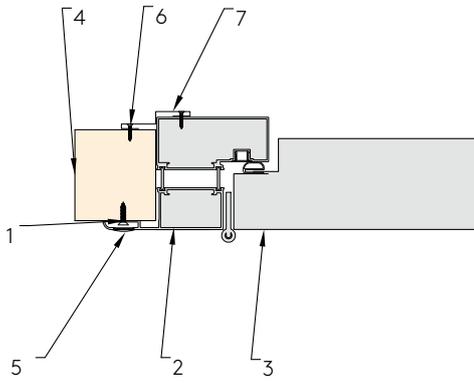
Inside view



Cut out door frame

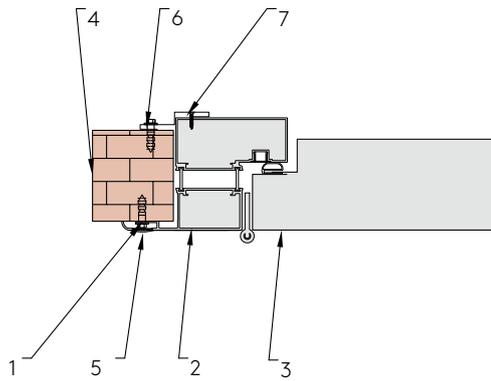


**Assembly to insulated panel**



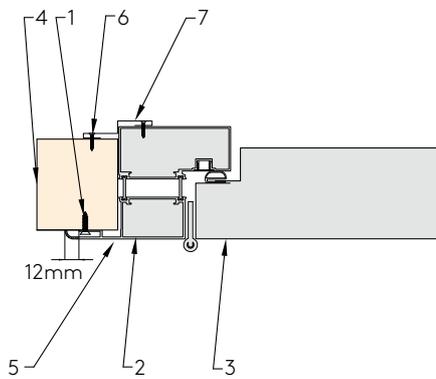
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

**Traditional assembly (brickwork)**



- 1 - Lag screw
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Plug
- 6 - Screw
- 7 - Flashing

**Cut out frame**



- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

## Cold storage doors KINGSPAN DCS1

### Sliding, single leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- Single or double frame depending on door size

#### Hardware:

- Provided by Fermod, French leader in hardware for refrigeration industry
- Holdfasts mounted in the floor
- Door adjustment with out disassembly

#### Standard dimensions range:

- Min: 1000x2000 mm
- Max: 3100x3500 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Safety lock with key
- Other, non-standard dimensions
- Window
- PVC bumpers
- Automation - wall and pull-up switches
- Meat-Rail adjusted



Lock (outside)



Lock (inside)



Handle (outside)



Door leaf suspension

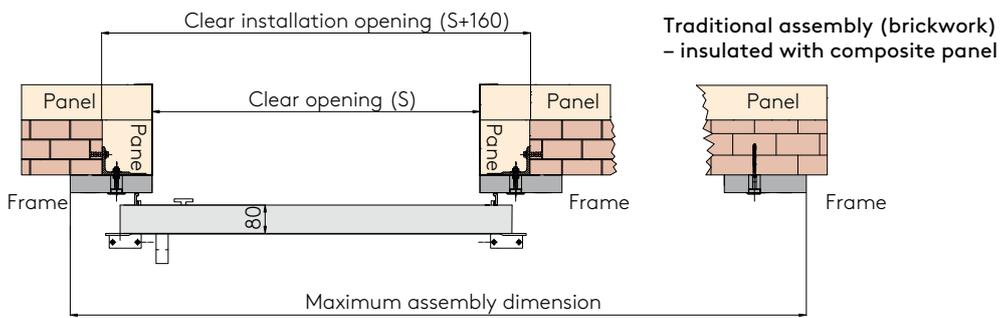
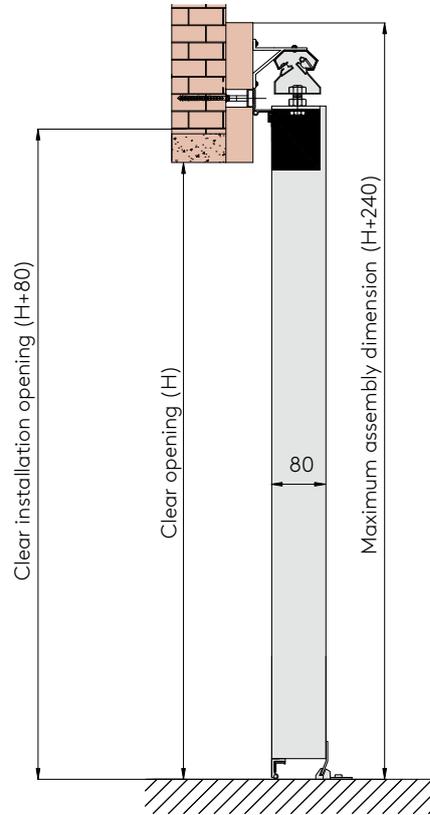


Lock (inside) for door with automation

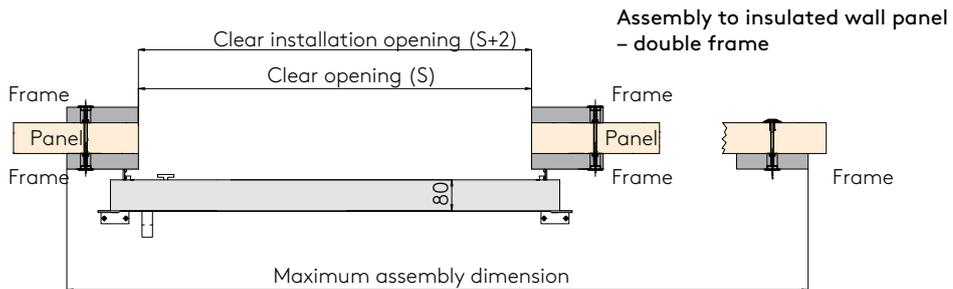


Bottom track element

Traditional assembly (brickwork)  
- insulated with composite panel

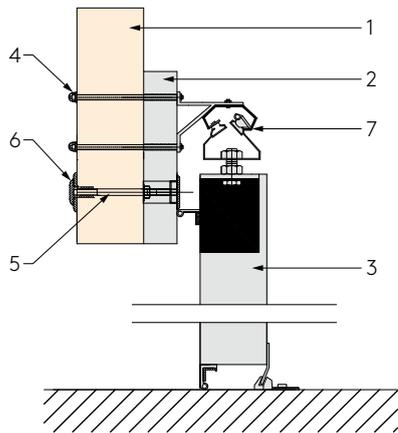


Traditional assembly (brickwork)  
- insulated with composite panel



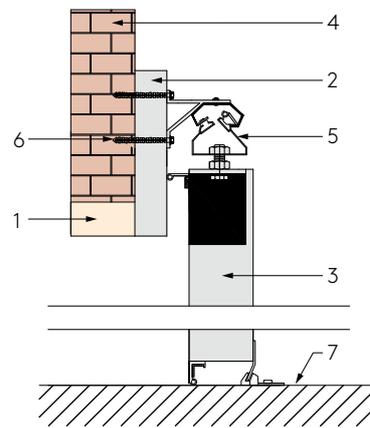
Assembly to insulated wall panel  
- double frame

Assembly to insulated panel, aluminum rail - one-sided frame



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

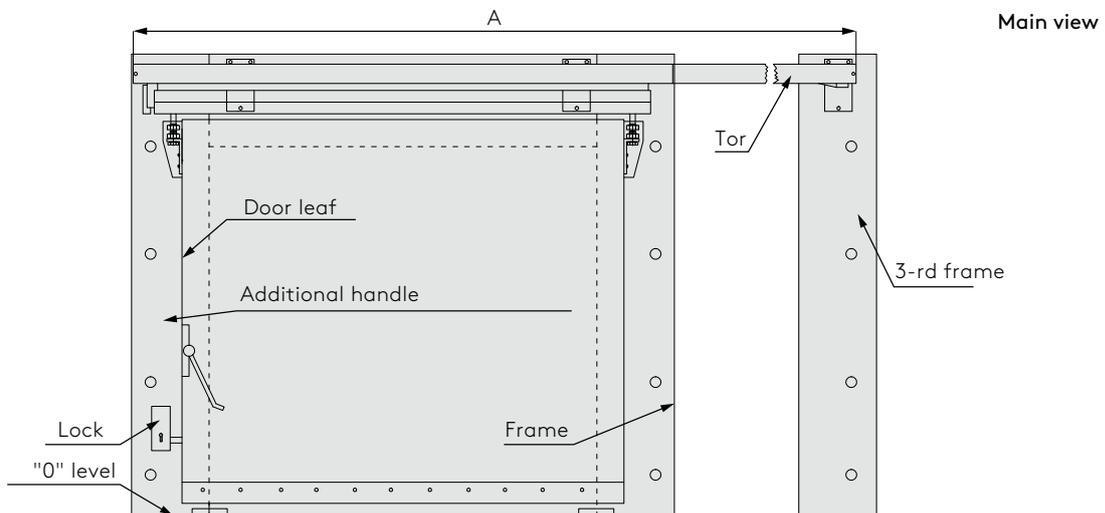
Traditional assembly (brickwork)



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Rail
- 6 - Expansion anchor
- 7 - "0" level

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)



## Cold storage doors KINGSPAN DCS2

### Sliding, double leaf

For use in buildings where the required interior temperature range is 0°C to +16°C

U=0,29 W/m<sup>2</sup>K (80 mm), U=0,23 W/m<sup>2</sup>K (100 mm)

#### Door leaf:

- 80 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- Single or double frame depending on door size

#### Hardware:

- Provided by Fermod, French leader in hardware for refrigeration industry
- Holdfasts mounted in the floor
- Door adjustment with out disassembly

#### Standard dimensions range:

- Min: 1500x2000 mm
- Max: 2450x2900 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Window
- PVC bumpers
- Safety lock with key
- Automation - wall and pull-up switches



Lock (outside)



Lock (inside)



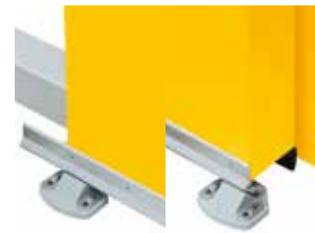
Handle (outside)



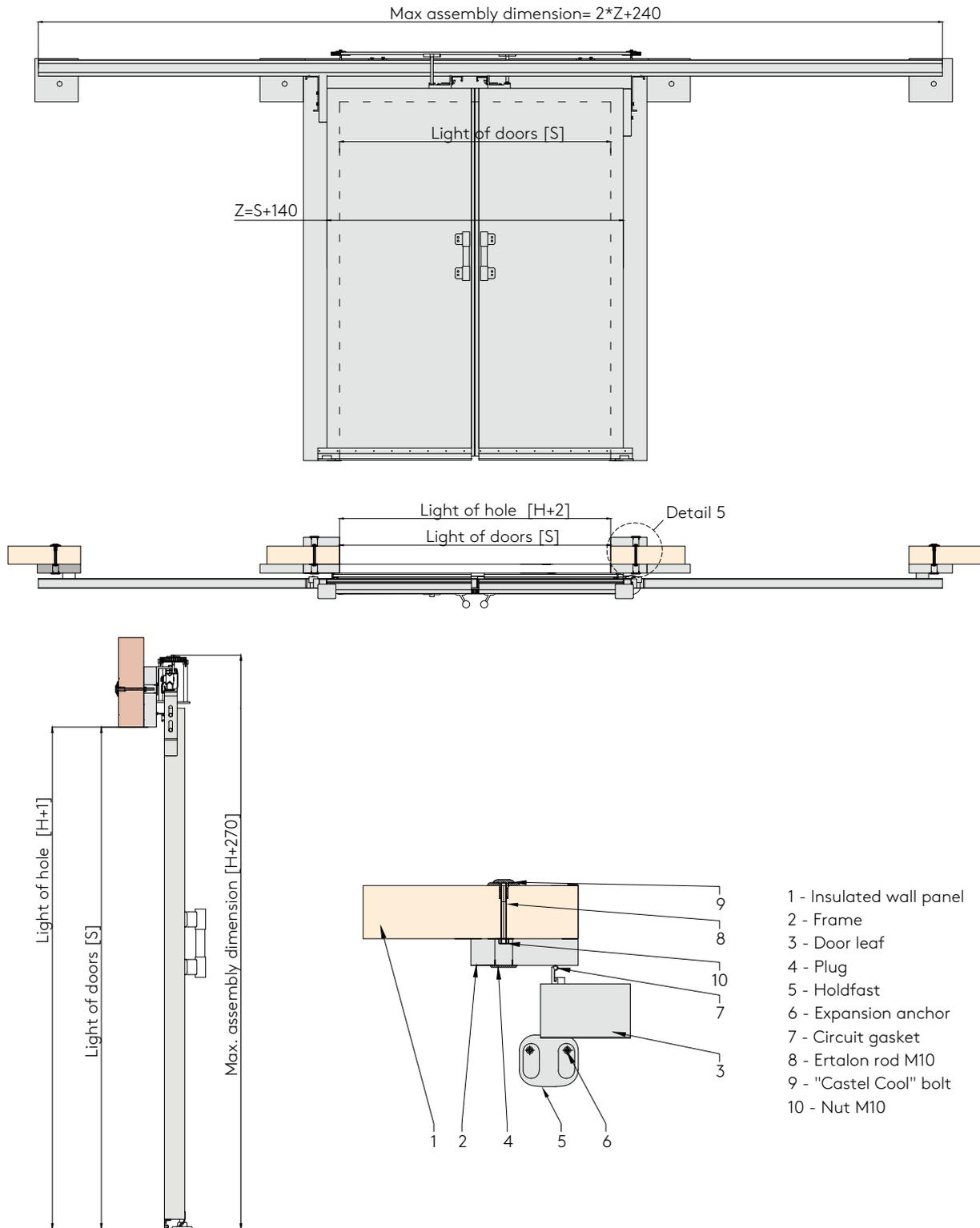
Door leaf suspension

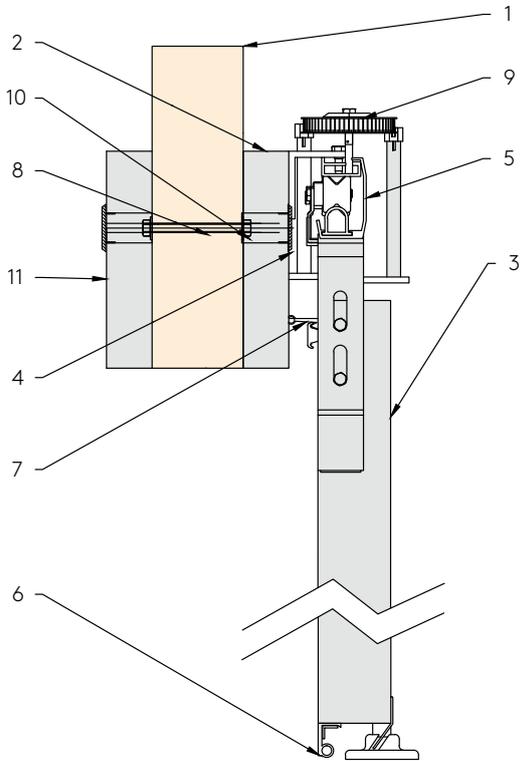


Lock (inside) for door with automation



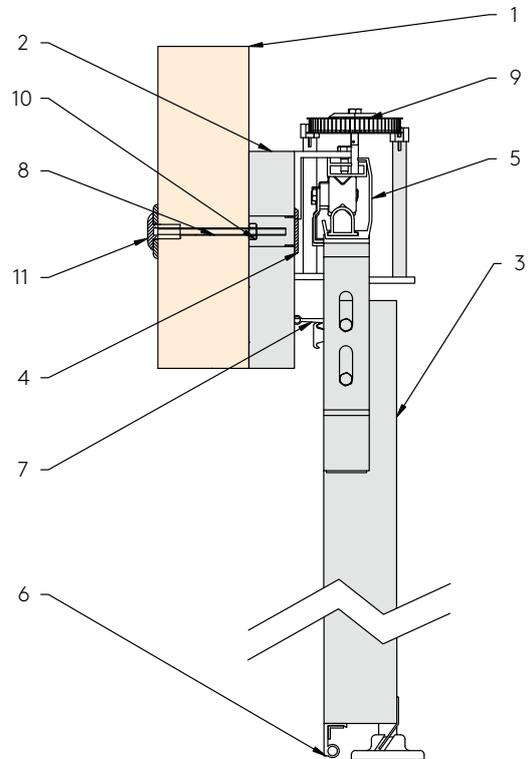
Bottom track element





- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Rail
- 6- Bottom gasket
- 7 - Circuit gasket
- 8 - Ertalon rod M10
- 9 - Roll with belt
- 10 - Nut M10
- 11 - Interior frame

- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Rail
- 6- Bottom gasket
- 7 - Circuit gasket
- 8 - Ertalon rod M10
- 9 - Roll with belt
- 10 - Nut M10
- 11 - "Castel Cool" bolt



## Freezer doors KINGSPAN DFH1

### Hinged, single leaf

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

U=0,23 W/m<sup>2</sup>K (100 mm), U=0,19 W/m<sup>2</sup>K (120 mm)

#### Door leaf:

- 100 mm (up to -25°C) , 120 mm (up to -35°C)
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- One-sided for traditional assembly
- Fitted with heating wire

#### 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

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Steel threshold to accommodate floor level difference (interior/exterior, INOX treshold (up to 1200 mm) applied to the floor
- Window
- PVC bumpers
- Interior frame
- Meat-Rail adjusted



Lock mechanism

View (inside)



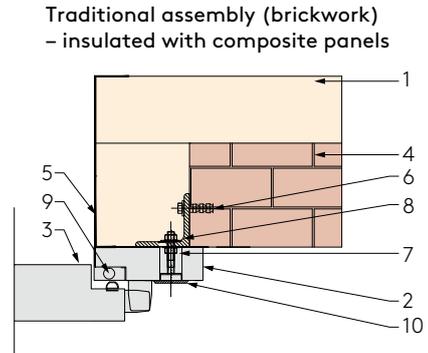
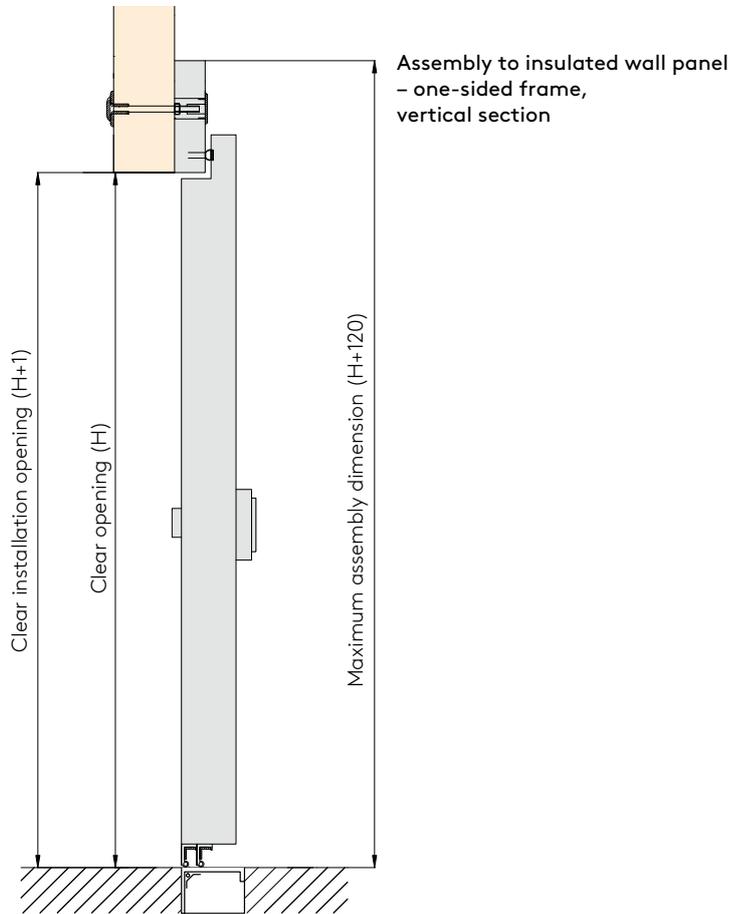
View of the heating cable sheath



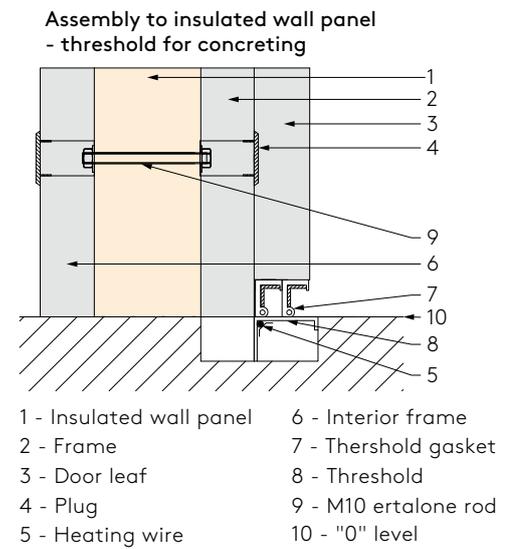
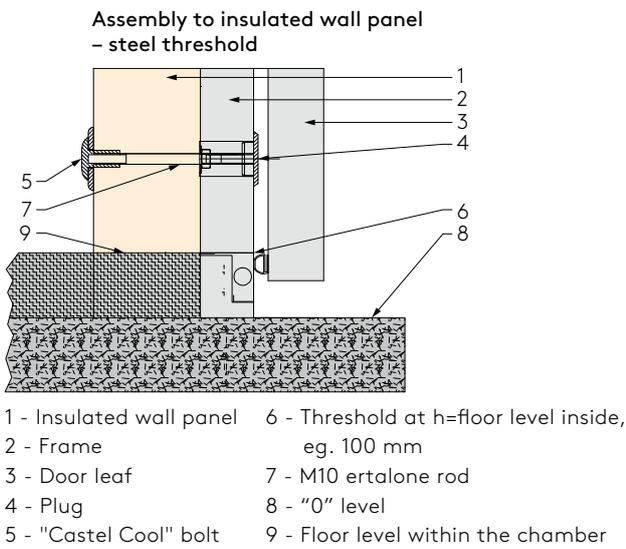
INOX treshold

Steel threshold

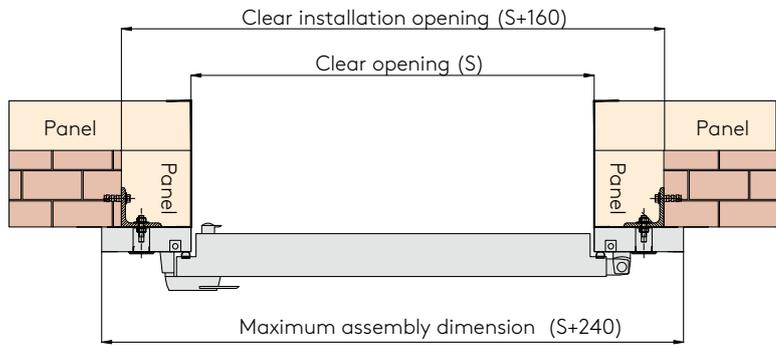




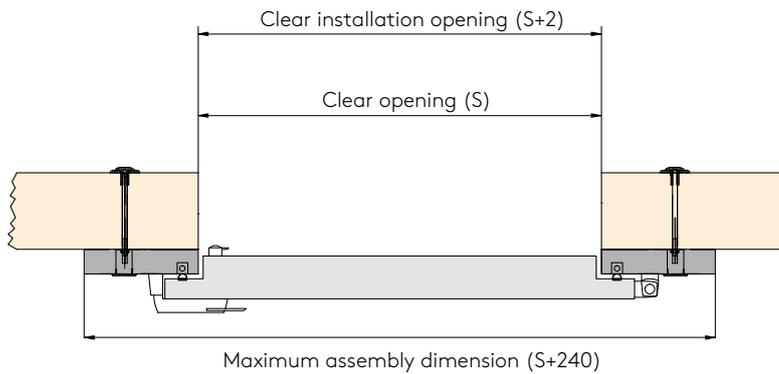
- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brick wall
- 5 - Flashing
- 6 - Expansion anchor
- 7 - M10 type bolt with expanded washer
- 8 - Angle bar 80x80x8 mm
- 9 - Heating wire in the frame
- 10 - Plug



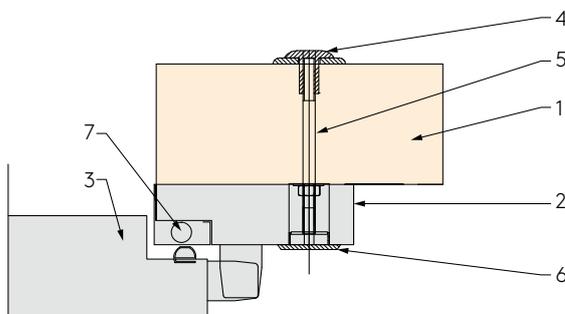
**Traditional assembly (brickwork)  
- insulated with composite panels**



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



**Assembly to insulated wall panel  
- one-sided frame**



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - "Castel Cool" bolt
- 5 - M10 ertalone rod
- 6 - Plug
- 7 - Heating wire in the frame

## Freezer flush doors KINGSPAN DFFH1

### Hinged, single leaf

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

$U=0,23 \text{ W/m}^2\text{K}$  (100 mm)

#### Door leaf:

- 100 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- One side exterior, made of aluminium, not insulated
- For assembly to insulated panel wall using appropriate flashings from internal side
- Heating wire in frame and threshold

#### Hardware:

- Lock - provided by FERMOD
- Standard steel hinges
- Screws and flashings for installation

#### Standard dimensions range:

- Min: 600x1800 mm
- Max: 1200x2100 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- PVC bumpers
- Meat-Rail adjusted



Lock mechanism



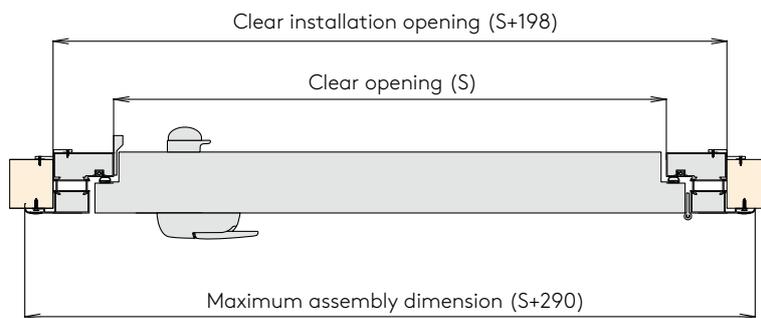
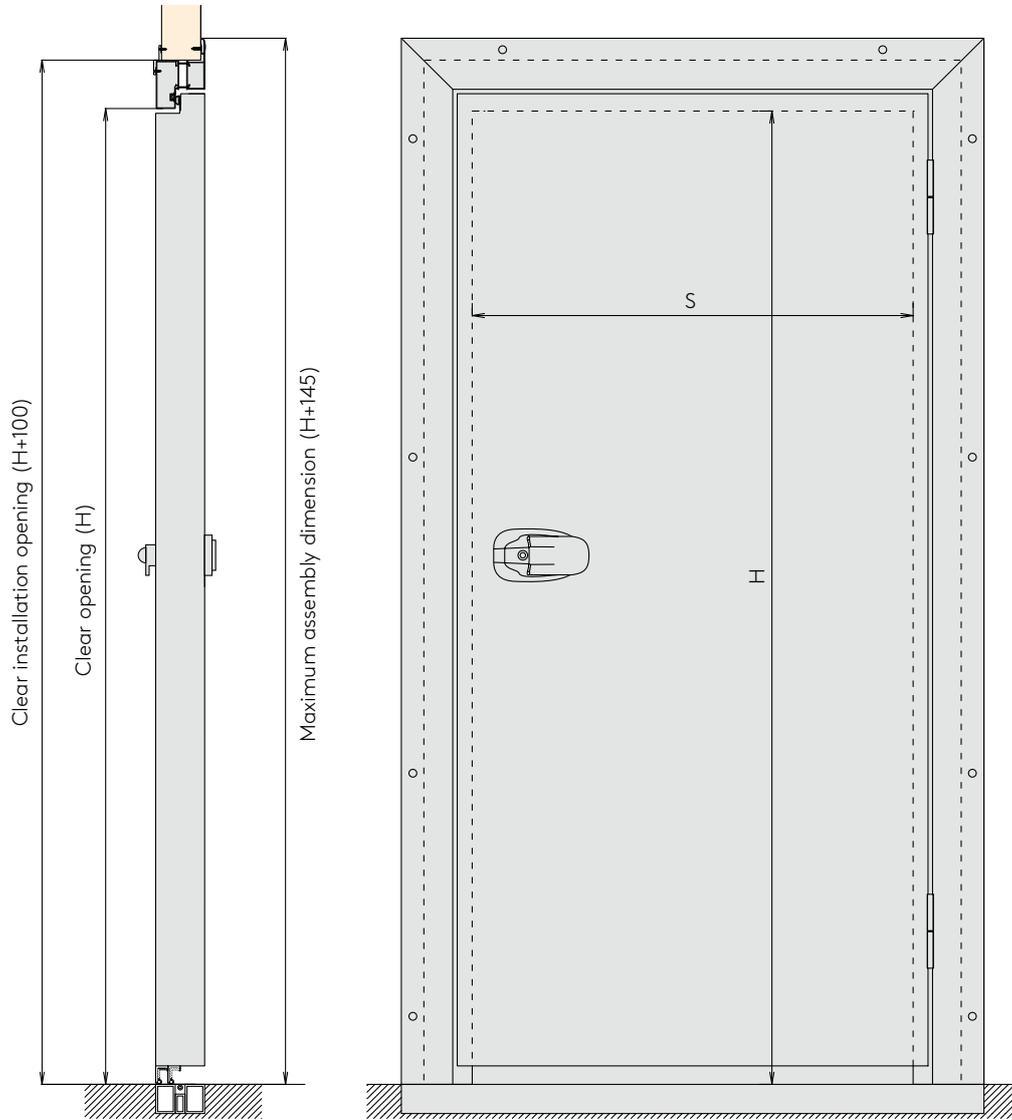
Lock mechanism (inside)



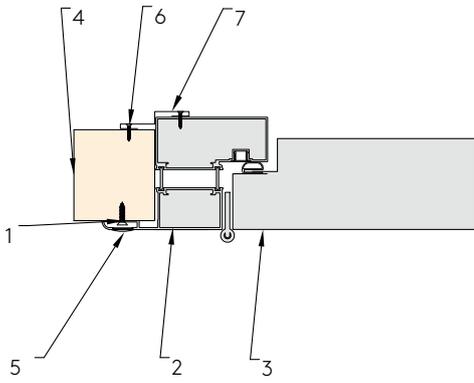
Hinge



Cut out door frame

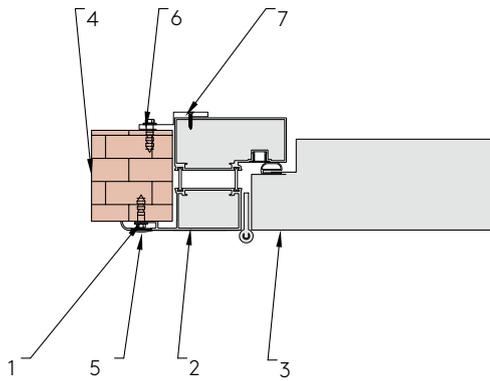


Assembly to insulated panel



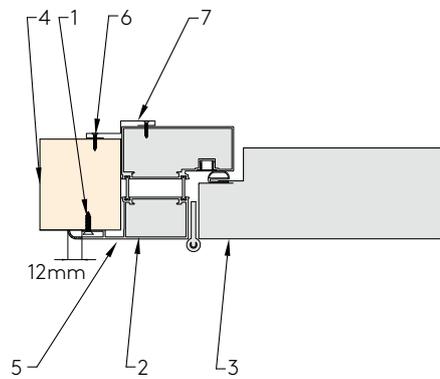
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

Traditional assembly (brickwork)



- 1 - Lag screw
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Plug
- 6 - Screw
- 7 - Flashing

Cut out frame



- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

## Freezer doors KINGSPAN DFH2

### Hinged, double leaf

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

**U=0,23 W/m<sup>2</sup>K (100 mm)**

#### Door leaf:

- 100 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold
- Asymmetrical split of door leaves

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- One-sided for traditional assembly
- Fitted with heating wire

#### Hardware:

- Safety lock by STUV
- Rising hinges provided by STUV
- Door adjustment without disassembly

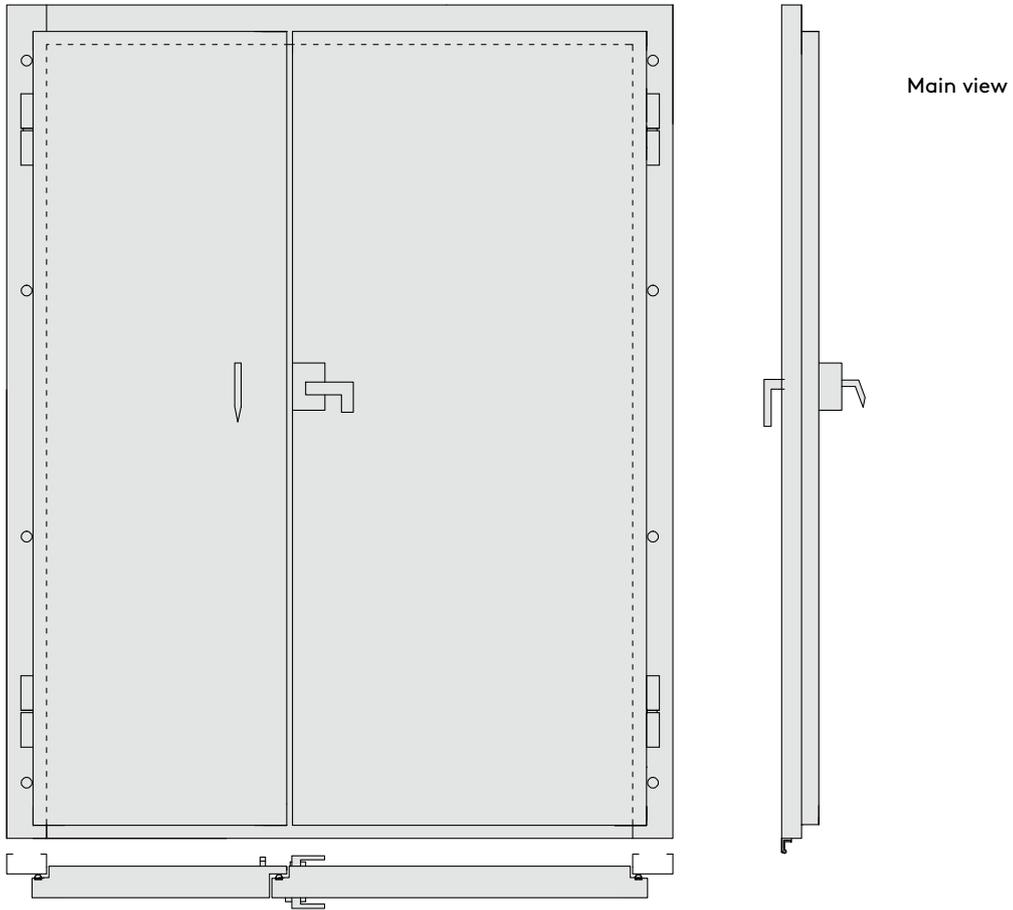
#### Standard dimensions range:

- Min: 1000x2000 mm
- Max: 2400x2900 mm

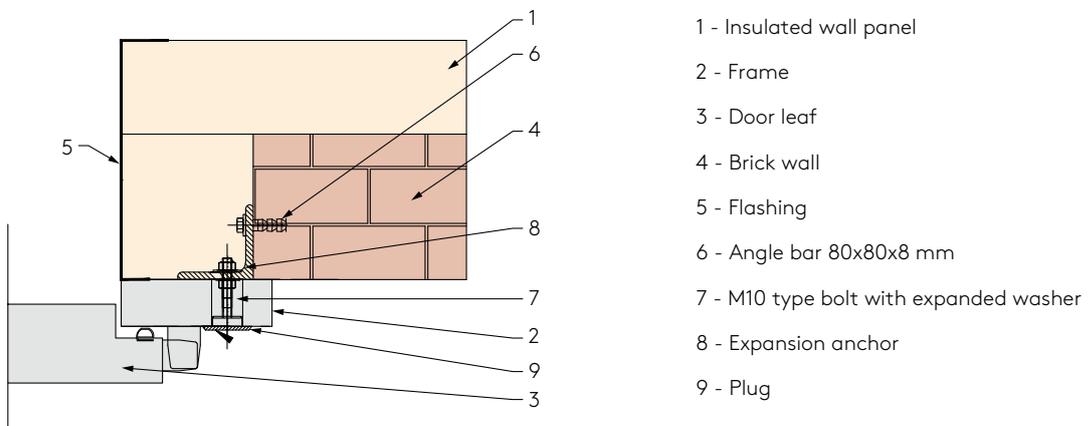
#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Steel threshold to accommodate floor level difference (interior/exterior, INOX threshold (up to 1200 mm) applied to the floor
- Window
- PVC bumpers
- Interior frame
- Meat-Rail adjusted

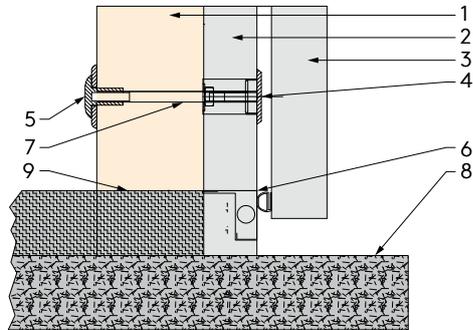




**Traditional assembly (brickwork)  
- insulated with composite panels**

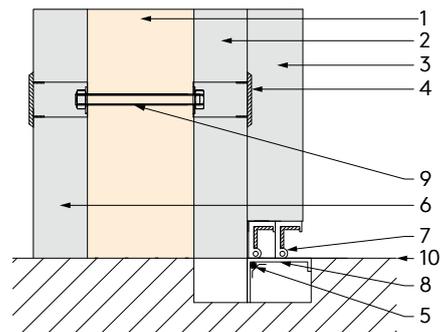


**Assembly to insulated wall panel  
- steel threshold**



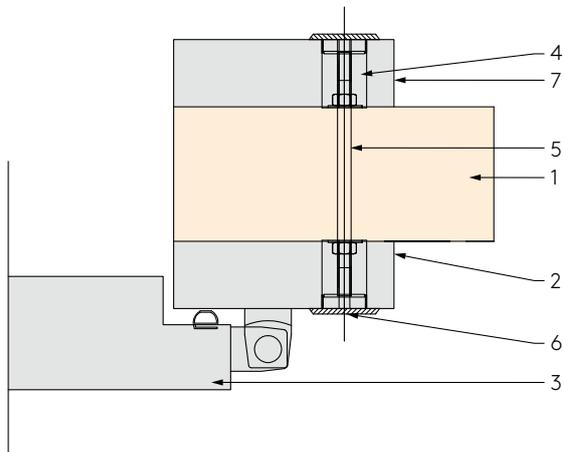
- |                          |  |
|--------------------------|--|
| 1 - Insulated wall panel | 6 - Threshold at h=floor level inside, |
| 2 - Frame                | eg. 100 mm                             |
| 3 - Door leaf            | 7 - M10 ertalone rod                   |
| 4 - Plug              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

**Assembly to insulated wall panel  
- threshold for concreting**



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

**Assembly to insulated wall panel  
- double frame**



- |                          |
|--------------------------|
| 1 - Insulated wall panel |
| 2 - External frame       |
| 3 - Door leaf            |
| 4 - Washer               |
| 5 - M10 metal rod        |
| 6 - Plug                 |
| 7 - Internal frame       |

## Freezer doors KINGSPAN DFS1

### Sliding, single leaf

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

U=0,23 W/m<sup>2</sup>K (100 mm), U=0,19 W/m<sup>2</sup>K (120 mm), U=0,16 W/m<sup>2</sup>K (150 mm)

#### Door leaf:

- 100 or 120 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- One or double frame (interior/exterior) depending on doors size
- Adapted to assembly requirements
- Equipped with heating wire to prevent steam condensation
- Heating threshold for concreting

#### Hardware:

- Provided by Fermod, French leader in hardware for refrigeration industry
- Rail raising the door leaf when opening
- Sealing clamps fixed to the floor
- Door adjustment without disassembly

#### Standard dimensions range:

- Min: 1000x2000 mm
- Max: 3100x3500 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Safety lock with key
- Other, non-standard dimensions
- Lever handles
- Electric operation, with wall mounted or pull-up switching units
- Window
- Door leaf thickness 120 or 150 mm
- Meat-Rail adjusted



Lock -outside view



Lock -inside view



Buffer



Door stop

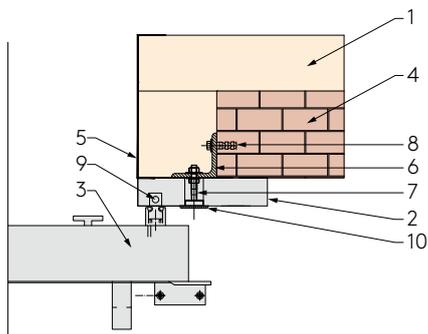


Safety lock mechanism  
- inside view



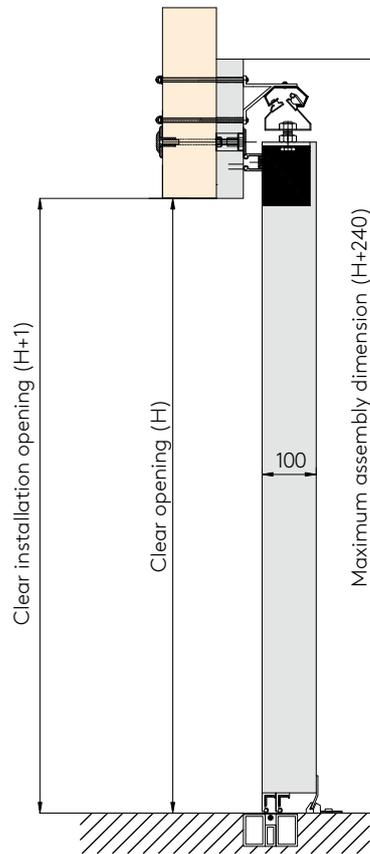
Bottom rail

**Traditional assembly (brickwork)  
- insulated with composite panel**

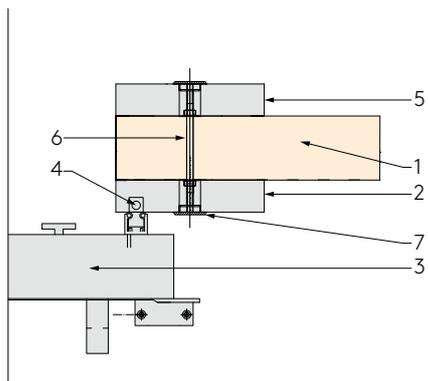


- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Flashing
- 6 - Angle bar 80x80x8
- 7 - Bolt
- 8 - Expansion anchor
- 9 - Heating wire
- 10 - Plug

**Assembly to insulated wall panel  
- one-sided frame**

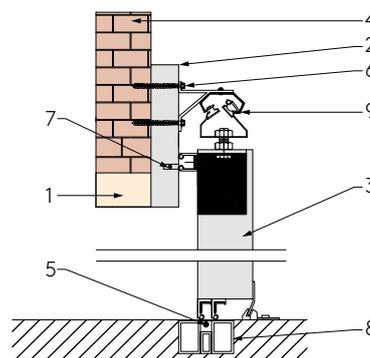


**Assembly to insulated wall panel  
- double frame**



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

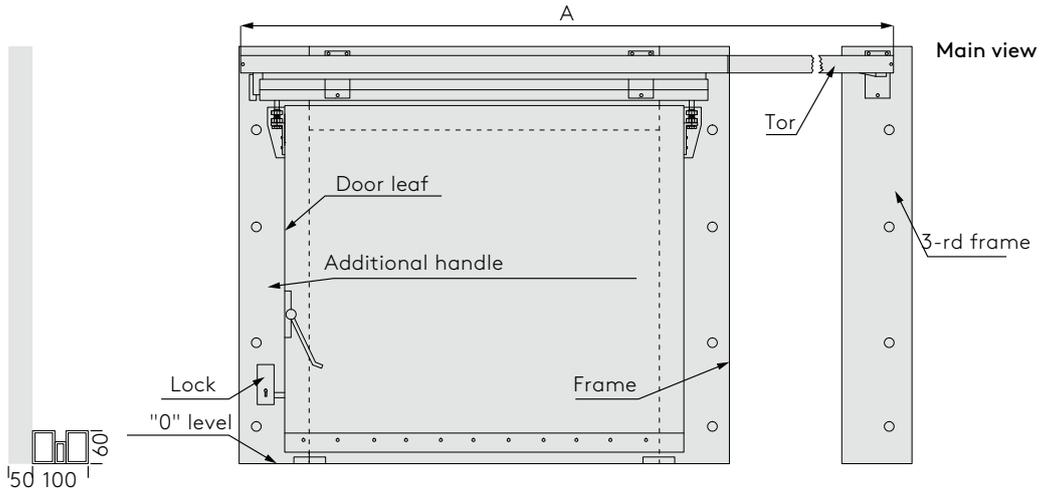
**Traditional assembly (brickwork)  
- insulated with composite panel**



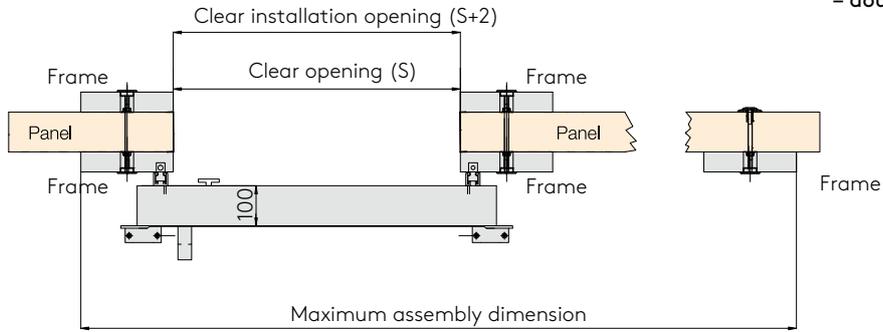
- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brickwork
- 5 - Heating wire in the threshold
- 6 - Expansion anchor
- 7 - Heating wire in the frame
- 8 - Threshold
- 9 - Bottom rail

Max. width of the steel rail

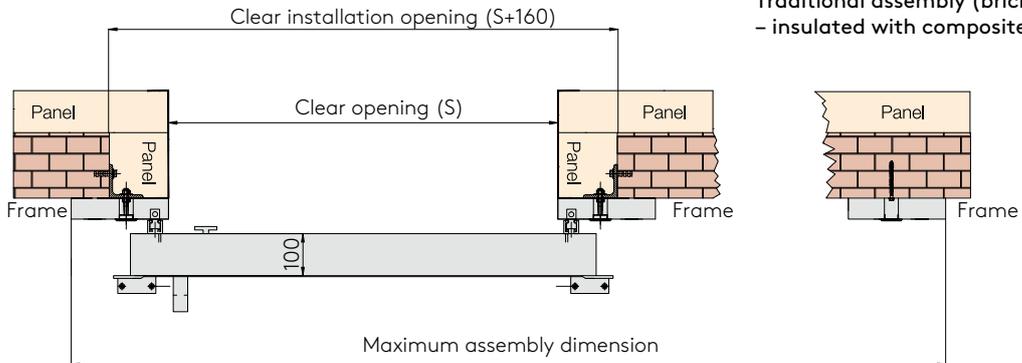
Door width	1600-1900	1901-2200	2201-2500	2501-2800	2801-3100
A	4350 (mm)	4950 (mm)	5550 (mm)	6150 (mm)	6750 (mm)



Assembly to insulated wall panel - double frame



Traditional assembly (brickwork) - insulated with composite panel



## Freezer doors KINGSPAN DFS2

### Sliding, double leaf

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

$U=0,23 \text{ W/m}^2\text{K}$  (100 mm)

#### Door leaf:

- 100 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- One or double frame (interior/exterior) depending on doors size
- Adapted to assembly requirements
- Equipped with heating wire to prevent steam condensation
- Heating threshold for concreting

#### Hardware:

- Provided by Fermod, French leader in hardware for refrigeration industry
- Rail raising the door leaf when opening
- Sealing clamps fixed to the floor
- Door adjustment without disassembly

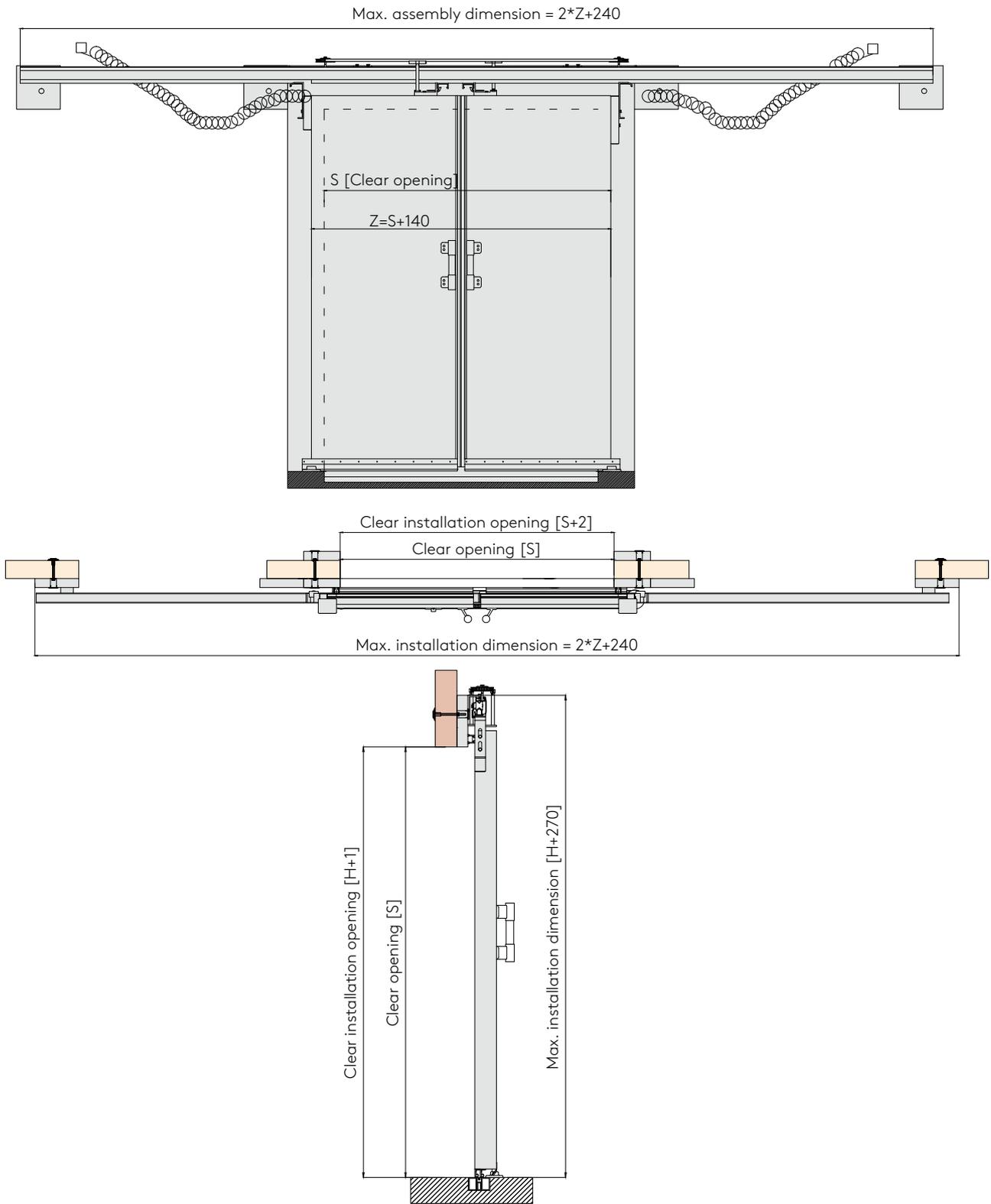
#### Standard dimensions range:

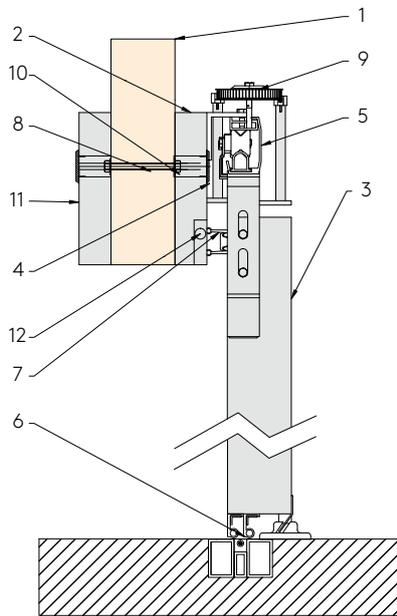
- Min: 1500x2000 mm
- Max: 2450x2900 mm

#### Options:

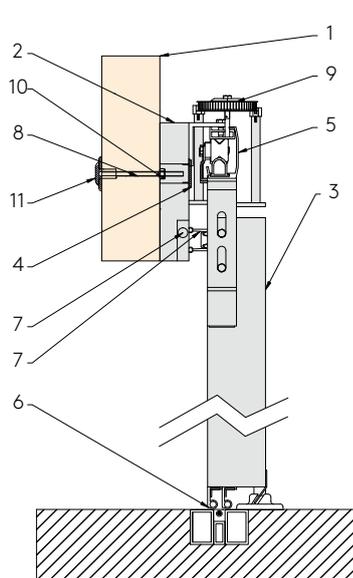
- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Safety lock with key
- Other, non-standard dimensions
- Lever handles
- Electric operation, with wall mounted or pull-up switching units
- Window
- Door leaf thickness 150 mm
- Meat-Rail adjusted



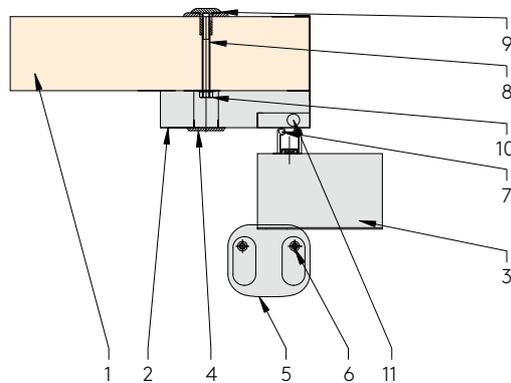




- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Rail
- 6 - Bottom gasket
- 7 - Circuit gasket
- 8 - Ertalon rod M10
- 9 - Roll with belt
- 10 - Nut M10
- 11 - "Castel Cool" bolt
- 12 - Heating cable



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Rail
- 6 - Bottom gasket
- 7 - Circuit gasket
- 8 - Ertalon rod M10
- 9 - Roll with belt
- 10 - Nut M10
- 11 - Interior frame
- 12 - Heating cable



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Holdfast
- 6 - Steel rod
- 7 - Circuit gasket
- 8 - Ertalon rod M10
- 9 - "Castel Cool" screw
- 10 - Nut M10
- 11 - Heating cable

## Gas-tight (ULO) doors KINGSPAN DGS1 Sliding

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

### Door leaf:

- 100 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL 9002/9010; protection foil
- 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
- Bottom gasket to seal the space between the door leaf and the threshold

### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m<sup>3</sup> density
- One or double frame (interior/exterior) depending on doors size
- Adapted to assembly requirements
- Threshold for concreting

### Hardware:

- Provided by Fermod, 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

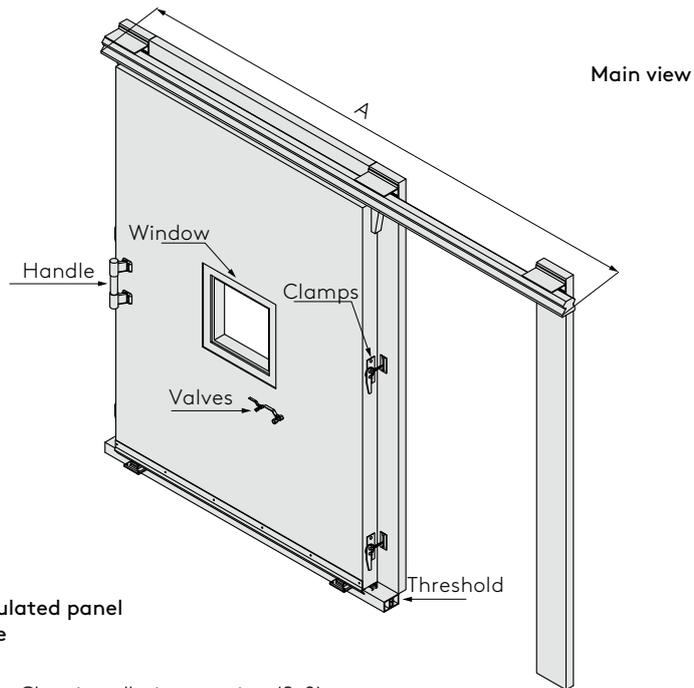
### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Safety lock with key
- Lever handles
- Other, non-standard dimensions
- PVC bumpers

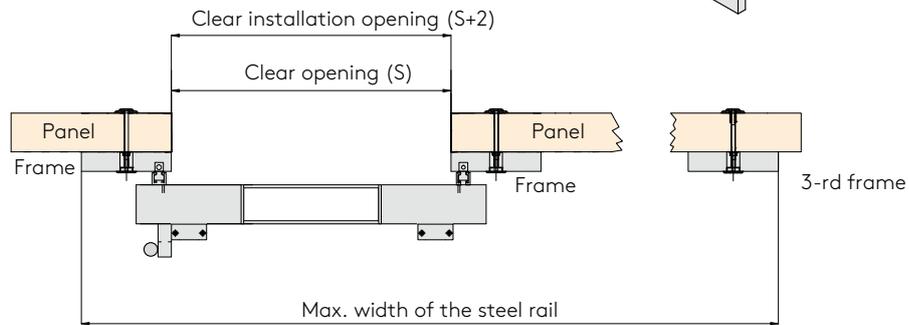


Max. width of the steel rail

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

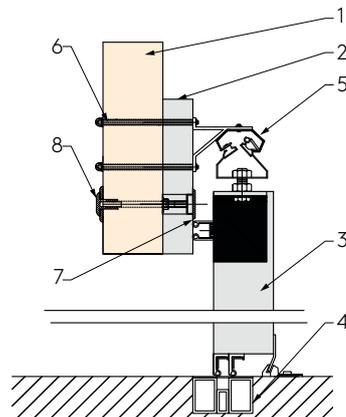


Assembly to insulated panel one-sided frame



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



## Service doors KINGSPAN DOH1

### Hinged, single leaf

For use indoors and outdoors, subject to the use of a hood +10°C

$U=0,63 \text{ W/m}^2\text{K}$

#### Door leaf:

- 35 mm thick
- Galvanized steel covered with 25  $\mu\text{m}$  PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 42 (+/- 2)  $\text{kg/m}^3$  density
- Rounding gasket to seal the contact point between the door leaf and the frame
- Bottom brush gasket

#### Door frame:

- Fitted onto the opening
- Galvanized steel covered with 25  $\mu\text{m}$  PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 50 (+/- 2)  $\text{kg/m}^3$  density
- One-sided for traditional assembly

#### Hardware:

- Hinges provided by FAPIN
- Lock with key by GERDA

#### Standard dimensions range:

- Min: 700x1800 mm
- Max: 1300x2200 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150  $\mu\text{m}$  thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions
- Window
- Bumpers
- Self-closing lock
- Electronic lock
- Anti-panic lever

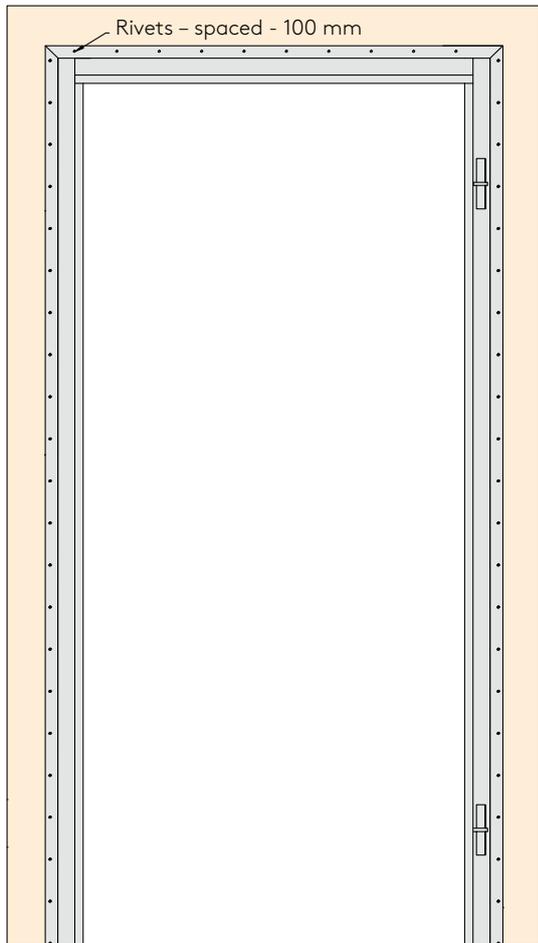


Standard lock

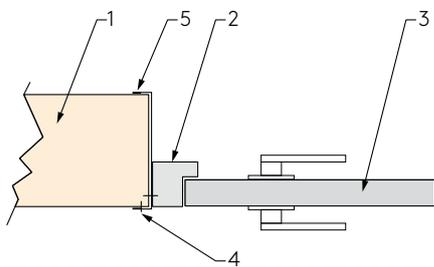
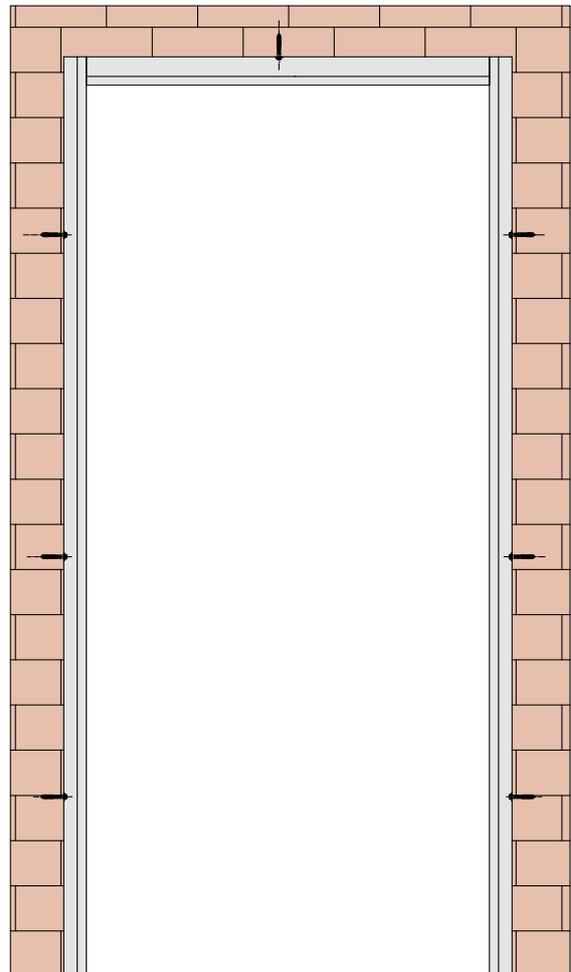


Hinge

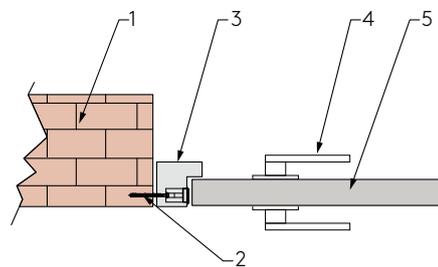
Assembly to insulated wall panel



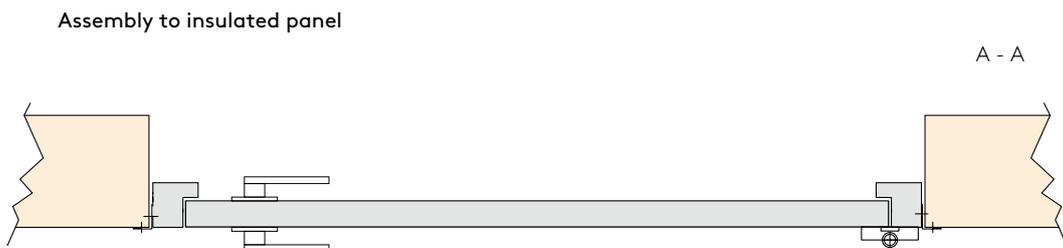
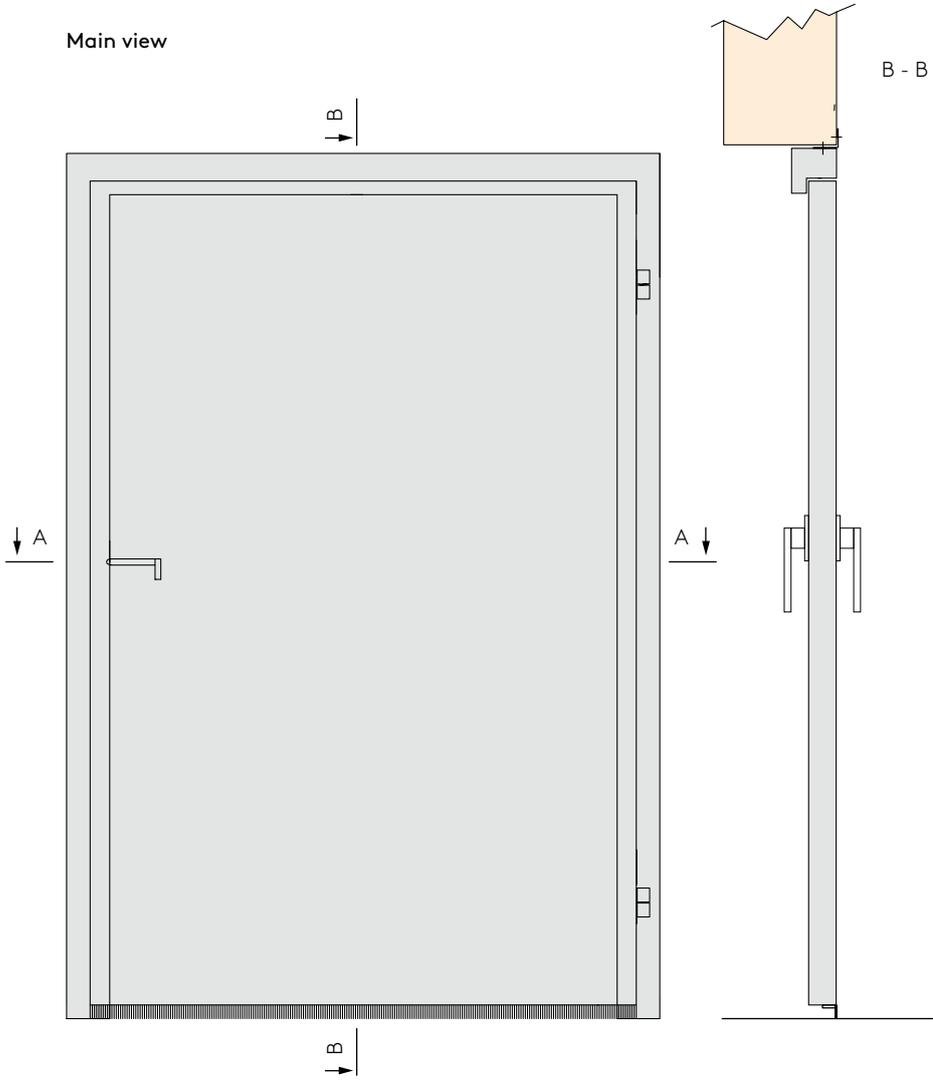
Traditional assembly (brickwork)



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Clamping work
- 5 - Flashing



- 1 - Brickwork
- 2 - Expanding anchor
- 3 - Frame
- 4 - Handle
- 5 - Door leaf



## Swing doors KINGSPAN DSH1

### Hinged, single leaf

Traffic doors

#### Door leaf:

- 40 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m<sup>3</sup> density
- Equipped with window and bumpers

#### Door frame:

- Fitted onto the opening
- Inox steel
- Not insulated
- One-sided for traditional assembly

#### Hardware:

- Provided by INGRADO

#### Standard dimensions range:

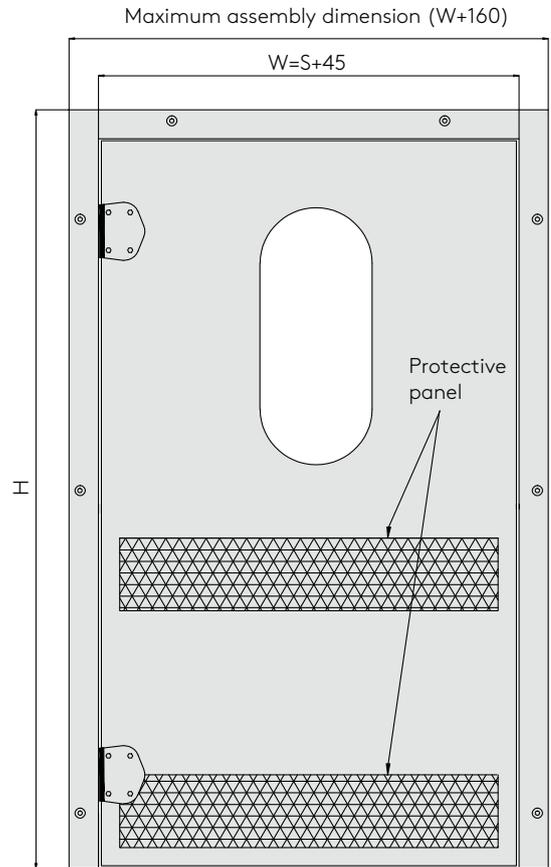
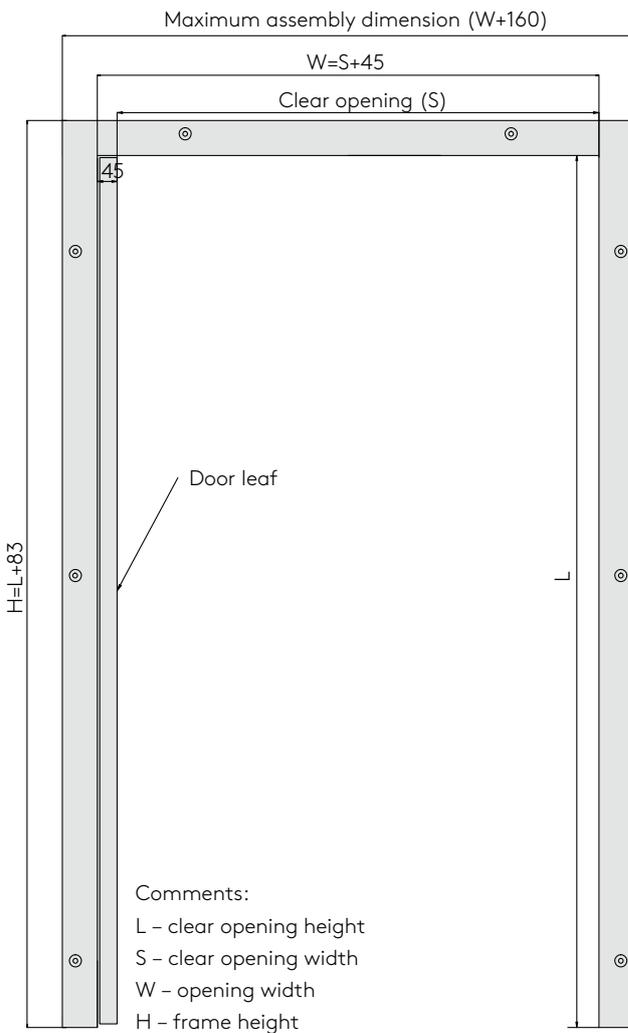
- Min: 800x2000 mm
- Max: 1200x2500 mm

#### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions

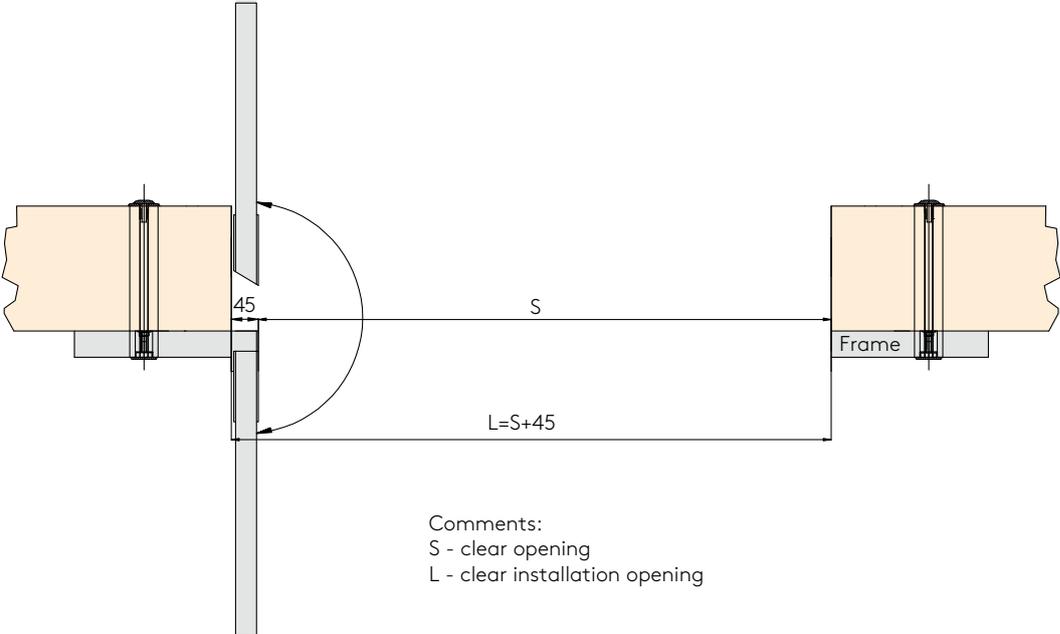


Main view

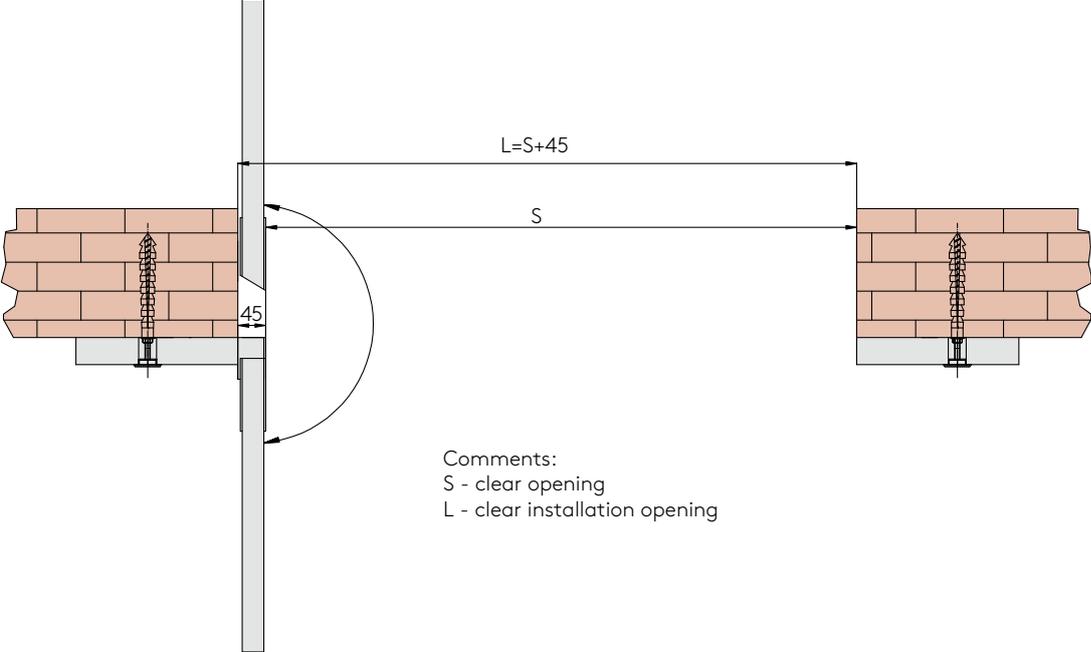


Clear opening

Assembly to insulated wall panel



Traditional assembly (brickwork)



## Swing doors KINGSPAN DSH2

### Hinged, double leaf

#### Traffic doors

##### Door leaf:

- 40 mm thick
- Galvanized steel covered with 25 µm PES coating in RAL9002/9010; protection foil
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m<sup>3</sup> density
- Equipped with window and bumpers

##### Door frame:

- Fitted onto the opening
- Inox steel
- Not insulated
- One-sided for traditional assembly

##### Hardware:

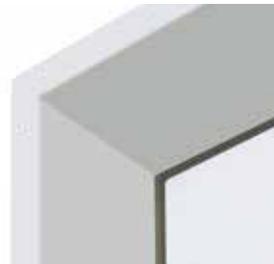
- Provided by INGRADO

##### Standard dimensions range:

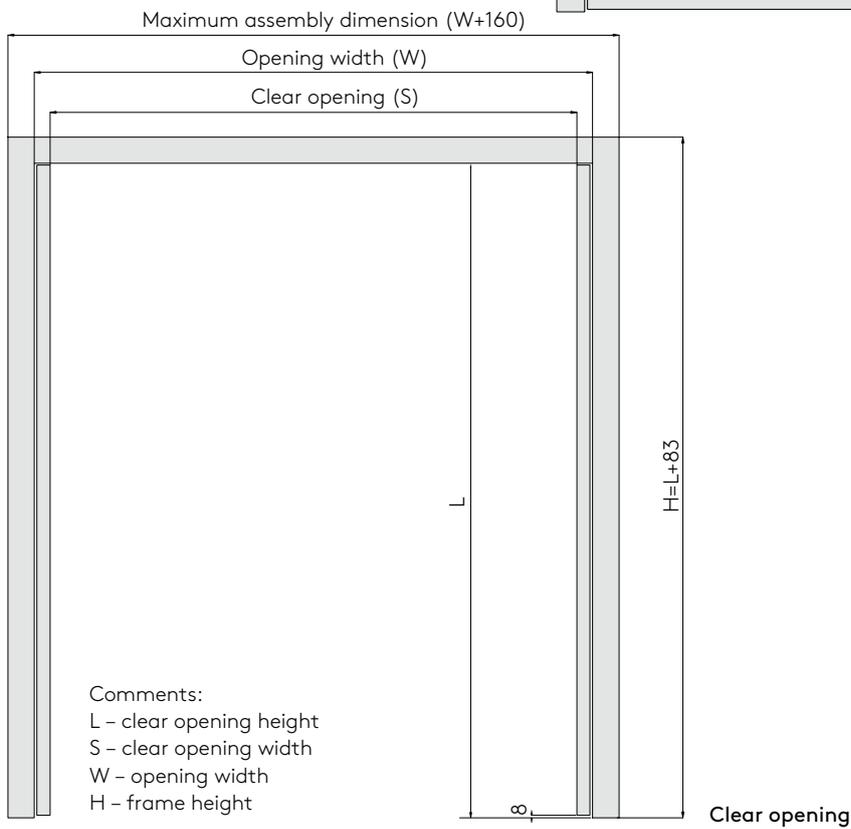
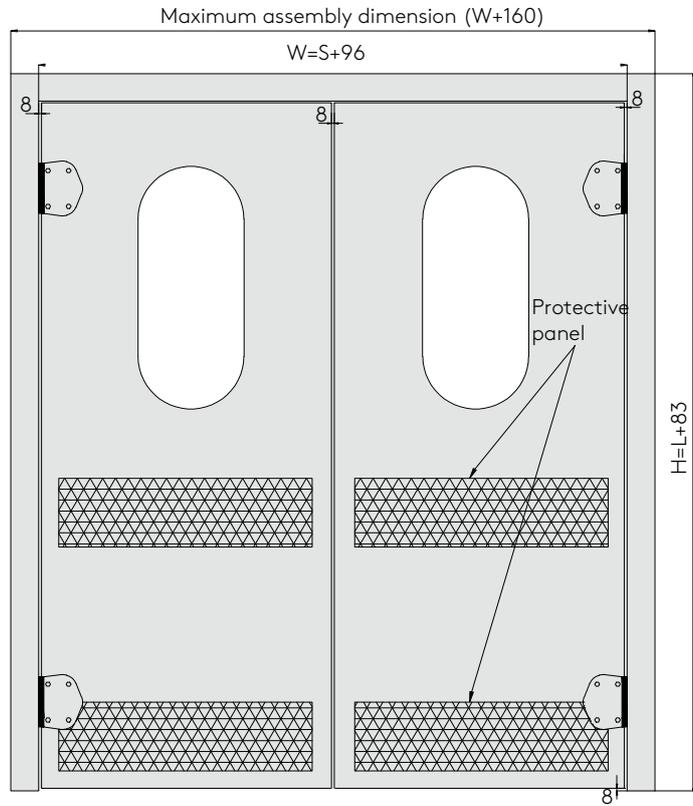
- Min: 1200x2000 mm
- Max: 2400x2500 mm

##### Options:

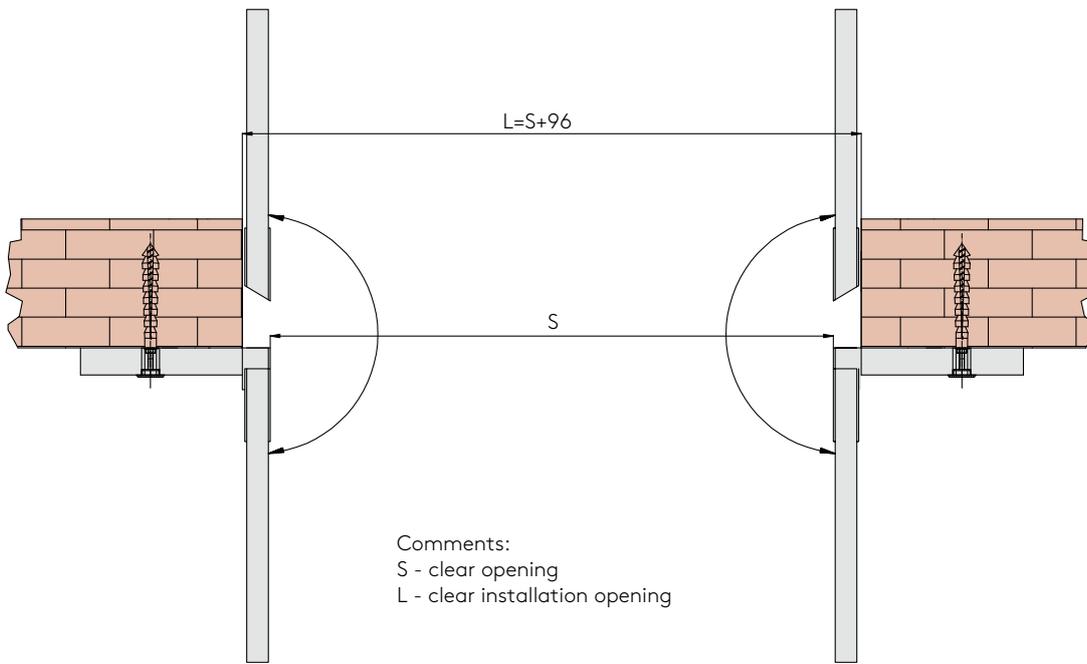
- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Other, non-standard dimensions



Main view

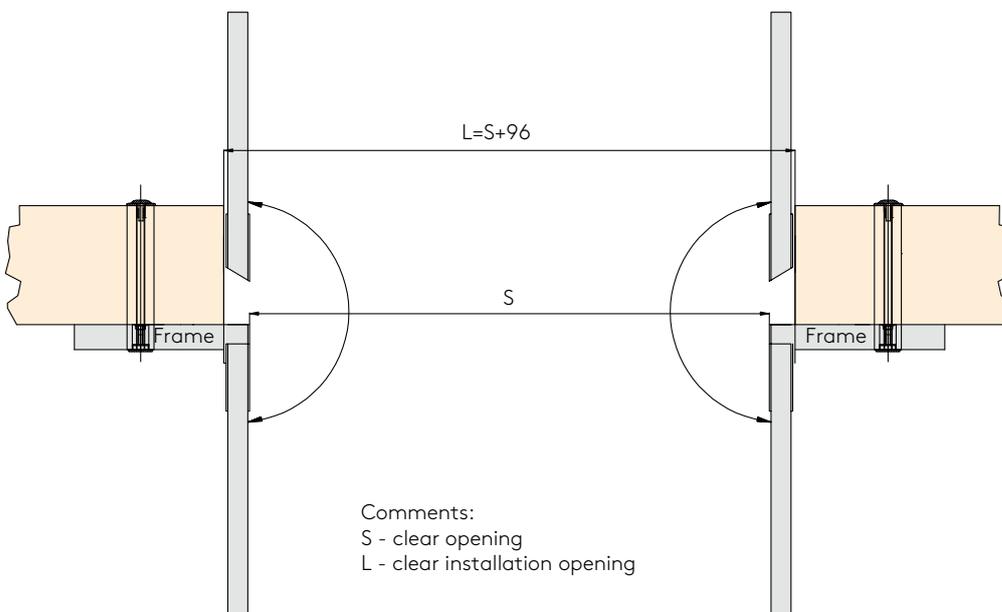


Traditional assembly (brickwork)



Comments:  
S - clear opening  
L - clear installation opening

Assembly to insulated wall panel



Comments:  
S - clear opening  
L - clear installation opening

## Cold storage and freezer chambers KINGSPAN DCCC/DCCF, camlock

Cold rooms - for temperatures range 0°C to +50°C, Freezer rooms – 0°C to -35°C

U=0,30 W/m<sup>2</sup>K (80 mm), U=0,24 W/m<sup>2</sup>K (100 mm)

### Wall and ceiling panel:

- Cold rooms – 80 mm thick (0°C to +50°C)
- Freezer rooms – 100 mm thick (0°C to -35°C)
- Galvanized steel covered with 25 µm PES coating in RAL9002/9100; protection foil
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m<sup>3</sup> density
- Camlock assembly

### Floor panel:

- Exterior - galvanized steel covered with 25 µm PES coating in RAL9002/9100
- Interior – waterproof plywood, to be covered with corrugated aluminum sheets during assembly (included)
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m<sup>3</sup> density
- Camlock assembly
- Floor load up to 12 kg/1 cm<sup>2</sup> (180kg max. load of the entire floor, e.g. by forklift)

### Door:

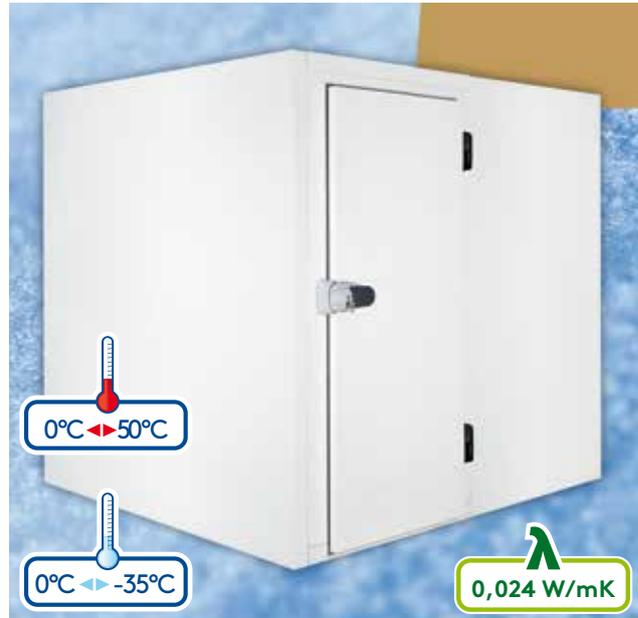
- Galvanized steel covered with 25 µm PES coating in RAL9002/9100; protection foil
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m<sup>3</sup> density
- Safety lock by Fermod
- Rising hinges by STUV
- Frame built into the wall panel
- Freezer rooms door – equipped with heating wire
- Door dimensions: 700x1900 mm or 900 x 2600 mm

### Dimensions:

- Width: multiples of 275, 550 or 1100 mm module
- Depth: multiples of 275, 550 or 1100 mm module (max 3500 mm)
- Height: 2000 mm (max. 3500 mm)

### Options:

- Other colours from the RAL collection
- Foodsafe – a 150 µm thick, chemically inert coating for interior and food processing applications
- Stainless steel, smooth or polished
- Non-standard coating on one or both sides
- Cold store chamber without floor
- Floor additionally reinforced with greater load capacity
- Possibility of using sliding doors with larger dimensions



Lock



Hinge

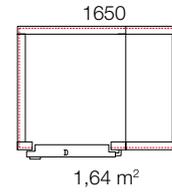
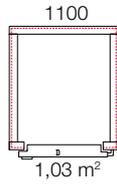


Lock mechanism

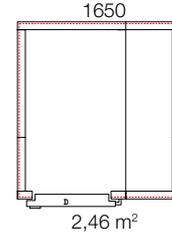
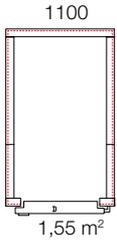


Floor

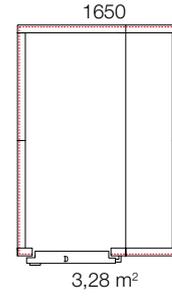
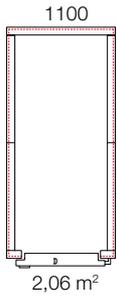
Cold store room - 1260  
Freezer room - 1300



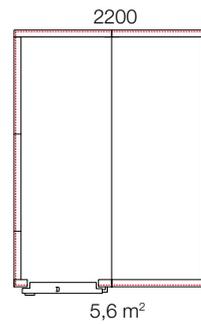
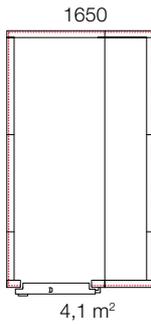
Cold store room - 1810  
Freezer room - 1850



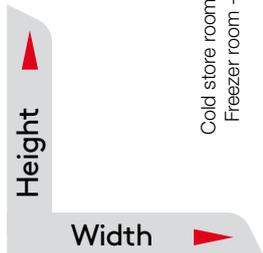
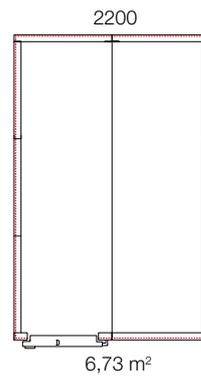
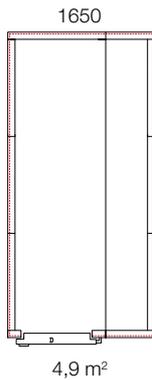
Cold store room - 2360  
Freezer room - 2400



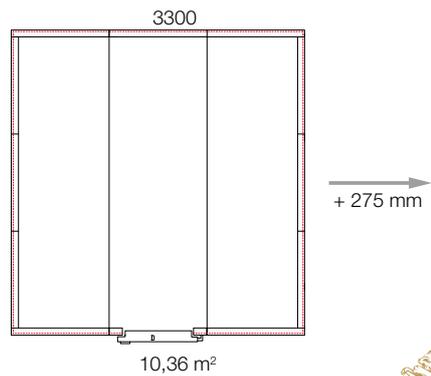
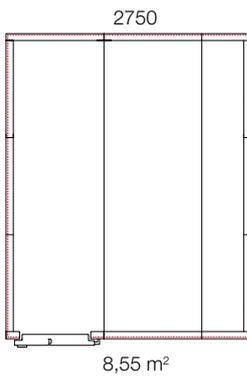
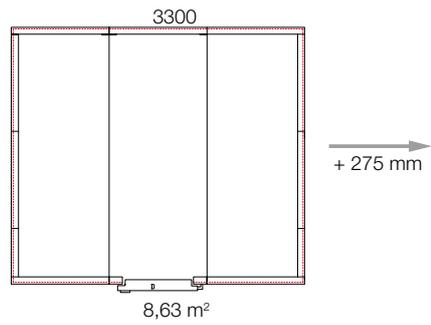
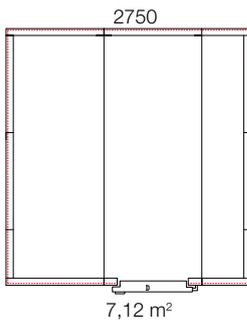
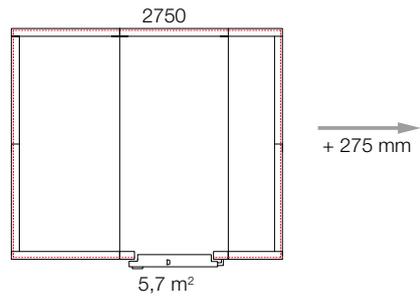
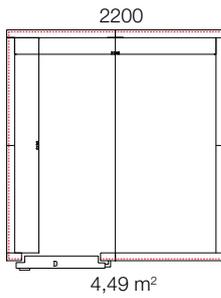
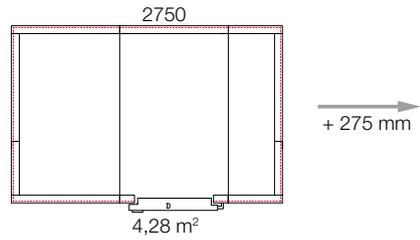
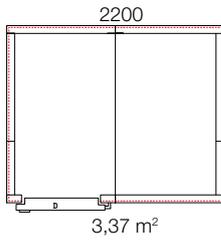
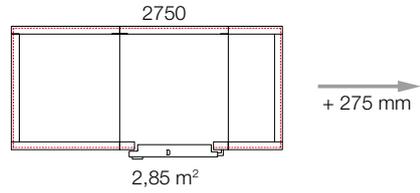
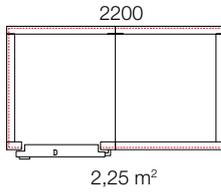
Cold store room - 2910  
Freezer room - 2950



Cold store room - 3460  
Freezer room - 3500



This is possible to build a chamber other than standard dimensions - contact Kingspan Technical Team.



## STANDARD COLORS AND ACCESSORIES

### Standard colors

PES (polyester)



INOX (stainless steel)



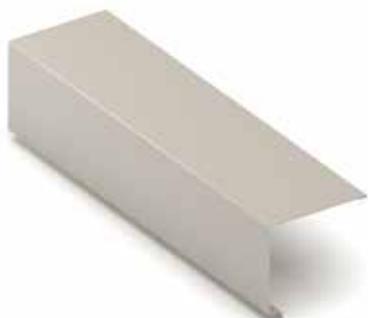
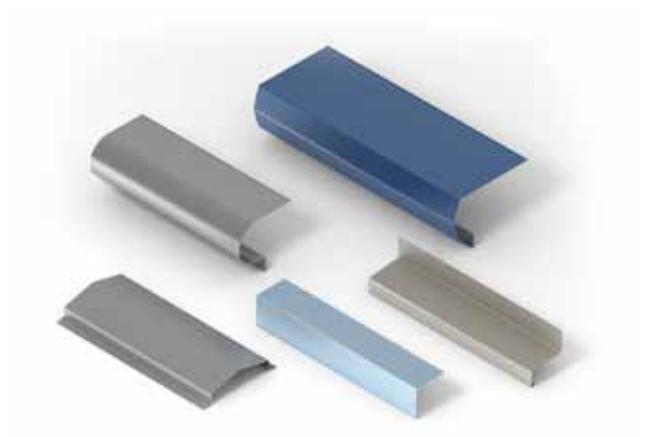
Plain



Polished

### ACCESSORIES

Sheet metal works are made of sheet metal with parameters identical to those used for the production of the door

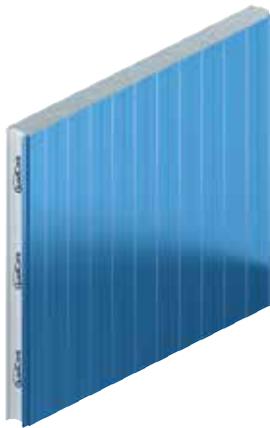


PVC accessories

### COLD STORAGE / FREEZER SANDWICH PANELS

POWERED BY  
**QuadCore**<sup>™</sup>  
TECHNOLOGY

Wall & Ceiling



KS1150 TF/TL

Roof



KS1000 RW

### CERTIFICATES AND APPROVALS



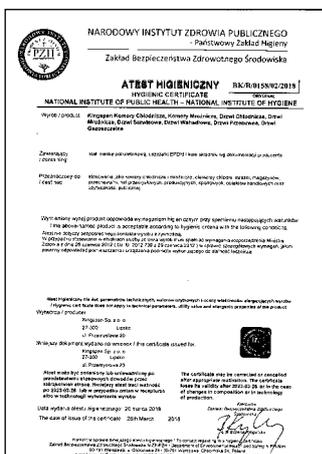
ISO 9001



ISO 14001



ISO 18001



Hygienic certificate



Certificate of conformity



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06/2019

