



Solutions for Safety

# STEP UP

SAFETY REGULATIONS, INSTRUCTIONS  
FOR INSTALLATION AND USE

Leg.  
Decree  
81/2008

EN  
14122-4

NF E  
85-016:



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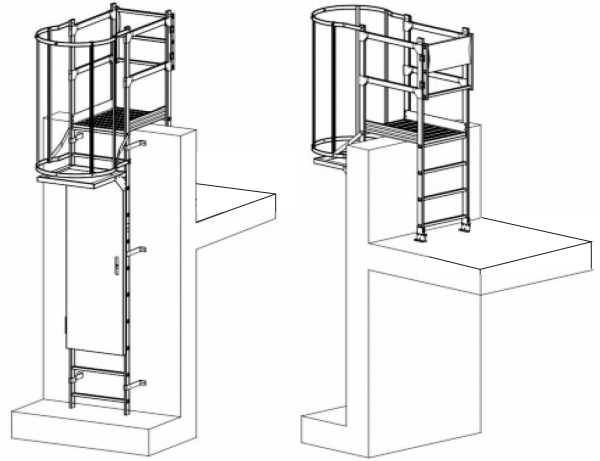
Manufactured by:

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## GENERAL FEATURES

- Cage diameter: 750 mm
- Rung spacing: 300 mm
- External ladder width: 636 mm
- Internal ladder width: 588 mm
- Ladder profiles: 65 x 24 mm
- Ladder rung: 29.5 x 29.5 mm, anti-slip



### DURABILITY

Manufactured in aluminium (ladder, rings, front exit) and high-strength steel with anti-corrosion treatment applied to fasteners, safety door, upper part of safety door, and half-height safety door.

### REINFORCED RIGIDITY

Extruded aluminium profile 65 x 24 mm.  
Anti-slip aluminium rung 29.5 x 29.5 mm.

### SIMPLIFIED INSTALLATION

Fast-assembly system for easy installation: fasteners, ladder-to-ladder, and front exit-to-ladder bolted joints. The system requires only one type of ring and one type of bracket for the entire installation.

## REFERENCE STANDARD

Caged ladders, or fixed ladders, are collective protection systems for safe access at height to machinery or buildings.

With a complete range of accessories, they can be adapted to every configuration:

- with or without changes in direction
- wall exit or hatch exit
- with or without closing panel
- fastening on cladding

The ladders are delivered pre-drilled, with pre-assembled components to facilitate installation.

### ACCESS SYSTEM COMPLIANT WITH CURRENT STANDARDS

In line with the latest updates to applicable standards, **ROTHO BLAAS SRL** supplies fixed ladder systems that comply with French and European requirements.

This system meets the requirements for fixed ladders as defined by Italian Legislative Decree 81/2008, EN 14122-4 and NF E 85-016.

### CAGE

The cage is composed of horizontal rings and vertical rods fixed together. The distance between two consecutive rings must not exceed 1,500 mm. Rings must be perpendicular to the vertical rods and evenly spaced. Cage installation is mandatory for ladder heights exceeding 3,000 mm (5,000 mm according to Italian Legislative Decree 81/2008). The bottom of the cage must be positioned between 2,200 and 3,000 mm above the base (maximum 2,500 mm according to Italian Legislative Decree 81/2008). The top of the cage must reach the handrail level of the landing area. The vertical distance between cage rungs must not exceed 300 mm.

### SAFETY DOOR

Access to the landing area must be equipped with a safety door compliant with EN ISO 14122-4, which must open inward, toward the secured area.

### STEPS

If the climbing height (H) of the ladder or fixed platforms exceeds 8 m according to NF E85-014, or 10 m according to EN 14112-4, the ladder must be equipped with an intermediate rest platform.

In cases where multiple ladder flights are used, the vertical height between the landing platform and the nearest landing, or between two rest platforms, must not exceed 6 m.

The vertical clearance between the floor and the lowest part of the ladder's safety cage or handrail must be between 2,200 mm and 3,000 mm.

To ensure the system is compliant with applicable standards, all components must be supplied by **ROTHO BLAAS SRL**. **ROTHO BLAAS SRL** is not liable if third-party components are used.

Before starting ladder installation, it must be verified that all installers are operating in safe conditions. All necessary safety measures must be in place and adapted to the specific site configuration, including training for working at height.

The installer must ensure that the underlying structure meets the technical requirements for securely anchoring and using the ladder system. **STEP UP** ladders must not be used for their own installation.

Ladders are means of access to elevated areas and are reserved for authorized personnel only. Ladders must not be used as anchorage points. Therefore, it is strictly prohibited to attach personal protective equipment (PPE) to them, to drill, cut, or make any modifications in order to fix products other than those specifically provided by the manufacturer.

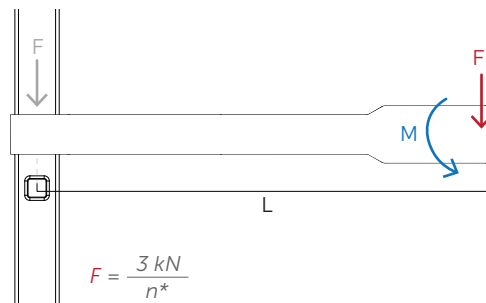
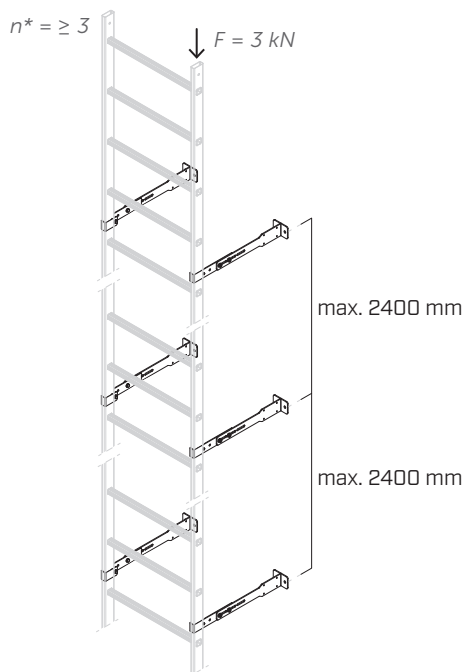
## INSTALLATION REQUIREMENTS FOR STEP UP CAGED LADDERS

1. Verify that all components listed in the delivery note are present.
2. Select the configuration according to the type of ladder: self-supporting or suspended/ fixed.
3. Check the height to be reached.
4. Adjust the ladder length if necessary. For suspended ladders, the bottom must be positioned 150 mm above the floor.
5. Position the base of the ladder and secure it using the corresponding support feet with fasteners. Ensure a maximum spacing of 2,400 mm between each fastener.
6. Insert the first ladder module without the cage. Position the ladder-to-ladder fasteners. Repeat the process for each subsequent module.
7. Once all ladder modules are connected to each other and to the support, install the rings and tie rods.



Any damaged component must be replaced with an identical part.

## ACTIONS ACTING ON THE BRACKET FASTENINGS



$$F = \frac{3 \text{ kN}}{n^*}$$

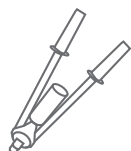
$$M = F \cdot L$$

$F = 3 \text{ kN}$  distributed over a minimum of 3 brackets.

$n$  = number of brackets ( $\geq 3$ ).



## REQUIRED TOOLS



RIVETER



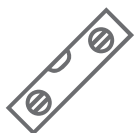
RUBBER Mallet



15–17 mm WRENCH



GRINDER



LEVEL



8 mm HEX HEAD  
DRILL BIT



SCREWDRIVER



5 mm HSS DRILL BIT



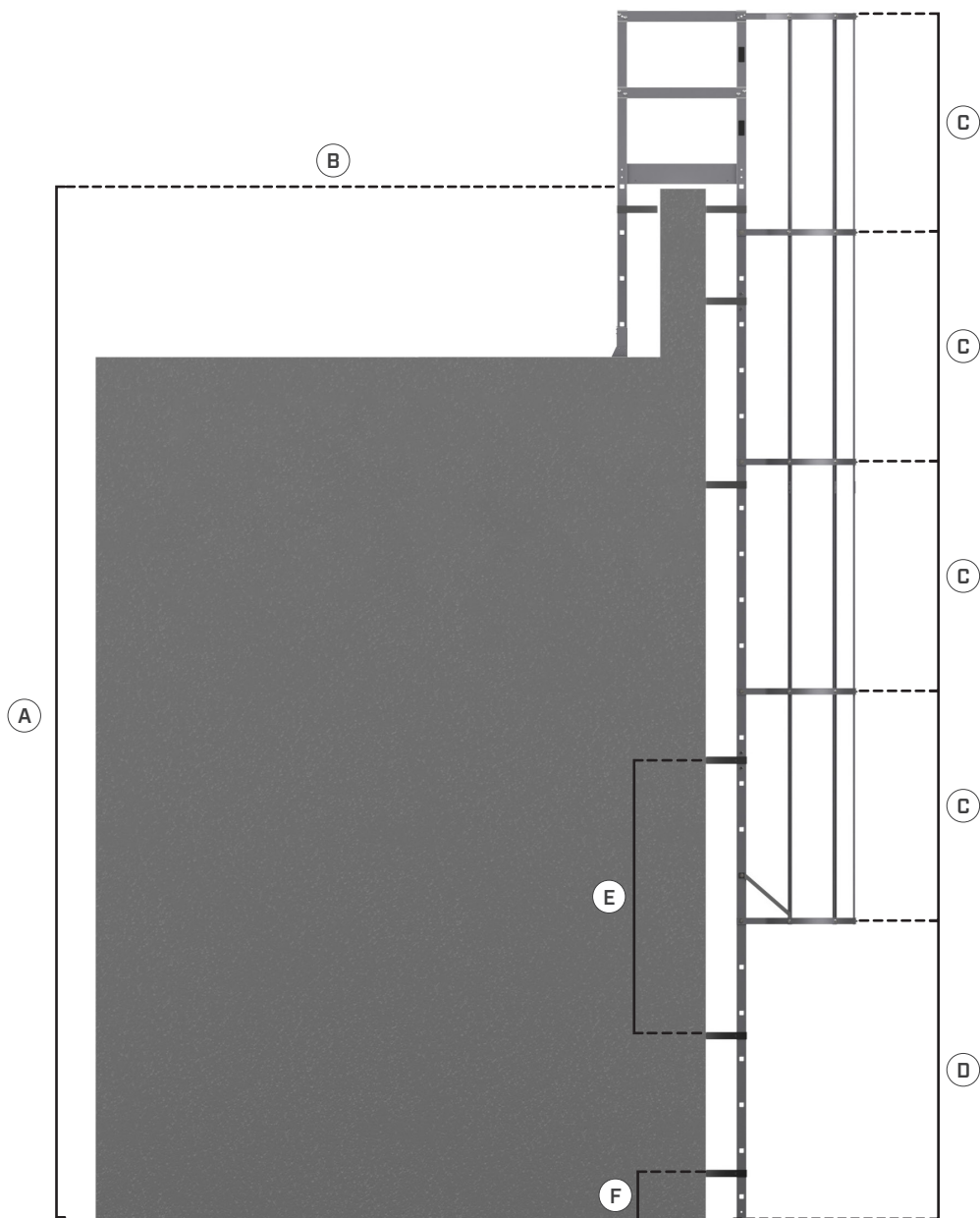
6 mm ALLEN KEY



TORQUE  
WRENCH

# CLEARANCES TO BE OBSERVED DURING INSTALLATION OF THE CAGED LADDER

FOR HEIGHTS  $\leq 8$  m [NF E85-016:2022] AND  $\leq 10$  m [EN 14122-4:2017]



Height to be reached

**A** Max. 10,000 mm (EN 14122-4) - Max. 8,000 mm (NF E85-016)

For greater heights, a rest platform kit must be installed at intervals of no more than 6,000 mm.

**B** Each front exit must be secured with at least two pairs of fasteners, one at the junction between the front exit and the ladder, one between the first and the last rung.

**C** Maximum distance between consecutive rings: 1,500 mm.

**D** Minimum height of the safety cage must be between 2,200 mm and 3,000 mm above the start zone.

**E** max. 2,400 mm

**F** 100 mm min. and 400 mm max. (EN 14122-4) 300 mm max. (NF E85-016).

Position of the first pair of fasteners (lowest point): between the first and second rungs of the ladder.

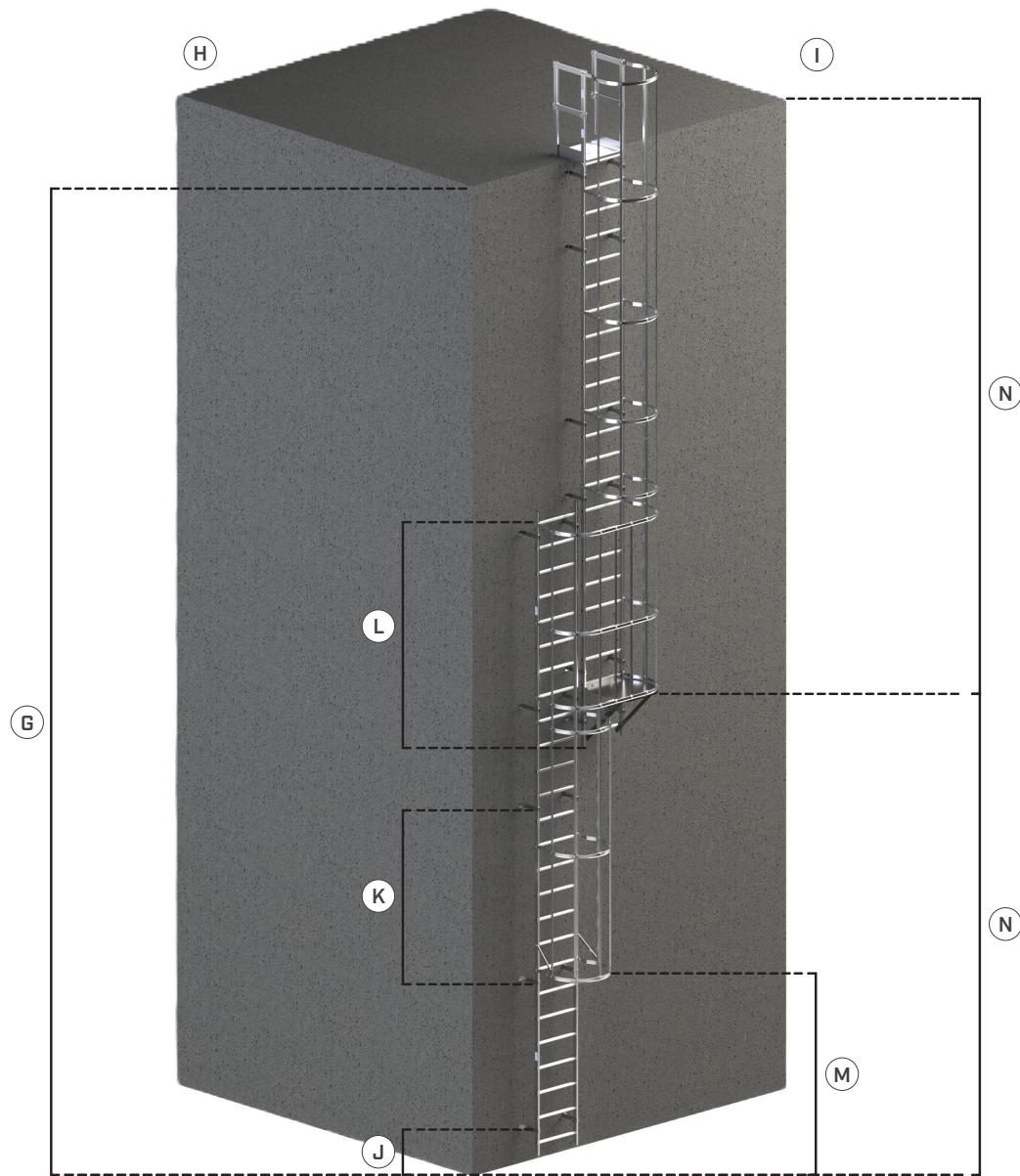
Position of the first rung: 100 mm to 400 mm from the landing area (EN 14122-4) and max. 300 mm (NF E85-016).

Position of the last rung: aligned with the landing level.

**WARNING:** the installation of a safety cage is mandatory when the ladder height exceeds 3,000 mm. The upper safety ring of the cage must be positioned at the same height as the landing area handrail.

# CLEARANCES TO BE OBSERVED DURING INSTALLATION OF THE CAGED LADDER

FOR HEIGHTS  $\leq 8$  m [NF E85-016:2022] AND  $\leq 10$  m [EN 14122-4:2017]



	Height to be reached
<b>G</b>	Max. 10,000 mm (EN 14122-4) - Max. 8,000 mm (NF E85-016) For greater heights, a rest platform kit must be installed at intervals of no more 6,000 mm.
<b>H</b>	The installation of a safety cage is mandatory when the height exceeds 3,000 mm.
<b>I</b>	The upper safety ring of the cage must be lifted to the same height as the landing area handrail.
<b>J</b>	100 to 400 mm (EN 14122-4) 300 mm max. (NF E85-016)
<b>K</b>	2400 mm max.
	Safety cage dimensions:
<b>L</b>	3.000 mm (EN 14122-4) 2.700 mm (NF E85-016)
<b>M</b>	The height of the lowest point of the safety cage must range between 2,200 mm and 3,000 mm above the ground level.
<b>N</b>	6000 mm max.
	Position of the first pair of fasteners (lowest point): between the first and second rungs of the ladder.
	Position of the first rung: 100 mm to 400 mm from the landing area (EN 14122-4) and max. 300 mm (NF E85-016).
	Position of the last rung: aligned with the landing level.

**WARNING:** In both standards, a rest platform is mandatory and must be installed every 6 metres, starting from a height of 6 metres.

# STANDARD LADDERS

## UPRIGHTS

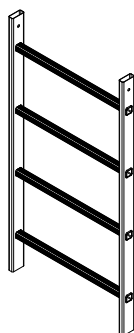
65 x 24 mm

## ANTI-SLIP RUNGS

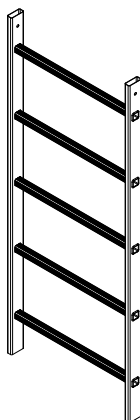
29,5 x 29,5 mm

## MATERIAL

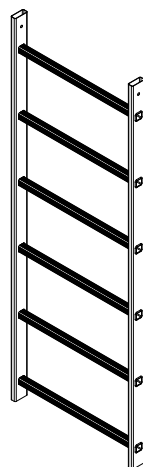
6063 aluminium



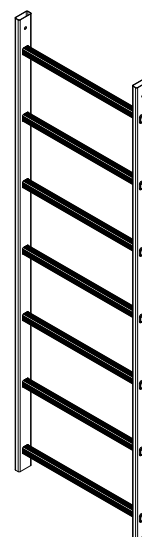
STEPMOD120



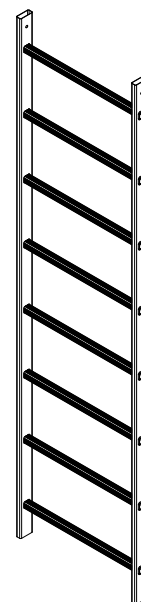
STEPMOD150



STEPMOD180



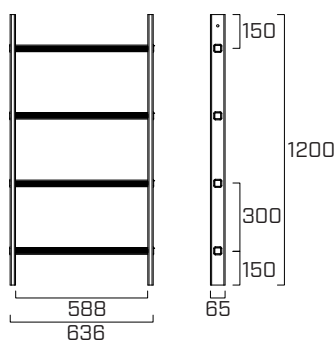
STEPMOD210



STEPMOD240

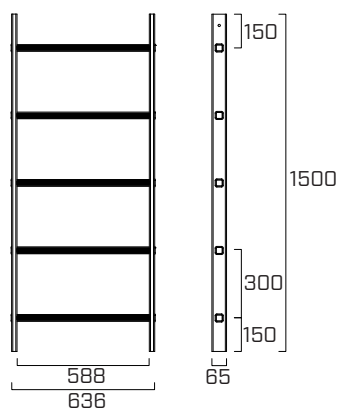
## STEPMOD120

Ladder module 1,20 m  
4 steps



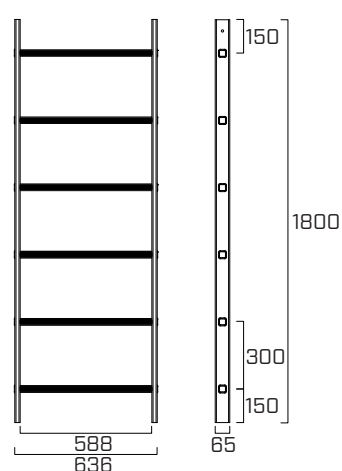
## STEPMOD150

Ladder module 1,50 m  
5 steps



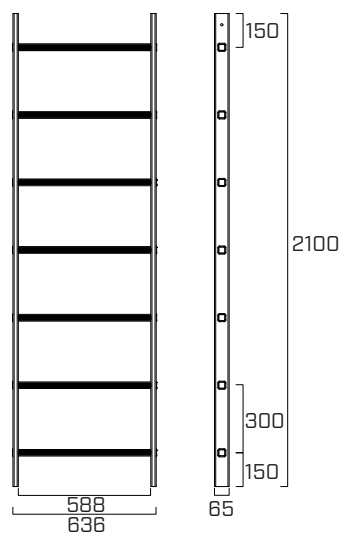
## STEPMOD180

Ladder module 1,80 m  
6 steps



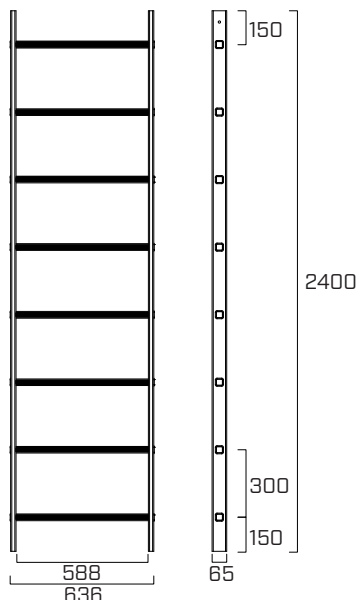
## STEPMOD210

Ladder module 2,10 m  
7 steps



## STEPMOD240

Ladder module 2,40 m  
8 steps

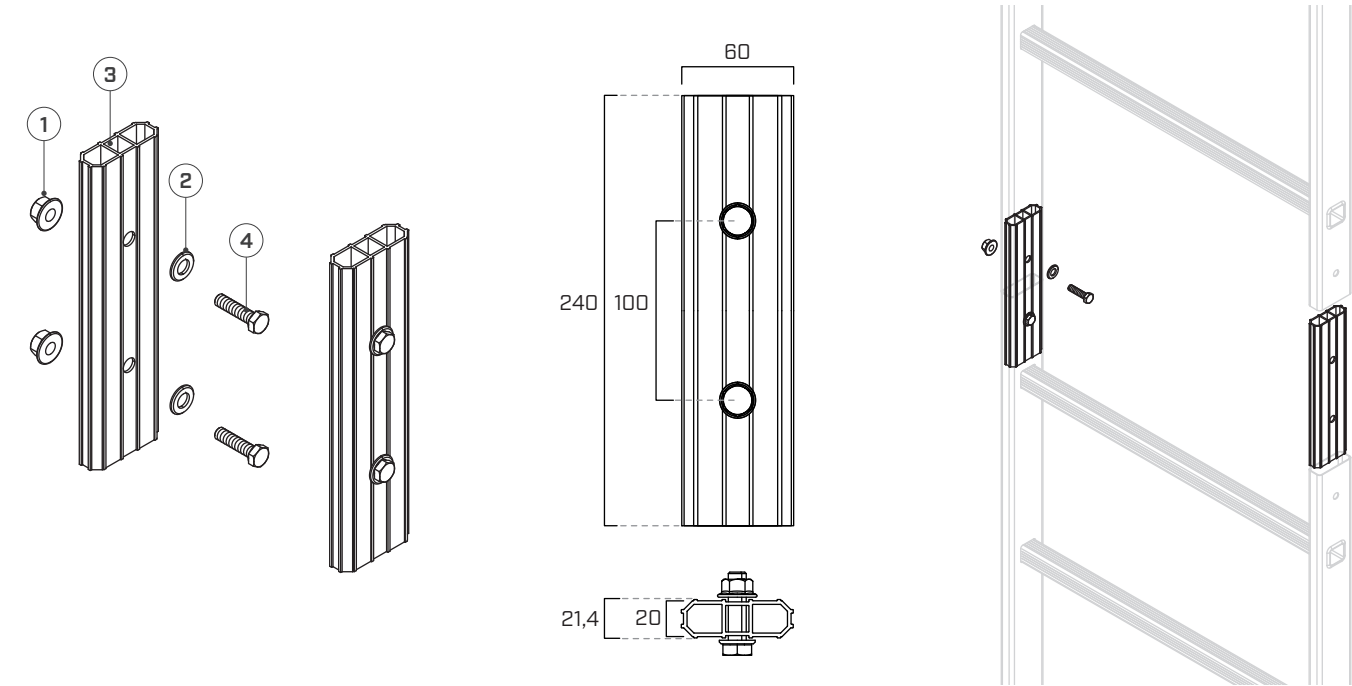


# STANDARD LADDERS

## STEPMODJUN

Kit of 2 ladder-to-ladder joints

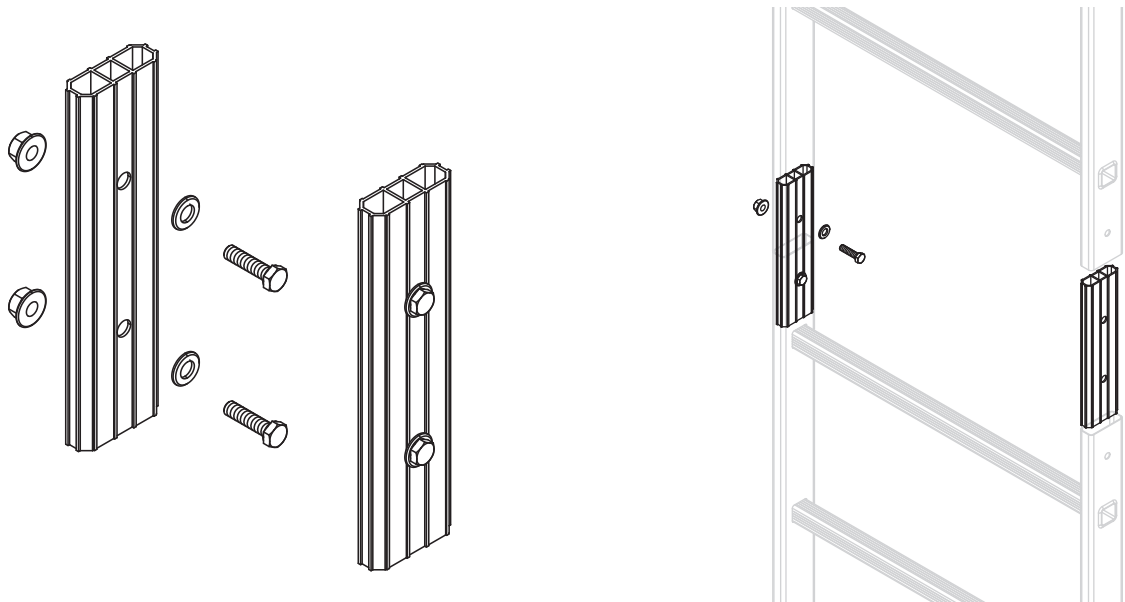
The kit allows two ladders to be connected in sequence, ensuring installation continuity. It is made of 6063 aluminium alloy to provide increased structural strength. The tightening torque is 10 Nm.



Description	Material	Pcs
1 Hexagonal nut with toothed flange M10	Stainless steel	4
2 M10 washer	Stainless steel	4
3 Internal joint 240 mm	6063 aluminium	2
4 M10 x 40 mm screw	Stainless steel	4

## STEPMODJUN ASSEMBLY INSTRUCTION

The ladder connection kit is used to join one **STEP UP** ladder to another **STEP UP** ladder in a continuous sequence, using the screws provided in the kit.



# FRONT EXIT RAILS

## UPRIGHTS

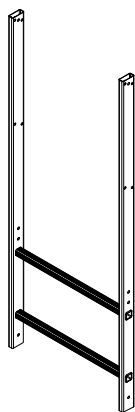
65 x 24 mm

## ANTI-SLIP RUNGS

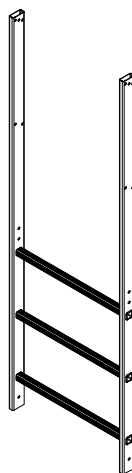
29,5 x 29,5 mm

## MATERIAL

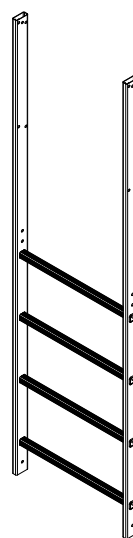
6063 aluminium



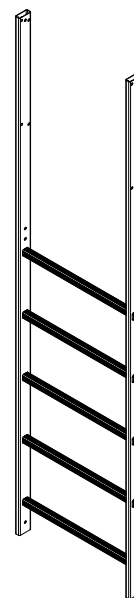
STEPOUT160



STEPOUT190



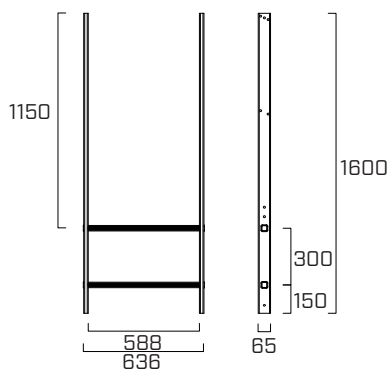
STEPOUT220



STEPOUT250

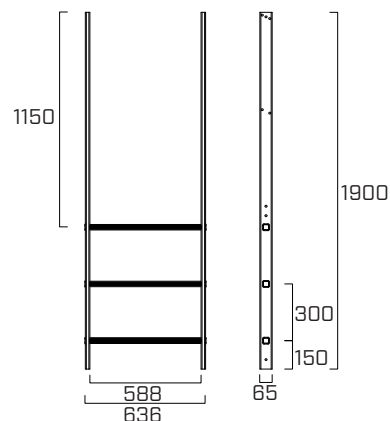
## STEPOUT160

Module with front exit rail 1,6 m  
2 steps



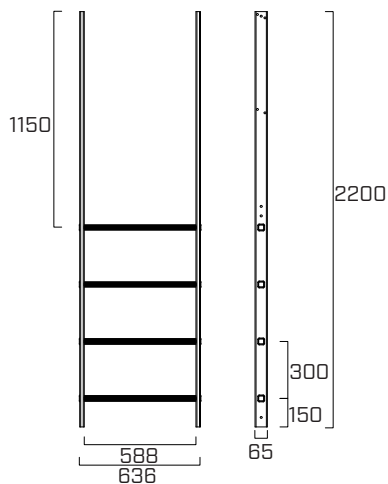
## STEPOUT190

Module with front exit rail 1,9 m  
3 steps



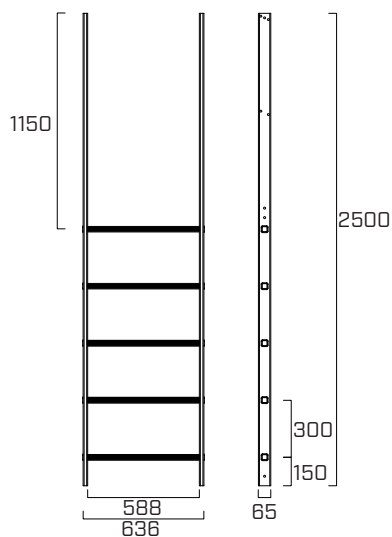
## STEPOUT220

Module with front exit rail 2,2 m  
4 steps



## STEPOUT250

Module with front exit rail 2,5 m  
5 steps



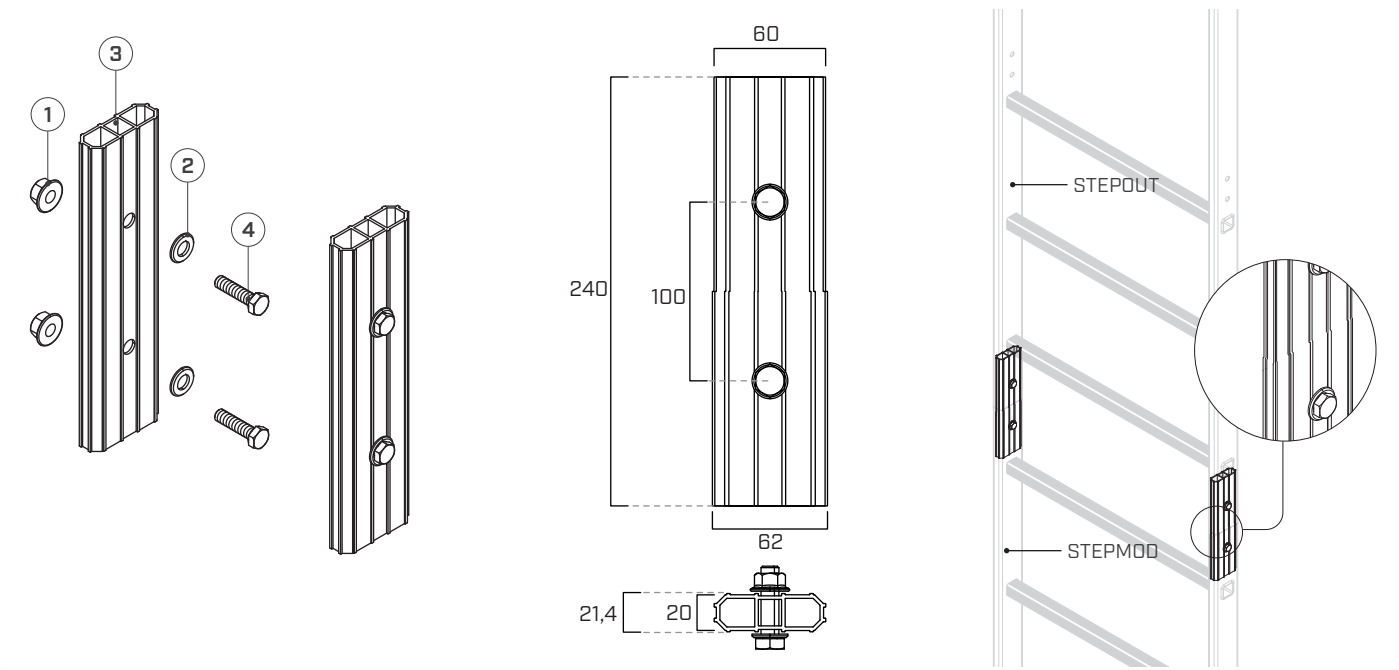
# FRONT EXIT RAILS

## STEPOUTJUN

Kit of 2 ladder-front exit connections

The ladder-to-front-exit connection kit connects the ladder to the front exit, completing the ladder kit installation. It is made of 6063 aluminium alloy to ensure increased structural strength. The tightening torque is 10 Nm.

Note: The ladder-to-front-exit connection kit has a wider end inserted into the ladder and a narrower end inserted into the front exit. (see drawing).



Description	Material	Pcs
1 Hexagonal nut toothed flange M10	Stainless steel	4
2 M10 washer	Stainless steel	4
3 Machined internal joint 240 mm	6063 aluminium	2
4 M10 x 40 mm screw	Stainless steel	4

## STEPOUTJUN ASSEMBLY INSTRUCTION

The ladder-to-front-exit connection kit is used to join one **STEPOUT** front exit to a **STEP UP** ladder, using the screws provided in the kit.

**IMPORTANT:** It is recommended to install the support feet fastener kit at the same level as the ladder-to-front exit junction as shown in Figure 1. Fastening is carried out using a single screw inserted into a threaded hole, allowing for extremely quick installation.

Secure the front exit using at least two pairs of support feet with fasteners. One of the support feet with fasteners must be positioned at the ladder-to-front-exit connection. If this is not technically feasible, the pair should be installed as close as possible to the connection.

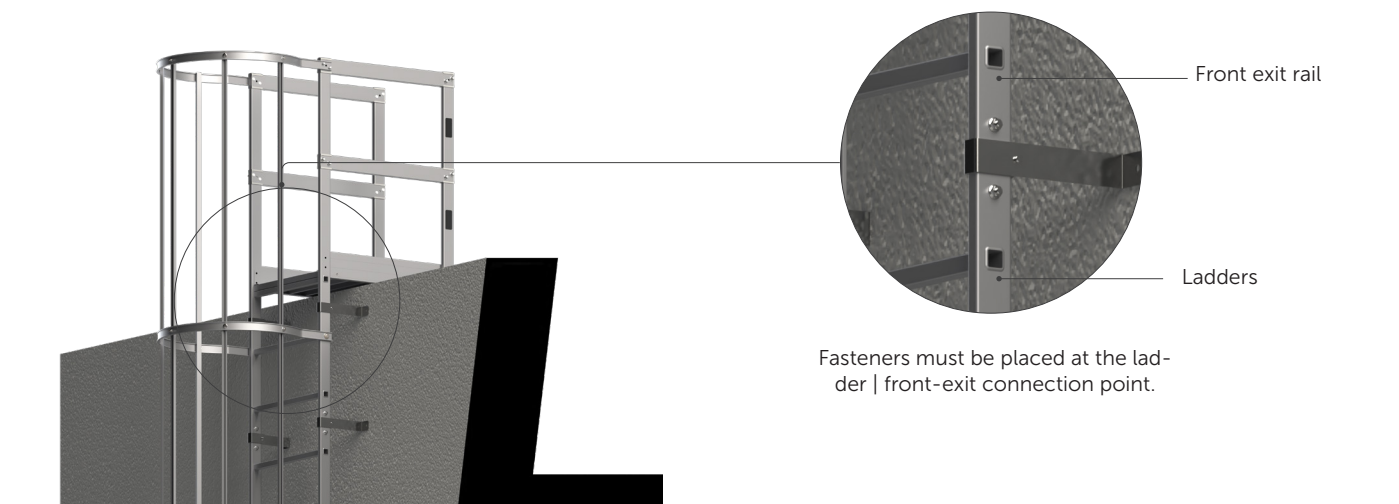


Figure 1



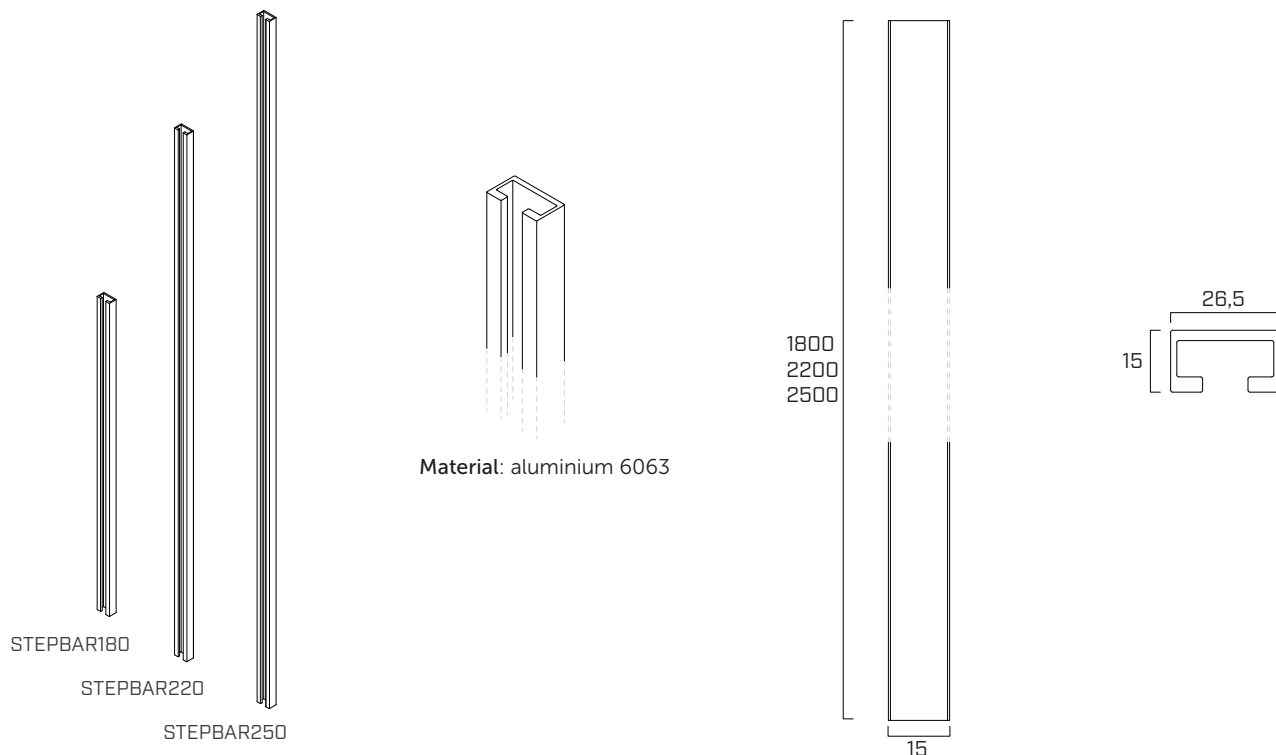
## CAGE

### STEPBAR180 - STEPBAR220 - STEPBAR250

kit of n. 5 cage rods 1.80 m - 2.20 m - 2.50 m

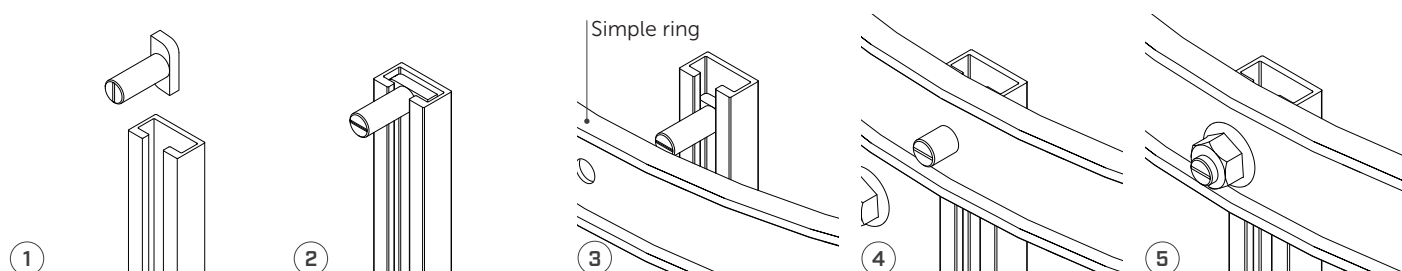
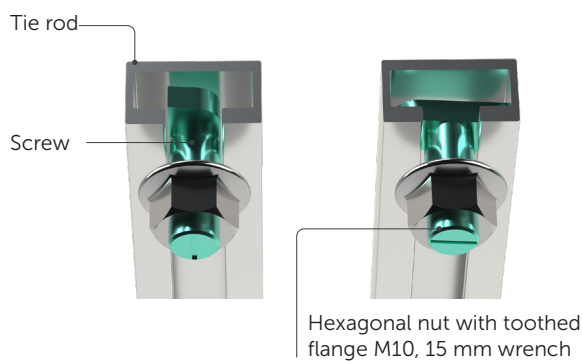
The cage tie rod allows the cage to be closed vertically.

Its C-shaped design provides the kit with increased rigidity. Installation must be completed using the connection kit and the locking end cap. The tie rod is available in lengths from 1,800 mm to 2,500 mm.



### STEPBAR ASSEMBLY INSTRUCTION

The hammer-head screw features a visible groove that, when placed horizontally, indicates the correct fastening orientation.

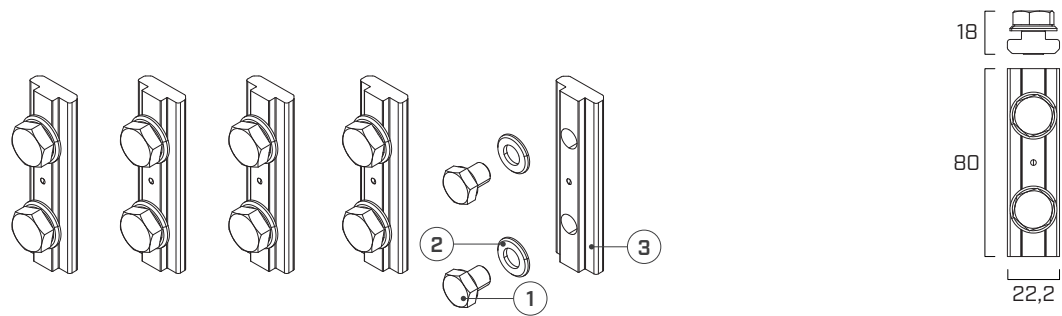


# CAGE

## STEPBARJUN

Kit with 5 rod joints for cage

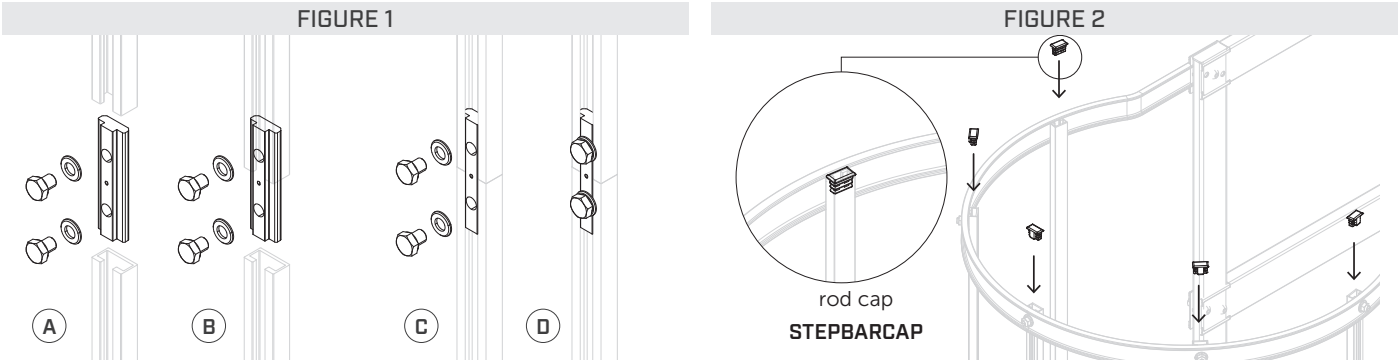
The **STEP UP** rod connection kit allows rods to be connected quickly and easily. It is supplied in packs of 5 and is designed to complement the rods used for cage assembly. The kit includes all necessary screws and requires a tightening torque of 10 Nm.



Description	Material	Pcs	Weight [kg]
1 M10 x 12 mm screw	6063 aluminium	5	0,2
2 M10 washer	Stainless steel	10	
3 Rod connection 80 mm	Stainless steel	10	

## STEPBARJUN ASSEMBLY INSTRUCTION

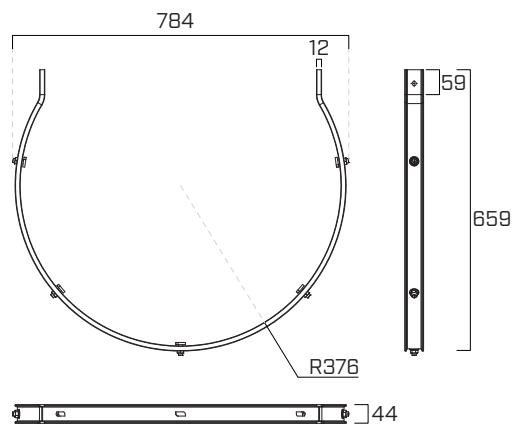
To install the rod connection kit, follow the steps shown in **Figure 1**. Once installation is complete, insert the rod end cap as shown in **Figure 2**.



# RINGS

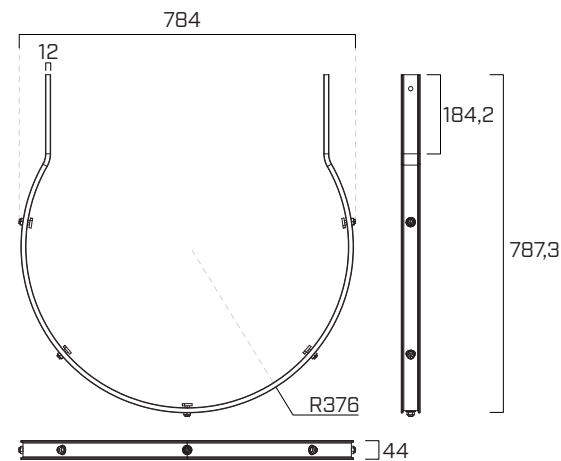
## STEPRINGIT

Cage ring Leg. Decree 81/2008



## STEPRINGEU

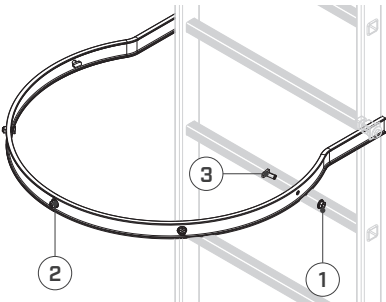
Cage ring EN 14122



The simple ring set is used to fasten the ring to the ladder via the platform, using an anchorage point. The tie rods are secured inside the rings with hammer-head screws included in the kit. The tightening torque is 10 Nm.

The kit also includes stainless steel screws for fastening the (pre-assembled) tie rods. The anchor points for rungs (**STEPRINGJUN**) are not included.

Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M10	Stainless steel	5	
2 Simple ring	6063 aluminium	1	1,2
3 M10 x 25 mm hammer-head screw	Stainless steel	5	

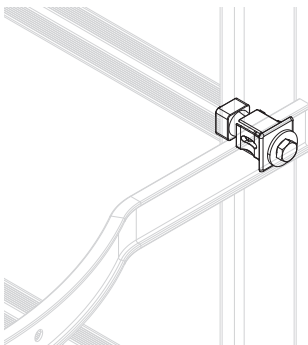
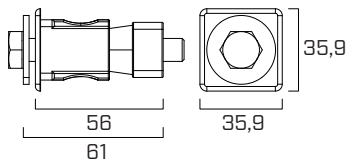
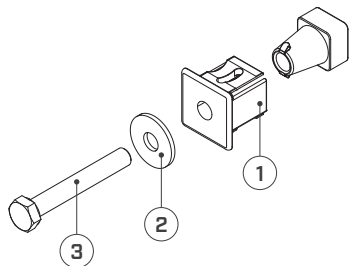


## STEPRINGJUN

Kit of 2 ladder-to-ring joints for cage

The aluminium anchorage point for rungs is used to fasten rings and rods to the rungs through expansion. It is installed on the outer side of the ladder uprights with a tightening torque of 30 Nm.

### PATENTED DESIGN

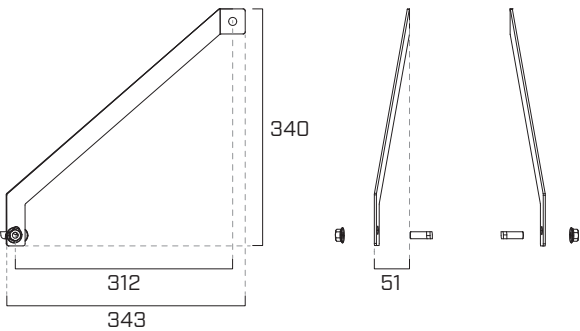


Description	Material	Pcs	Weight [kg]
1 Anchor point	Polyamide + UV	1	
2 M10 washer	Stainless steel	1	0,3
3 M10 x 70 mm screw	Stainless steel	1	

RINGS

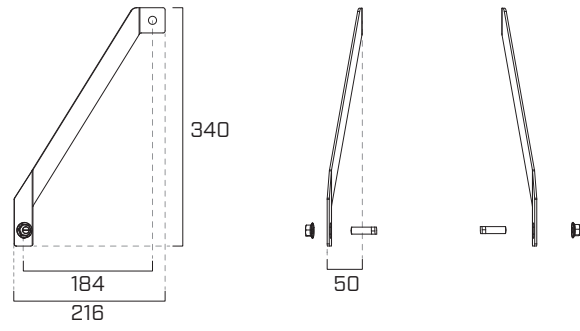
STEPSUPRINGEU

Kit of 2 reinforcements for STEPRINGEU



STEPSUPRINGIT

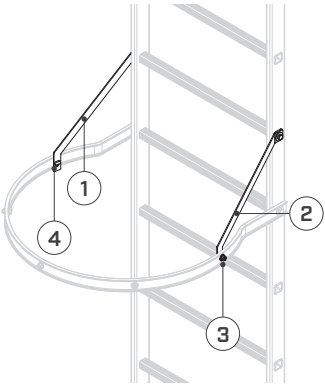
Kit of 2 reinforcements for STEPRINGIT



The reinforcement kit strengthens the cage and is installed on the first lower ring.  
The tightening torque used is 10 Nm.

**WARNING:** this kit is mandatory in all installations.

Description	Material	Pcs	Weight [kg]
1 Right support	S235 Steel + anti-corrosion treatment	1	0,73
2 Left support	S235 Steel + anti-corrosion treatment	1	
3 Hexagonal nut with toothed flange	Stainless steel	2	
4 Hammer head screw M10 x 30 mm	Stainless steel	2	



STEPSUPRING ASSEMBLY INSTRUCTION

The reinforcement kit is secured to the ladder through the rung, using the anchor points recovered from the upper part of the single ring installation. Assembly is completed by fastening the reinforcement kit to the first ring using the hammer-head screws and corresponding nuts.  
The aluminium anchorage point is reused in the reinforcement kit.

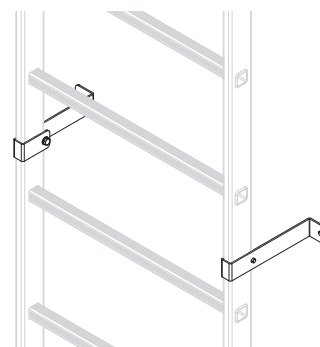
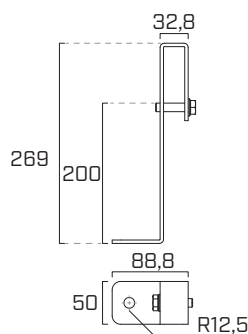
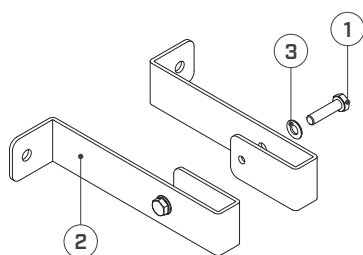


## BRACKETS

### STEPBRAF150

Kit of mounting brackets for a 200 mm wall distance

- Wall brackets with a fixed distance of 200 mm from the wall (external dimensions), useful for adapting the ladder to different supports on the same plane.
- The fasteners are fastened as clamps on the uprights, at a maximum distance of 2,400 mm.
- Tighten to lock.
- It is supplied in pairs with stainless steel screws.
- The tightening torque used is 10 Nm.

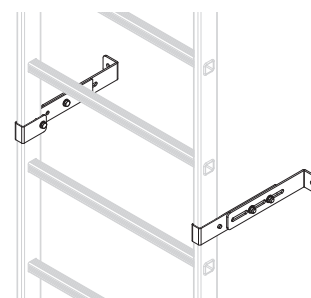
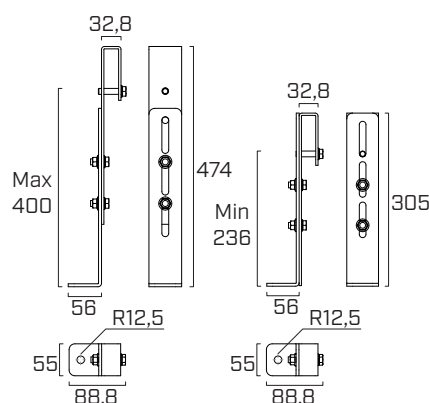
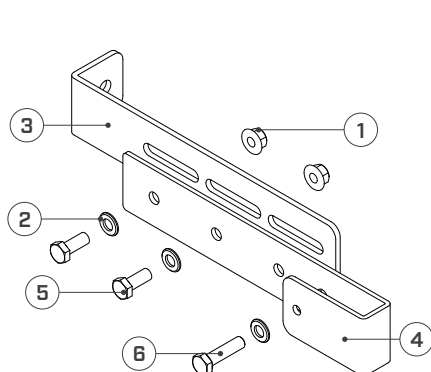


Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	2	1,4
2 Simple fastening	S235 Steel + anti-corrosion treatment	2	
3 M10 x 40 mm screw	Stainless steel	2	

### STEPBRAV400

Kit of mounting brackets for an adjustable wall distance - max. 400 mm

- Wall brackets with adjustable spacer from 236 to 400 mm, useful for adapting the ladder to different supports on the same plane.
- The fasteners are fastened as clamps on the uprights, with a maximum vertical distance of 2,400 mm from the ladder.
- Tighten to lock.
- It is supplied in pairs with stainless steel screws.
- The tightening torque used is 10 Nm.



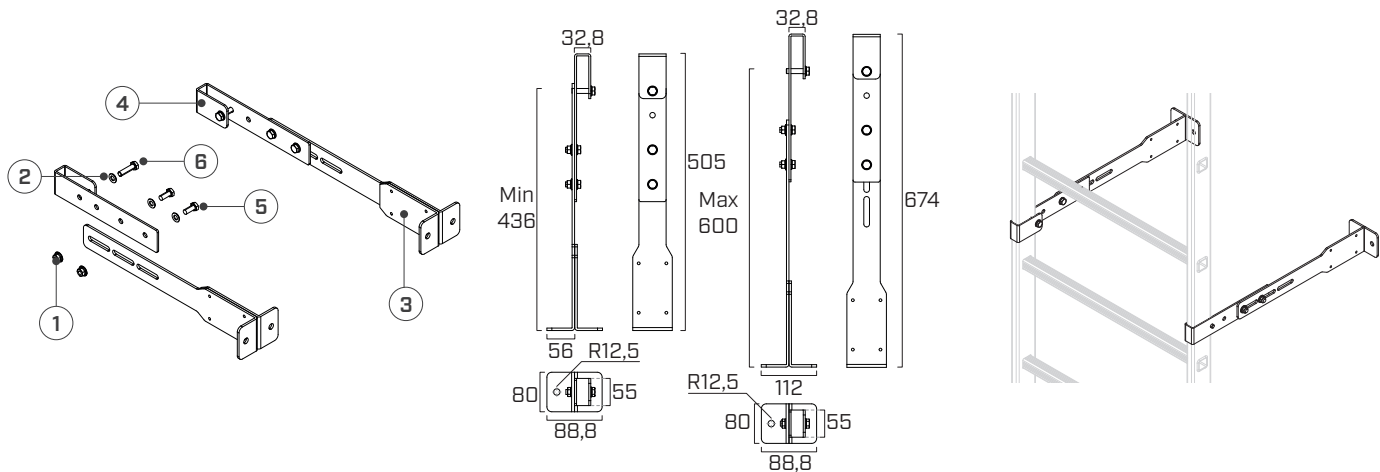
Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M10	Stainless steel	4	4,2
2 M10 washer	Stainless steel	6	
3 Adjustable fastener on fixed part (300 mm)	S235 Steel + anti-corrosion treatment	2	
4 Adjustable fastener on movable part	S235 Steel + anti-corrosion treatment	2	
5 M10 x 25 mm screw	Stainless steel	4	
6 M10 x 40 mm screw	Stainless steel	4	

# BRACKETS

## STEPBRAV600

Kit of mounting brackets for an adjustable wall distance - max. 600 mm

- Wall brackets with adjustable spacer from 436 to 600 mm, useful for adapting the ladder to different supports on the same plane.
- The fasteners are fastened as clamps on the uprights, with a maximum vertical distance of 2,400 mm from the ladder.
- Tighten to lock.
- It is supplied in pairs with stainless steel screws.
- The tightening torque used is 10 Nm.

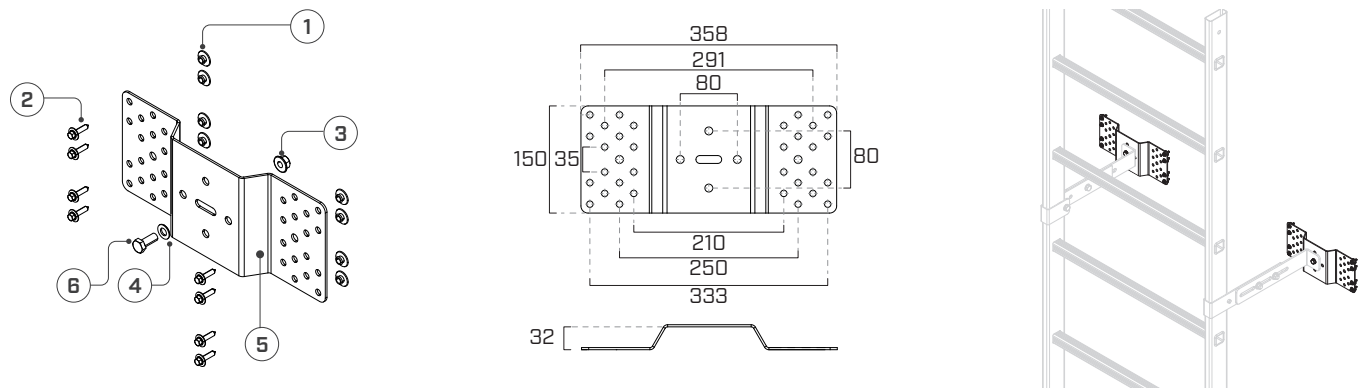


Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M10	Stainless steel	4	4,2
2 M10 washer	Stainless steel	6	
3 Adjustable fastener on fixed part (500 mm)	S235 Steel + anti-corrosion treatment	2	
4 Adjustable fastener on movable part	S235 Steel + anti-corrosion treatment	2	
5 M10 x 25 mm screw	Stainless steel	4	
6 M10 x 40 mm screw	Stainless steel	4	

## STEPBRAMET

Kit of 2 mounting plates for trapezoidal metal (fasteners included)

- Pair of fastening plates for steel sheets with screws.
- It allows fastening on metal sheets with a minimum thickness of 0.4 mm.
- It is supplied with 2 x 8 DBS screws Ø6 x 25 mm with sealing washers + 2 x 8 EPDM chimney washers Ø8.5 mm which are inserted behind the fixing plate (between the metal sheet and the plate) + 2 x M10 and 25 mm screws + 2 x hexagon nuts with M10 toothed flange - tightening torque for M10: 10 Nm.
- Once fastened, the special sealing washers prevent water penetration, ensuring that the steel sheet is completely watertight (tightening torque 5 Nm).



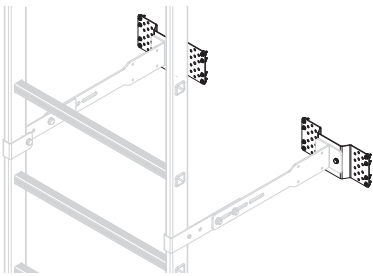
Description	Material	Pcs	Weight [kg]
1 Chimney washer Ø8.5 mm	EPDM	4	4,2
2 DBS2 Ø6 x 25 mm screw with washer	Stainless steel	6	
3 Hexagonal nut with toothed flange M10	Stainless steel	2	
4 M10 washer	Stainless steel	2	
5 Corrugated metal sheet fastener	S235 Steel + anti-corrosion treatment	4	
6 Ø10 x 25 mm screw	Stainless steel	4	

# BRACKETS

## STEPBRMET + STEPBRAV600

Combination adjustable from 436 to 600 mm

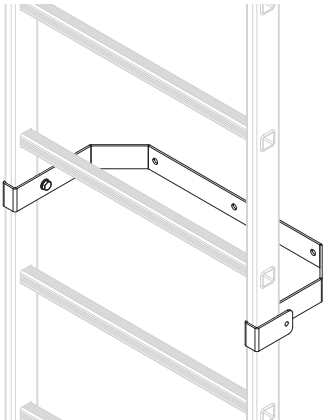
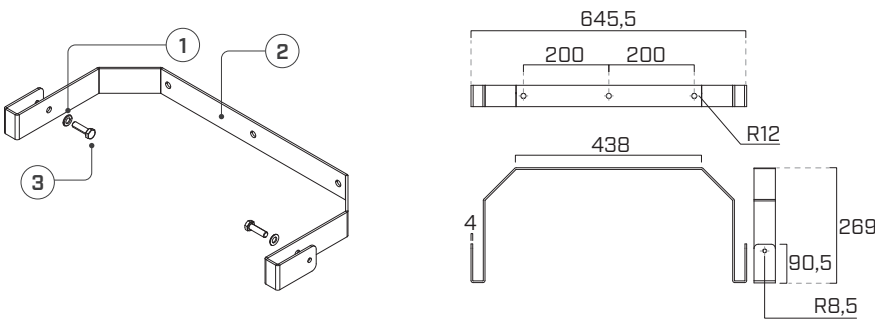
- The ladder must be installed using a support feet fastener kit for ground fixing.
- Vertical forces must be exerted on the landing. It is recommended not to use 300 mm and 500 mm cantilever kits if they are not properly fastened.



## STEPBRAU

“U”-bracket for connecting the ladder to a column or a wall

- The fasteners are fastened as clamps on the uprights, at a maximum distance of 2,400 mm.
- Tighten to lock.
- It is supplied in pairs with stainless steel screws.
- The tightening torque used is 10 Nm.



Description		Material	Pcs	Weight [kg]
1	M10 washer	Stainless steel	2	1,9
2	U-Bracket	S235 Steel + anti-corrosion treatment	1	
3	M10 x 40 mm screw	Stainless steel	2	

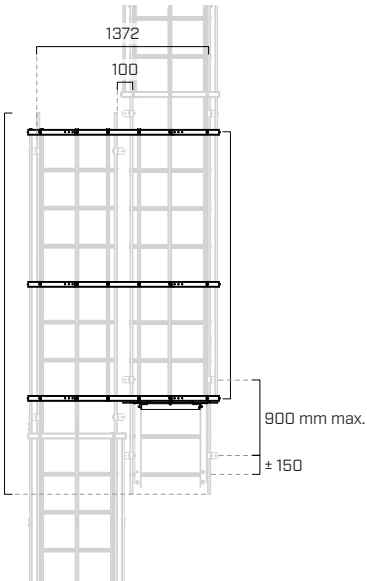
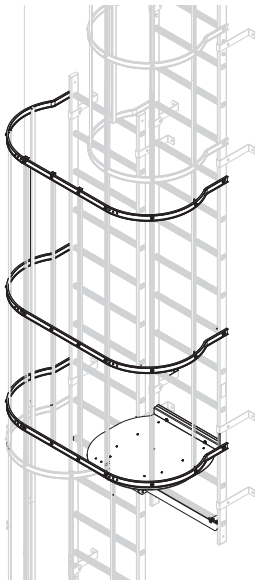


# REST PLATFORM

## STEPDOURIT + STEPBOARIT- STEPDOUREU + STEPBOAREU

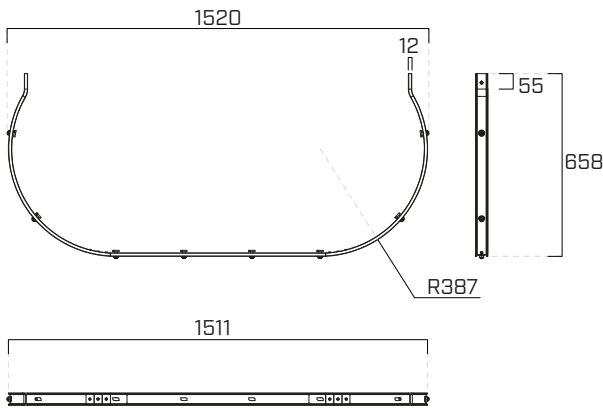
The rest platform is a structure that allows a physical break while using a cage ladder. It is mandatory for cage ladders with a height of more than 8 m according to NF E 85-016, or more than 10 m according to European standard EN 14122-4.

The rest platform consists of the rest platform kit(**STEPBOARIT/STEPBOAREU**) and a by a kit of rings (3x) for the rest platform (**STEPDOURIT/STEPDOUREU**).



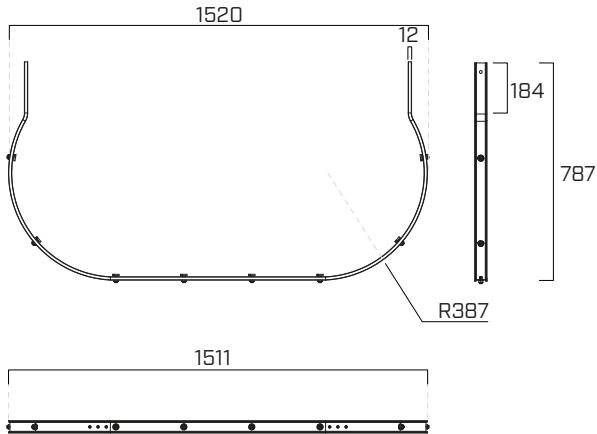
## STEPDOURIT

Rings for rest platform  
Leg. Decree 81/2008



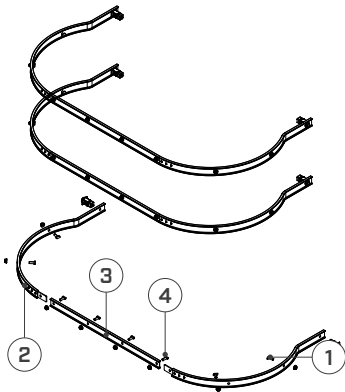
## STEPDOUREU

Rings for rest platform  
EN 14122-4



Anchor points for rungs (**STEPRINGJUN**) are not included. The tightening torque is 10 Nm (**STEPBOARIT - STEPBOAREU**).

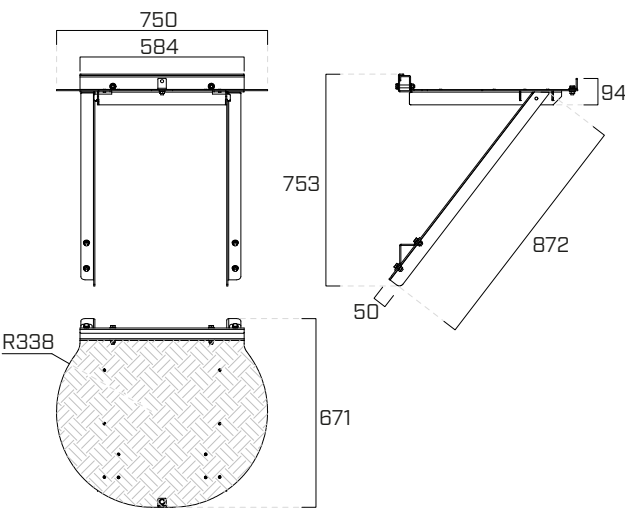
Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M10	Stainless steel	8	2
2 Ring extension	6063 aluminium	1	
3 Semi-ring with joint	6063 aluminium	6	
4 M10 x 25 mm hammer-head screw	Stainless steel	8	



REST PLATFORM

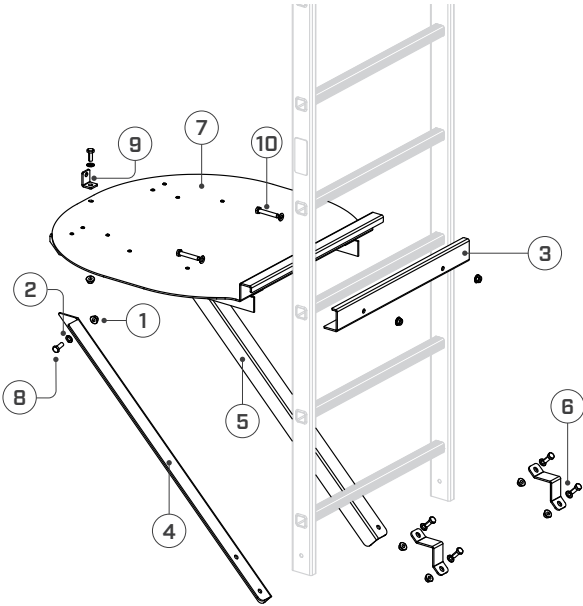
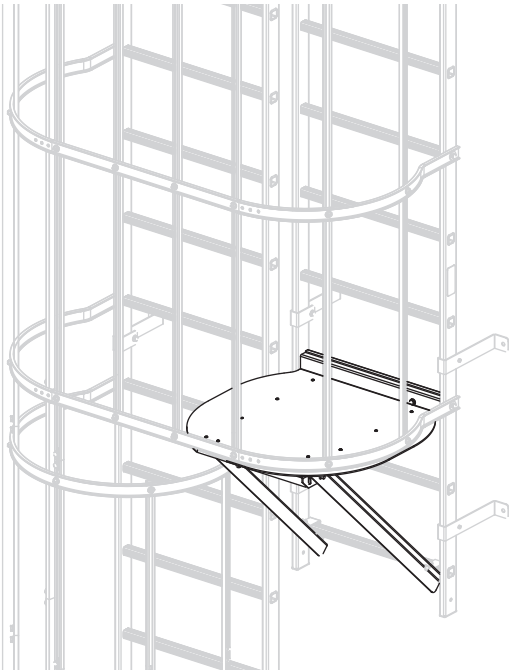
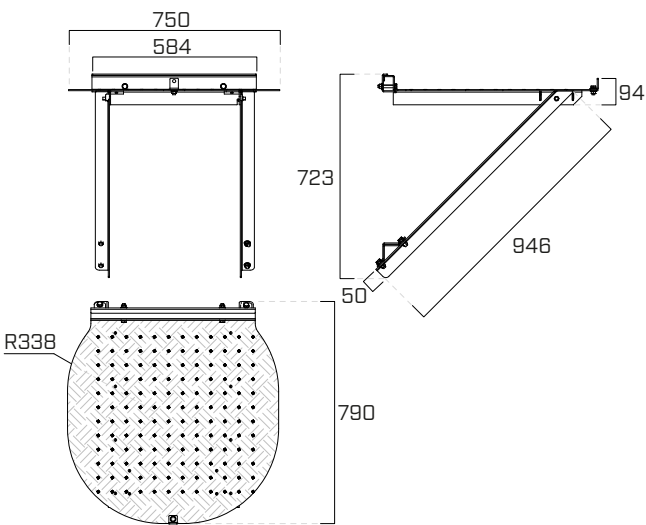
STEBOARIT

Rest platform  
Leg. Decree 81/2008



STEPBOAREU

Rest platform  
EN 14122-4



The tightening torque is 10 Nm (STEPDOURIT - STEPDOUREU).

Description		Material	Pcs	Weight [kg]
1	Hexagonal nut with toothed flange M10	Stainless steel	9	11
2	M10 washer	Stainless steel	9	
3	Cage mounting flange	5754 Aluminium	1	
4	Right platform support	5754 Aluminium	1	
5	Left platform support	5754 Aluminium	1	
6	Anchor bracket	5754 Aluminium	2	
7	Rest platform	5754 Aluminium	1	
8	M10 x 25 mm screw	Stainless steel	7	
9	Platform bracket	5754 Aluminium	1	
10	M10 x 60 mm screw	Stainless steel	2	

# REST PLATFORM

## STEPBOARIT - STEPBOAREU ASSEMBLY INSTRUCTIONS

Follow the steps below to assemble the rest platform:

Rest platform kit:

- A. Position the right support (4) and left support (5) connected to the rung with the fastening brackets (6) and M10 x 25 mm screws (8) M10 washers (2) and hexagon nut with toothed flange (1).
- B. Raise the platform by two rungs and connect the supports (4 and 5) to the rest platform (7) with M10 x 25 mm screws (8), M10 washers (2) and hexagon nuts with toothed flange (1).
- C. Assemble the rear mounting flange (3) that secures the platform to the step with M10 x 60 mm screws (10), M10 washers (2) and hexagon nuts with toothed flange (1).
- D. Finally, fasten the platform bracket (9) with the M10 x 25 mm screw (8), M10 washer (2) and hexagon nut with toothed flange (1) to the front end of the platform.
- E. After carrying out the previous steps, install the ring kit for rest platform.
- F. Connect the platform bracket (9) to the closest tie rod of the cage, using a hammer head screw and the cage ring nut.



# LADDER ACCESS

STEPTRAPIT-STEPTRAPEU



STEPDOOR90



STEPDOOR180

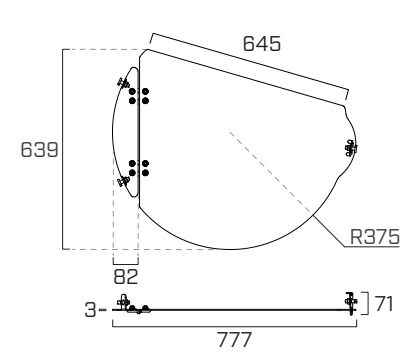


STEPDOORUP  
+ STEPDOOR180



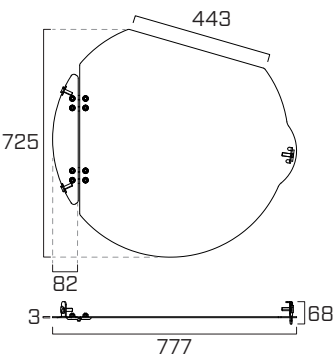
## STEPTRAPIT

Safety gate for ladder access  
Leg. Decree 81/2008

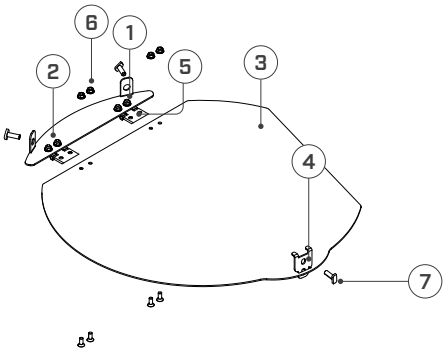


## STEPTRAPEU

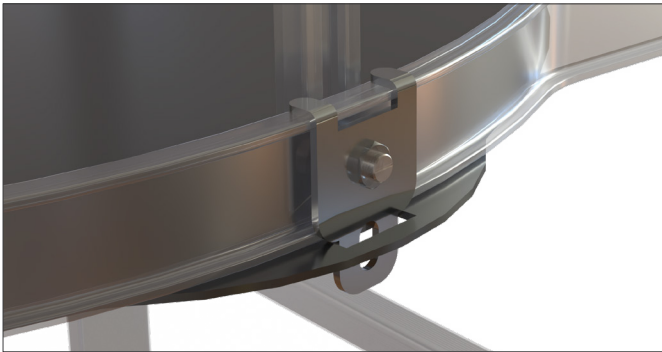
Safety gate for ladder access  
EN 14122-4



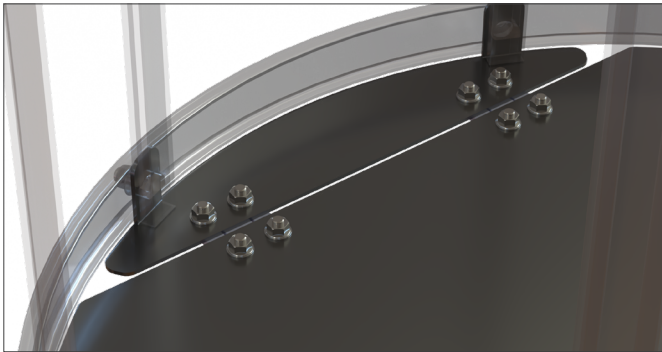
Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M8	Stainless steel	8	3,6
2 Cover with fixed part	5754 Aluminium	1	
3 Cover with movable part	5754 Aluminium	1	
4 Cover closure	S235 Steel + anti-corrosion treatment	1	
5 STD hinge	6063 aluminium	2	
6 M8 x 20 mm screw	Stainless steel	8	
7 Hammer head screw M10 x 30 mm	Stainless steel	3	



## DETAILS



The closure fastens on the outside of the ring.

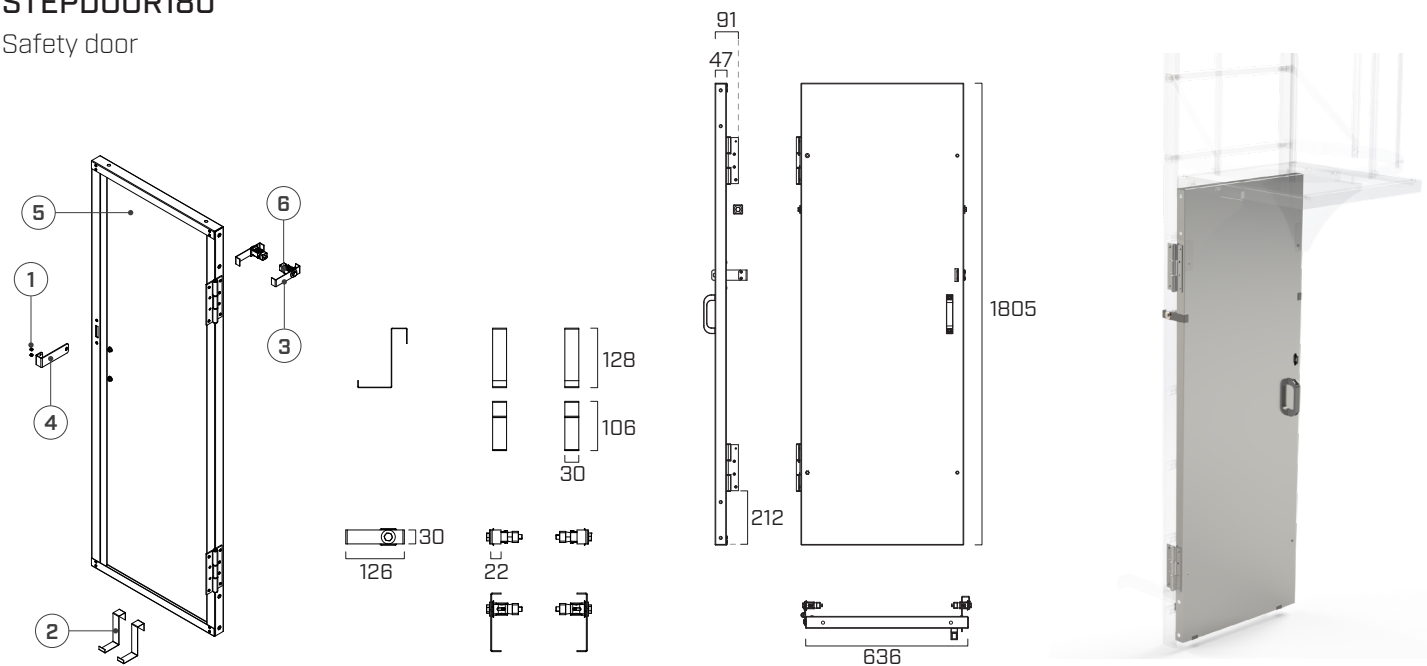


The fixed part is installed between the ring and the tie rod.

# LADDER ACCESS

## STEPDOOR180

Safety door

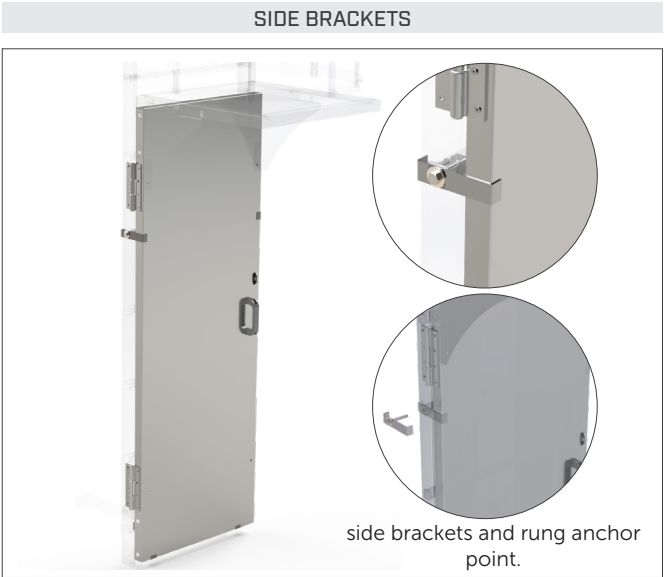


Description	Material	Pcs	Weight [kg]
1 Rivets 4.8 x 13.5 mm	Stainless steel	10	20,60
2 Lower part	S235 Steel + anti-corrosion treatment	2	
3 Upper part of the door	S235 Steel + anti-corrosion treatment	2	
4 Door lock	S235 Steel + anti-corrosion treatment	1	
5 Single door	S235 Steel + anti-corrosion treatment	1	
6 Anchor point on aluminium platform	S235 Steel + anti-corrosion treatment	2	

## STEPDOOR180 ASSEMBLY INSTRUCTIONS

The lower and side brackets are provided to assist the installation of the single door and are removed once the hinges are attached to the ladder.

1. Install the lower brackets on the first rung, closest to the uprights.
2. Position the door by placing it on the lower brackets and pushing it against the ladder.
3. Position the side brackets, together with the anchor point on the rung. In this way, the door remains locked in place.
4. Use the hinge as a template and drill the uprights with a 5 mm drill bit at the points where the rivets will be inserted.
5. Insert rivets to connect the door hinges to the ladder.
6. Once the door has been installed, fold the support feet down toward the floor, remove the side brackets, open the door, and remove the lower brackets.

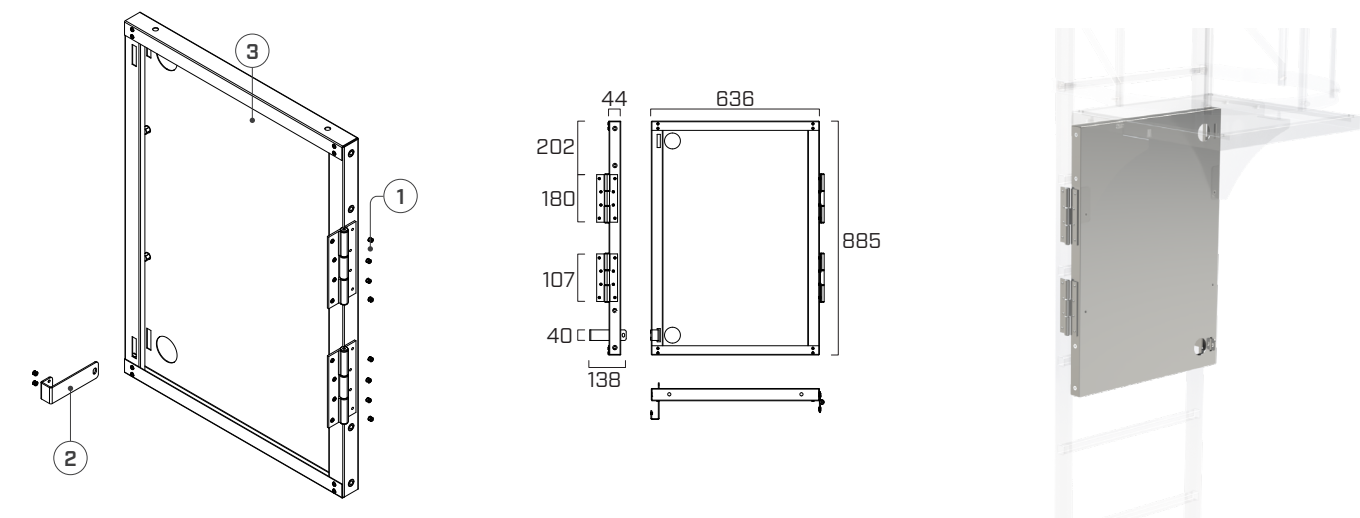


# LADDER ACCESS

## STEPDOOR90

Halt-height safety door with fasteners, doorstop and locking system

Made of steel with corrosion protection, with factory pre-installed anodised aluminium hinges and door lock with padlock (not included in the kit).



Description	Material	Pcs	Weight [kg]
1 Rivet Ø 4,8 x 13,5 mm	Stainless steel	10	
2 Door lock	S235 + anti-corrosion treatment	1	10
3 Simple half-height door	S235 + anti-corrosion treatment	1	

## STEPDOOR90 ASSEMBLY INSTRUCTION

The half-height door (**STEPDOOR90**) and the door cover (**STEPDOORUP**) must be used for mounting the half-height door.

To proceed with installation, follow the instructions:

1. Install the reinforcement brackets (2), symmetrical, on the riveted nuts already present on the door cover (4), using the M10 x 25 mm screws (3) and M10 washers (1).
2. Once tightened, the assembly is mounted on the individual door using the same assembly principle as described in step 1.
3. Fasten the half-height door to the ladder by means of two clamps, locking them on the uprights. Use the hinge as a template and drill the uprights with a 5 mm drill bit at the points where the rivets will be inserted.
4. Insert rivets to connect the door hinges to the ladder.



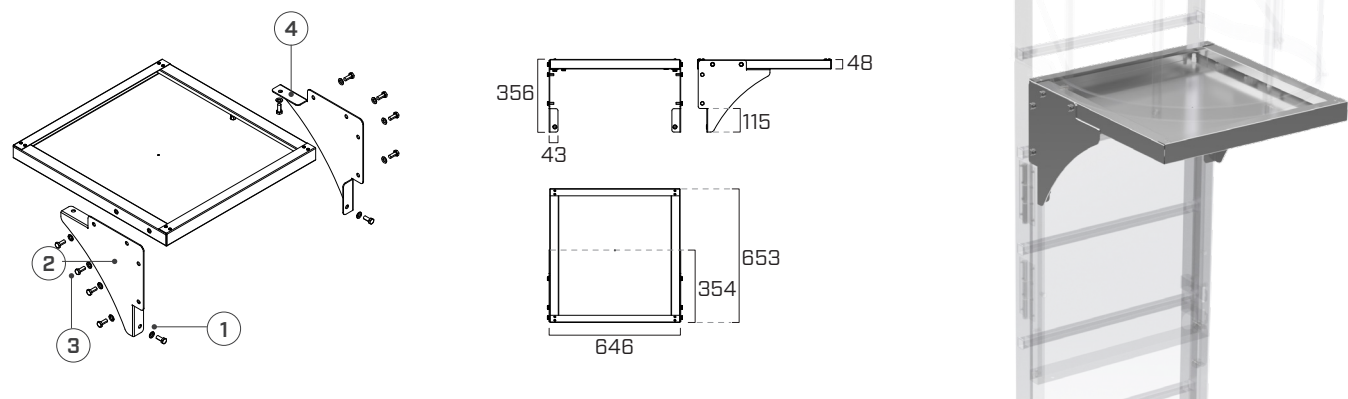
# LADDER ACCESS

## STEPDOORUP

Upper part of safety door

- Upper door element with reinforcements.
- Made of S235 steel.
- It is supplied with stainless steel screws.

The **STEPDOORUP** upper part is compatible with both the complete **STEPDOOR180** door and the **STEPDOOR90** half-height door.



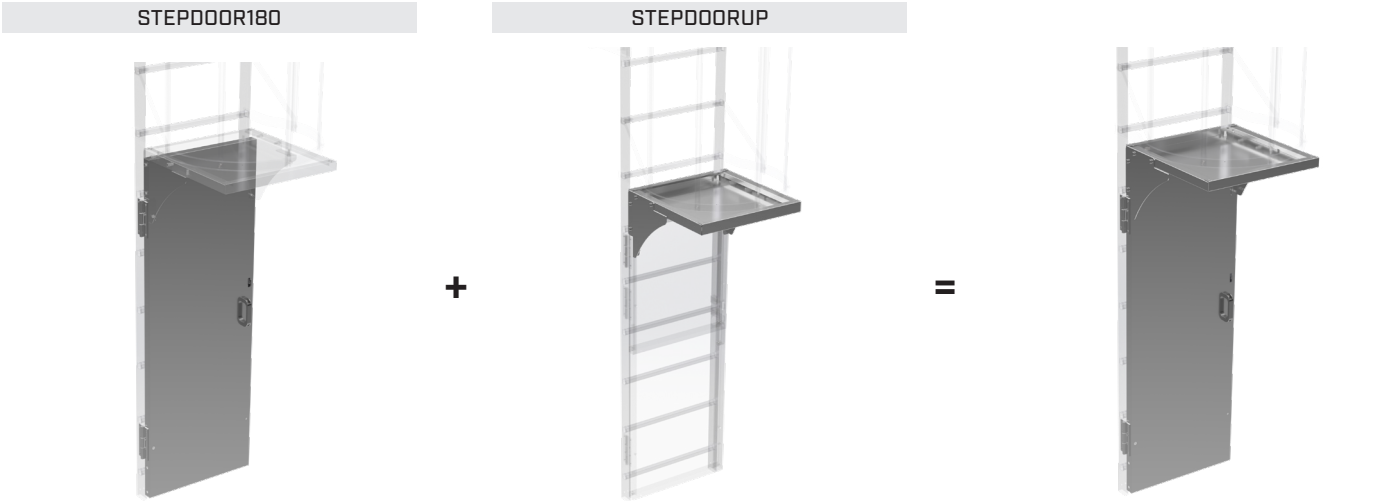
Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	14	11,4
2 Reinforcement	S235 Steel + anti-corrosion treatment	2	
3 M10 x 25 mm screw	Stainless steel	14	
4 Half-height door cover	S235 Steel + anti-corrosion treatment	1	

## STEPDOORUP ASSEMBLY INSTRUCTIONS

To assemble the upper part of the safety door, follow the steps below:

1. Install the reinforcement brackets (2), symmetrical, on the riveted nuts already present on the door cover (4), using the M10 x 25 mm screws (3) and M10 washers (1).
2. Once the assembly is tightened, mount it on the single door following the same assembly principle as described in step 1.

Fasten the assembly to the ladder by applying the same principle used for mounting **STEPDOOR180** and **STEPDOOR90**.





## LADDER ACCESS

### DOOR LOCK ASSEMBLY INSTRUCTIONS

The locking system, common to all three door versions, makes it possible to prevent access to the ladder by locking it with a padlock (not included). For assembly, once the door is installed, the ladder profile is drilled and the block riveted, as shown in the images.

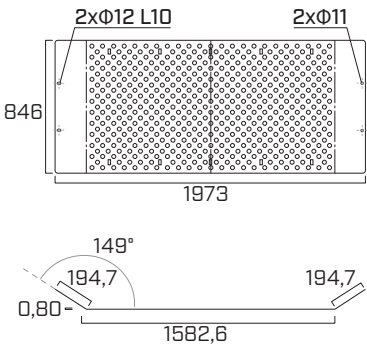
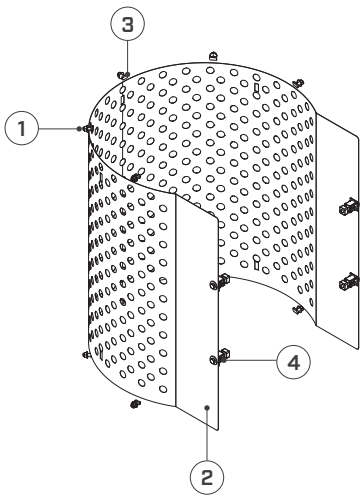


CLOSURE

STEPCOVERIT

Metal sheet for safety cage closure

Leg. Decree 81/2008



STEPCOVEREU

Metal sheet for safety cage closure

EN 14122-4



The cage safety closure allows the **STEP UP** ladder access to be secured from the outside, preventing the accidental fall of technical equipment and restricting entry to unauthorized personnel.

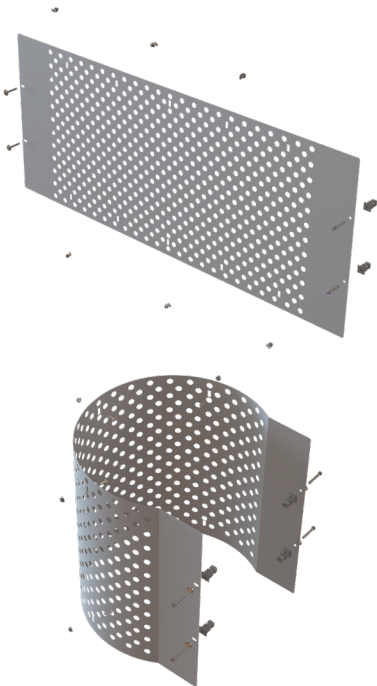
Description	Material	Pcs	Weight [kg]
1 Hexagonal nut with toothed flange M10	Stainless steel	6	3,98
2 Cage side panel	5754 Aluminium	1	
3 M10 x 25 mm hammer-head screw	Stainless steel	6	
4 Anchor point on aluminium platform	Polyamide + UV + stainless steel	4	

STEPCOVERIT-STEPCOVEREU ASSEMBLY INSTRUCTIONS

Follow the steps below to assemble the safety lock kit:

- 1. Place the sheet on the front rod of the cage, on the outer side. Insert the two hammer-head screws, complete with washer, between the metal sheet and the cage rod, turn and tighten them.
- 2. Shape the metal sheet around the cage rods, progressively installing the screws using the same fastening and tightening method.
- 3. Once the metal sheet fastening is complete, place the necessary anchor points rung by rung to complete the installation.

BENT METAL SHEET



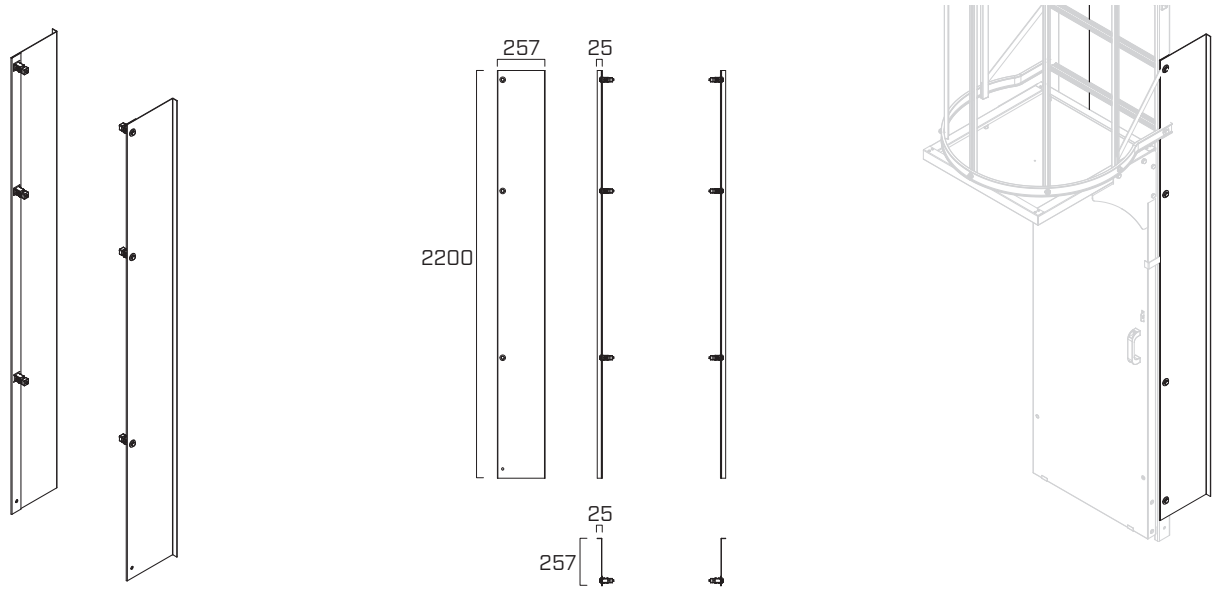
# CLOSURE

## STEPCOVERSIDE

Kit of 2 side cage covers

The side closure of the cage serves to prevent authorised personnel from improperly using the space between the wall and the ladder, thus ensuring that the ladder is used correctly in accordance with current regulations.

The side closure of the cage is fixed externally by means of anchor points attached to the rungs.



Description		Material	Pcs	Weight [kg]
1	Cage side closure	5754 aluminium	2	8,1
2	Anchor point on aluminium platform	polyamide + UV + stainless steel	6	

# PROTECTION KIT

The landing kit is used to access terraces and roofs safely. The tightening torque used is 10 Nm.

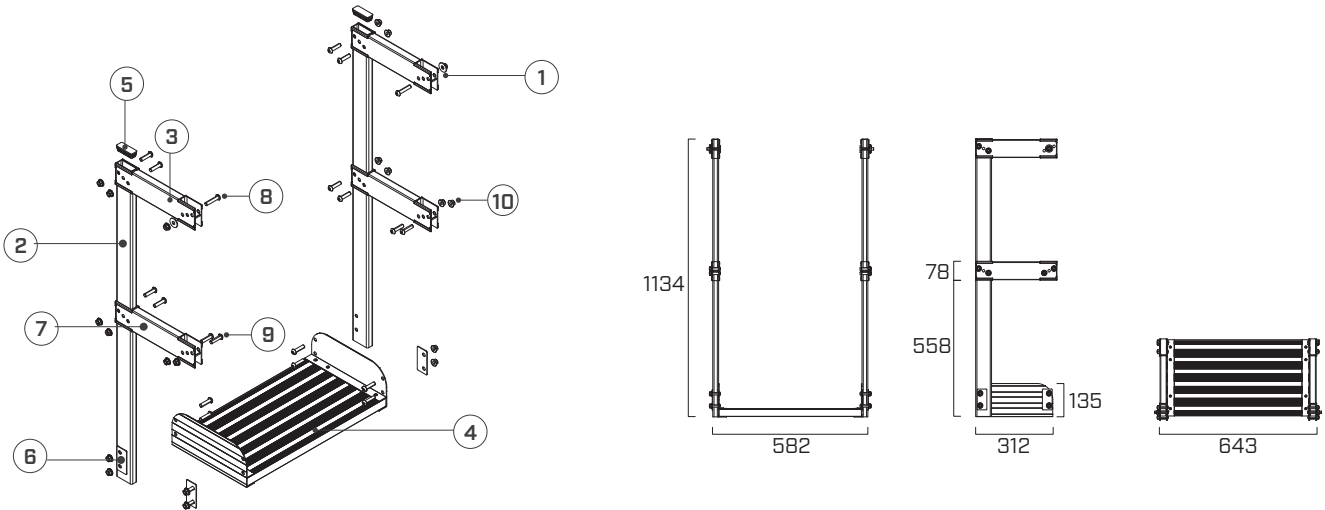
Inside the **STEPLAND** kit it is possible to find:

- Landing kit 300 mm
- Landing kit 500 mm
- Landing kit 800 mm
- Landing kit 1000 mm



## STEPLAND300

300 mm platform kit with side protection



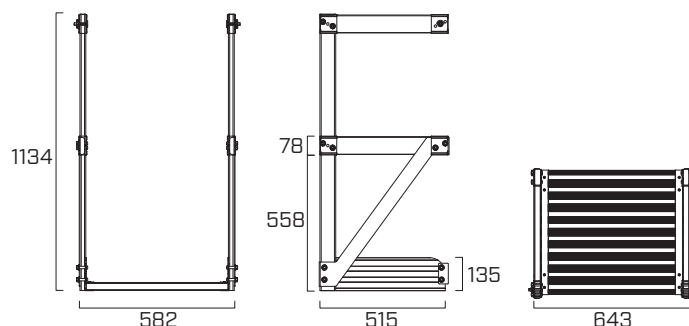
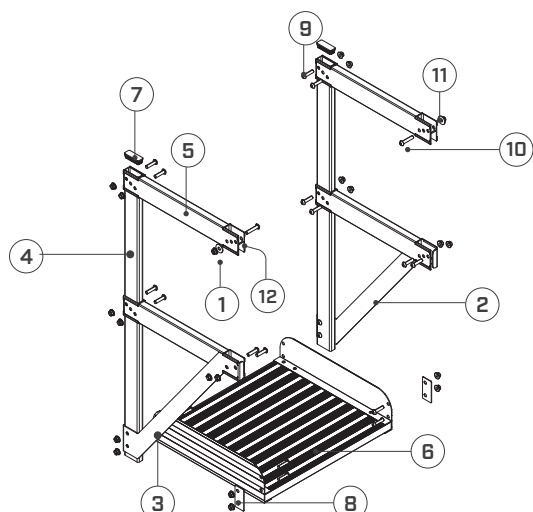
Front exit not included in the kit.

Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	2	5,7
2 Landing upright	6063 aluminium	2	
3 Landing beam	6063 aluminium	4	
4 Landing platform 300 mm	6063 aluminium	1	
5 Grey cap	Polypropylene	2	
6 Landing plate	S235 Steel + anti-corrosion treatment	4	
7 Landing beam joint	PA + UV	8	
8 M10 x 50 mm screw	Stainless steel	2	
9 M10 x 40 mm screw	Stainless steel	20	
10 Hexagonal nut with toothed flange	Stainless steel	22	

## PROTECTION KIT

### STEPLAND500

500 mm platform kit with side protection

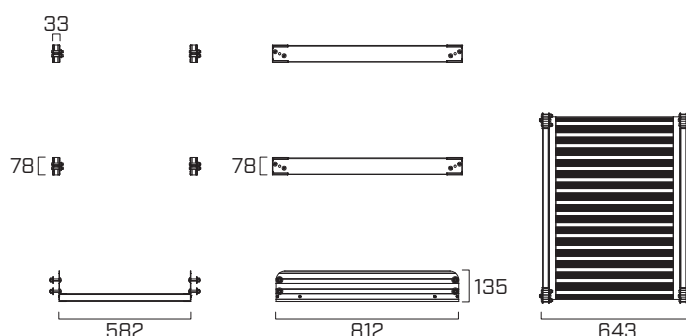
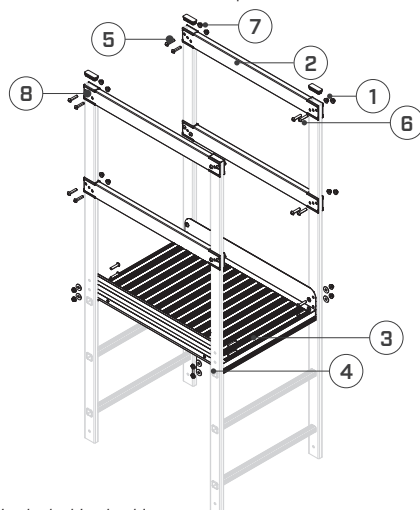


Front exit not included in the kit.

Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	2	10,20
2 Right landing reinforcement	6063 aluminium	1	
3 Left landing reinforcement	6063 aluminium	1	
4 Landing upright	6063 aluminium	2	
5 Landing beam kit 500 mm	6063 aluminium	4	
6 Landing platform 500 mm	6063 aluminium	1	
7 Grey cap	Polypropylene	2	
8 Landing plate	S235 Steel + anti-corrosion treatment	2	
9 M10 x 40 mm screw	Stainless steel	8	
10 M10 x 50 mm screw	Stainless steel	2	
11 Hexagonal nut with toothed flange	Stainless steel	22	
12 Landing beam joint	PA + UV	8	

### STEPLAND800

800 mm platform kit with side protection



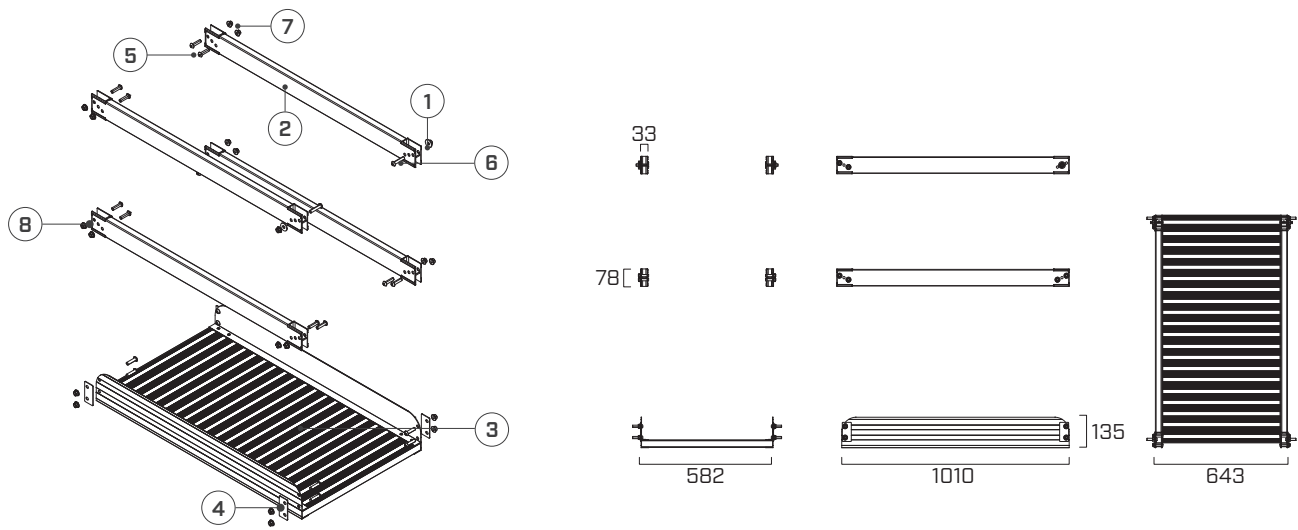
Front exit not included in the kit.

Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	2	9,10
2 Landing beam 800 mm	6063 aluminium	4	
3 Landing platform 800 mm	6063 aluminium	1	
4 Landing plate	S235 Steel + anti-corrosion treatment	4	
5 M10 x 40 mm screw	Stainless steel	8	
6 M10 x 50 mm screw	Stainless steel	2	
7 Hexagonal nut with toothed flange	Stainless steel	22	
8 Landing beam joint	PA + UV	8	

PROTECTION KIT

STEPLAND1000

1000 mm platform kit with side protection

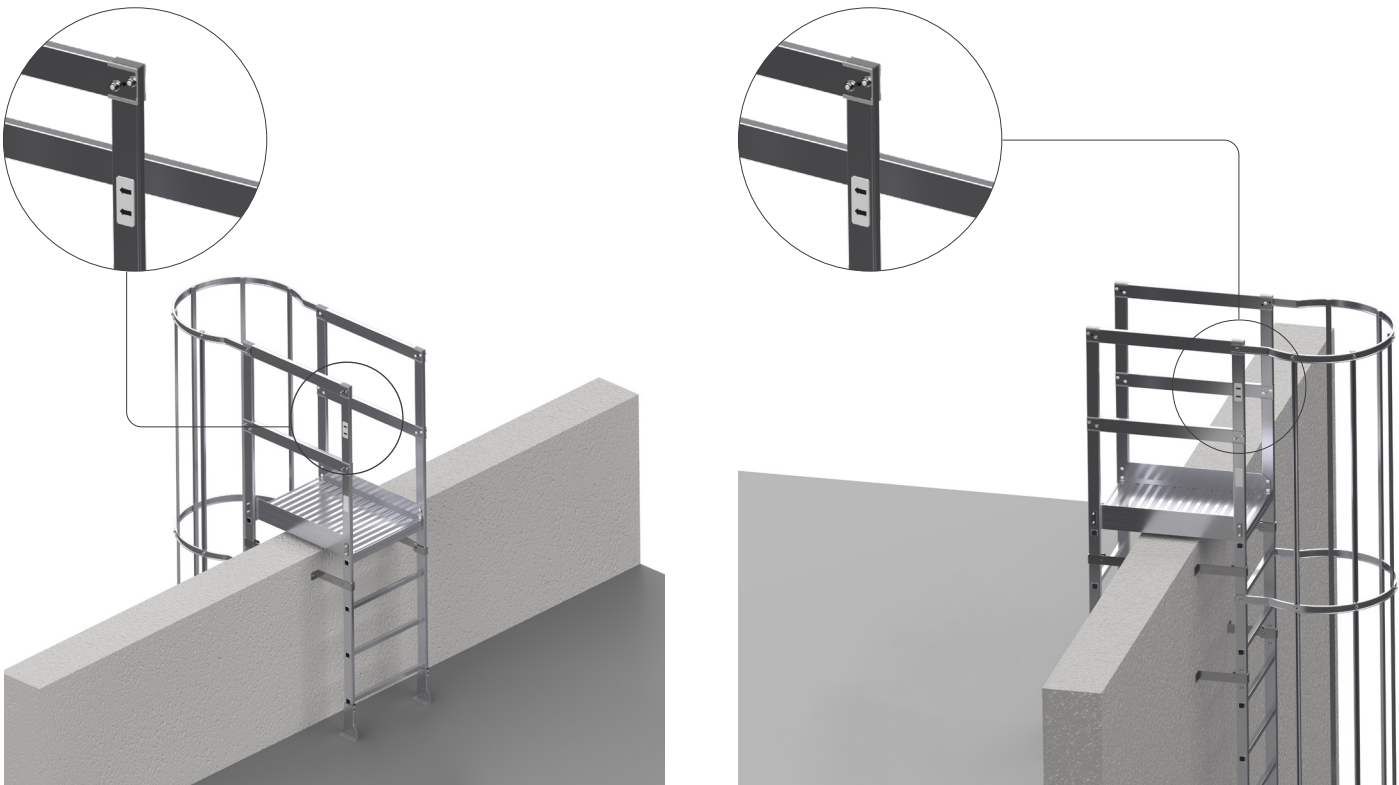


Front exit not included in the kit.

Description	Material	Pcs	Weight [kg]
1 M10 washer	Stainless steel	2	11,10
2 Landing beam 1000 mm	6063 aluminium	4	
3 Landing platform 1000 mm	6063 aluminium	1	
4 Threaded landing plate	S235 Steel + anti-corrosion treatment	4	
5 M10 x 40 mm screw	Stainless steel	8	
6 M10 x 50 mm screw	Stainless steel	2	
7 Hexagonal nut with toothed flange	Stainless steel	22	
8 Landing beam joint	PA+ UV	8	

FRONT EXIT ASSEMBLY INSTRUCTIONS

The front exits have a label indicating the direction in which they are to be positioned.  
Arrows must always point towards the landing.



## PROTECTION KIT

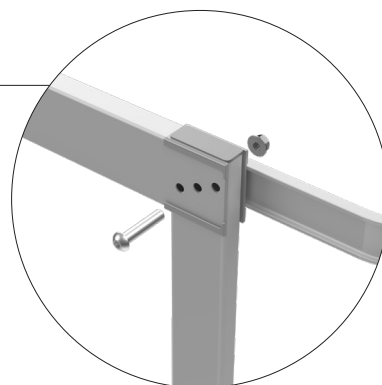
### ASSEMBLY INSTRUCTIONS FOR THE LAST RING



The ring is fastened to the front exit with a M10 x 50 mm screw and an M10 hex nut with toothed flange, included in the landing kit. A single screw connects the front exit, the landing and the ring.



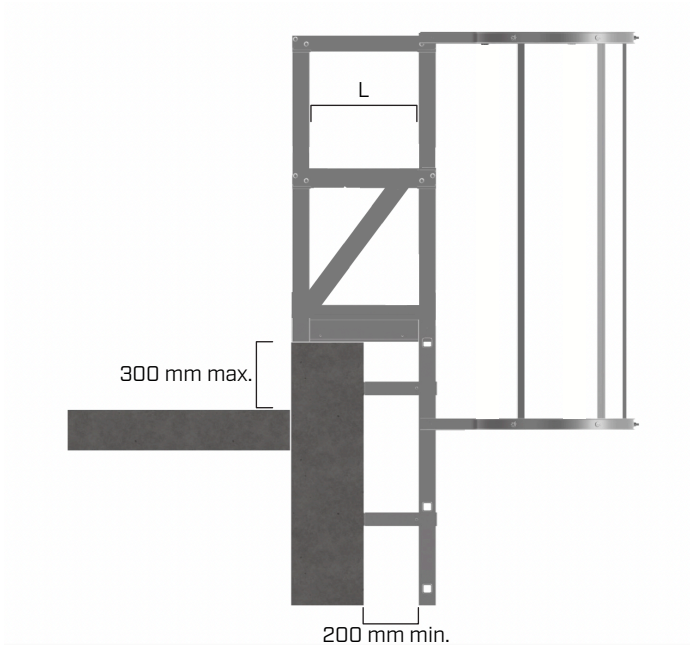
M10 x 50 mm screw +  
hexagonal nut toothed flange M10



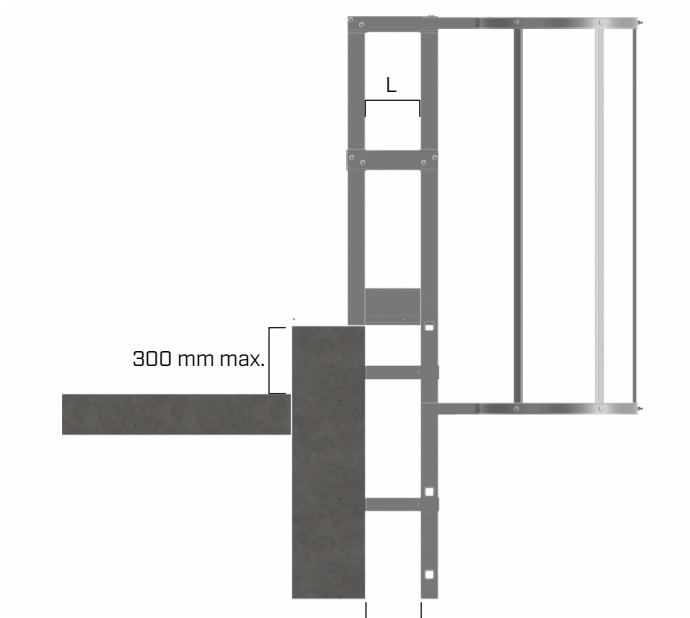


PROTECTION KIT CONFIGURATIONS

STEPLAND500



STEPLAND300



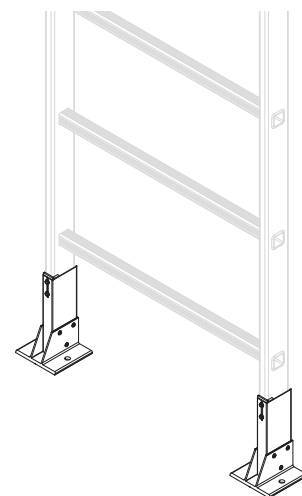
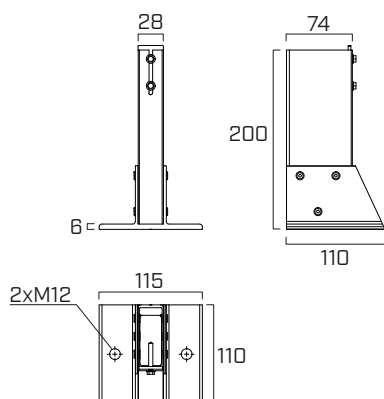
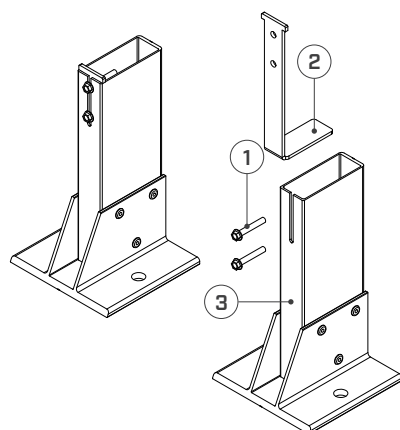
**L** maximum railing height with simple fasteners

Width	Description	Material	Weight
[mm]	[mm]		[Kg]
526	Landing 500	6063 aluminium	13,8
332	Landing 300		9,8

## BASES

### STEPFEETREG

Kit of 2 adjustable support feet with holes for fastening to the ground

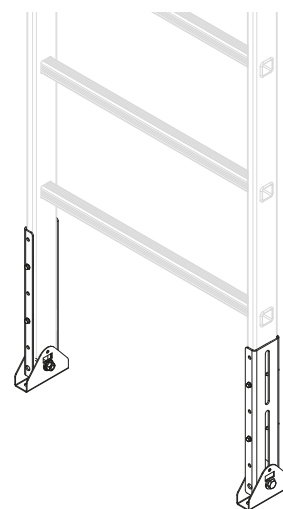
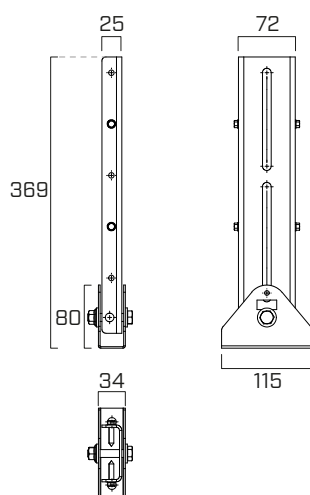
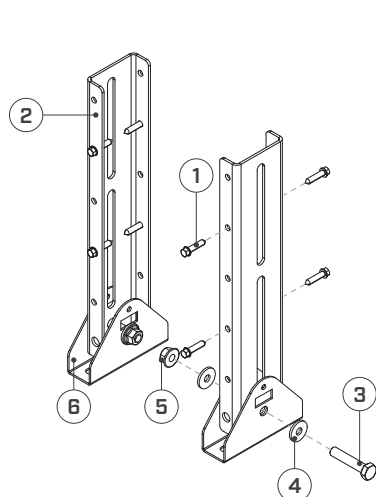


Description	Material	Pcs	Weight [kg]
1 Self Ø4,8 x 32 mm self-drilling screw	Stainless steel	2	0,5
2 L-shaped plates for adjustable support feet	Stainless steel	1	
3 Direct fastening base	Aluminium 6063T5	1	

### STEPFEETHING

Kit of 2 adjustable hinged support feet

Max. vertical tilt 50°.



Description	Material	Pcs	Weight [kg]
1 Ø6 x 25 mm self-drilling screw	Stainless steel	8	0,7
2 L-shaped plates for adjustable support feet	S235 Steel + anti-corrosion treatment	2	
3 M10 x 60 mm screw	A2 stainless steel	2	
4 M10 washer	A2 stainless steel	4	
5 Hexagon nut M10 with toothed flange	A2 stainless steel	2	
6 Mounting plates with hinge	235 JR steel	2	

# GATES

The **STEP UP** safety gate is mandatory to ensure collective protection in cases where the terrace railing is less than 1,000 mm (according to NF EN 85-15) or 1,100 mm (according to EN 14122-3).

It is installed at the access point to the landing area and complies with the following requirements:

- Lightweight gate designed for easy opening.
- Automatic gate closure by spring-loaded hinges.
- Delivered with screws and pre-assembled.
- Gate with two pre-installed anodised aluminium hinges for automatic closing.

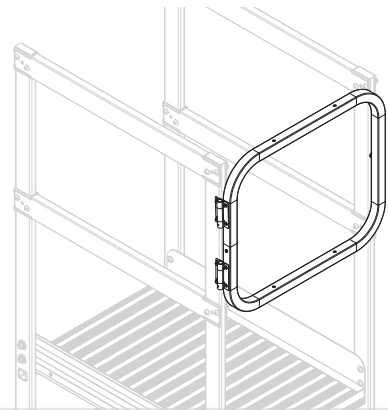
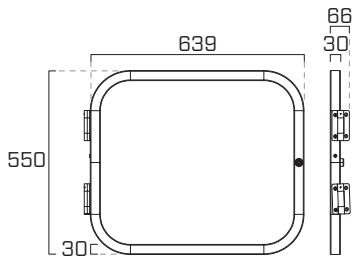
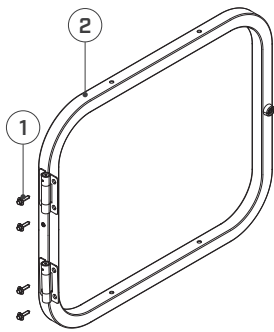
Two models of security gates are available for all requirements:

- 500 mm gate if the height of the railing is between 100 mm and (1,000 mm or 1,100 mm).
- 1,100 mm gate if the height of the railing is less than 100 mm.



## STEPGATE550

Landing gate H=550 mm (fasteners included)

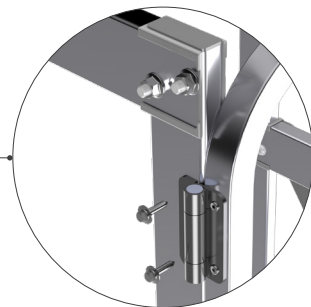
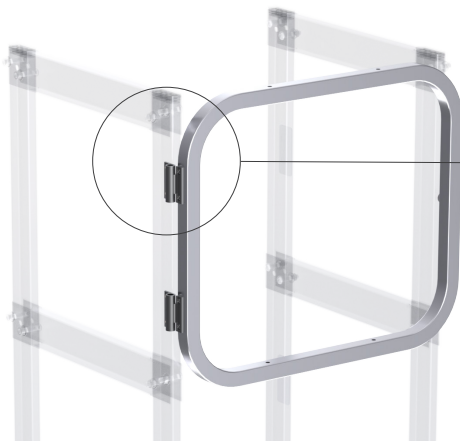


Description		Pcs	Weight [kg]
1	DBS2 Ø6 x 25 mm screw + washer	4	1,79
2	Gate structure	1	

## STEPGATE550 ASSEMBLY INSTRUCTIONS

Steps for assembling the gate:

1. Position the gate at the top of the landing and secure it to the uprights with two clamps.
2. Fasten the hinges to the upright with DBS2 screws and washers.
3. Remove the clamps.
4. Check the spring resistance of the hinges, which may vary as required.

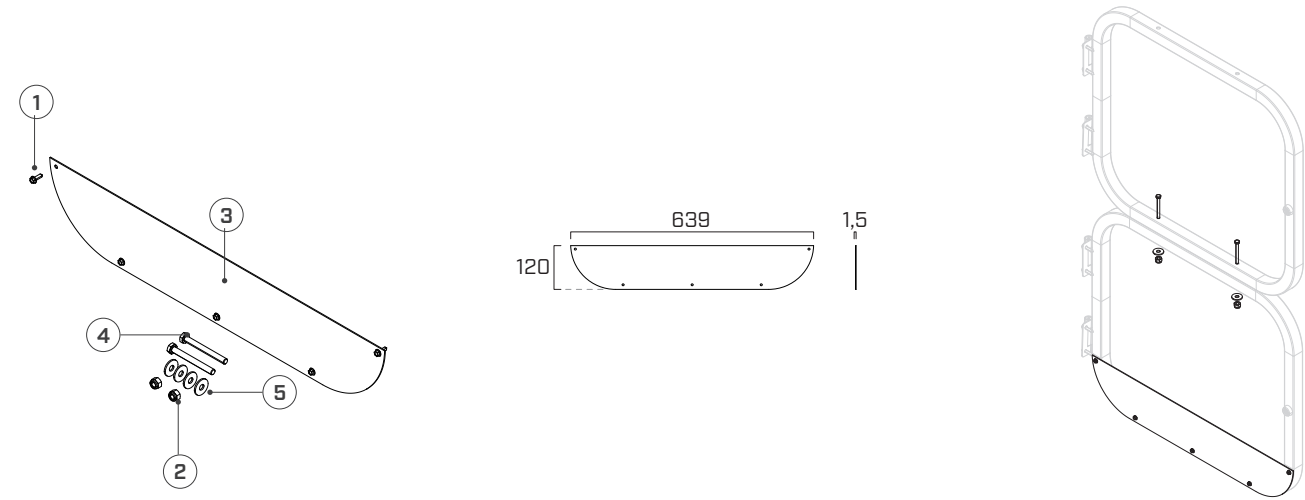


DBS2 Ø6 x 25 mm screw + washer

# GATES

## STEPGATEKIT

Fastening kit for duplication of STEPGATE550 gate  
The kit allows two 550 mm gates to be joined, turning them into a single 1,100 mm element, with a quick and easy installation.



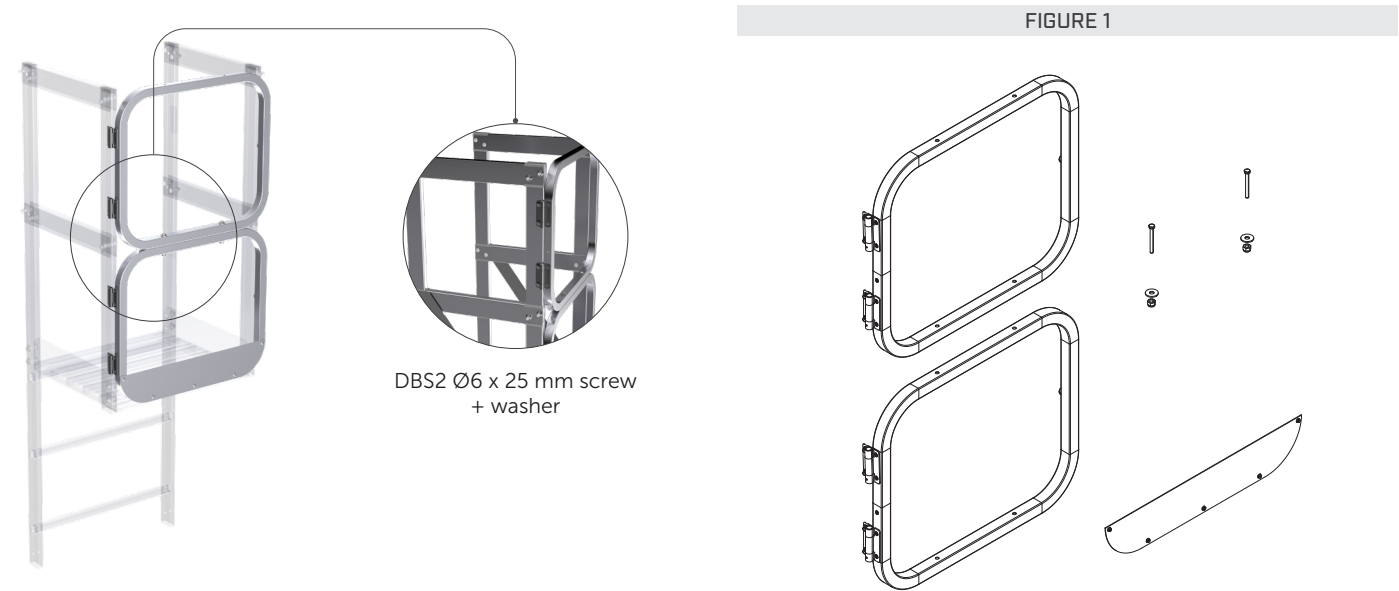
Description	Material	Pcs	Weight [kg]
1 Self-drilling screw M4,8 x 16 mm	Stainless steel	5	0,29
2 M8 brake nut	Stainless steel	2	
3 Gate toe board	5754 Aluminium	1	
4 M8 x 75 mm screw	Stainless steel	2	
5 M8 washer	Stainless steel	4	

### STEPGATEKIT ASSEMBLY INSTRUCTION

#### 1,100 mm gate assembly

The gate (**STEPGATE550**) and conversion kit (**STEPGATEKIT**) are required for installation.

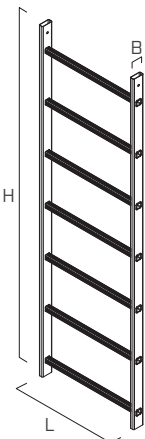
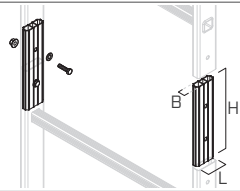
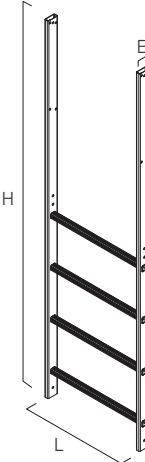
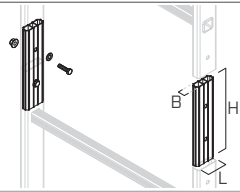
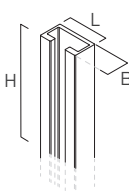
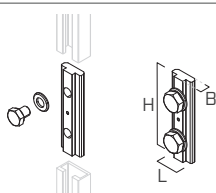
1. Join the two gates with M8 x 75 mm screws, M8 washers and M8 brake nut, as shown in **figure 1**.
2. Install the toe board using M8 x 16 mm self-drilling screws at the bottom of the gate 1,100 mm.
3. Position the 1,100 mm safety gate at the upper end of the landing and fasten it to the landing uprights with 2 clamps.
4. Fasten the hinges to the upright with DBS2 screws and washers.
5. Remove the clamps.
6. Check the spring resistance of the hinges, which may vary as required.





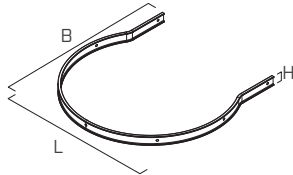
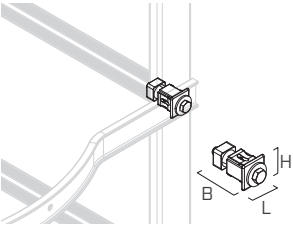
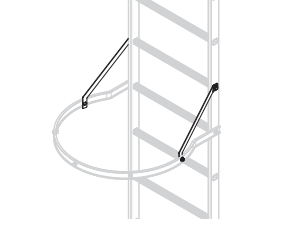
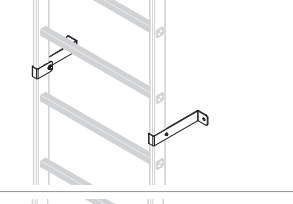
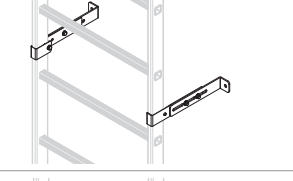
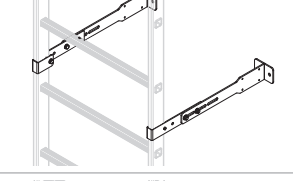
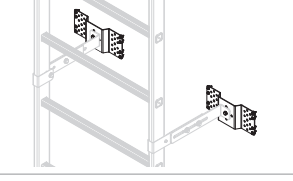
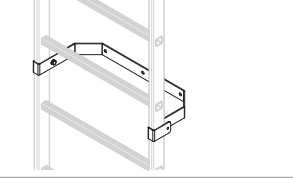
# COMPONENTS

## CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	B [mm]	L [mm]	H [mm]	pcs	
LADDER MODULES	STEPMOD120	ladder module 1,20 m - 4 steps	65	636	1200	1	
	STEPMOD150	ladder module 1,50 m - 5 steps	65	636	1500	1	
	STEPMOD180	ladder module 1,80 m - 6 steps	65	636	1800	1	
	STEPMOD210	ladder module 2,10 m - 7 steps	65	636	2100	1	
	STEPMOD240	ladder module 2,40 m - 8 steps	65	636	2400	1	
	STEPMODJUN	kit of 2 ladder-to-ladder joints	21	62	240	1	
FRONT EXIT RAILS	STEPOUT160	module with front exit rail 1,6 m - 2 steps	65	636	1595	1	
	STEPOUT190	module with front exit rail 1,9 m - 3 steps	65	636	1895	1	
	STEPOUT220	module with front exit rail 2,2 m - 4 steps	65	636	2195	1	
	STEPOUT250	module with front exit rail 2,5 m - 5 steps	65	636	2495	1	
	STEPOUTJUN	kit of 2 ladder-front exit connections	21	62	240	1	
CAGE	STEPBAR180	kit of 5 cage bars 1,8 m	26,5	15	1800	1	
	STEPBAR220	kit of 5 cage bars 2,2 m	26,5	15	2200	1	
	STEPBAR250	kit of 5 cage bars 2,5 m	26,5	15	2500	1	
	STEPBARJUN	kit with 5 rod joints for cage	18	22	80	1	



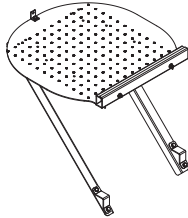
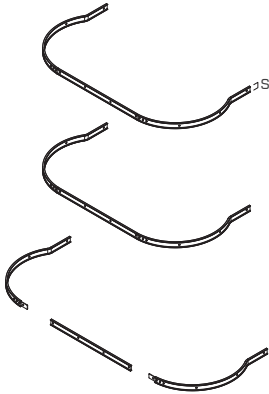
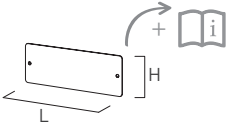
# COMPONENTS

## CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	B [mm]	L [mm]	H [mm]	pcs	
RINGS	STEPRINGIT	cage ring Leg. Decree 81/2008 - UNI 11962:2024	660	636	44	1	
	STEPRINGEU	cage ring EN 14122	760	636	44	1	
	STEPRINGJUN	kit of 2 ladder-to-ring joints for cage	36	61	36	1	
	STEPSUPRINGIT	Kit of 2 reinforcements for STEPRINGIT	340	50	216	1	
	STEPSUPRINGEU	Kit of 2 reinforcements for STEPRINGEU	340	51	340	1	
BRACKETS	STEPBRAV150	kit of mounting brackets for a 200 mm wall distance	269	88	50	1	
	STEPBRAV400	kit of mounting brackets for an adjustable wall distance - max. 400 mm	474	88	55	1	
	STEPBRAV600	kit of mounting brackets for an adjustable wall distance - max. 600 mm	674	88	55	1	
	STEPBRAMET	kit of 2 mounting plates for trapezoidal metal (fasteners included)	150	358	32	1	
	STEPBRAU	"U"-bracket for connecting the ladder to a column or the wall	269	645	50	1	

COMPONENTS

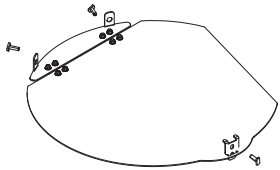
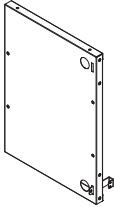

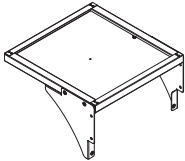
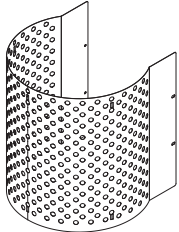

CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	pcs	
CAPS	STEPMODCAP	kit of 2 upper upright caps	1	
	STEPBARCAP	kit with 5 rod caps	1	
REST PLATFORM	STEPBOARIT	rest platform Legislative Decree 81/2008 - UNI 11962:2024	1	
	STEPBOAREU	rest platform EN 14122	1	
	STEPDOURIT	ring for rest platform Leg. Decree 81/2008 - UNI 11962:2024	1	
	STEPDOUREU	ring for rest platform EN 14122	1	
LABEL	STEPTARGAIT	label in compliance with Legislative Decree 81/2008 - UNI 11962:2024 + IT manual	1	
	STEPTARGAEU	label EN 14122-4 + EN manual	1	




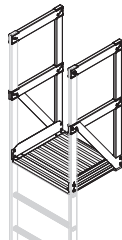
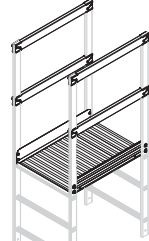
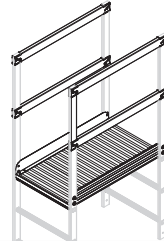
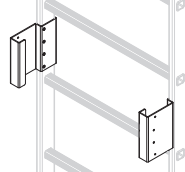
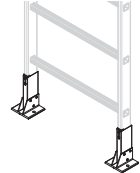
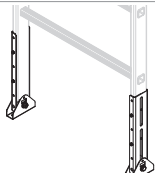
COMPONENTS

CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	pcs	
LADDER ACCESS	STEPTRAPIT	safety gate for ladder access Legislative Decree 81/2008 - UNI 11962:2024	1	
	STEPTRAPEU	safety gate for ladder access EN 14122	1	
	STEPDOOR90	half-height safety door with fasteners and door stop	1	
	STEPDOOR180	safety door	1	
	STEPDOORUP	upper part of safety door	1	
CLOSURE	STEPCOVERIT	metal sheet for safety cage closure Leg. Decree 81/2008 - UNI 11962:2024	1	
	STEPCOVEREU	metal sheet for safety cage closure EN14122	1	
	STEPCOVERSIDE	kit of 2 side cage covers	1	

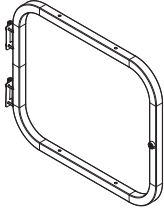
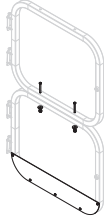
# COMPONENTS

## CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	pcs	
PROTECTION KIT	STEPLAND300	300 mm platform kit with side protection	1	
	STEPLAND500	500 mm platform kit with side protection	1	
	STEPLAND800	800 mm platform kit with side protection	1	
	STEPLAND1000	1000 mm platform kit with side protection	1	
ACCESSORIES	STEPDOORDIST	door spacers for vertical lifeline	1	
BASES	STEPFEETREG	kit of 2 adjustable support feet with holes for fastening to the ground	1	
	STEPFEETHING	kit of 2 adjustable hinged support feet	1	

COMPONENTS

CODES, DESCRIPTIONS AND DIMENSIONS

GROUP	CODE	description	pcs	
GATES	STEPGATE550	landing gate H=550 mm (fasteners included)	1	
	STEPGATEKIT	fastening kit for duplication of STEPGATE550 gate	1	



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06-25

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