

Insulated Panels

Poland, Lithuania, Latvia, Estonia, Ukraine

Controlled Environments Specialist Doors and Chambers

kingspan.com





NewCold

Kutno, Poland

Kingspan provides architects, developers and installers with a comprehensive range of products tailored to a wide variety of applications and diverse requirements. Our range includes high-quality system solutions for environments with the most demanding requirements.

We work directly with developers, architects, designers, main contractors and building owners, supplying products, tools and services for the delivery of exceptional construction projects characterised by outstanding aesthetics and modern design. Exceptionally high thermal insulation performance, a particular focus on fire safety and technical functionality have always been the hallmark of Kingspan products.

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Cold storage doors Kingspan DCH1

HINGED, SINGLE LEAF

For use in buildings where the required interior temperature range is 0°C to +55°C
U= 0,29 W/m²K (80 mm), U = 0,23 W/m²K (100 mm), U= 0,19 W/m²K (120 mm)

Door leaf:

- Thickness [mm]: 80 , 100, 120
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor



0,024 W/mK

0°C → +55°C

Door frame:

- Fitted over a hole in the wall
- Made of double-sided galvanised steel coated with a 25µm-thick polyester paint (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Flashings and Ertalon rods for fitting doors to sandwich panels, or wall anchors
- Single-sided, designed to suit the wall construction method

Hardware:

- A secure key-operated lock from the renowned French company FERMOD, model 521
- STUV hinges that lift the door leaf when opening
- Making it easier to adjust the door without having to take it off its hinges

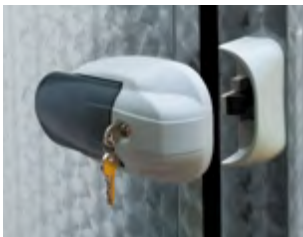
Standard dimensions range:

- min.: 600 x 600 mm
- max.: 1500 x 2800 mm

Options:

- Other PES colours and non-standard dimensions
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)

Scan the QR code
to find out more:



Lock mechanism



Lock mechanism (inside)



Hinge



Lock mechanism (non standard option)

Options - cont.:

- Insulated steel threshold used where there is a difference in floor level between the interior and exterior of the chamber; INOX threshold laid on the floor (up to 1200 mm wide)
- Internal door frame
- Window
- PVC plastic bumpers
- Adapted for a meat-filled roll, known as a 'Meat-Rail'
- A door lock other than the standard one
- Electric strike
- Panic lock
- Additional reinforcement of the door up to the height of the handle

Note:

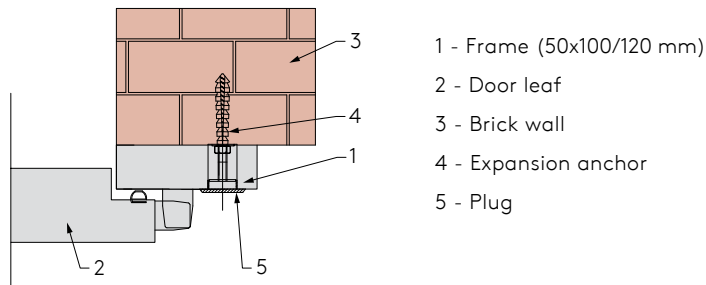
In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



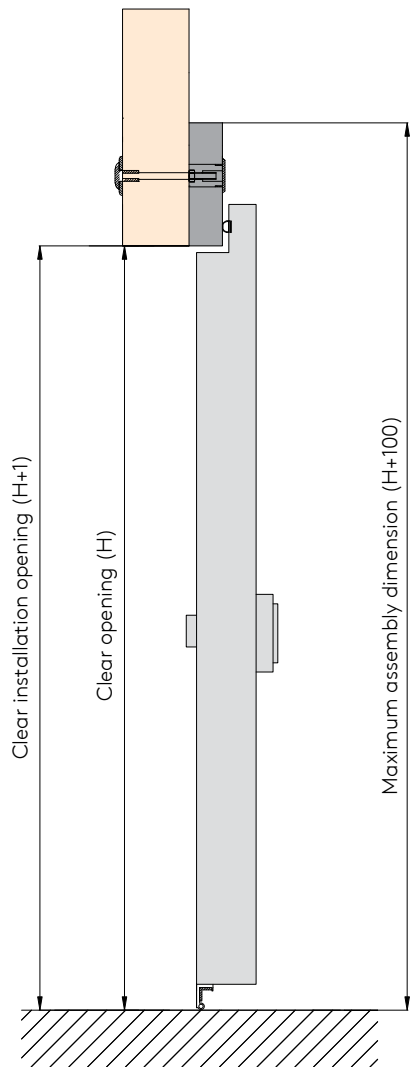
Product example:



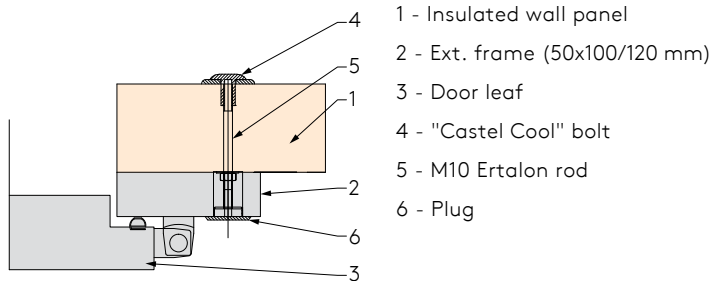
Traditional assembly (brickwork)



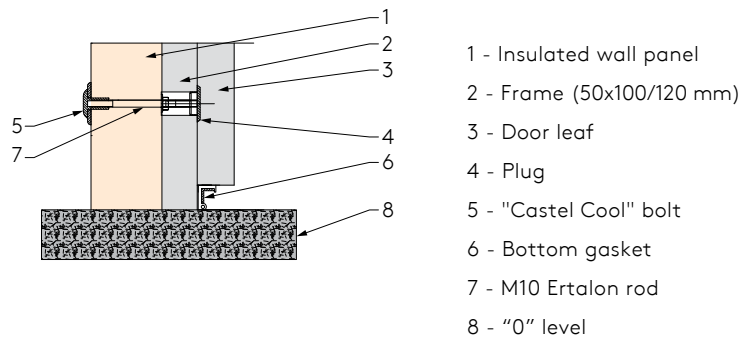
Assembly to wall panel



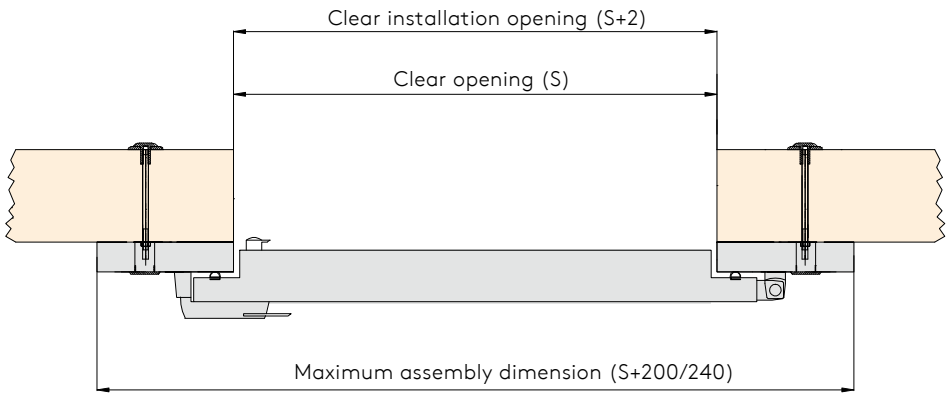
Assembly to insulated wall panel – one frame



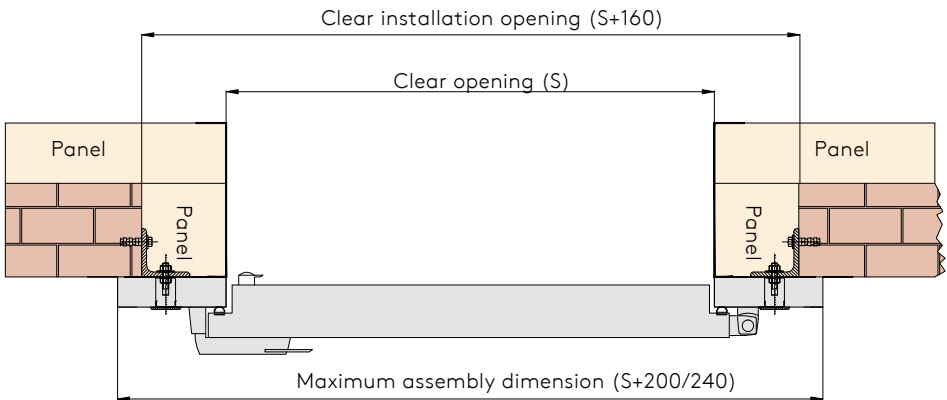
Assembly to insulated wall panel - threshold



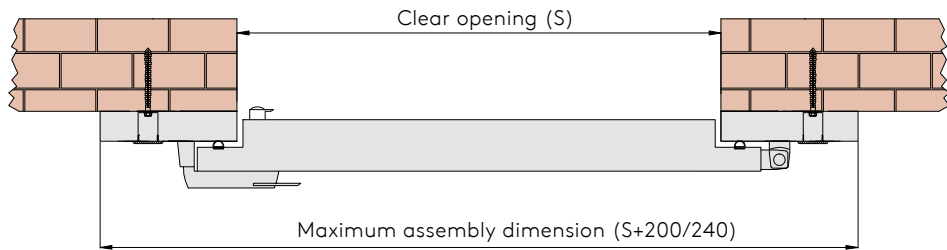
Assembly to insulated wall panel - one frame



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 +55°C

U=0,29 W/m²K (80 mm), U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm] 80, 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- External door frame, fitted within the opening, steel, insulated
- Fitting to panels of varying thicknesses, provided the inside of the door is suitably prepared
- Flashings and Ertalon rods for fitting doors to sandwich panels, or mounting anchors for bricks

Hardware:

- FERMOD Type 431 secure key-operated lock
- Steel hinges, chrome-plated

Standard dimensions range:

- min.: 600 x 1600 mm
- max.: 1200 x 2300 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Window
- Compatible with a standard GERDA cylinder lock
- PVC plastic bumpers
- A door lock other than the standard one, and a panic lock
- Additional reinforcement of the door up to the height of the handle

Scan the QR code
to find out more:



Lock mechanism



Lock mechanism (inside)



Hinge



Sanded door frame

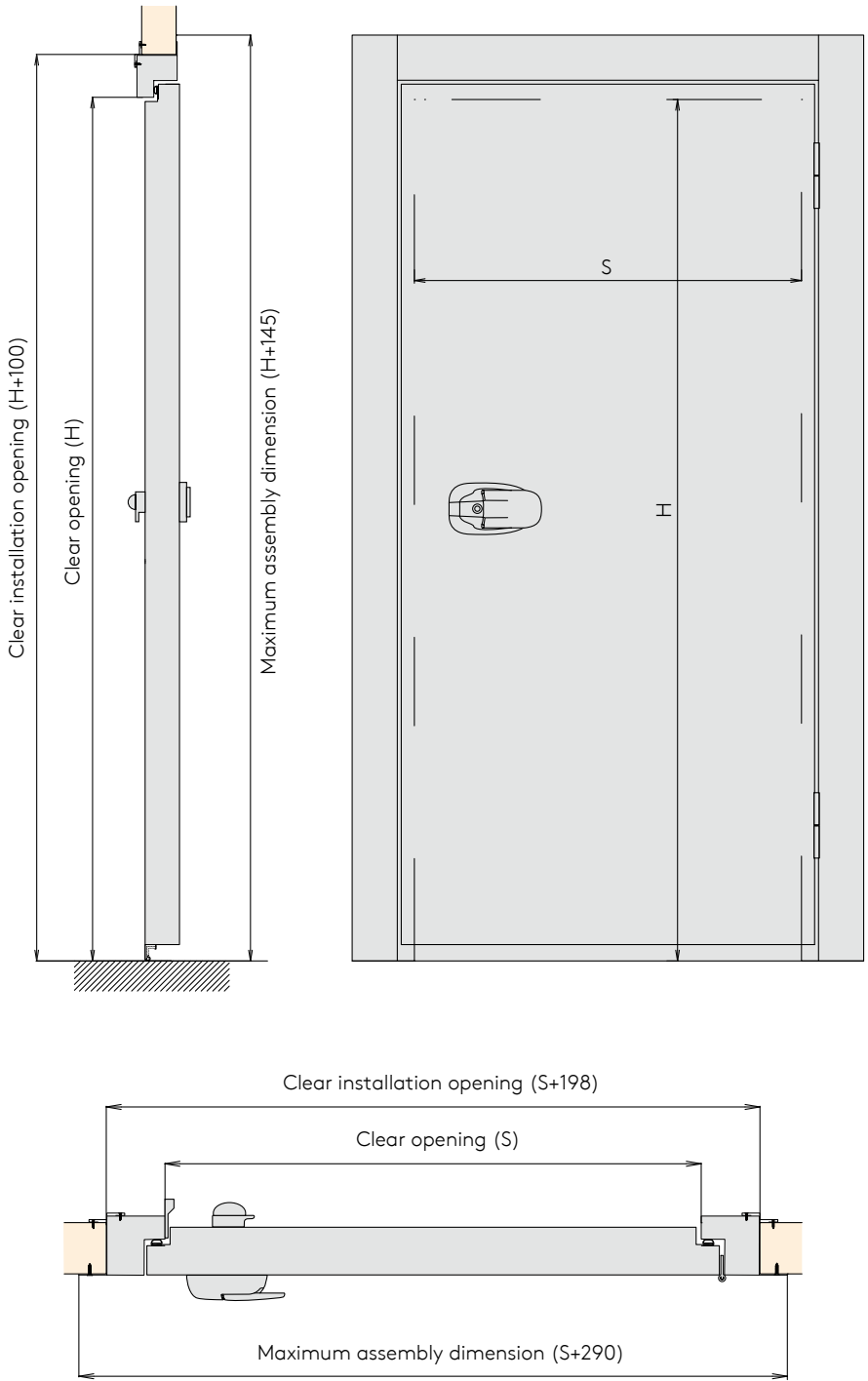


Lock with handle (optional)



Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



Cold storage doors Kingspan DCH2

HINGED, DOUBLE LEAF

For use in buildings where the required interior temperature range is 0°C to +55°C

U=0,29 W/m²K (80 mm), U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm] 80, 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door panels and the door frame, as well as the joints between the door leaves
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor
- The option to create an asymmetrical division of the door leaves

Door frame:

- Fitted over the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided, suitable for wall construction techniques

Hardware:

- STUV secure key-operated lock
- STUV hinges that lift the door leaf when it is opened
- Making it easier to adjust the doors without having to take them off

Standard dimensions range:

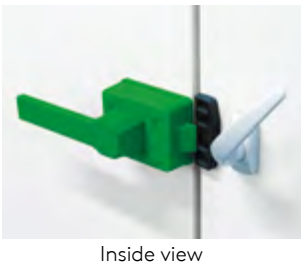
- min: 1000 x 2000 mm
- max: 2500 x 3000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Steel threshold used where there is a difference in floor levels between the interior and exterior of the chamber



Safety lock



Inside view



Hinges



Passive leaf blockade

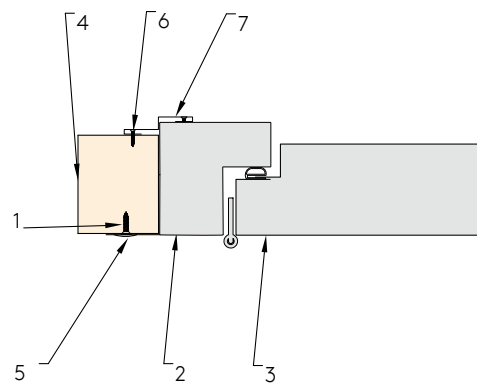


Locking element on the frame

Scan the QR code to find out more:

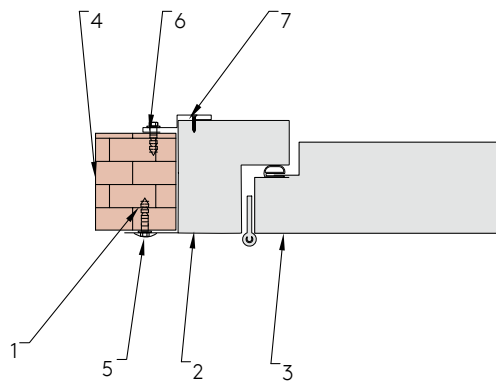


Assembly to insulated panel



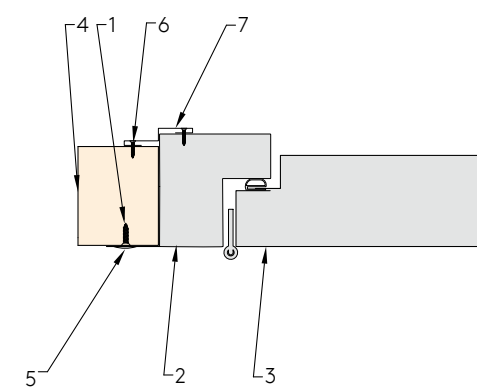
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

Traditional assembly (brickwork)



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

Insulated steel door frame



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

Options - cont.:

- Window
- PVC plastic bumpers
- Adapted for a rail system, e.g. with meat, known as 'Meat-Rail'
- Additional reinforcement of the door up to the height of the handle

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

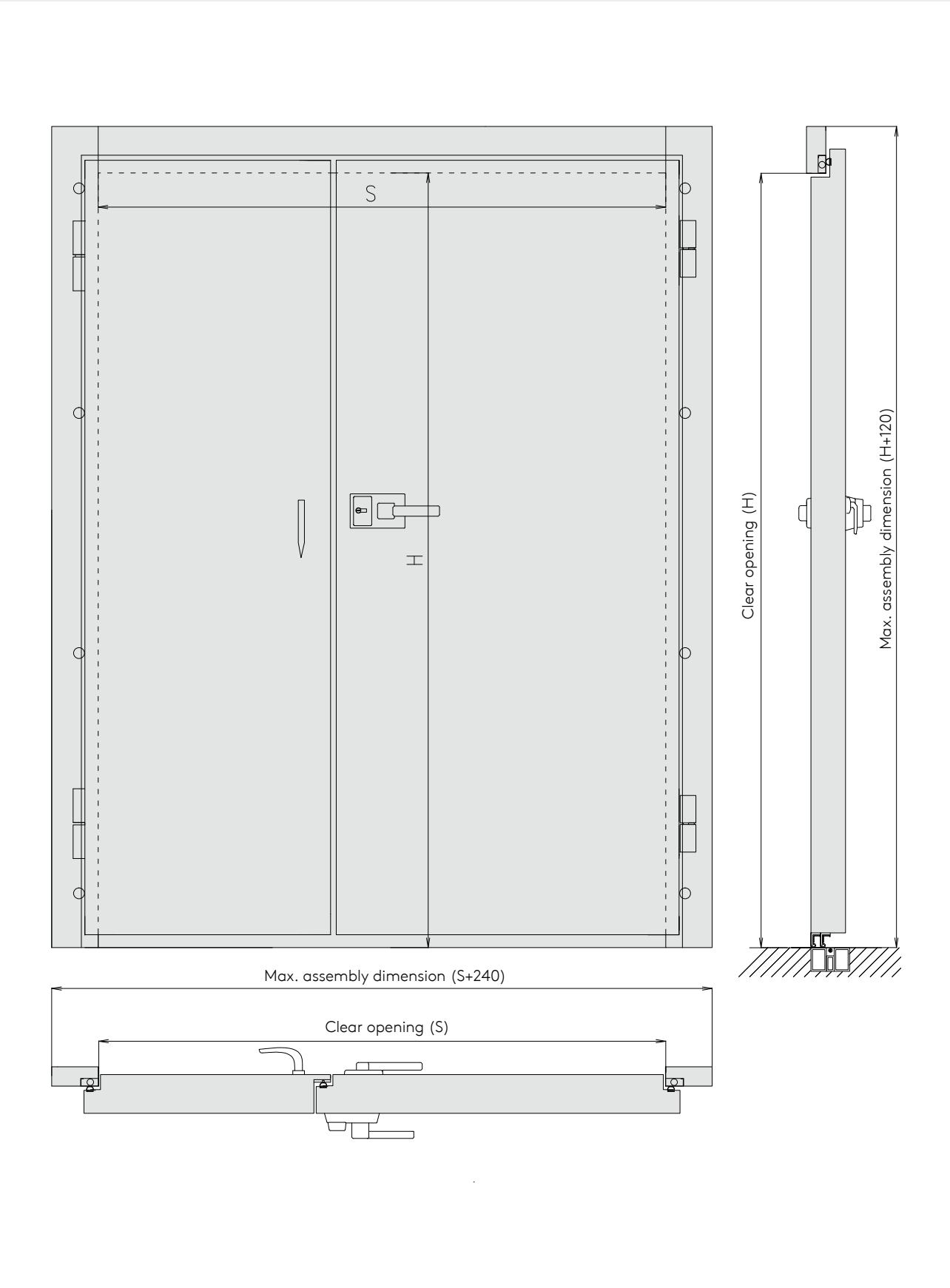


Product example – flush-mounted version:



Key product benefits:

- proven thermal insulation
- wide range of applications across various sectors (food, logistics, pharmaceutical)
- flexible configuration
- airtightness and minimisation of cold loss
- versatile installation
- robust construction and durable finish
- various thickness options for the door panel



Cold storage flush doors Kingspan DFCH2

HINGED, DOUBLE LEAF

For use in buildings where the required interior temperature range is 0°C to +55°C

U=0,29 W/m²K (80 mm), U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm]: 80, 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- External door frame, fitted within the opening, steel, insulated
- Fitting to panels of varying thicknesses, provided the inside of the door is suitably prepared

Hardware:

- STUV secure key-operated lock
- Passive sash lock
- Screws and fittings for assembly

Standard dimensions range:

- min.: 1000 x 2000 mm
- max.: 2500 x 3000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Window
- PVC plastic bumpers

Scan the QR code to find out more:



Lock mechanism



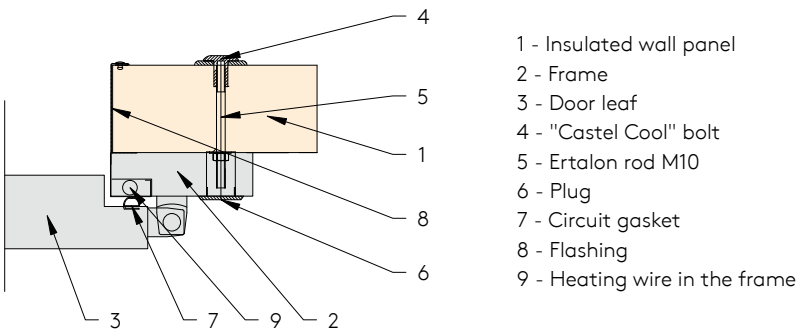
Hinge



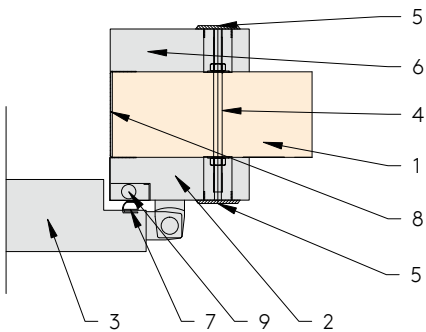
Hinge - inside view

Note:

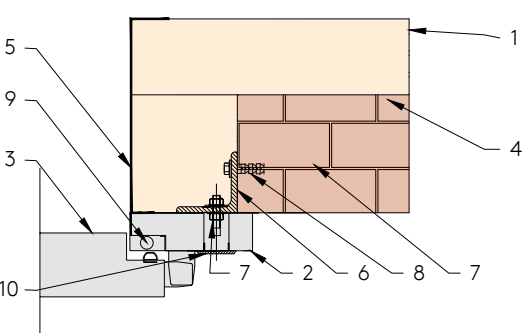
In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



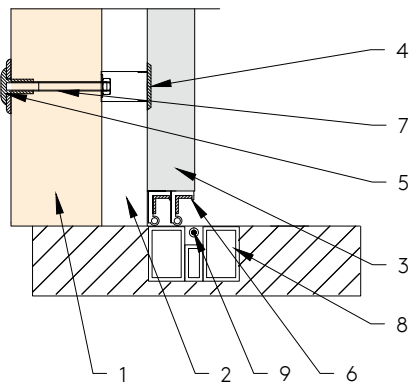
- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - "Castel Cool" bolt
- 5 - Ertalon rod M10
- 6 - Plug
- 7 - Circuit gasket
- 8 - Flashing
- 9 - Heating wire in the frame



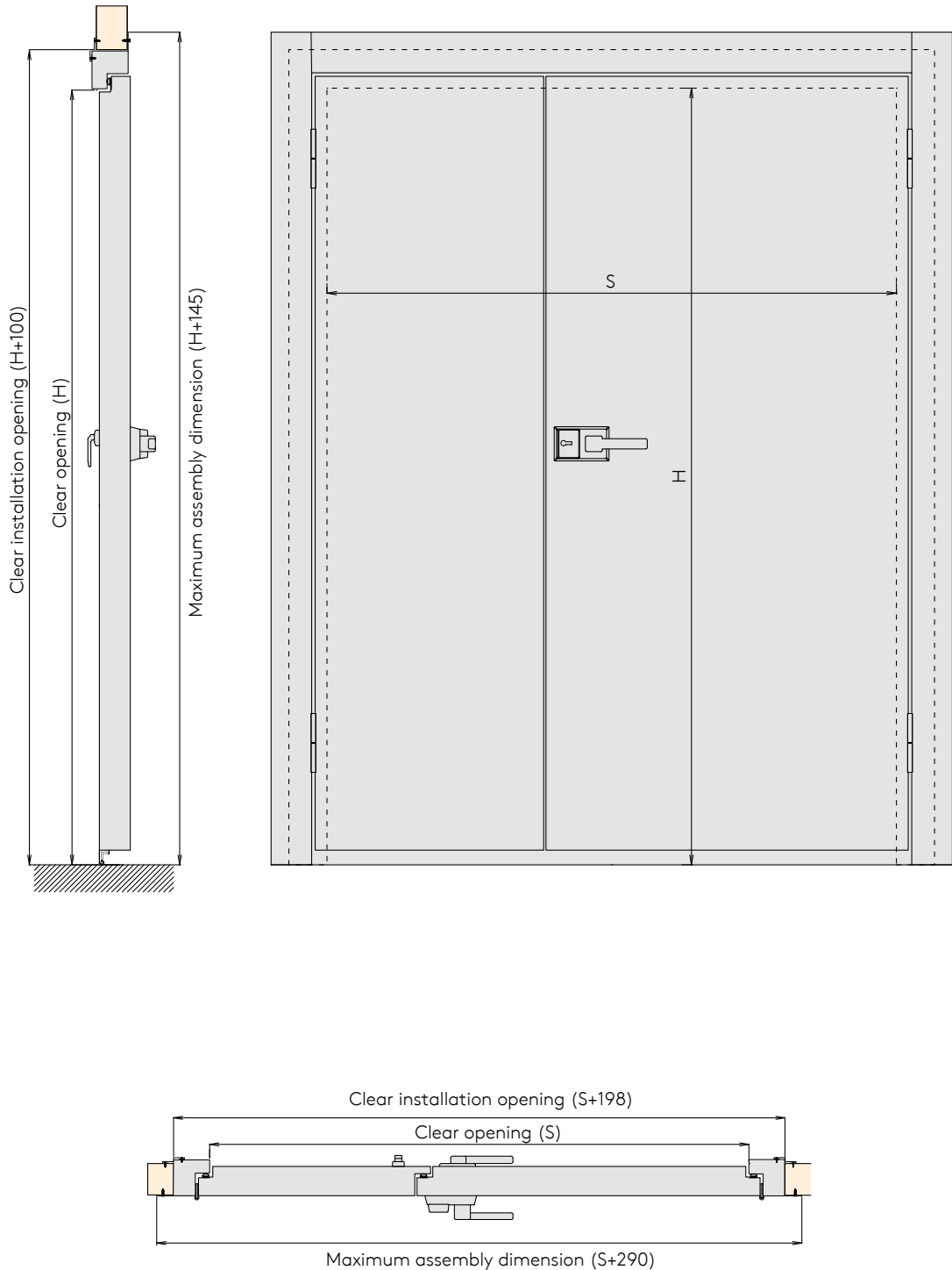
- 1 - Insulated wall panel
- 2 - Frame (50x120 mm)
- 3 - Door leaf
- 4 - Ertalon rod M10
- 5 - Plug
- 6 - Internal frame
- 7 - Circuit gasket
- 8 - Flashing
- 9 - Heating wire in the frame



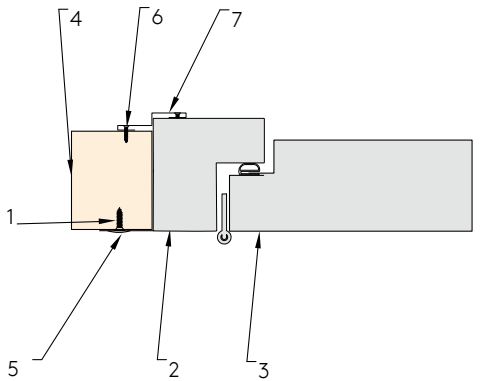
- 1 - Insulated wall panel
- 2 - Frame (50x120 mm)
- 3 - Door leaf
- 4 - Brick wall
- 5 - Flashing
- 6 - Angle bar 80x80x8 mm
- 7 - M10 type bolt with expanded washer
- 8 - Expansion anchor
- 9 - Heating wire in the frame
- 10 - Plug



- 1 - Insulated wall panel
- 2 - Frame (50x120 mm)
- 3 - Door leaf
- 4 - Plug
- 5 - "Castel Cool" bolt
- 6 - Bottom gasket
- 7 - Ertalon rod M10
- 8 - Threshold
- 9 - Heating wire in the frame

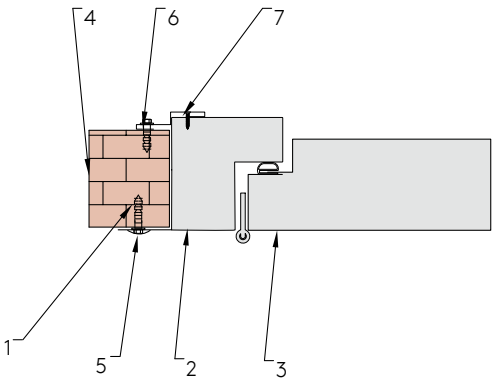


Assembly to insulated panel



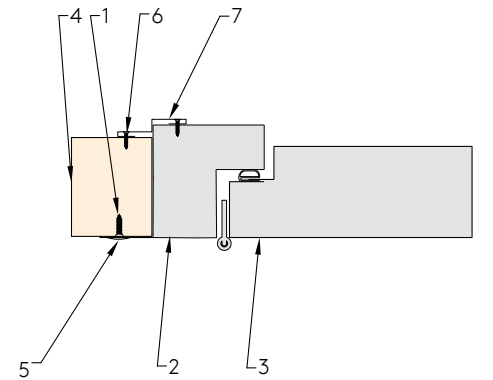
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

Traditional assembly (brickwork)



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

Insulated steel door 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 +55°C
U=0,29 W/m²K (80 mm), U=0,23 W/m²K (100 mm), U=0,19 W/m²K (120 mm)

Door leaf:

- Thickness [mm]: 80, 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- Fitted over the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided or double-sided, depending on the size of the door
- Adapted to the wall construction technology

Hardware:

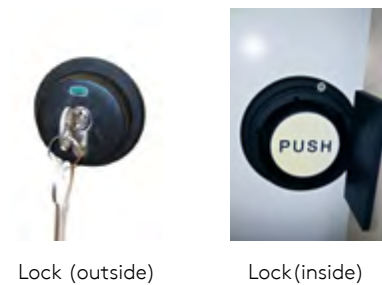
- Provided by FERMOD, French leader in hardware for refrigeration industry
- A guide rail that lifts the door leaf when it is opened
- Floor-mounted clamps
- Making it easier to adjust doors without having to remove them

Standard dimensions range:

- min.: 1000 x 2000 mm
- max.: 3500 x 4000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- A secure padlock
- Window
- Automation – wall-mounted and pull-wire switches
- Opening aid lever
- Adapted for a rail system, e.g. with meat, known as 'Meat-Rail'



Handle (outside)

Door leaf suspension

Lock (inside) for door with automation



Bottom track element

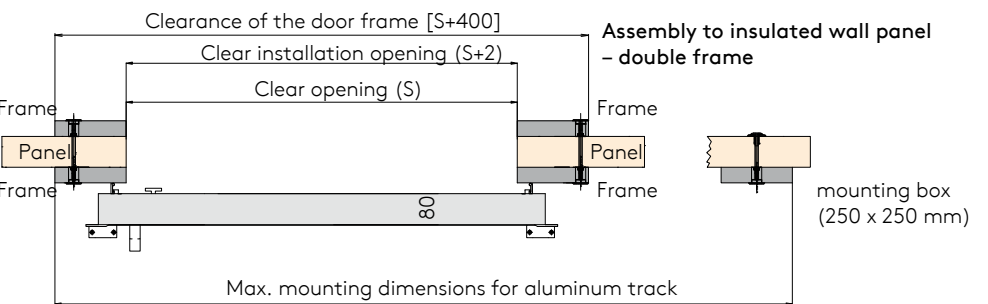
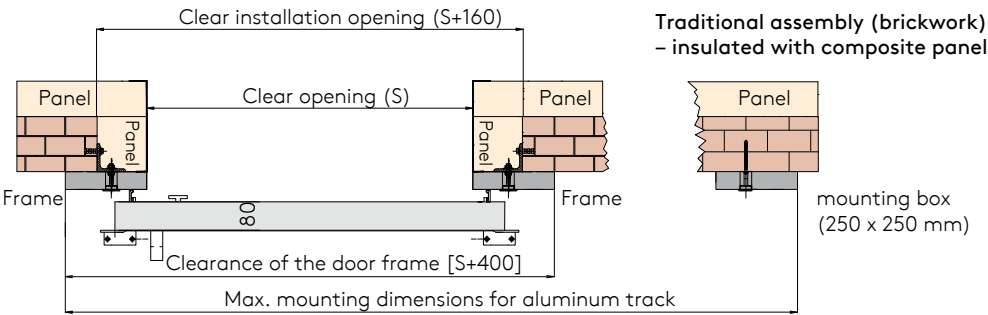
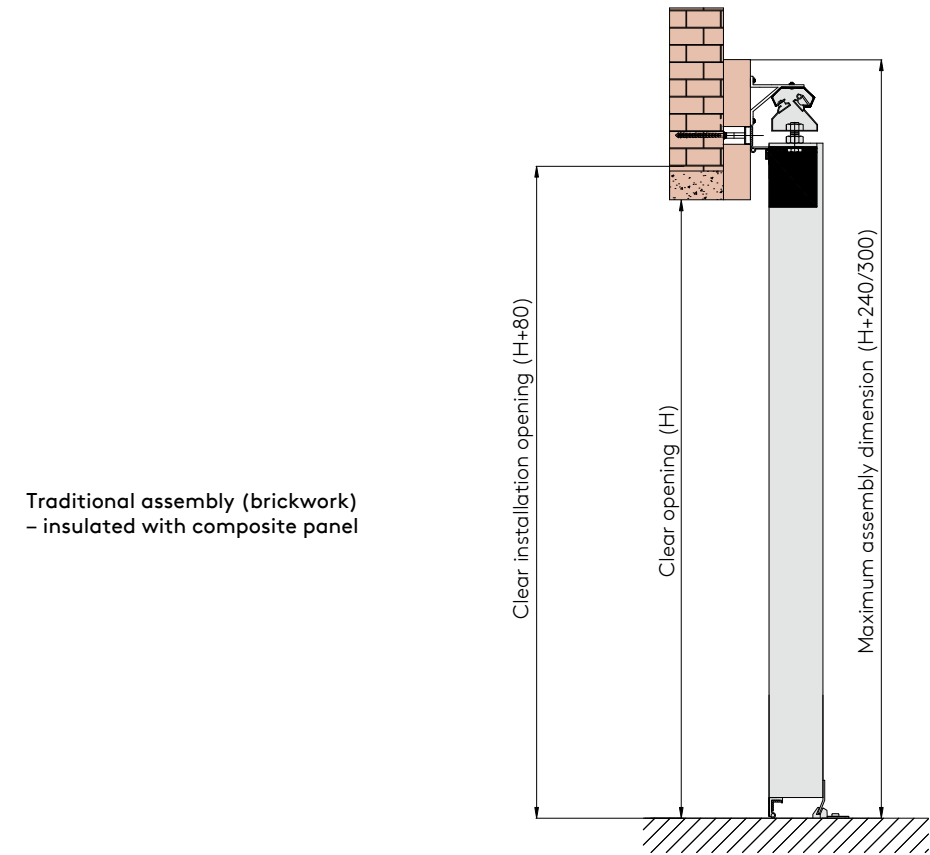
Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

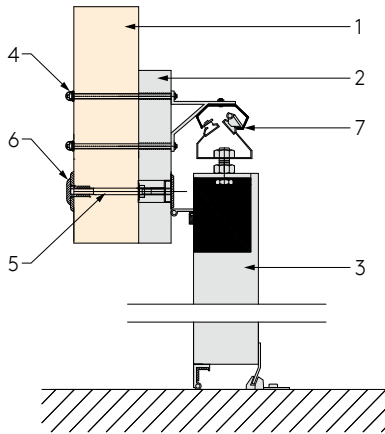


Product example:



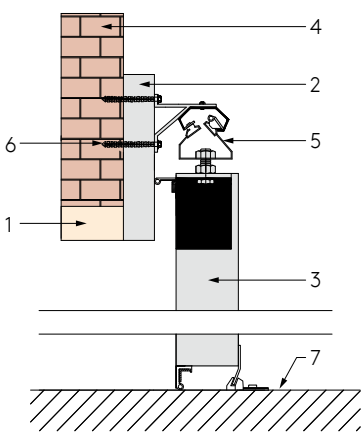


Assembly to insulated panel,
aluminum rail - one-sided frame



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

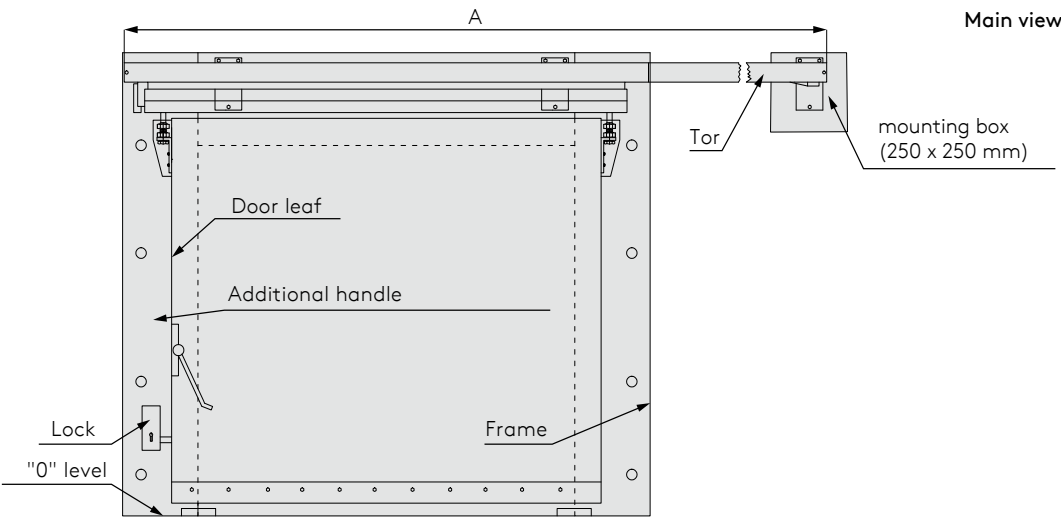
Traditional assembly (brickwork)



- 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	3101-3300	3301-3500
A	4350 (mm)	4950 (mm)	5550 (mm)	6150 (mm)	6750 (mm)	7150 (mm)	7550 (mm)



Cold storage doors Kingspan DCS2

SLIDING, DOUBLE LEAF

For use in buildings where the required interior temperature range is 0°C to +55°C
U=0,29 W/m²K (80 mm), U=0,23 W/m²K (100 mm)

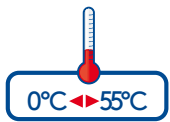
Door leaf:

- Thickness [mm] 80, 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor



Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided or double-sided, depending on the size of the door
- Adapted to the wall construction technology



Handle (outside)



Door leaf suspension



Scan the QR code to find out more:

Hardware:

- Provided by FERMOD, French leader in hardware for refrigeration industry
- A guide rail that lifts the door leaf when it is opened
- Floor-mounted clamps
- Making it easier to adjust doors without having to remove them



Lock (inside) for door with automation



Bottom track element

Standard dimensions range:

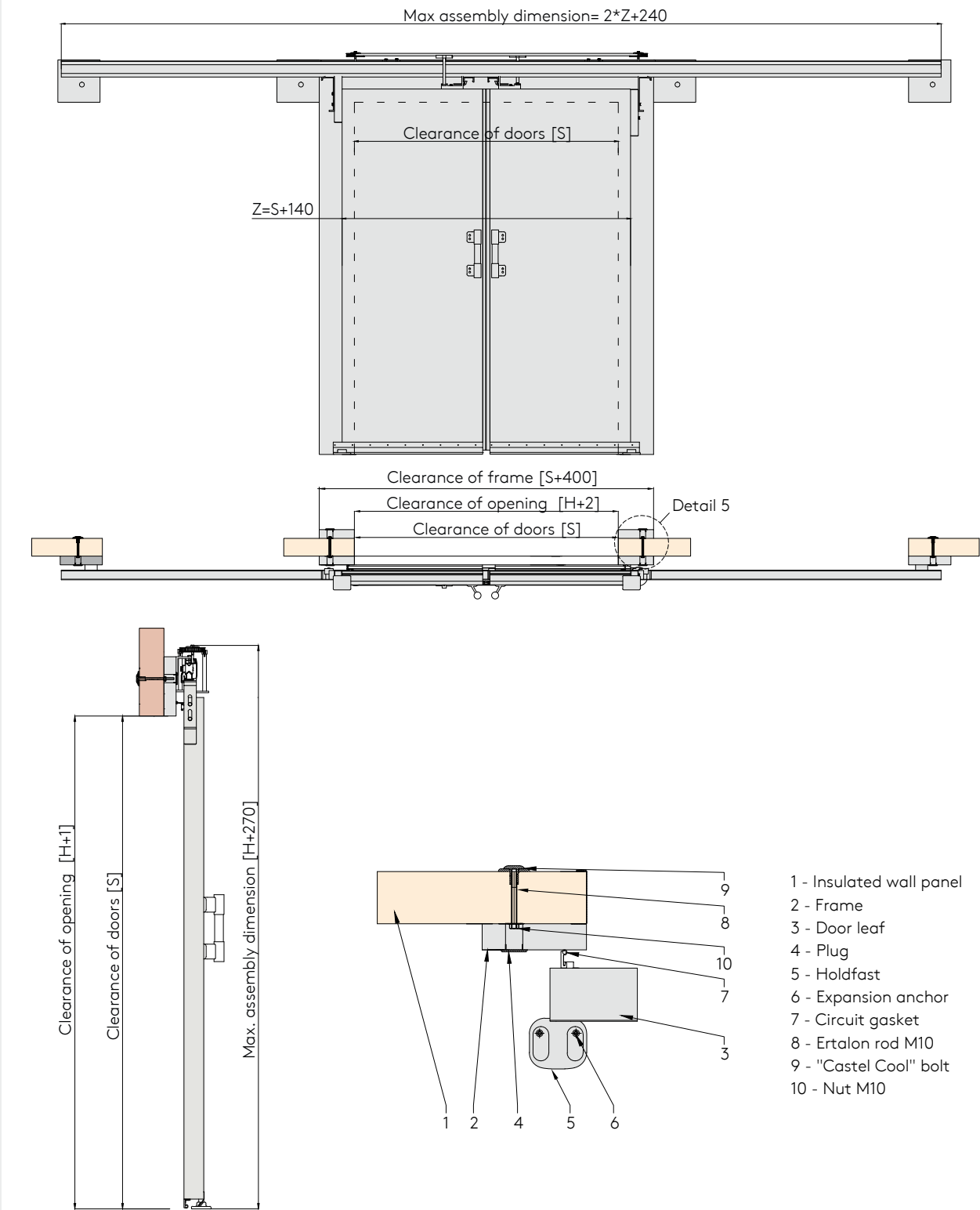
- min.: 1500 x 2000 mm
- max.: 2600 x 3000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Opening assist lever
- Automation – wall-mounted and pull-wire switches
- Window

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



Freezer doors Kingspan DFH1

HINGED, SINGLE LEAF

For use in buildings where the required interior temperature range is 0°C to -45°C
U=0,23 W/m²K (100 mm), U=0,19 W/m²K (120 mm)

Door leaf:

- Thickness [mm]: 100, 120
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided, adapted to the wall construction technology
- Fitted with a heating cable to prevent condensation and the seal from freezing
- Heating threshold for embedding in concrete

Hardware:

- A secure key-operated lock from the renowned French company FERMOD, model 521
- STUV hinges that lift the door leaf when it is opened
- Making it easier to adjust doors without having to remove them

Standard dimensions range:

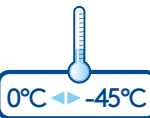
- min.: 600 x 600 mm
- max.: 1500 x 2800 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)



Scan the QR code to find out more:



Lock mechanism - outside view



Lock mechanism - inside view



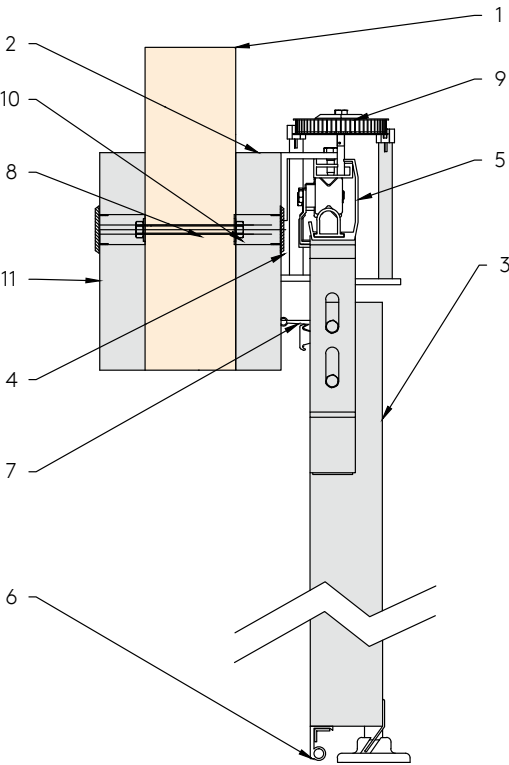
View of the heating cable sheath



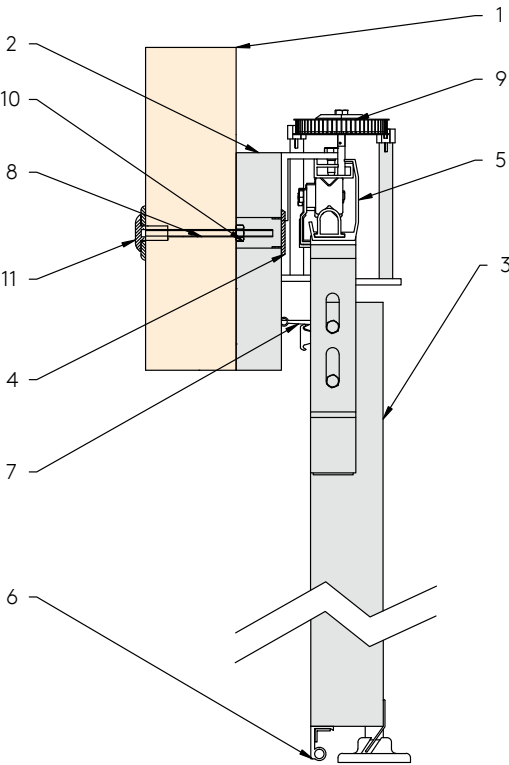
INOX threshold



Steel threshold



- 1 - Insulated wall panel
- 2 - Top crossbar (50 x 240 mm)
- 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 - Top crossbar (50 x 240 mm)
- 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

Options - cont.:

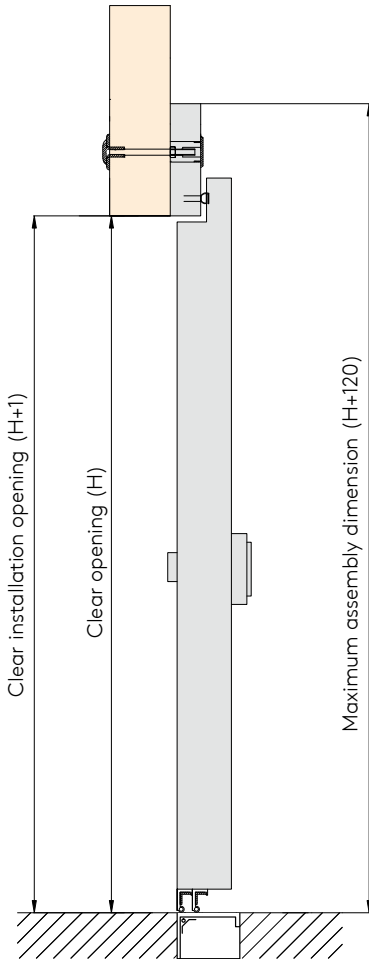
- Steel threshold used where there is a difference in floor level between the interior and exterior of the chamber; INOX threshold laid on the floor (up to 1200 mm wide)
- Internal door frame
- PVC plastic bumpers
- Adapted for a rail system, e.g. with meat, known as 'Meat-Rail'

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

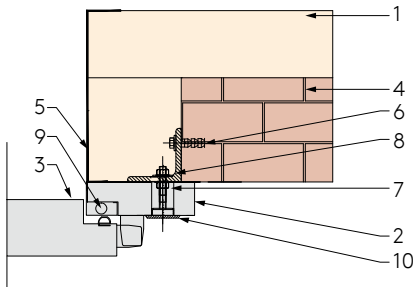


Product example - door installed in a cam-lock chamber:

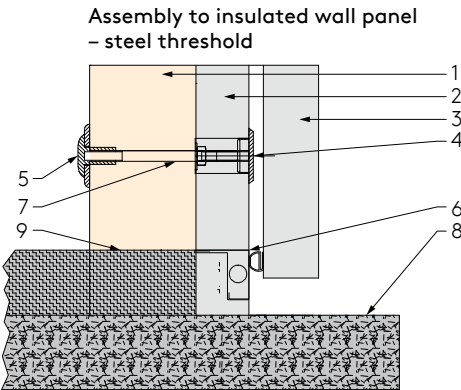


Assembly to insulated wall panel
- one-sided frame,
vertical section

Traditional assembly (brickwork)
- insulated with composite panels

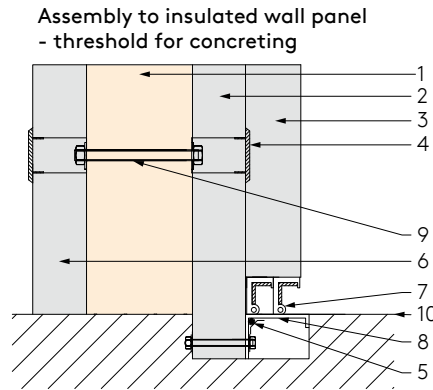


- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Brick wall
- 5 - Flashing
- 6 - Expansion anchor
- 7 - M10 type bolt with expanded washer
- 8 - Angle bar 80x80x8 mm
- 9 - Heating wire in the frame
- 10 - Plug



Assembly to insulated wall panel
- steel threshold

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



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 |

Freezer flush doors Kingspan DFFH1

HINGED, SINGLE LEAF

For use in buildings where the required interior temperature range is 0°C to -45°C

U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm]: 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- External door frame, fitted within the opening, steel, insulated
- Fitting to panels of varying thicknesses, provided the inside of the door is suitably prepared
- Heating in the door frame and threshold
- Frame fitted with a heating cable to prevent condensation and the seal from freezing
- Threshold to be set in concrete

Hardware:

- Standard hinges, chrome-plated
- Key-operated security lock - FERMOD
- Screws and fittings for assembly

Standard dimensions range:

- min.: 600 x 1600 mm
- max.: 1200 x 2300 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- PVC plastic bumpers

Scan the QR code
to find out more:



Lock mechanism



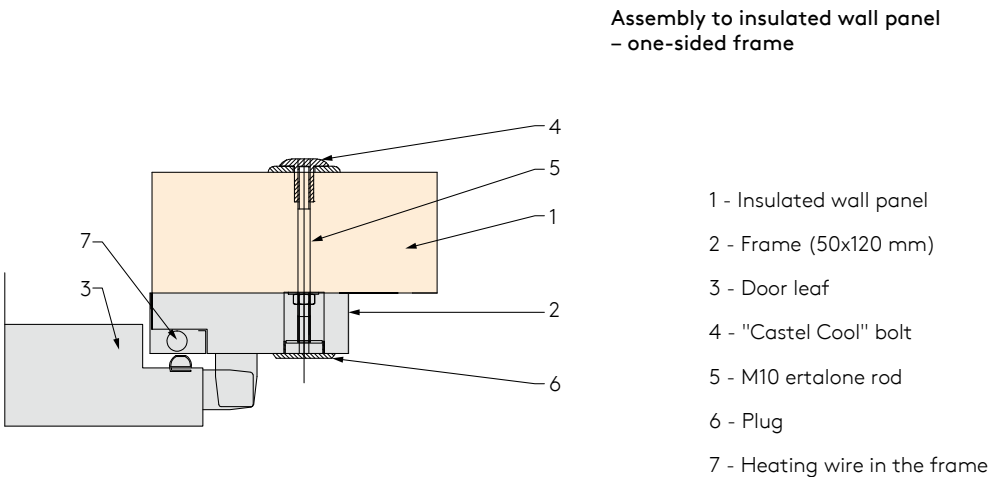
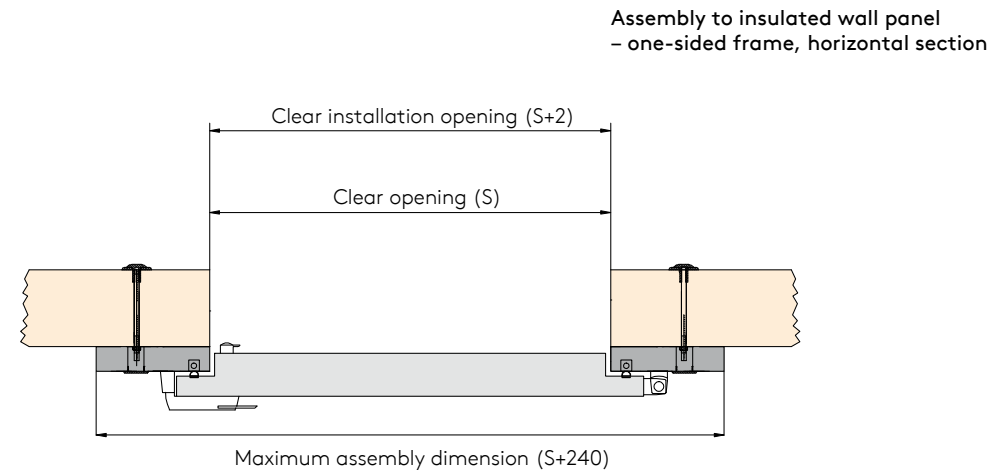
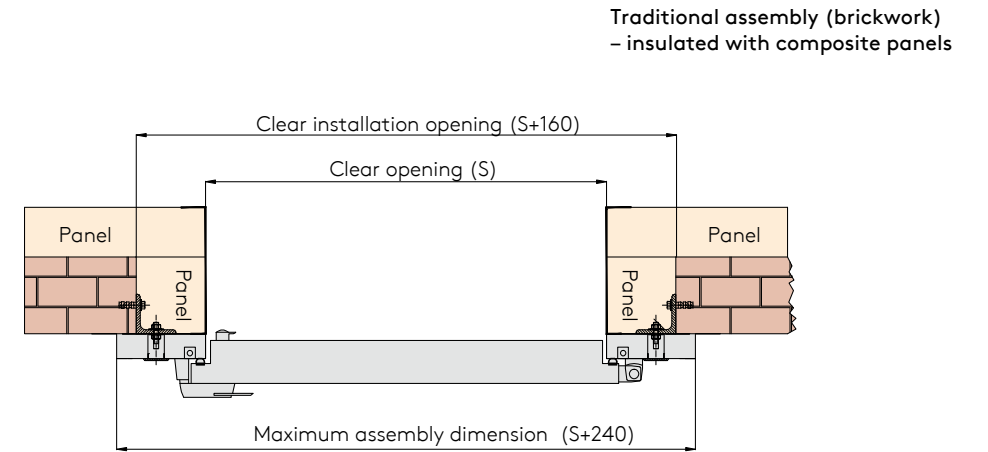
Lock mechanism (inside)

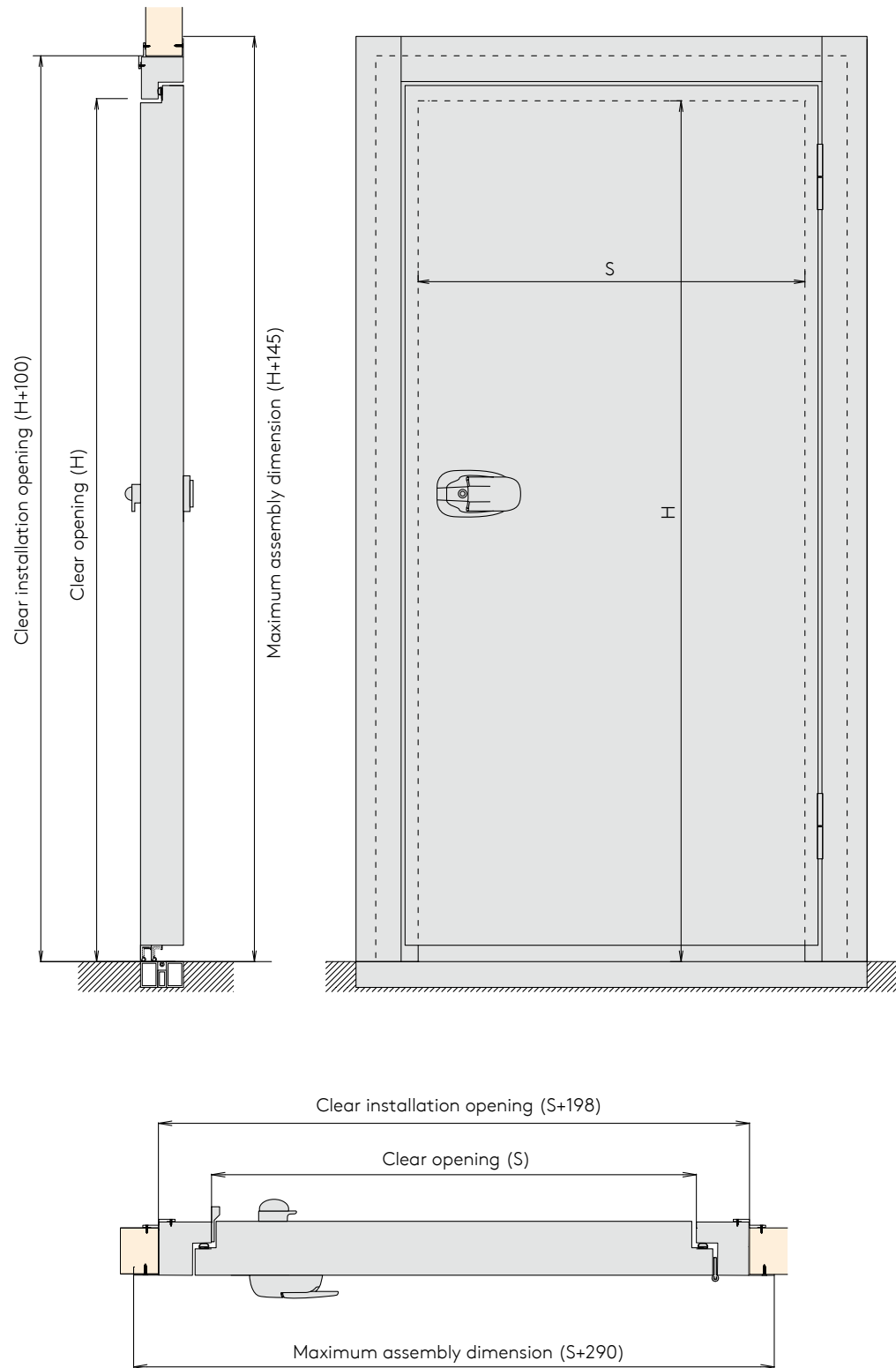


Hinge - inside view

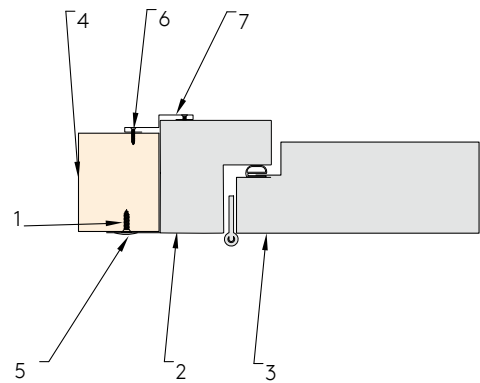


Note:
In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



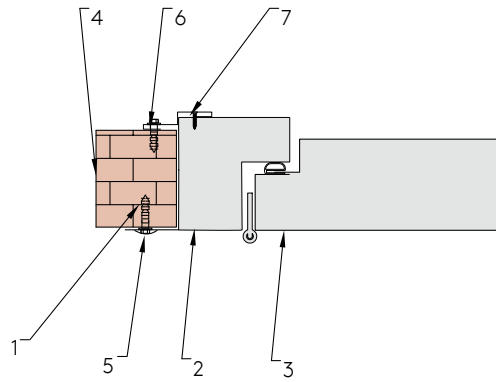


Assembly to insulated panel



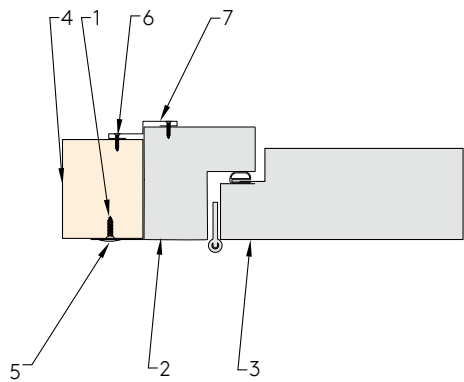
- 1 - Screw
- 2 - Frame
- 3 - Door leaf
- 4 - Wall panel
- 5 - Plug
- 6 - Screw
- 7 - Flashing

Traditional assembly (brickwork)



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

Insulated steel door 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 -45°C

U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm]: 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door panels and the door frame, as well as the joints between the door leaves
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor
- The option to create an asymmetrical division of the door leaves

Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided, adapted to the wall construction technology
- Heating threshold for embedding in concrete
- Frame fitted with a heating cable to prevent condensation and the seal from freezing

Hardware:

- STUV secure key-operated lock
- STUV hinges that lift the door leaf when it is opened
- Making it easier to adjust doors without having to remove them

Standard dimensions range:

- min.: 1000 x 2000 mm
- max.: 2500 x 3000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish



Options - cont.:

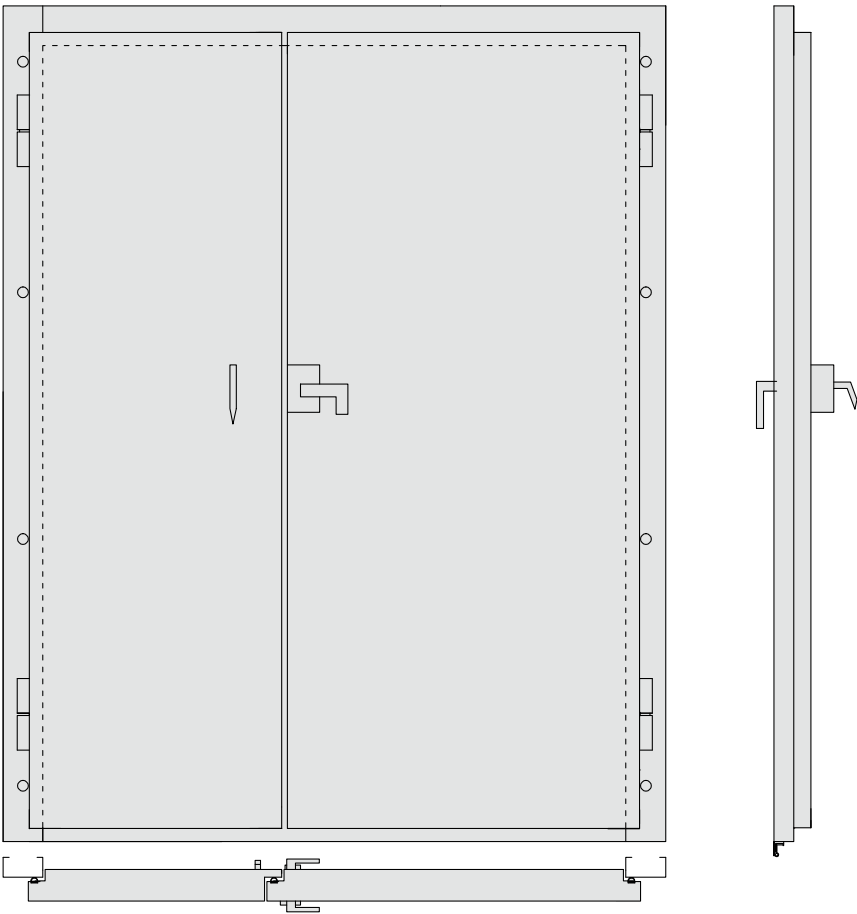
- Smooth or swirl-finish stainless steel (polished)
- Steel threshold used where there is a difference in floor levels between the interior and exterior of the chamber
- Bumpers
- Adapted for a rail system, e.g. with meat, known as 'Meat-Rail'

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

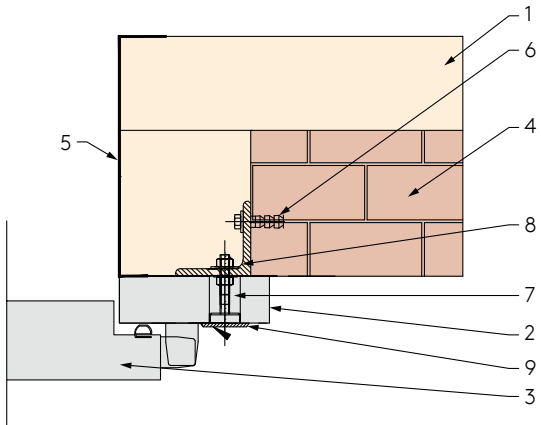
Product example - visible protective foil:



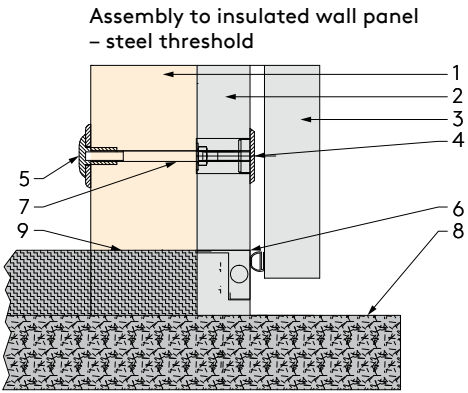


Main view

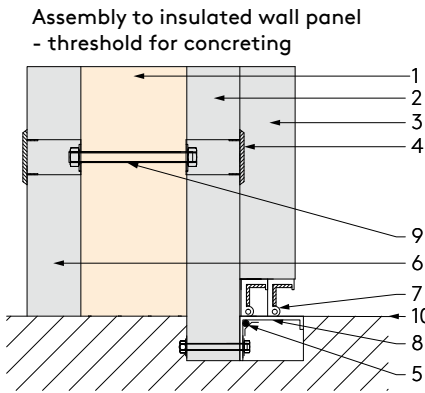
Traditional assembly (brickwork)
– insulated with composite panels



- 1 - Insulated wall panel
- 2 - Frame (50x120 mm)
- 3 - Door leaf
- 4 - Brick wall
- 5 - Flashing
- 6 - Angle bar 80x80x8 mm
- 7 - M10 type bolt with expanded washer
- 8 - Expansion anchor
- 9 - Plug

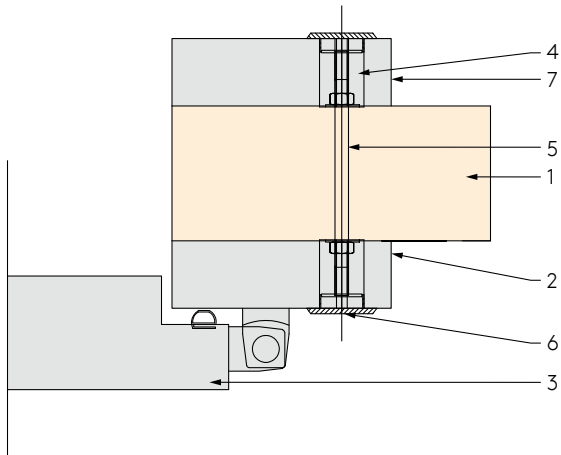


- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - "Castel Cool" bolt
- 6 - Threshold at h=floor level inside, eg. 100 mm
- 7 - M10 ertalone rod
- 8 - "0" level
- 9 - Floor level within the chamber



- 1 - Insulated wall panel
- 2 - Frame
- 3 - Door leaf
- 4 - Plug
- 5 - Heating wire
- 6 - Interior frame
- 7 - Thershold gasket
- 8 - Threshold
- 9 - M10 ertalone rod
- 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 -45°C

U=0,23 W/m²K (100 mm), U=0,19 W/m²K (120 mm), U=0,16 W/m²K (150 mm)

Door leaf:

- Thickness [mm]: 100, 120, 150
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a FERMOD perimeter seal – which seals the joint between the door leaf and the frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided or double-sided, depending on the size of the door
- Adapted to the wall construction technology
- Fitted with a heating cable to prevent condensation
- Heating threshold for embedding in concrete

Hardware:

- Provided by FERMOD, French leader in hardware for refrigeration industry
- A guide rail that lifts the door leaf when it is opened
- Floor-mounted clamps
- Making it easier to adjust doors without having to remove them

Standard dimensions range:

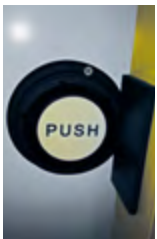
- min.: 1000 x 2000 mm
- max.: 3500 x 4000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)



Lock -outside view



Lock -inside view



Buffer



Door stop



Safety lock mechanism
– inside view



Bottom rail



Options - cont.:

- Safety lock with key
- Opening assist lever
- Automation – wall-mounted and pull-wire switches
- Door leaf thickness 120 or 150 mm
- Adapted for a rail system, e.g. with meat, known as 'Meat-Rail'

Note:

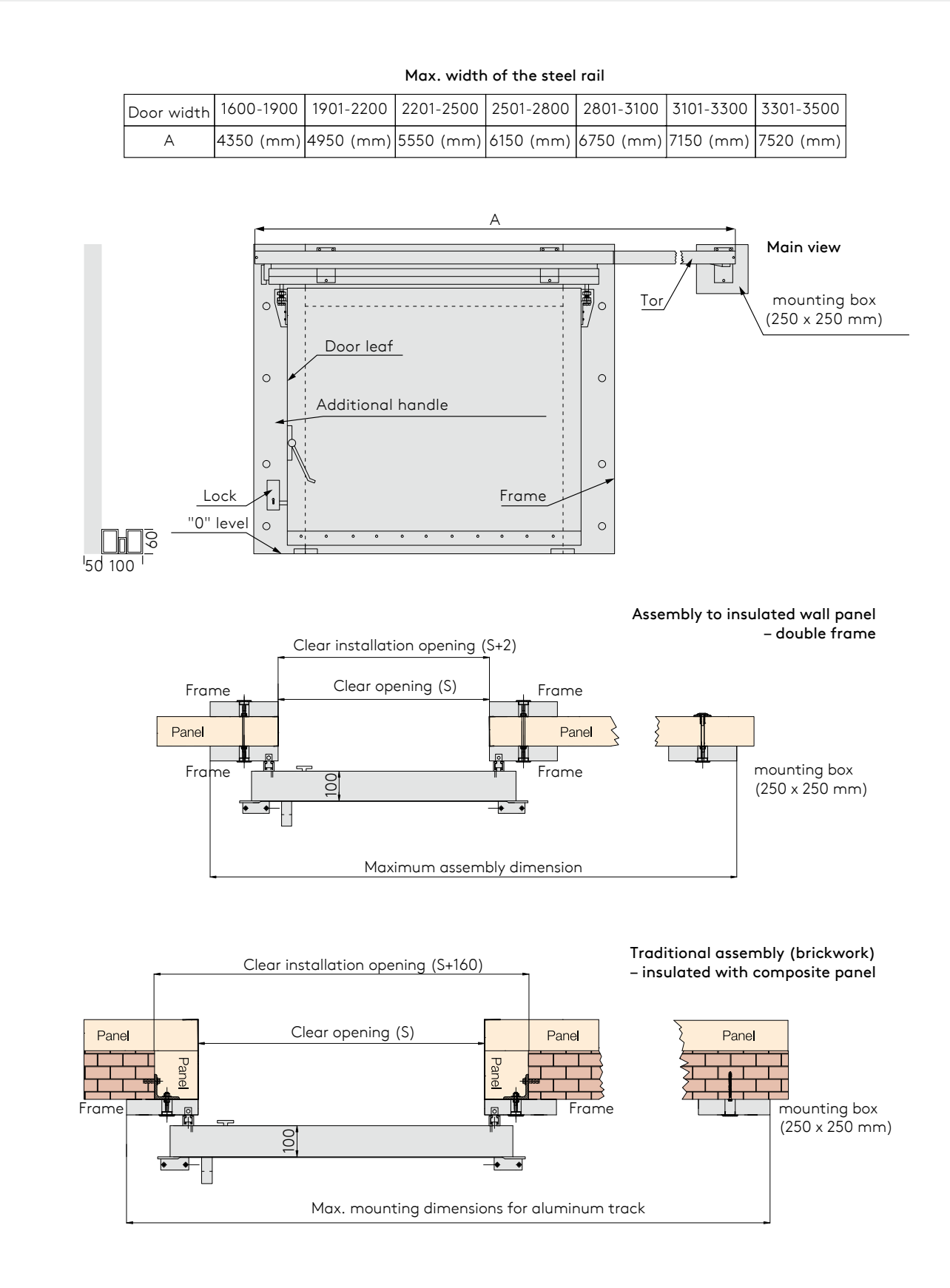
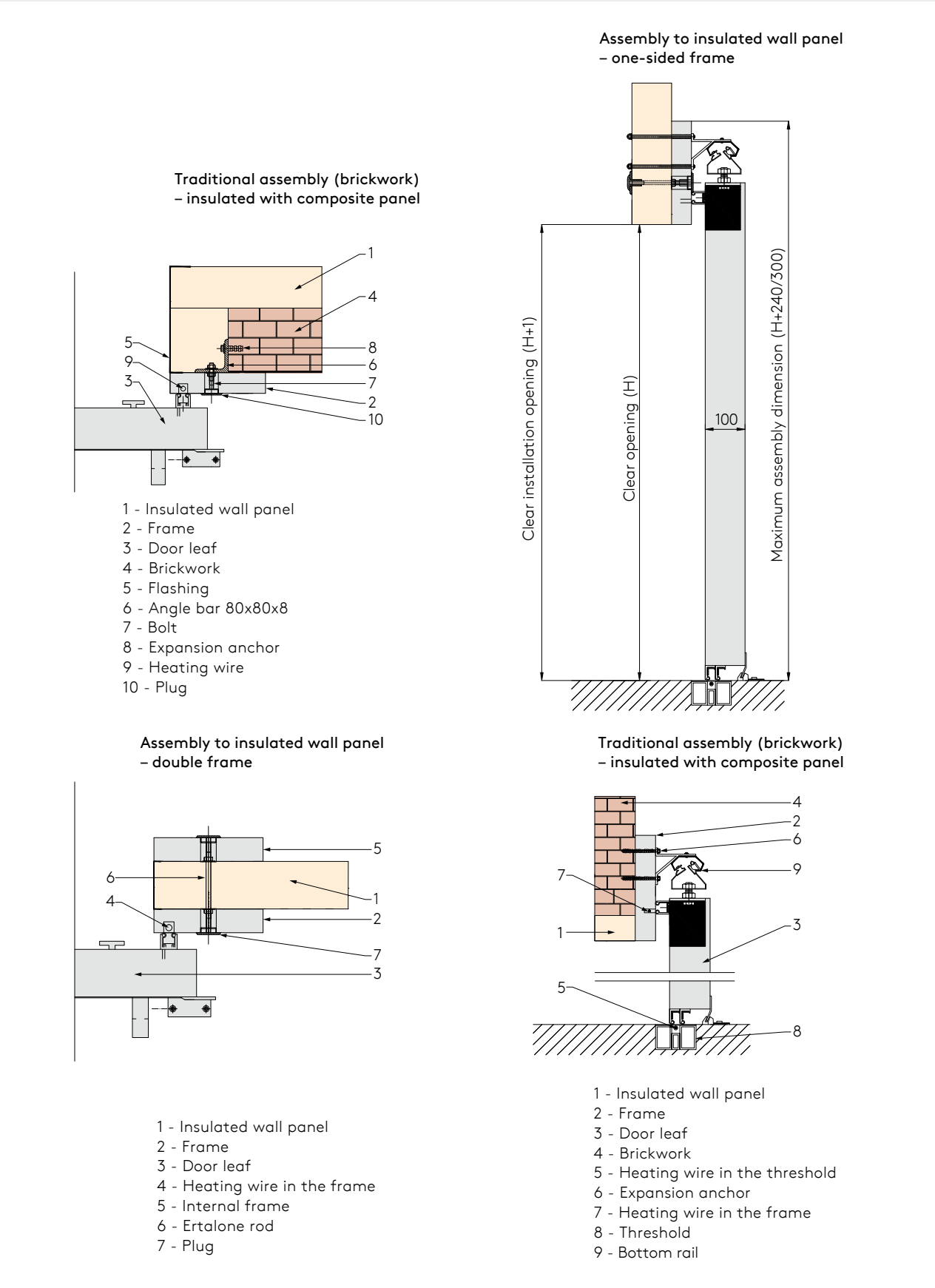
In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

Scan the QR code
to find out more:



Product example:





Freezer doors Kingspan DFS2

SLIDING, DOUBLE LEAF

For use in buildings where the required interior temperature range is 0°C do -35°C
U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm]: 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a perimeter seal – sealing the joint between the door leaf and the door frame
- Fitted with a bottom seal – to seal the gap between the door leaf and the threshold or floor

Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided or double-sided, depending on the size of the door
- Adapted to the wall construction technology
- Fitted with a heating cable to prevent condensation and the seal from freezing
- Heating threshold for embedding in concrete

Hardware:

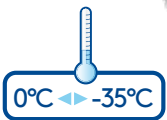
- Provided by FERMOD, French leader in hardware for refrigeration industry
- A guide rail that lifts the door leaf when it is opened
- Floor-mounted clamps
- Making it easier to adjust doors without having to remove them

Standard dimensions range:

- min.: 1500 x 2000 mm
- max.: 2600 x 3000 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Automation – wall-mounted and pull-wire switches



External door handle



Door leaf suspension



Lock (inside) for door with automation

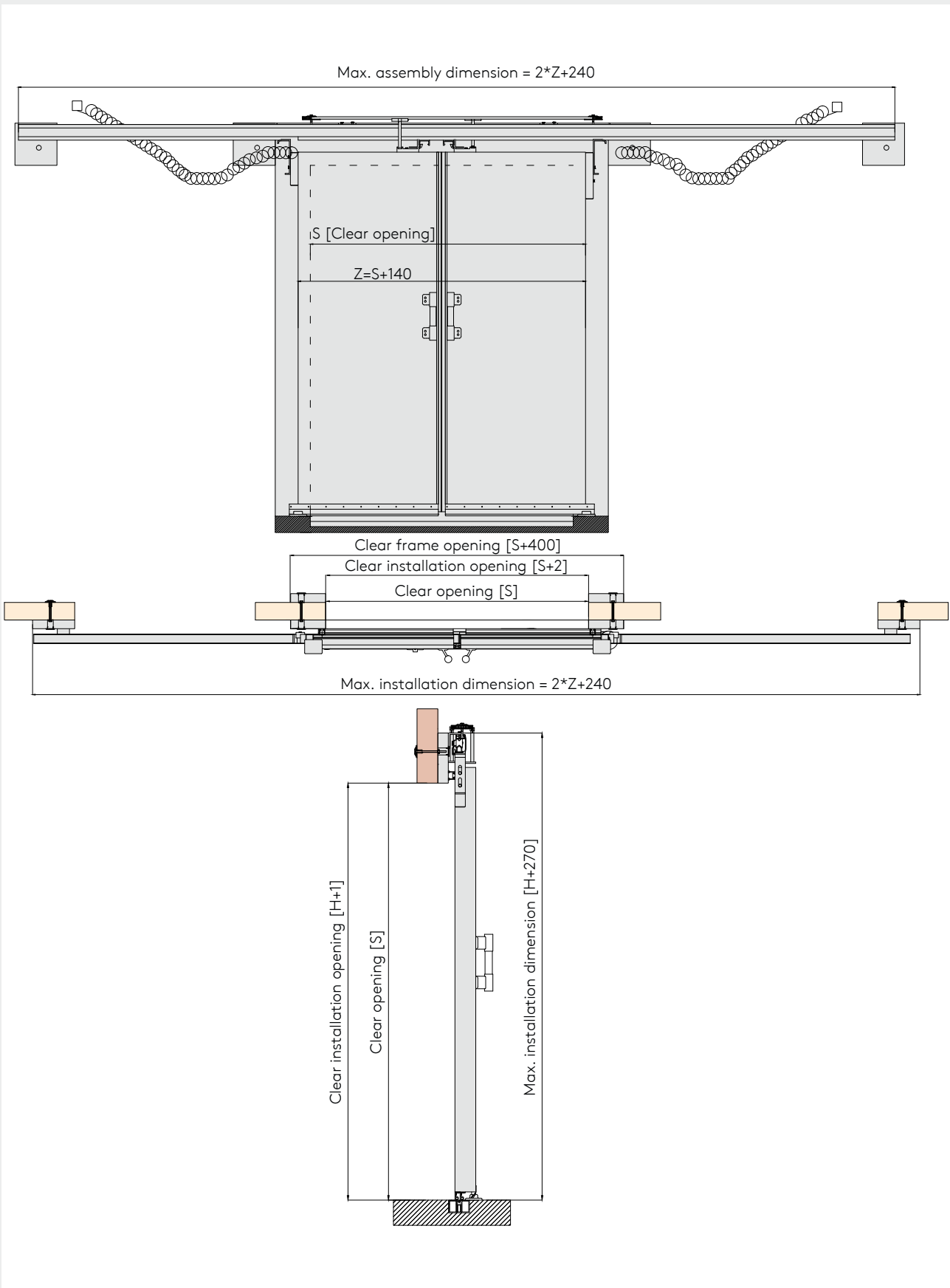


Bottom track element

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

Scan the QR code to find out more:



Gas-tight doors Kingspan DGS1

SLIDING

For controlled, gas-tight environments where the interior temperature range is 0°C to +55°C
U=0,23 W/m²K (100 mm)

Door leaf:

- Thickness [mm]: 100
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a double perimeter seal by FERMOD – which seals the joint between the door leaf and the door frame
- Fitted with a FERMOD bottom seal – which seals the gap between the door leaf and the threshold or floor

Door frame:

- Fitted onto the opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single- or double-sided, depending on the size of the door
- Fitted with a heating cable to prevent condensation and the seal from freezing
- Adapted to the wall construction technology
- Threshold to be set in concrete

Hardware:

- Provided by FERMOD, French leader in hardware for refrigeration industry
- A guide rail that lifts the door leaf when it is opened
- Floor-mounted clamps
- Additional cam clamps
- Window 700 x 700 mm
- Two ball valves for environmental control

Standard dimensions range:

- min.: 1600 x 2000 mm
- max.: 3100 x 3500 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish



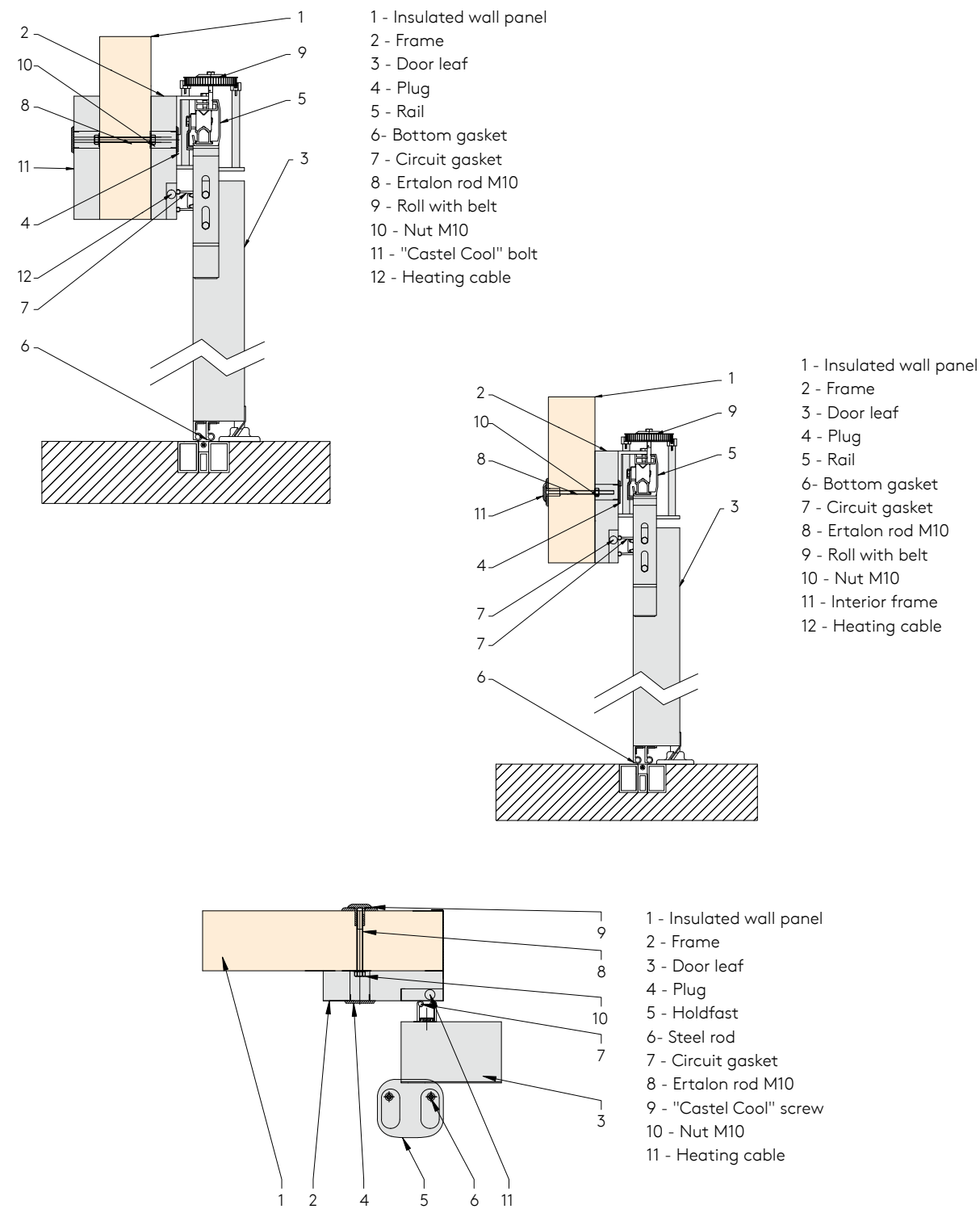
- Smooth or swirl-finish stainless steel (polished)
- Safety lock with key
- PVC plastic bumpers
- Opening assist lever

Scan the QR code to find out more:



Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



Service doors Kingspan DOH1

HINGED, SINGLE LEAF (TECHNICAL DOORS)

Suitable for use as service doors, toilet doors, internal doors in industrial premises, etc.
U=0,63 W/m²K (35 mm)

Door leaf:

- Thickness [mm]: 35
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a perimeter seal – sealing the joint between the door leaf and the door frame
- Fitted with a bottom brush seal

Door frame:

- Door frame fitted into an opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided, adapted to the wall construction technology

Hardware:

- Hinges provided by FAPIN
- Lock with key by GERDA

Standard dimensions range:

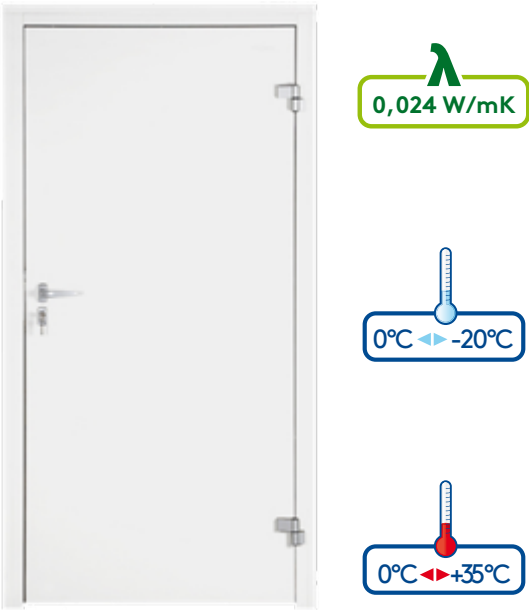
- min.: 700 x 1800 mm
- max.: 1500 x 2300 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Single-chamber, fixed double-glazed window (dimensions: 300 x 700 mm)
- Plexiglas window, rounded (dimensions: 300 x 700 mm)

- Doors with additional reinforcement from the floor up to the height of the door handle
- Door closer
- PVC plastic bumpers
- DORMA panic lock
- Anti-panic lever
- Aluminium threshold fitted on top of the floor

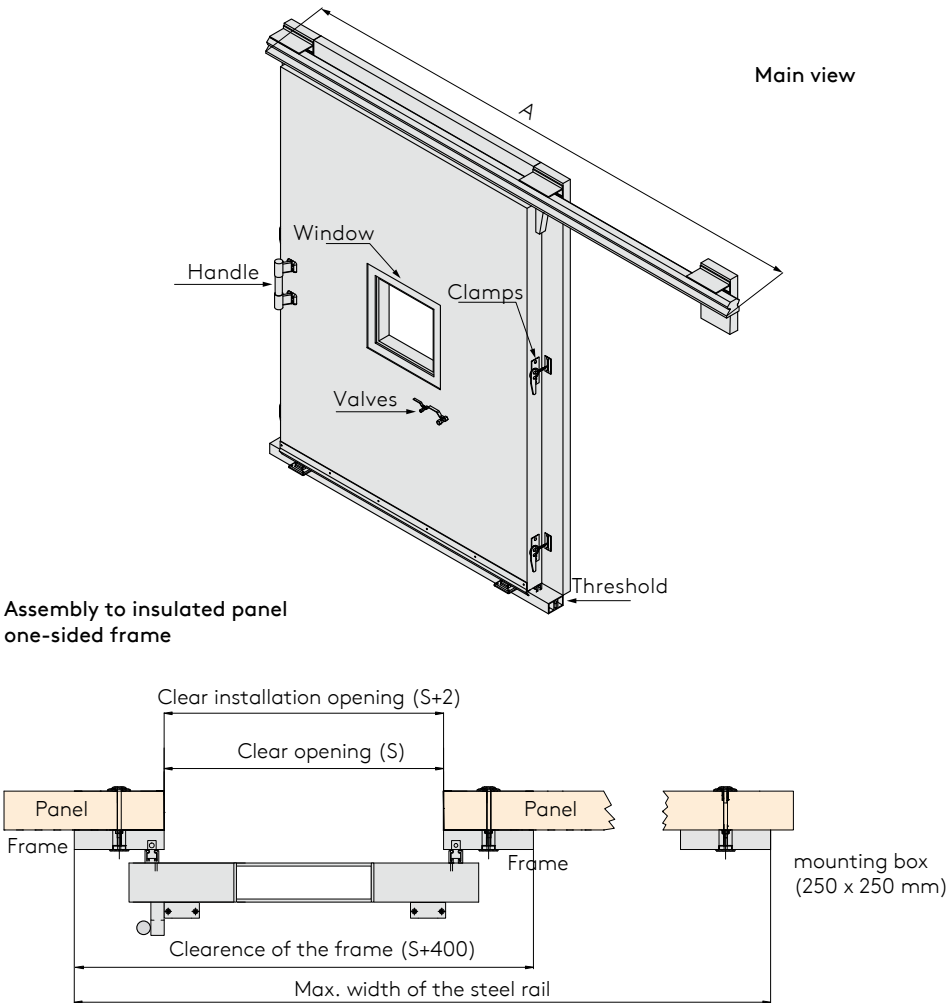
Scan the QR code to find out more:



Standard lock

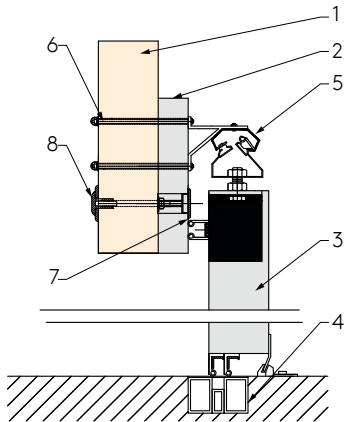
Hinge

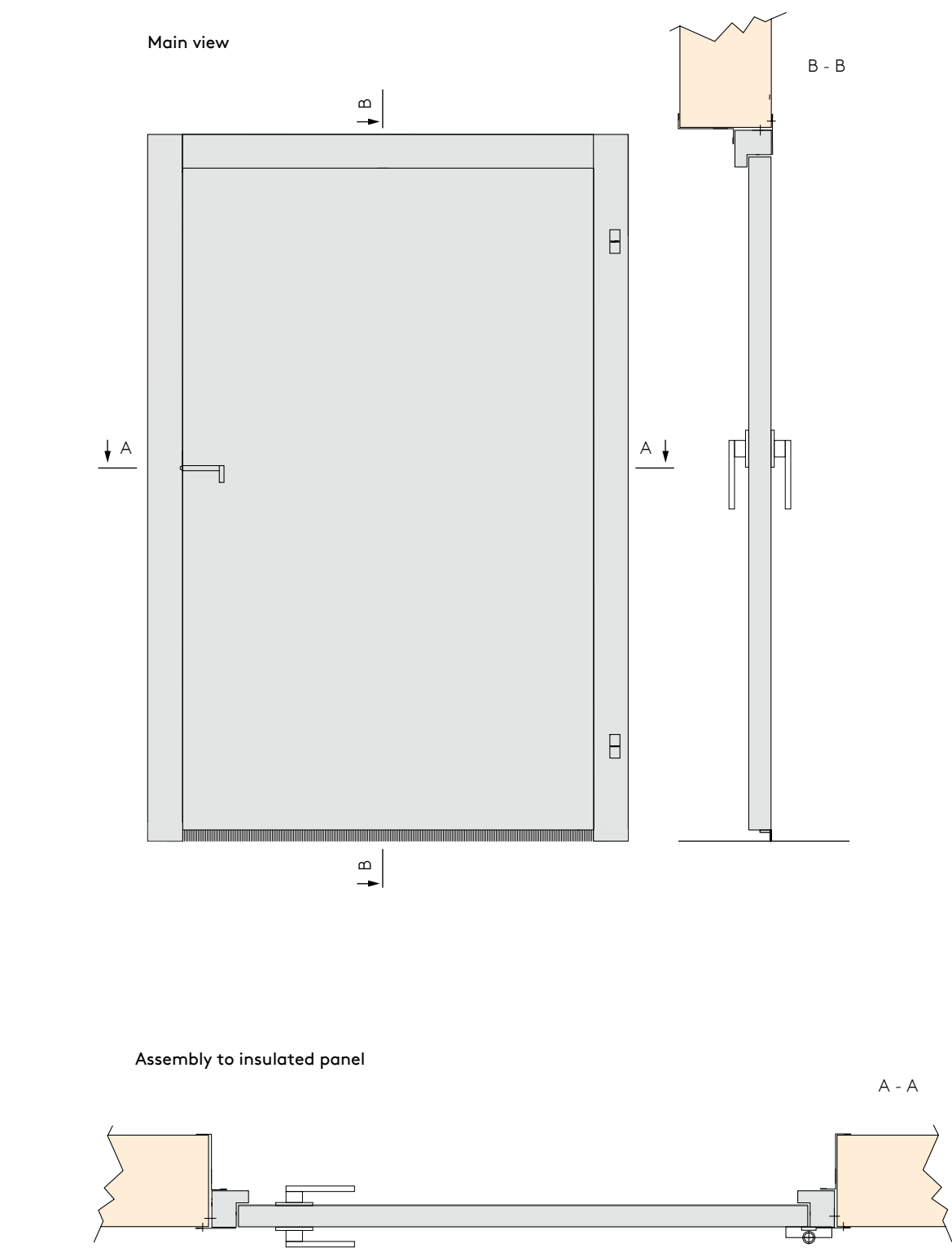
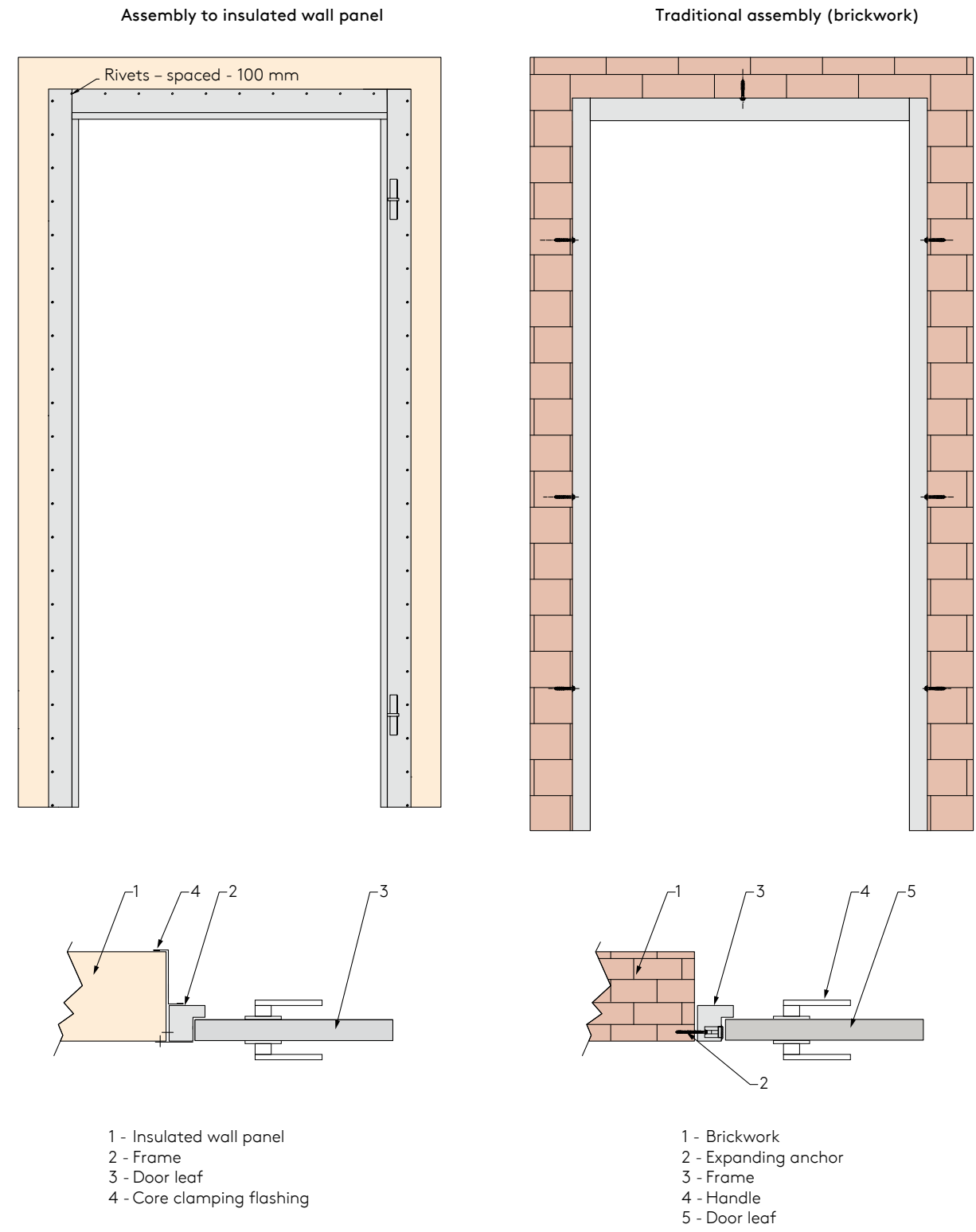
Max. width of the steel rail							
Door width	1600-1900	1901-2200	2201-2500	2501-2800	2801-3100	3101-3300	3301-3500
A	4350 (mm)	4950 (mm)	5550 (mm)	6150 (mm)	6750 (mm)	7150 (mm)	7520 (mm)



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 DROH1

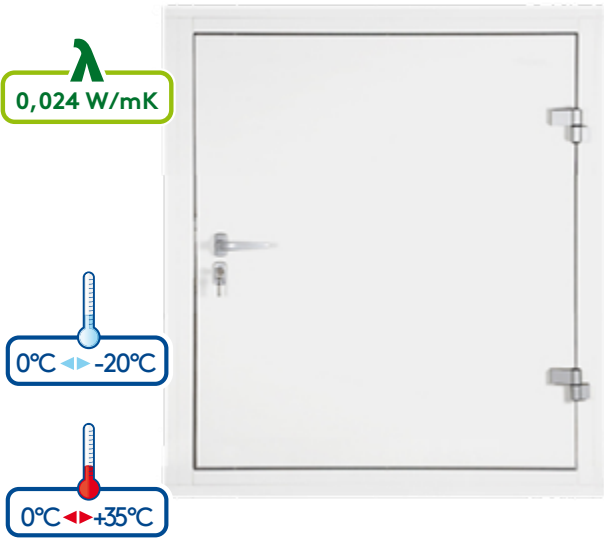
HINGED, SINGLE LEAF (ACCESS DOORS)

For use as inspection doors (hatches). Designed as access panels fitted into walls, ceilings or floors, providing quick access to concealed installations (e.g. valves, meters, siphons, switchboards). They allow for maintenance and repair without the need to damage the building structure. They can also be used as roof hatches, ceiling hatches, etc.

U=0,63 W/m²K (35 mm)

Door leaf:

- Thickness [mm]: 35
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with a perimeter seal – sealing the joint between the door leaf and the door frame
- Fitted with a bottom brush seal
- Inspection doors are used to provide easy access to various hard-to-reach areas of the chamber, e.g. as a ceiling access hatch, a roof access hatch, a side inspection hatch, etc.
- A door frame can be mounted on the wall, or recessed into the wall



Door frame:

- Door frame fitted into an opening
- Made of steel galvanised on both sides and coated with a 25µm-thick polyester paint finish (R9002 PES / R9010 PES)
- Foamed-in-place polyurethane insulation of 50 (+/- 2) kg/m³ density
- Single-sided, adapted to the wall construction technology



Standard lock

Hinge

Options:

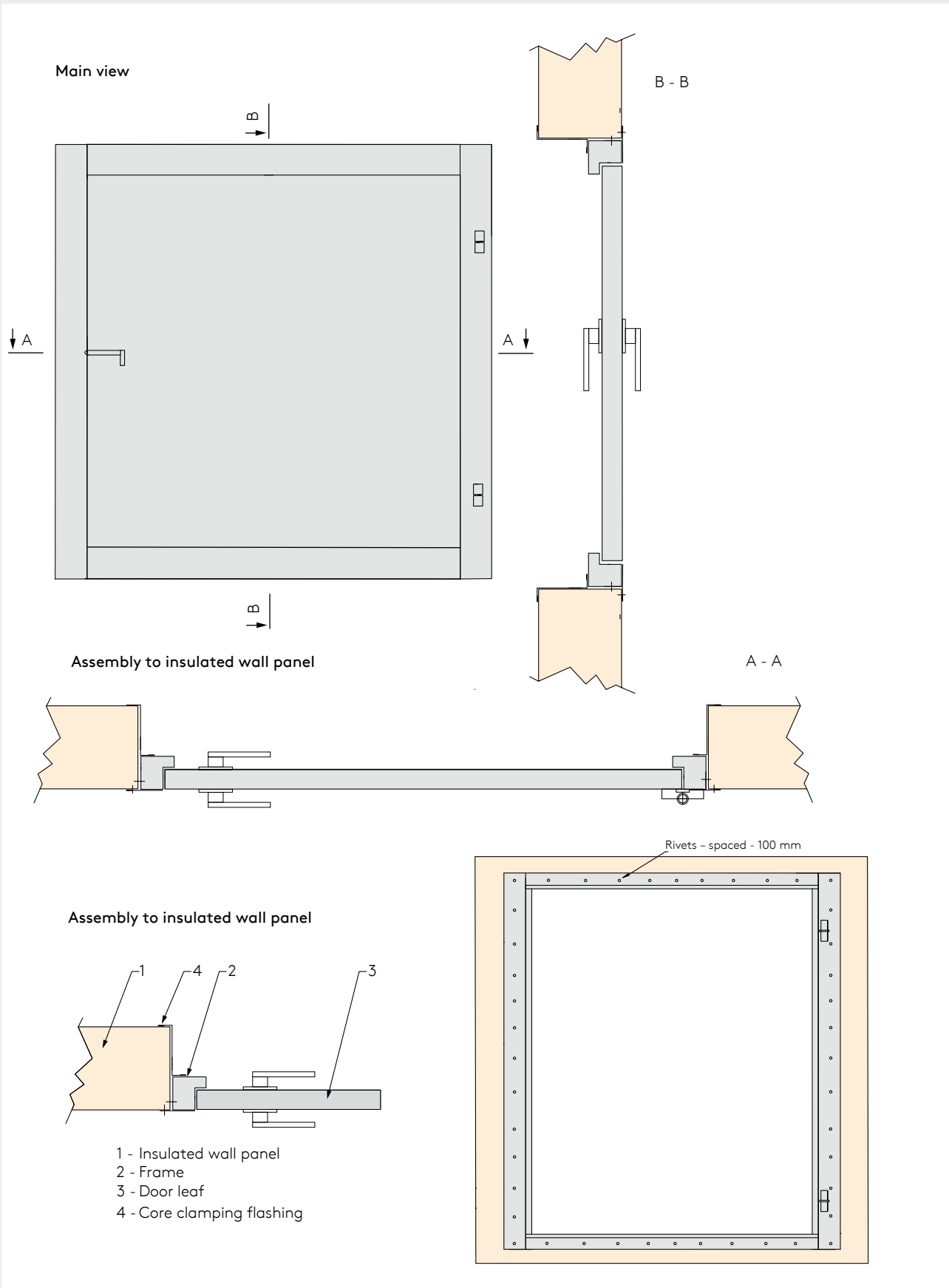
- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Option to produce a hatch in other sizes
- Smooth or swirl-finish stainless steel (polished)
- Single-chamber, fixed unit glazed window

Hardware:

- Hinges provided by FAPIN
- Lock with key by GERDA

Standard dimensions range:

- Standard: 600 x 600 mm



Swing doors Kingspan DSH1

HINGED, SINGLE LEAF

For use in passageways where temperatures range from 0°C to +55°C

Door leaf:

- Thickness [mm]: 40
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Window
- Equipped with bumpers to protect the wing from impacts

Door frame:

- Fitted onto the opening
- Inox steel
- Not insulated
- Single-sided, adapted to the wall construction technology

Hardware:

- Provided by INGRADO

Standard dimensions range:

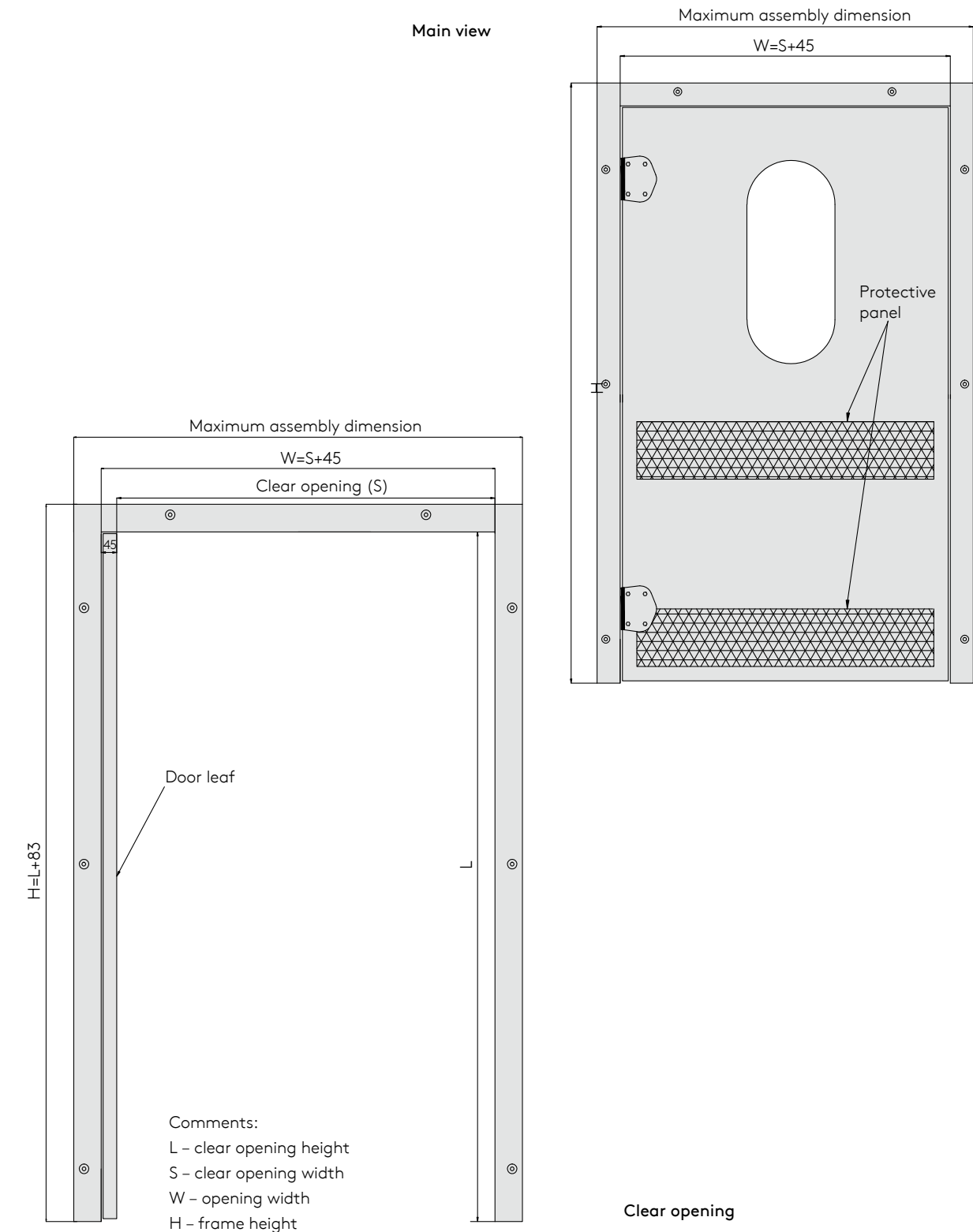
- min.: 800 x 1800 mm
- max.: 1400 x 2600 mm

Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.



Swing doors Kingspan DSH2

HINGED, DOUBLE LEAF

For use in passageways where temperatures range from 0°C to +55°C

Door leaf:

- Thickness [mm]: 40
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Equipped with window
- Equipped with bumpers to protect the wing from impacts

Door frame:

- Fitted onto the opening
- Inox steel
- Not insulated
- Single-sided, adapted to the wall construction technology

Hardware:

- Provided by INGRADO

Standard dimensions range:

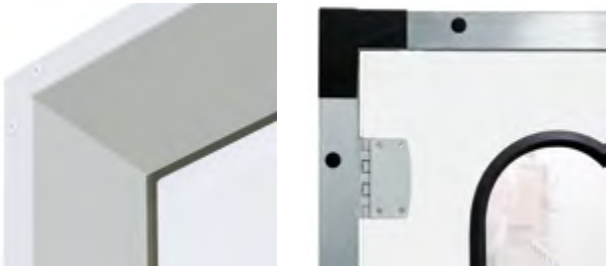
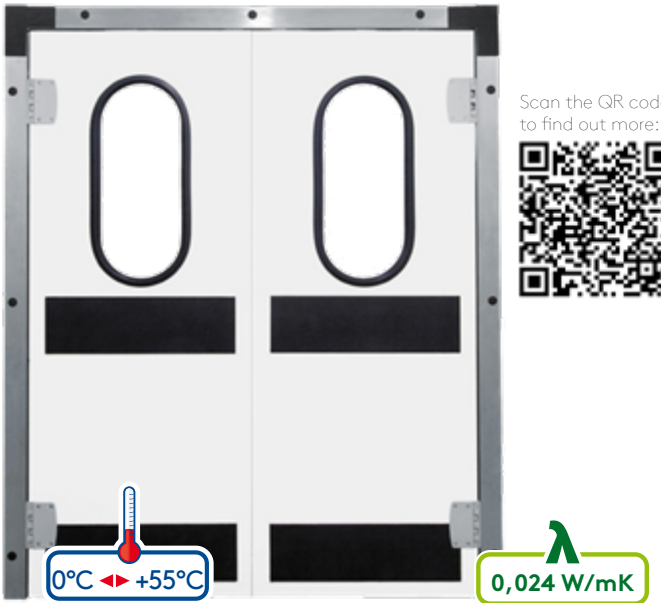
- min.: 1200 x 1800 mm
- max.: 2500 x 2600 mm

Options:

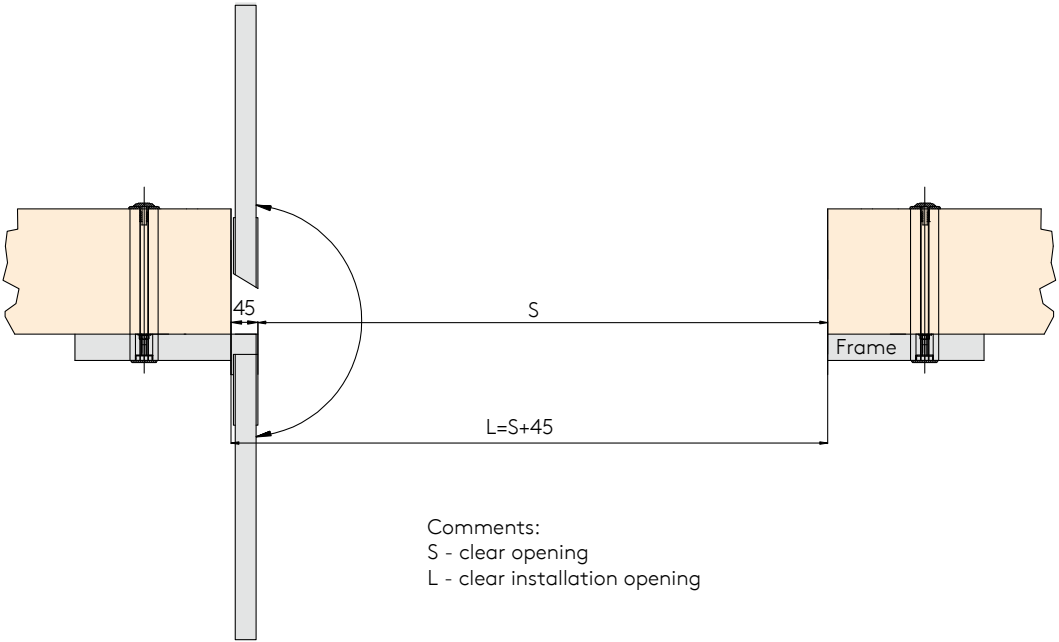
- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)

Note:

In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

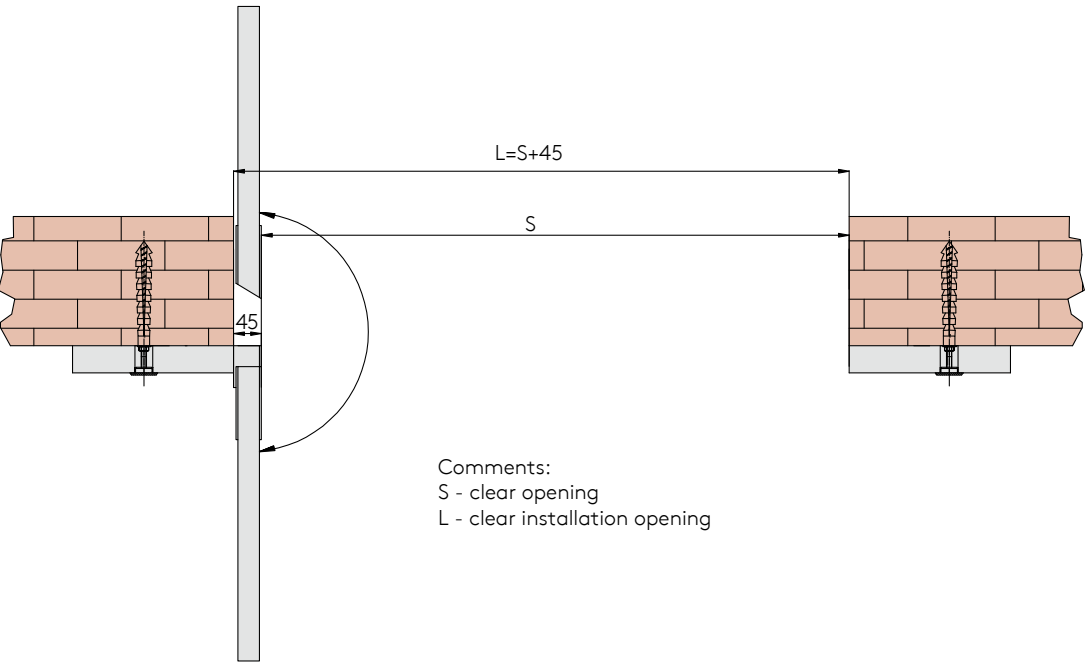


Assembly to insulated wall panel

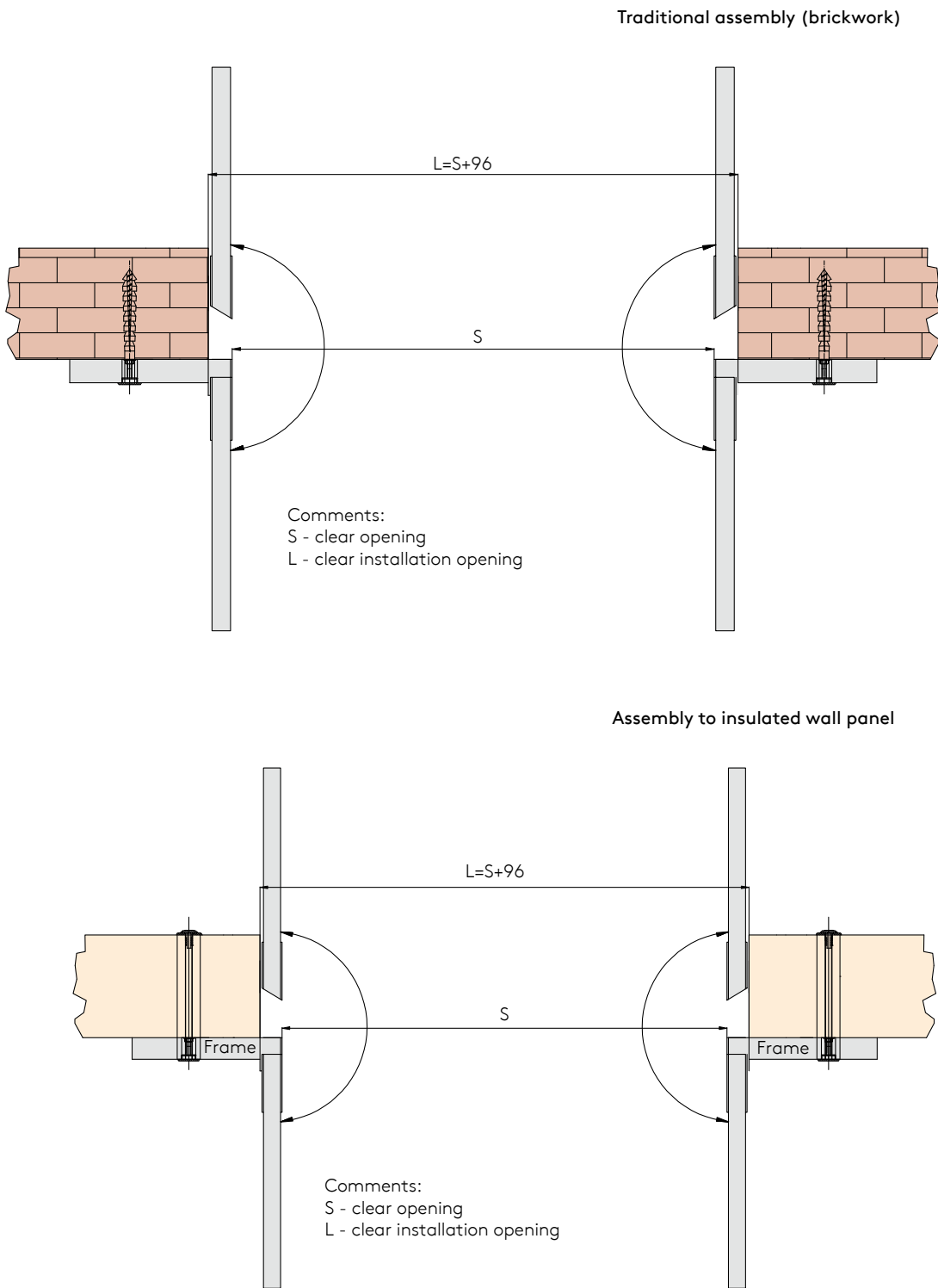
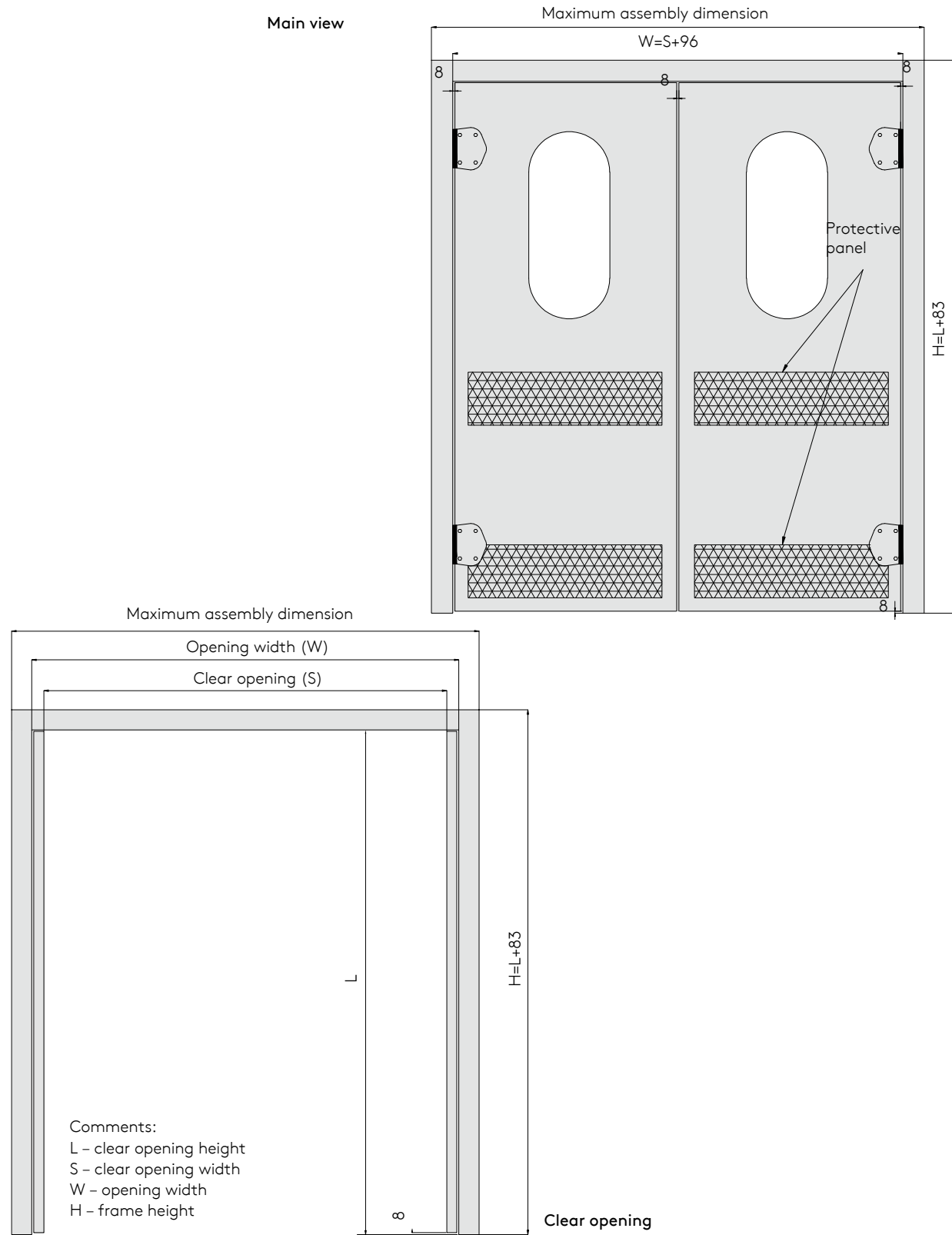


Comments:
S - clear opening
L - clear installation opening

Traditional assembly (brickwork)



Comments:
S - clear opening
L - clear installation opening



SPECIALIST MODULAR CHAMBERS

REFRIGERATION / FREEZING / CLIMATE CONTROL

/ CRYOGENIC CHAMBERS

We manufacture modular chambers with panels of various thicknesses: 80, 100, 120, 150 and 200 mm
The chambers are designed to maintain temperatures ranging from **-130°C to +85°C**

U = 0,30 W/m²K (80 mm)

U = 0,24 W/m²K (100 mm)

U = 0,20 W/m²K (120 mm)

U = 0,17 W/m²K (150 mm)

U = 0,13 W/m²K (200 mm)

Wall and ceiling panel:

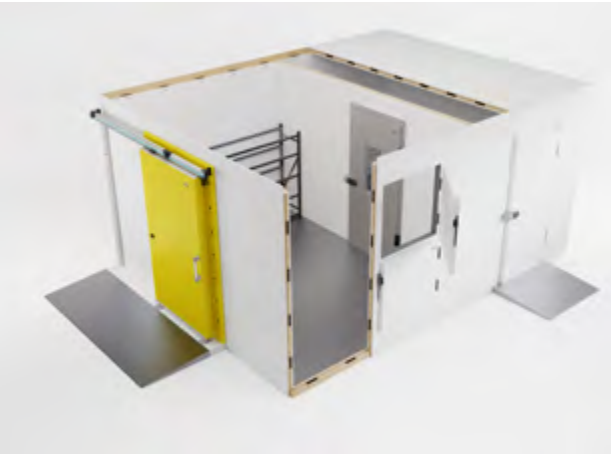
- Made from double-sided galvanised steel coated with a 25µm-thick polyester paint in the colour R9002 PES / R9010 PES
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Camlock assembly

Floor panel:

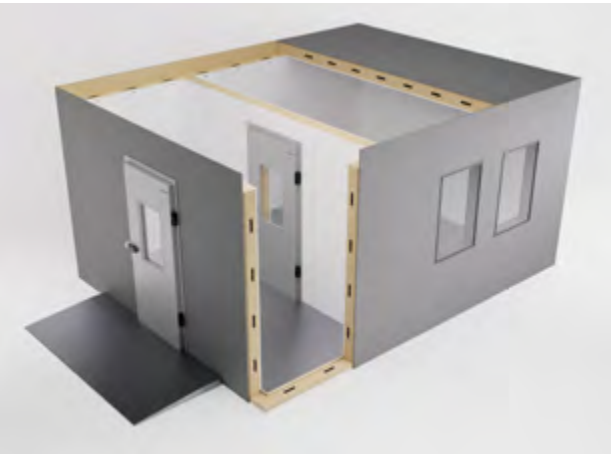
- External side made of double-sided galvanised steel coated with a 25µm-thick polyester paint in the standard colours R9002 PES / R9010 PES
- The floor in the modular chambers is further reinforced with special waterproof pressed plywood, which is covered as standard with grooved aluminium sheet. The thickness of the plywood depends on the load on the floor
- Option to choose any finish for the chamber floor:
 - ribbed aluminium
 - stainless steel
 - trespä
 - another material
- Foamed-in-place polyurethane insulation of 42 (+/- 2) kg/m³ density
- Fitted with hook locks, known as CAM-LOCKS

Doors:

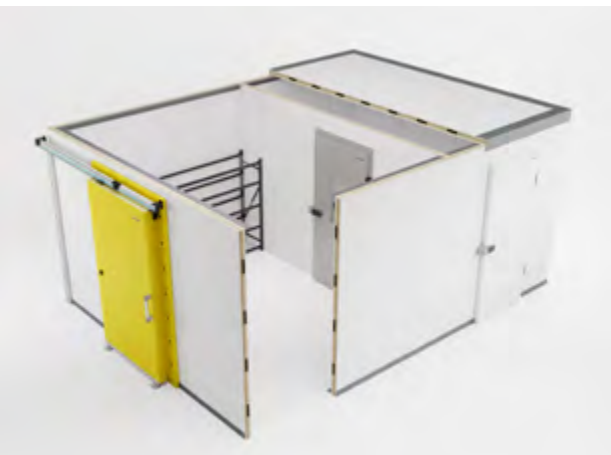
- Made from steel galvanised on both sides and coated with a 25µm-thick polyester paint finish in R9002 PES / R9010 PES
- A secure padlock from the French company FERMOD
- STUV door hinges that support the door leaf when it is opened
- Insulated with foam with a density of 42 kg/m³
- A door frame as part of a wall panel
- Fitted with a heating cable in the freezer compartments



COMFORT – freezer/refrigerator chamber



ULTRA – Medical cryochamber



ECO – freezer/cold store

- Door dimensions: 700 x 1900 mm up to a max. of 900 x 2600 mm

External dimensions of the chamber:

- Width [mm]: a multiple of the module 275, 550 or 1100
- Depth [mm]: a multiple of the module 275, 550 or 1100 (max. 3610)
- Height [mm]: min. 1800, max. 3610

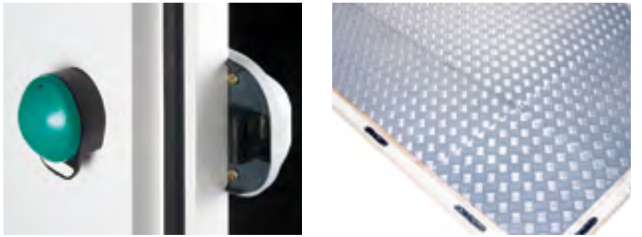
Options:

- Colours and sizes other than the standard ones
- Foodsafe – a 150µm-thick, chemically inert coating for indoor use and food contact
- Kingspan Spectrum™ – a semi-matt polyurethane coating with a nominal thickness of 50µm and a slightly textured finish
- Smooth or swirl-finish stainless steel (polished)
- Custom coating available on one or both sides
- A chamber without a floor
- The floor has been further reinforced for greater strength
- The option to install sliding doors that are larger than standard
- The option of using partition walls within a single chamber, or within combined refrigeration and freezer chambers



Lock

Hinges



Lock mechanism

Floor

Note:

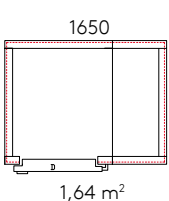
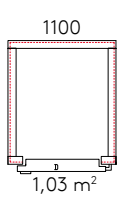
In order to maintain the validity of the warranty, every room where Kingspan doors or chambers are installed must be equipped with a decompression valve or other ventilation element enabling decompression of the room.

Scan the QR code and view the assembly instructions:

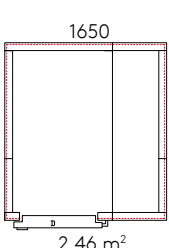
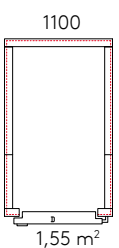


Depth
Width

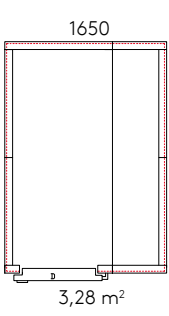
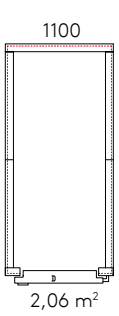
Cold store room - 1260
Freezer room - 1300



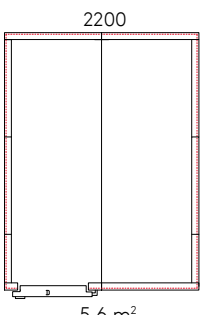
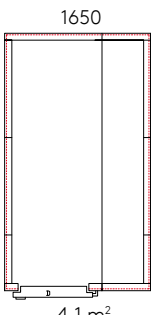
Cold store room - 1810
Freezer room - 1850



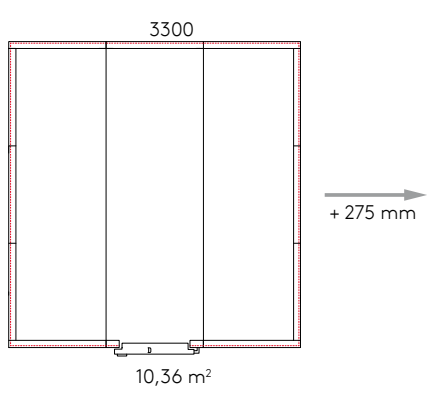
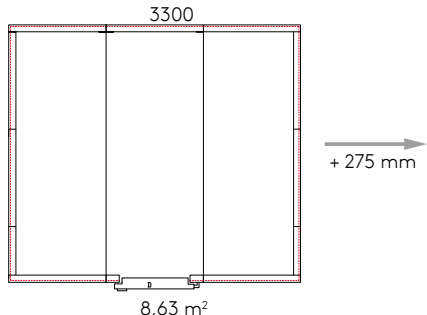
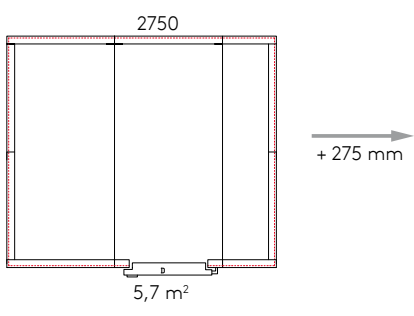
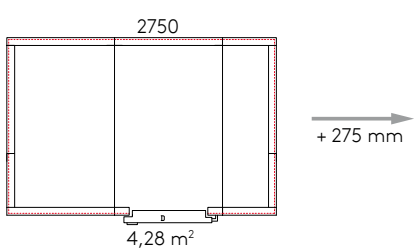
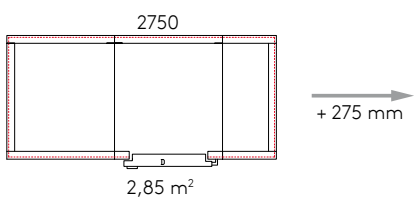
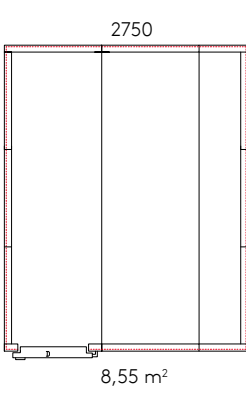
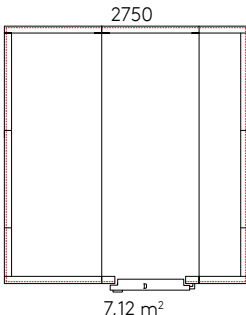
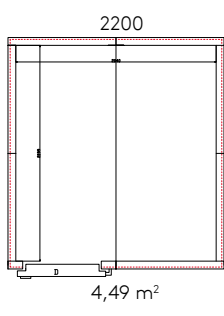
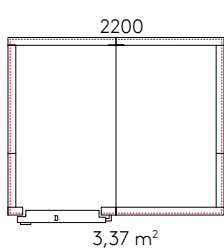
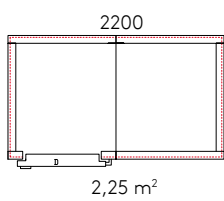
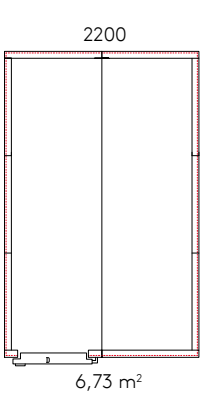
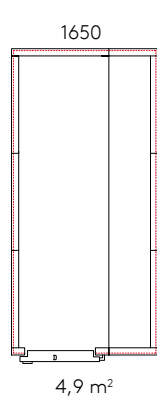
Cold store room - 2360
Freezer room - 2400



Cold store room - 2910
Freezer room - 2950



Cold store room - 3460
Freezer room - 3500



It is possible to build a chamber with non-standard dimensions – please contact Kingspan’s Technical Department.

PVC THERMAL CURTAINS AND STRIPS

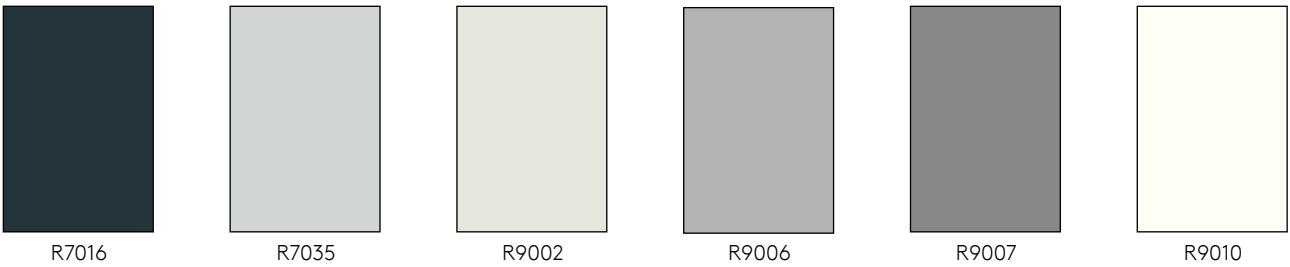
Strip curtains are a very quick and easy way to erect any temporary structures for separating temperature zones. Strips made of heat-resistant plastic form a wall around a given area. The strips are hung on a rail so that they overlap, and are secured with screws. The transparency of the strips enhances safety for both pedestrians and vehicles.

- FERMOFLEX strip curtains, made from PVC, are suitable for a wide range of applications, including:
 - cold stores and freezers
 - hygiene zones
 - environments sensitive to noise or light
- The profiles are very easy to clean
- The straps can be fitted or replaced individually
- In accordance with the HACCP programme, FERMOFLEX strip curtains enable:
 - Minimising temperature fluctuations
 - Extending the service life of refrigeration components
 - Energy saving
 - Preventing ice from forming at sub-zero temperatures, thereby improving health and safety conditions
- The material from which the curtains are made complies with European food hygiene regulations
- FERMOFLEX strip curtains for cold stores are used in chambers with a temperature range of -10°C to +50°C
- FERMOFLEX strip curtains for freezing rooms are used in chambers with a temperature range of -50°C to +10°C
- A strip curtain can be used to complement existing doors or gates, but also on its own in openings without doors or gates
- The use of FERMOFLEX strip curtains as an additional thermal barrier at doors and gates in cold stores and warehouses means that the gates can remain open for longer periods, e.g. during transport when there is heavy footfall or vehicle traffic
- Get in touch with our specialists and we'll find a solution tailored to your needs

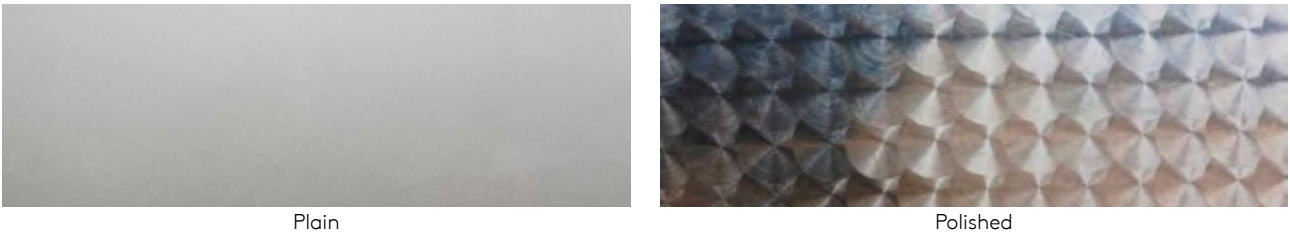


COLOURS AND ACCESSORIES

Standard colours – PES (polyester)



INOX

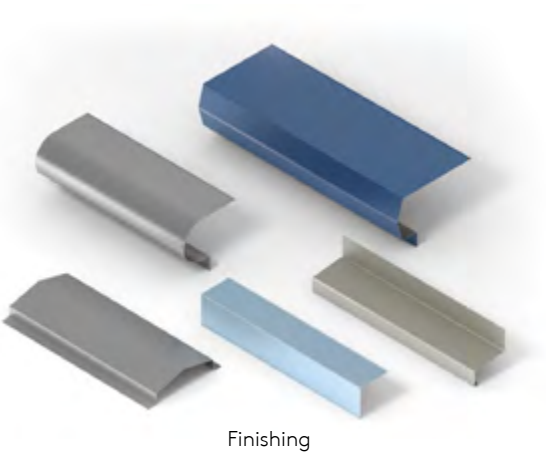


ACCESSORIES

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



Customised assembly solutions



Finishing



Corner fitting trims

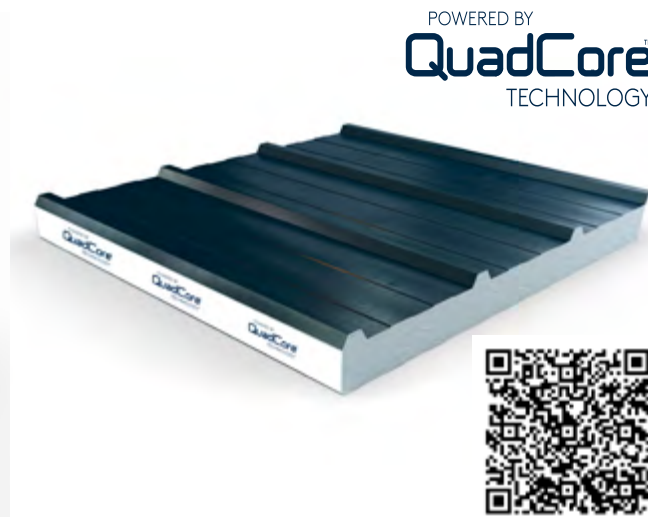


PVC fittings

NOTES



KS TF QuadCore® and KS TL QuadCore® wall systems

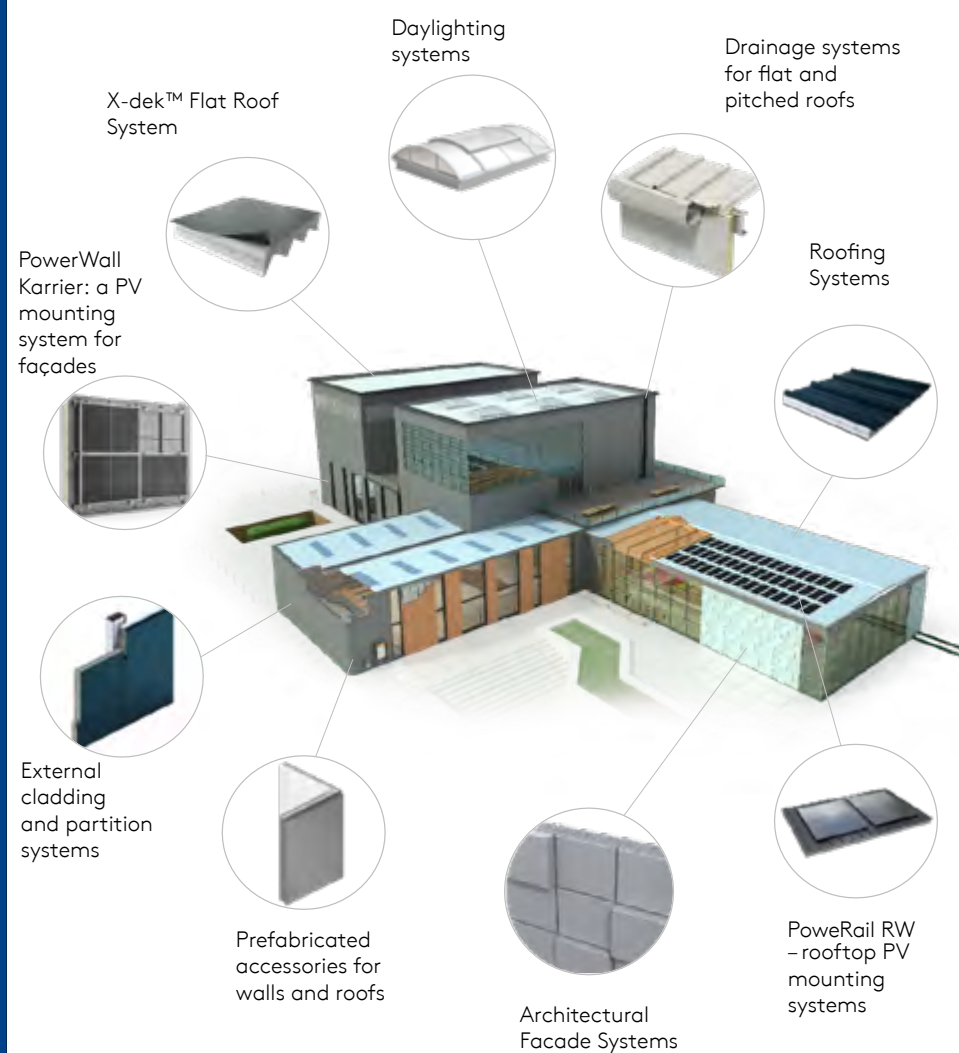


KS RW QuadCore® roofing systems

Kingspan
Complete
Envelope
Systems

Kingspan isn't just about sandwich panels; it offers complete systems for modern construction.

Scan the QR code to
find out more:



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For the latest and most comprehensive product details, please always refer to the latest information by scanning the QR code or clicking this [Link](#).

The information provided in this publication is accurate as of its date of publication and represents our commitment to quality and transparency. However, Kingspan Insulated Panels reserve the right to modify product specifications without prior notice to reflect advancements or improvements.

For applications not explicitly covered within this publication, consultation with our Technical Advisory Service is strongly advised to ensure the product meets your specific requirements. Customer are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations.

We reserve the right to update this publication, and any other informational materials, at our discretion and without notice.

For the latest information, please visit: www.kingspan.pl

