INTEWA

INSTALLATION AND OPERATING INSTRUCTIONS

Above-ground rainwater and storage tanks

CONTE
NTS

1 GENERAL INFORMATION

1.1 SAFETY RULES AND GOOD PRACTICE

THE INSTALLER IS RESPONSIBLE FOR THE FOLLOWING:

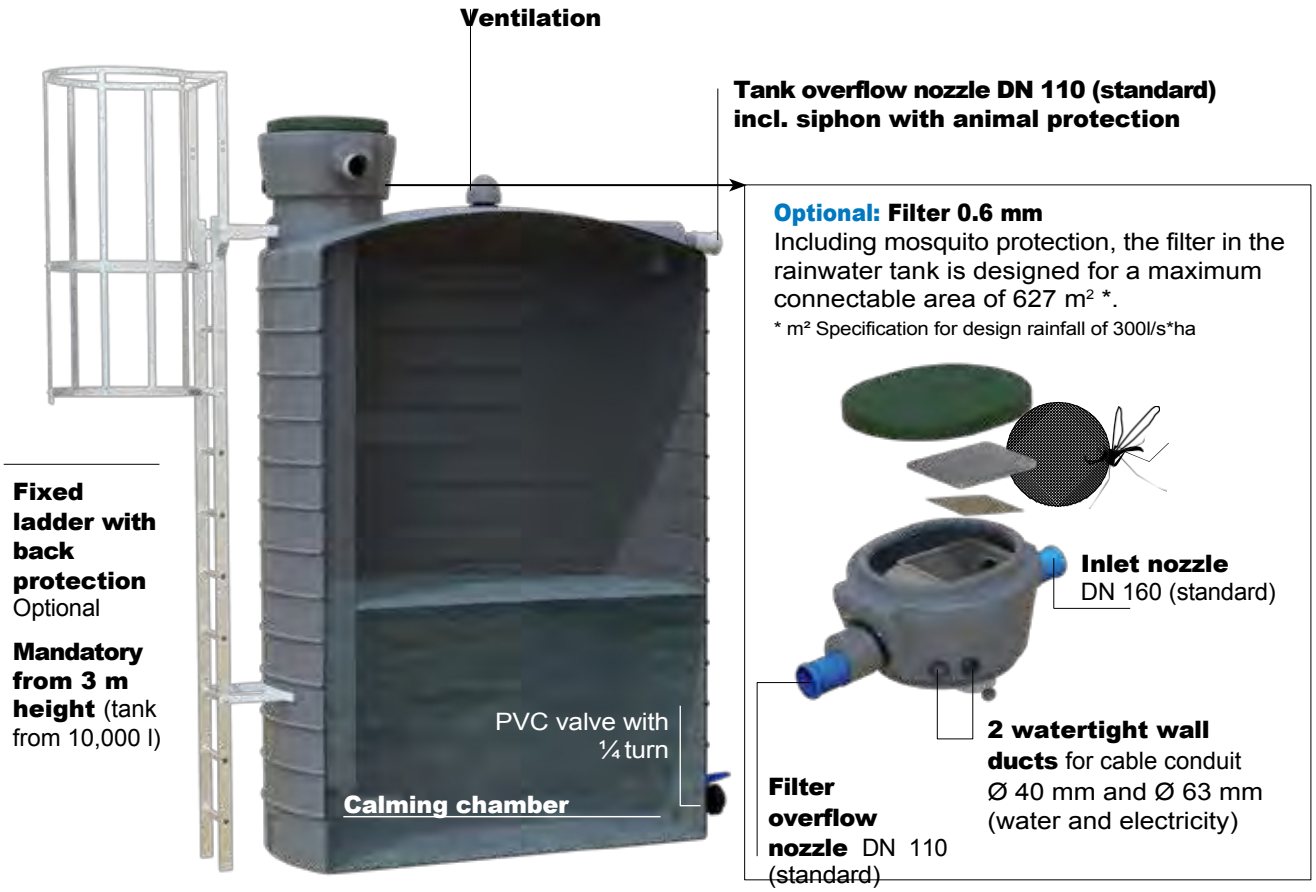
- Selection of the most suitable tanks, taking into account the soil conditions.
- Ensuring accessibility to the construction site.
- Compliance with hygiene and safety regulations for all installation work.
- Use of suitable equipment.

THE INSTALLATION OF THE SYSTEM MUST BE CARRIED OUT IN ACCORDANCE WITH THE APPLICABLE LEGAL REGULATIONS AND THE RULES OF GOOD PRACTICE:

- Rainwater must be collected from roofs.
- Every downpipe that channels rainwater into the storage tank should be fitted with a leaf strainer at the top end.
- To avoid confusion, rainwater pipes and outlets are marked with the lettering or pictogram "No drinking water" must be marked. All outlets must be marked with be equipped with "childproof" valves.

2 PARTS TO BE INSTALLED

2.1 EQUIPMENT



2.2 MEASUREMENTS

Model (liters)	Order no.	Ø (m)	Height (m)	Weight (kg)	Water channel						DN drain valve
					Inflow		Procedure		Overflow		
					H (m)	Ø (mm)	H (m)	Ø (mm)	H (m)	Ø (mm)	
5.000	120240	2,15	2,03	140	1,75	160*	1,7	110**	1,41	110**	2" (DN50)
7.500	120241		2,72	210	2,72		2,39		2,13		2.5" (DN65)
10.000	120242		3,44	285	3,16		3,1		2,85		
15.000	120243	2,5	4,15	425	3,87		3,82		3,43		3" (DN80)
20.000	120244		5,29	675	5,01		4,96		4,64		

Fixed ladder with back protection

* Reduction and connection to DN 110 possible via on-site adapter. The connectable area is then reduced to 213 m² (*m² specification for rated rainfall of 300l/s*ha)

Mandatory from 10,000 l!

** Must be combined on DN 160 base pipe for DN 160 inlet connection on site!

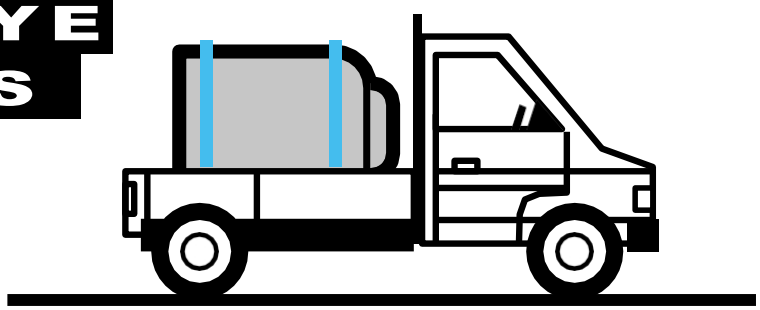
3 INSTRUCTIONS FOR TRANSPORT AND HANDLING

3.1 TRANSPORT

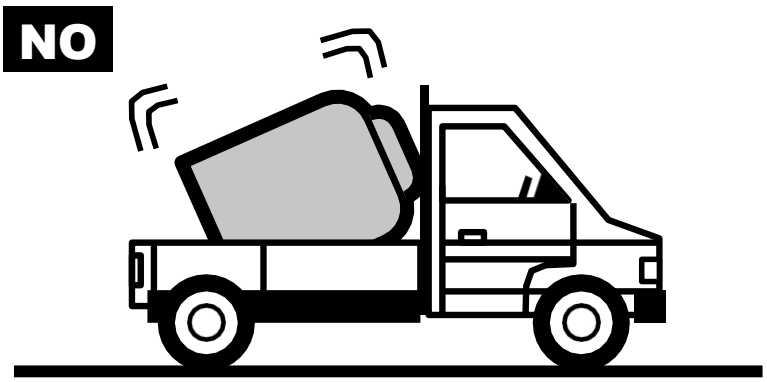
The tanks must be transported horizontally and secured at the outer ends with straps.

YES

Vertical belts,
attached near the ends



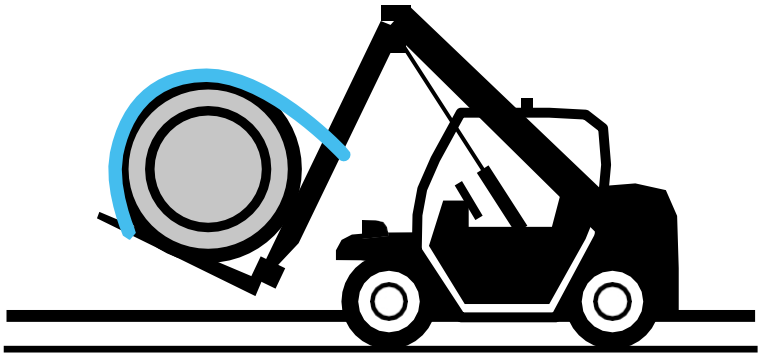
NO



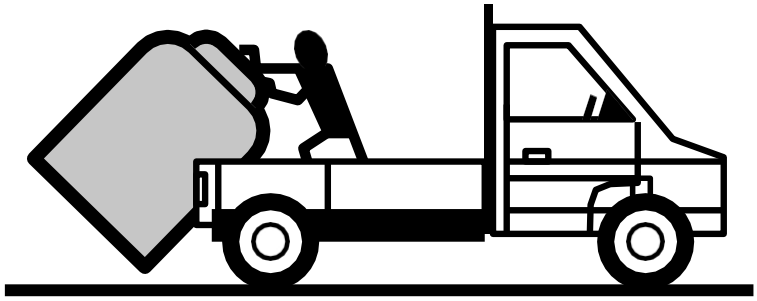
3.2 HANDLING

The tanks must be unloaded using suitable transportation equipment. Forklift truck, fork length at least 1400 mm.

YES inimum length the fork 1400 mm



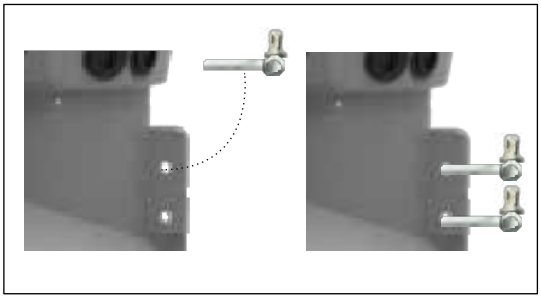
NO



For the 5 to 20 m3 tanks
Insert the CMU1T shackle into the holes in the manhole. For lifting and moving of the tank (crane, telescopic device).

For the 5 to 10 m³ tanks
1 shackle in the fastening holes for the fixed ladder with back protection

For the 15 to 20 m³ tanks
4 shackles in the holes on the edge of the dome

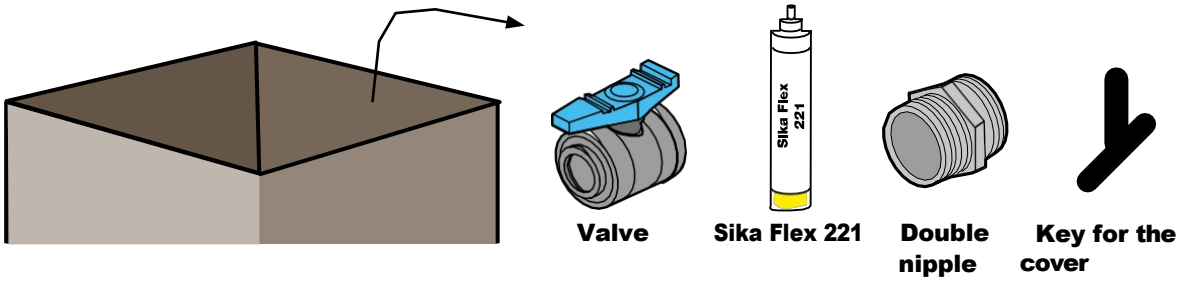


4 ASSEMBLY STEPS

4.1 REMOVING THE PARTS FROM THE BOX

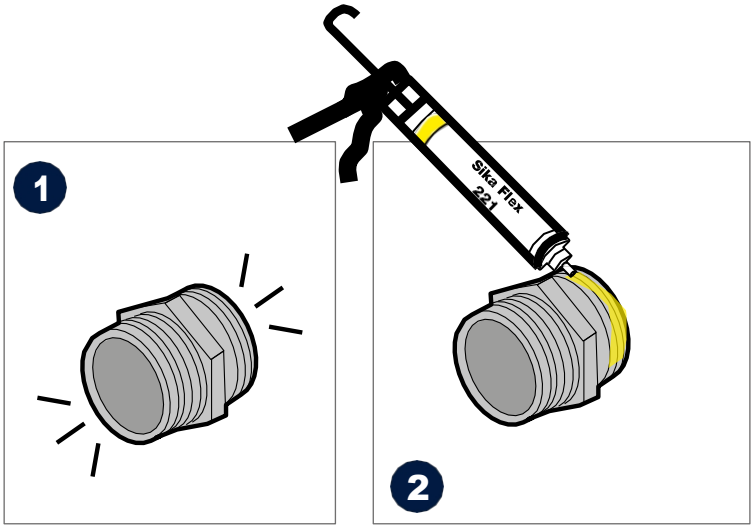
Each tank is supplied with the corresponding valve unassembled (supplied in an enclosed box). This valve must always be used, no other model!

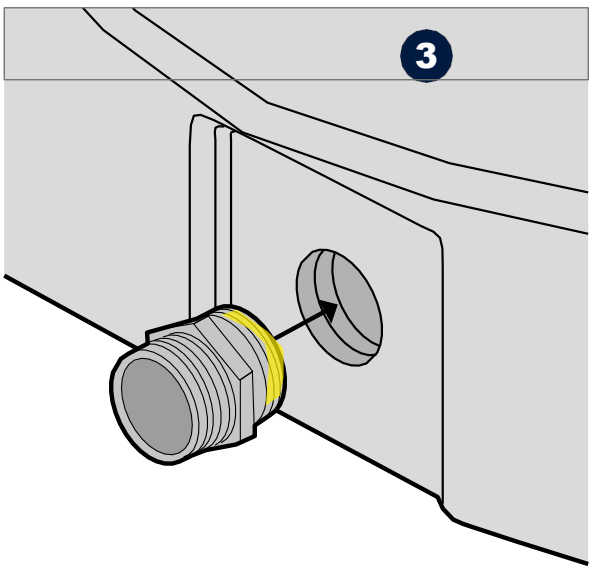
In the scope of delivery

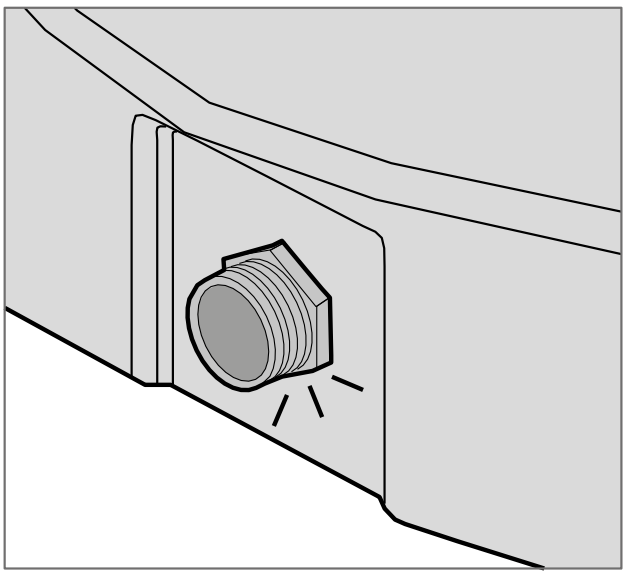


4.2 MOUNTING THE NIPPLE

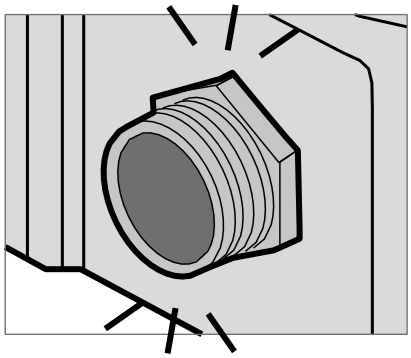
1. The surfaces to be bonded must be dry and free of grease and dust.
2. Apply a continuous line of Sika Flex 221 (supplied) to one of the threaded sections of the double nipple at the start of the thread.
3. Tighten the double nipple as far as it will go on the tank using a suitable wrench.



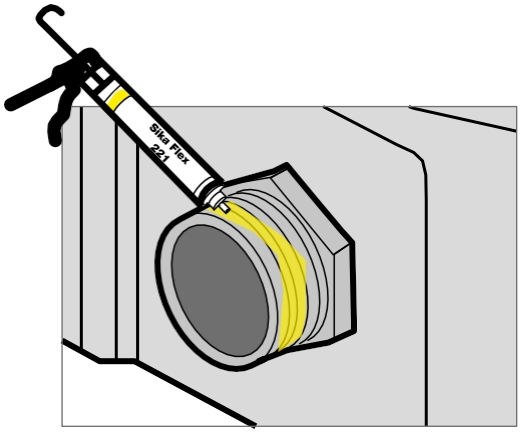




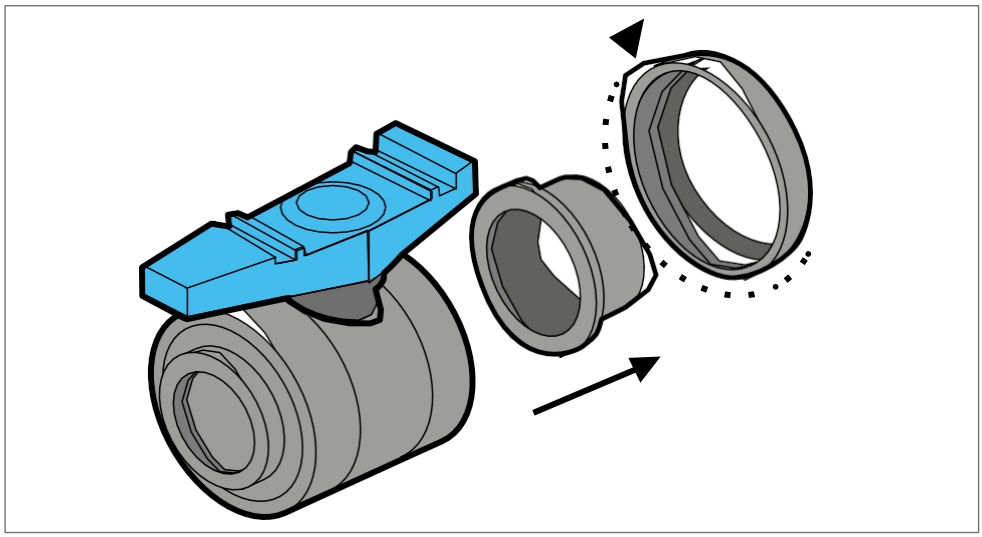
4.3 MOUNTING THE VALVE



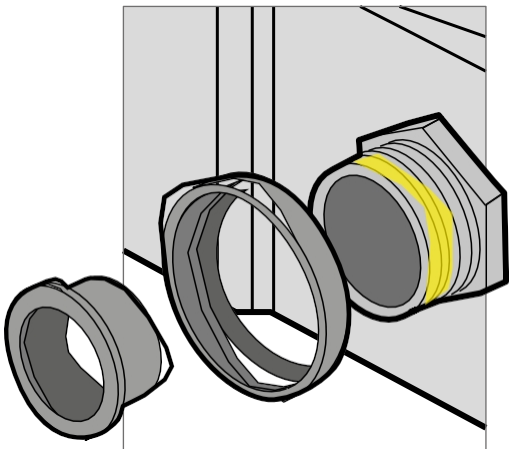
The surfaces to be sealed must be clean and dry



Apply a continuous line of Sika Flex 221 (included in the scope of delivery) to the nipple



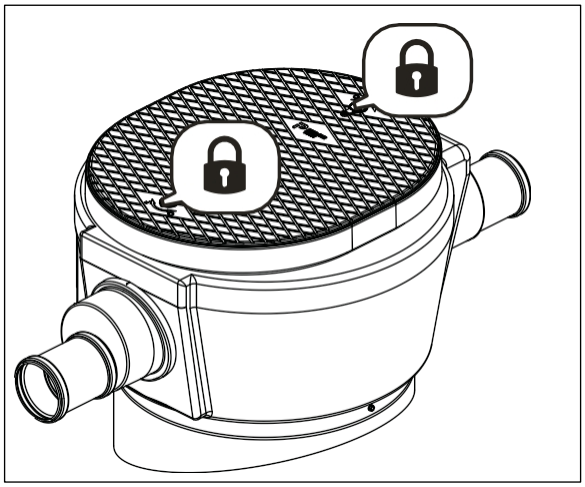
Dismantle one side of the valve to remove the mouthpiece and collar

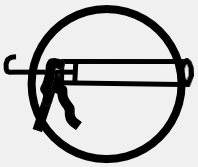


Place the rim of the valve on the nipple and then screw the part with the internal thread of the valve as far as it will go

4.4 CLOSING THE COVER

It is essential to close the cover (key included in the scope of delivery)





Cartridge press

5 USE AND INSTALLATION

5.1 USE

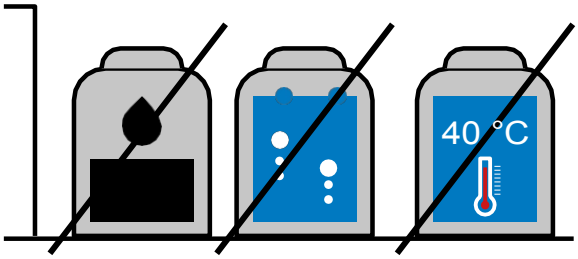
For above-ground storage of water and certain liquids, see table

	Use		
Water and liquids	PERMITTED*	PERMITTED** under extended conditions	NOT PERMITTED
Process water	x		
Gray water	x		
Vegetable oil	x		
Salt water	x		
Silage leachate (JGS)		x	
Waste water from facade cleaning		x	
Nitrogen fertilizer		x	
Viticultural waste water		x	
Water containing glycol		x	
Chlorinated water		x	
Fuels and liquid hydrocarbons			x
AdBlue			x
Mineral oils			x

* Up to a temperature of 40°C.
** Stored up to a temperature of 40° and a density of less than 1.3 kg/dm³.
This list is incomplete. Please contact us for a compatibility check.

NOT PERMITTED FOR:

- Compliance with "drinking water" quality
- Storage and/or transportation of fuel oil or hazardous substances or liquids with a density of more than 1.3 kg/dm³
- Vacuum setting
- Storage temperatures of over 40 °C



5.2 CLEANING THE FILTER GRID

- 1 Cleaning at the end of the summer to remove dust and pollen
- 1 Cleaning at the end of winter to remove dust and leaf residues

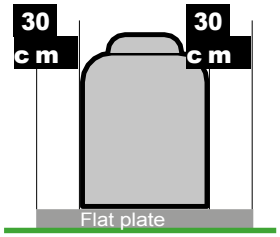
5.3 FROST PROTECTION

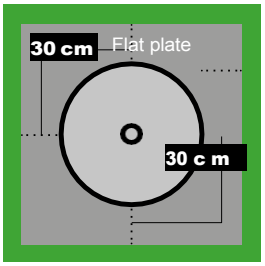
In mild regions (one week at -10°C) it is sufficient to keep the tank ¾ full at all times and to insulate the drain valve (e.g. with PVC insulation caps and insulating wool).

In regions where low temperatures and prolonged frosts are regularly expected, the tank should either be installed frost-free, fully insulated (e.g. with aluminum-laminated insulating wool or Armaflex) or the stored liquid should be drained.

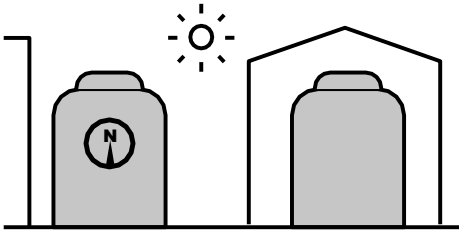
5.4 NOTES FOR THE INSTALLATION

Above-ground tanks must stand firmly on a flat, smooth and perfectly horizontal slab of sufficient mechanical strength. **This slab must be supported on each side of the tank 30 cm taller than this.**



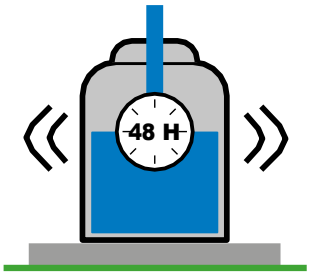


A location protected from the sun is preferable

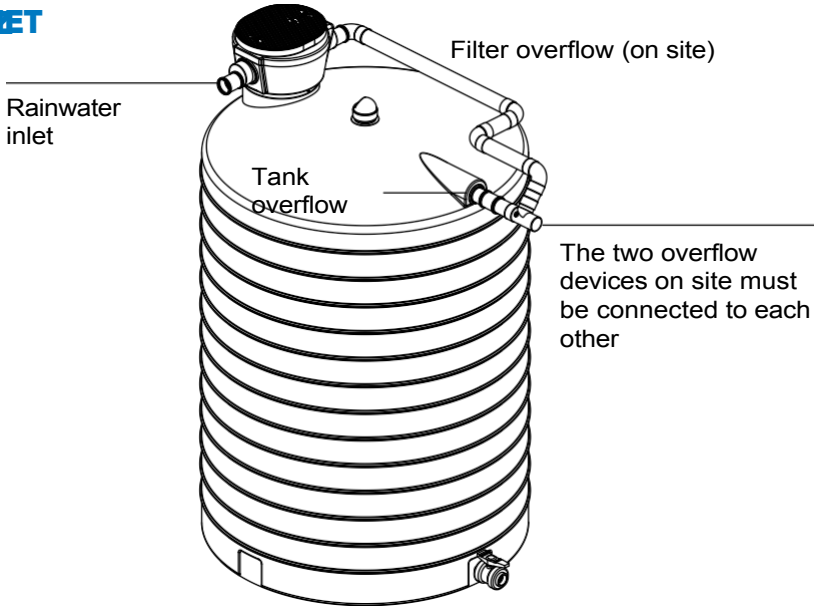


5.5 FILLING THE TANKS WITH WATER

Before final connection, the tank must be completely filled with water for at least 48 hours (this is how the tank takes on its final shape)



5.6 CONNECTION TO THE NET



5.7 COUPLING OF SEVERAL TANKS (RECOMMENDATION)

To be provided by the customer

- 1 x PVC T-piece IG according to valve connection (see table)

- 3 x PVC double nipple AG according to valve connection (see table)

- 1 x PVC elbow 90° IG according to valve connection (see table)

- 2 x hose connection according to valve connection (see table)

- Individual length of flexible hose according to valve connection (see table)

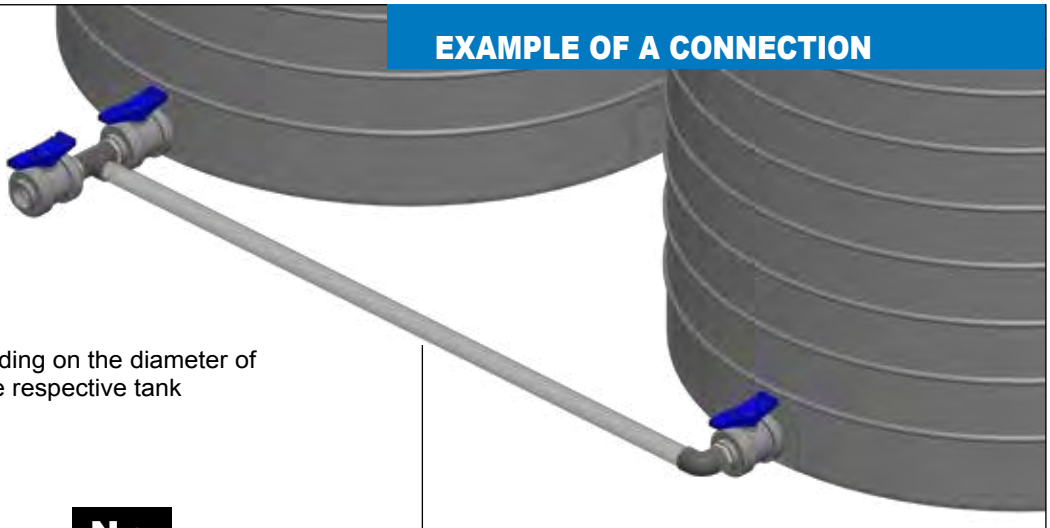
- 2 x hose clamp according to hose diameter

Optionally orderable

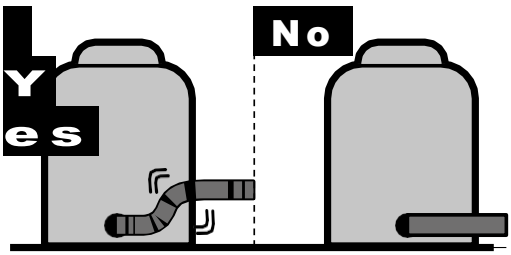
1 x drain valve according to table

Model (liters)	DN drain valve
5.000L	2" (DN 50)
7.500L	2.5" (DN 65)
10.000L	
15.000L	3" (DN 80)
20.000L	

EXAMPLE OF A CONNECTION



Diameter depending on the diameter of the outlets of the respective tank



The hose between the tanks must be flexible

The valves must be protected against damage,
e.g. start-up, must be protected,
otherwise there is a risk of leakage!

6 LADDER WITH BACK PROTECTION

6.1 AVAILABLE OPTIONS

From a height of 3 m (10,000 l), the use of a ladder with back protection is required

Order no.	Volume
120250	10.000 l
120251	15.000 l
120252	20.000 l

6.2 ASSEMBLY STEPS LADDERS FOR TANKS OF SIZES 10 AND 15 M3

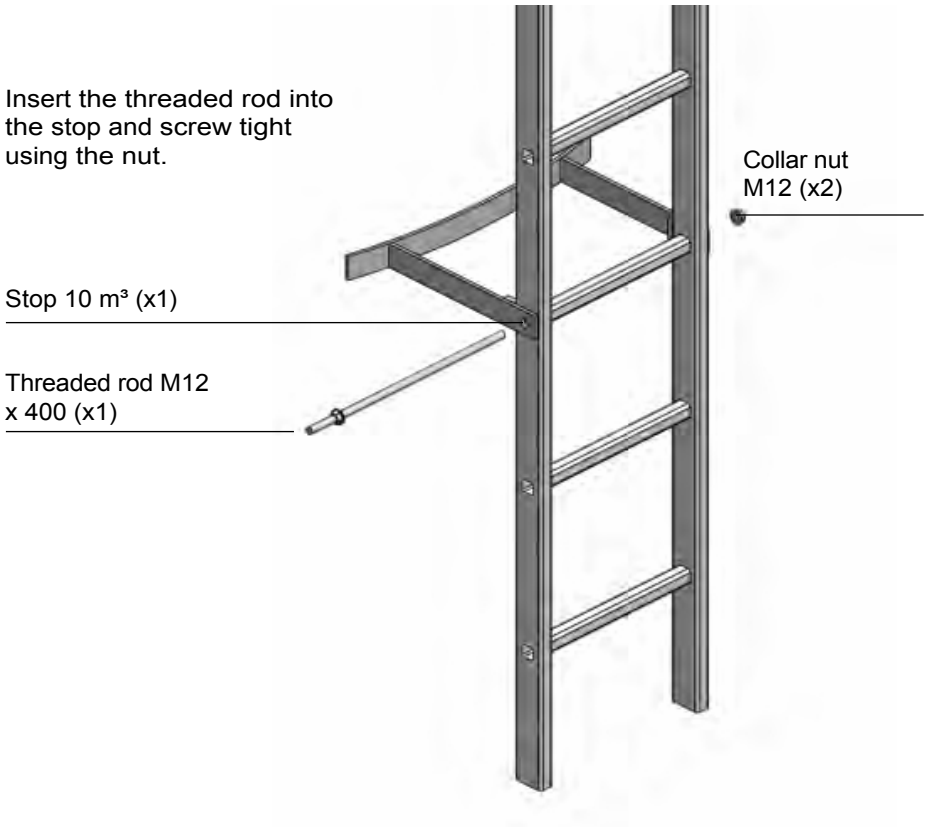
The ladder must be assembled on the floor

6.2.1 MOUNTING THE LADDER STOP

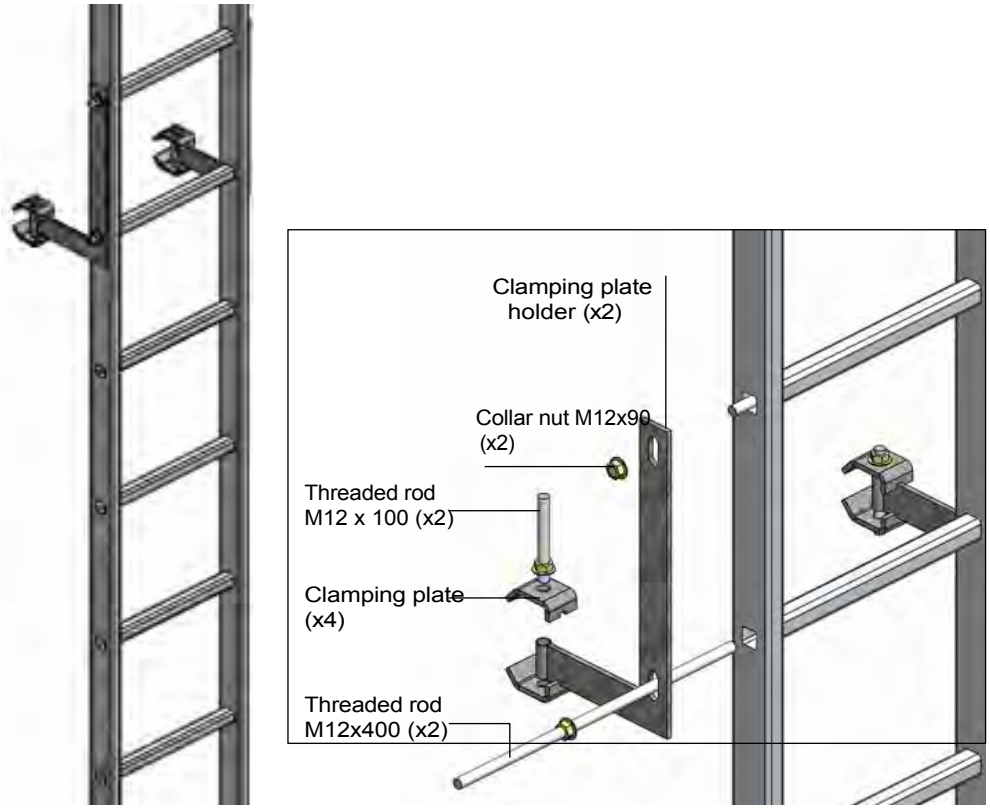
10-key 18-key
22-key

10-M3 version

Insert the threaded rod into the stop and screw tight using the nut.

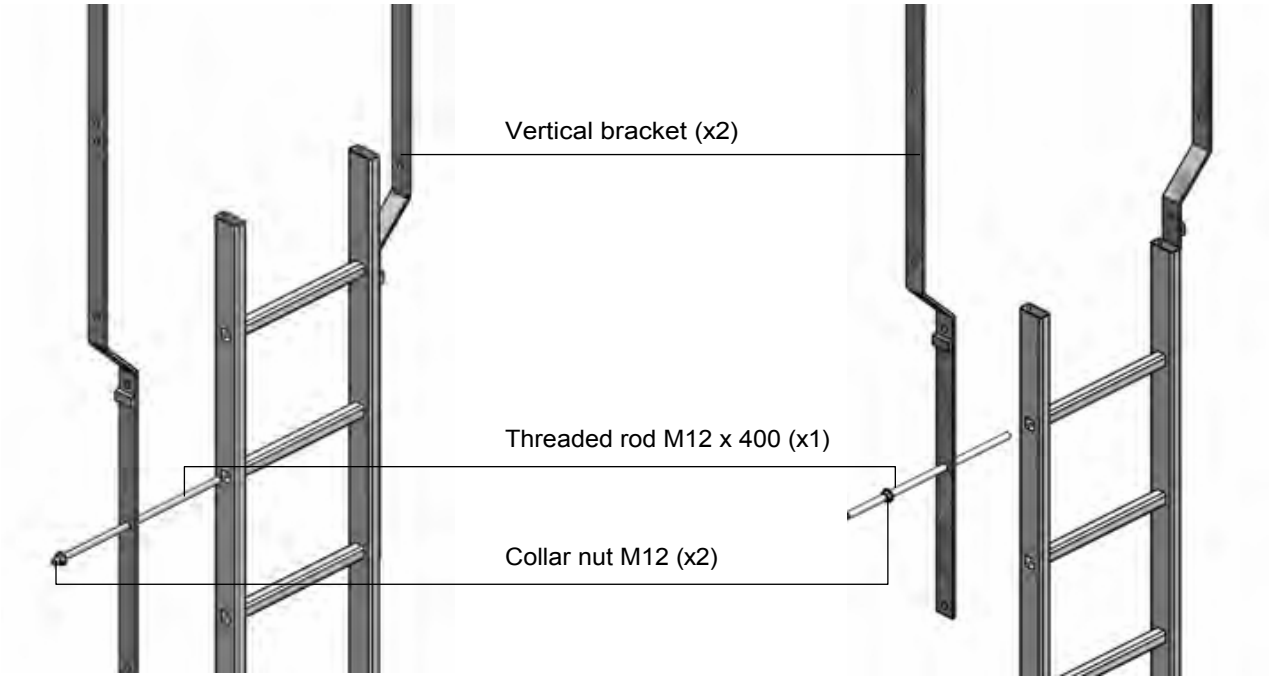


13/15-M3 version

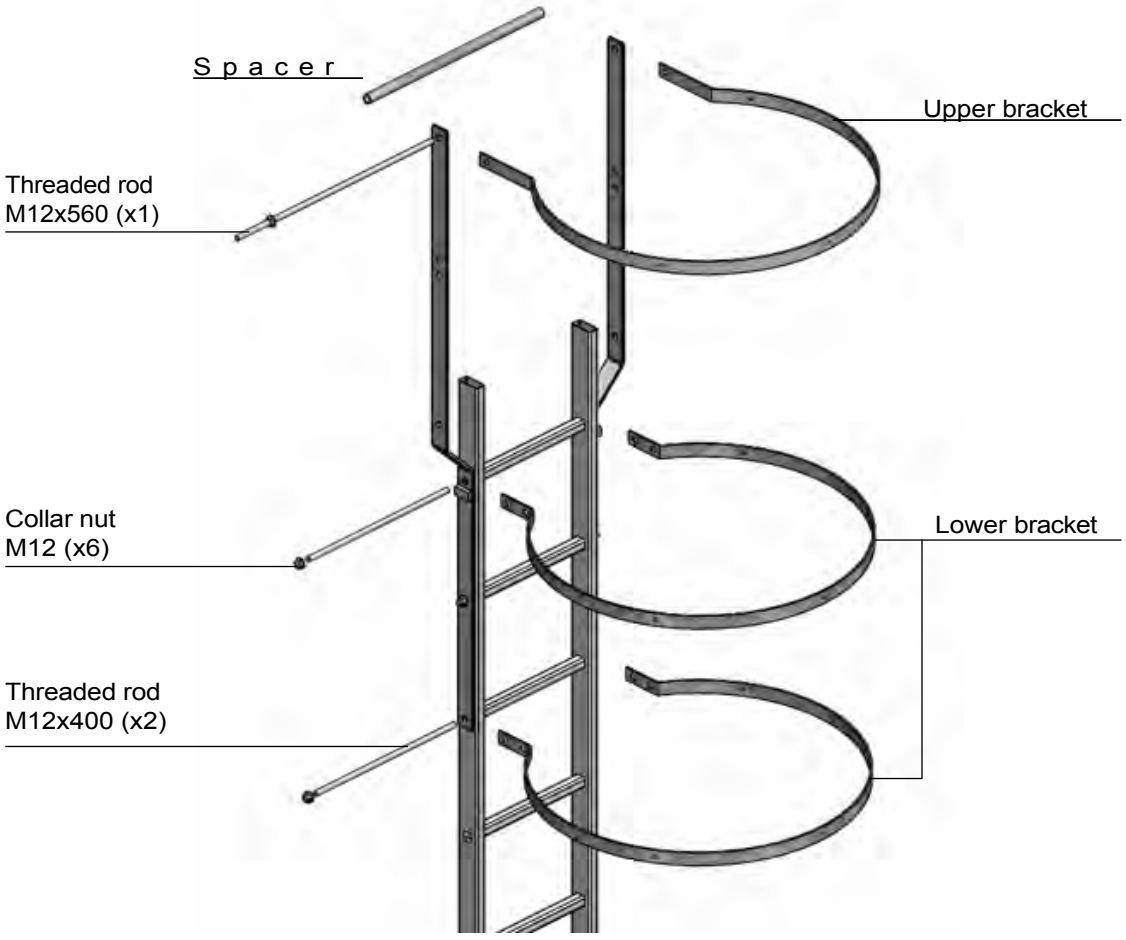


6.2.2 MOUNTING THE VERTICAL SUPPORTS ON THE LADDER

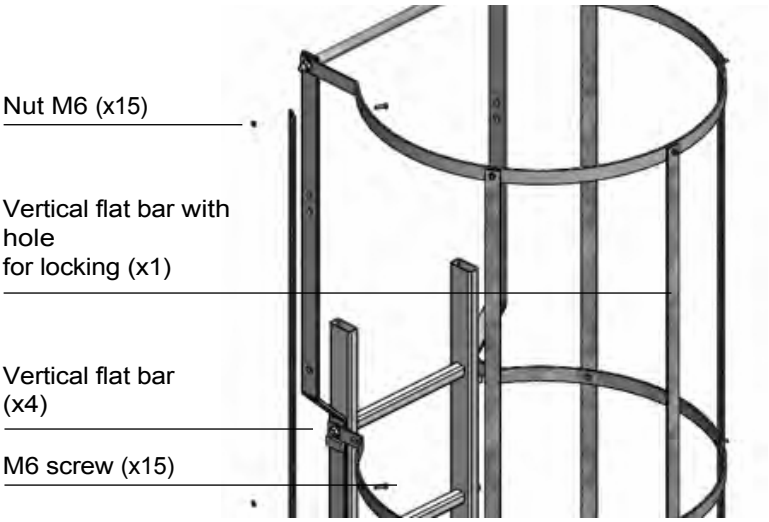
10-M3 version **13- AND 15-M3 version**



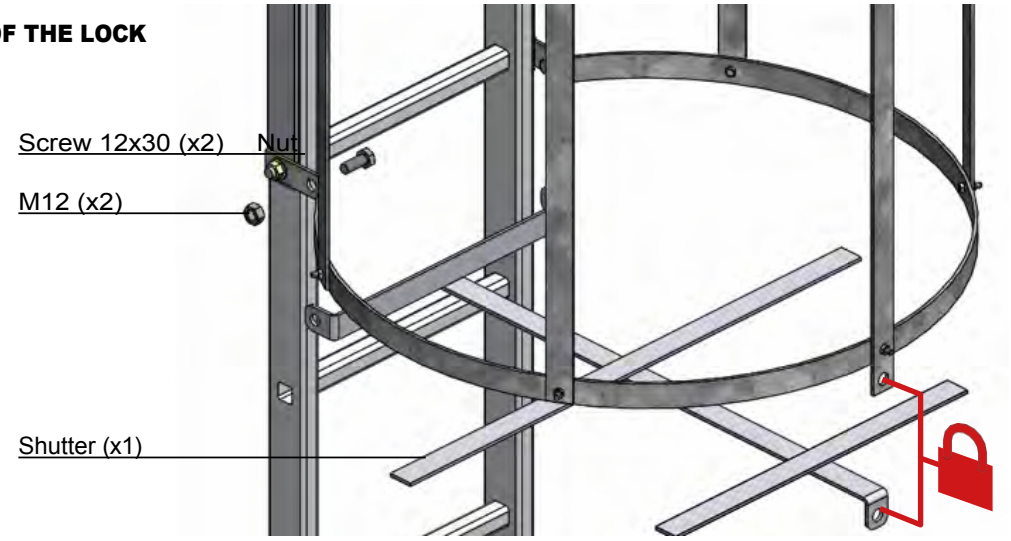
6.2.3 MOUNTING THE BRACKETS



6.2.4 MOUNTING THE VERTICAL FLAT BARS ON THE BRIDGES

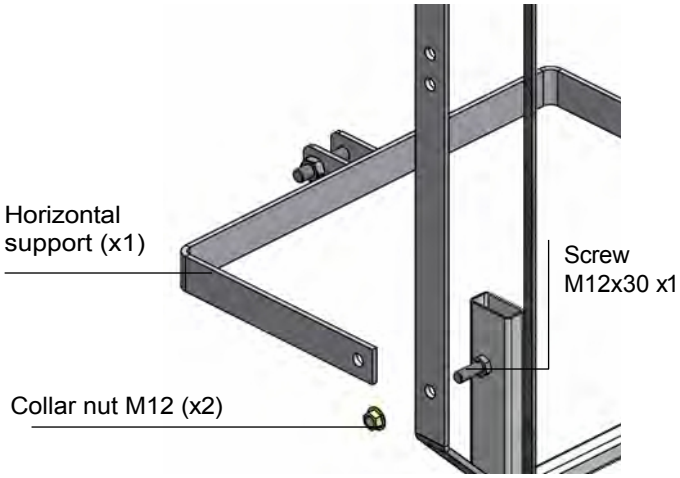


6.2.5 ASSEMBLY OF THE LOCK



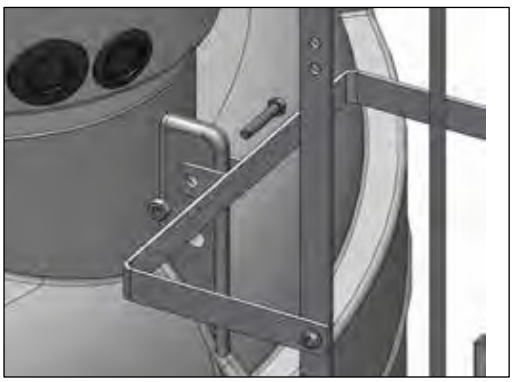
Provide a padlock to secure the back guard

6.2.6 ASSEMBLY OF THE HORIZONTAL SUPPORTS



6.2.7 CONNECTION TO THE TANK

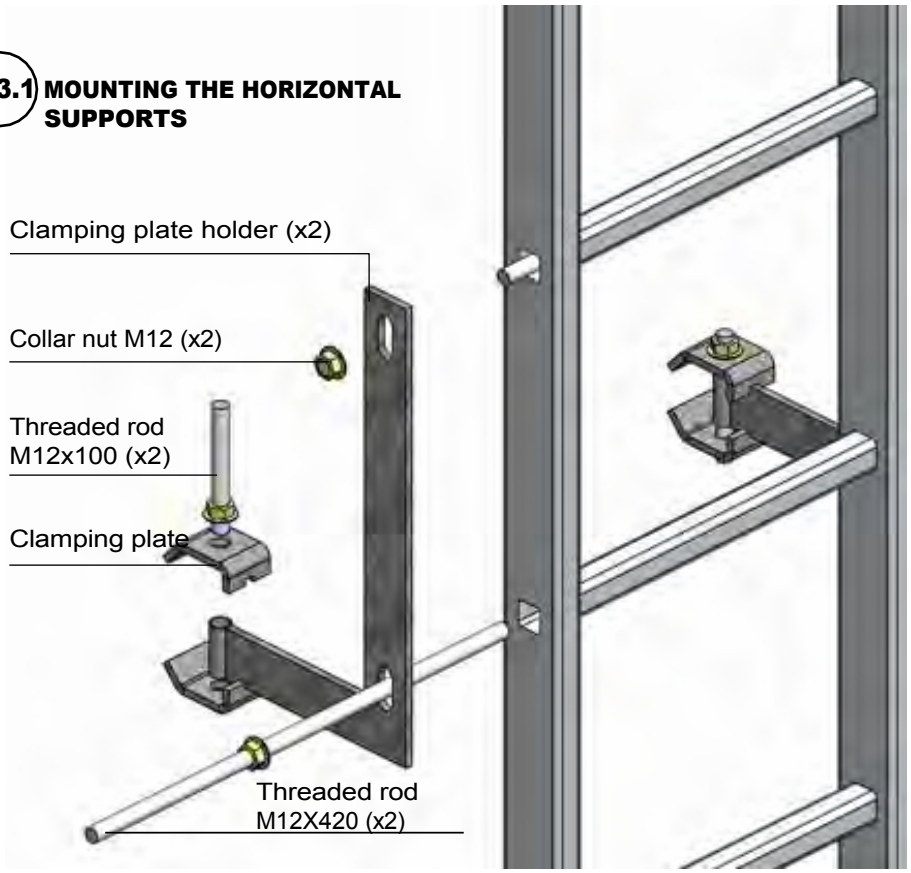
Once the ladder has been assembled on the ground, it must be lifted using a suitable transport device



6.3 ASSEMBLY STEPS LADDER FOR 20 M3 TANKS

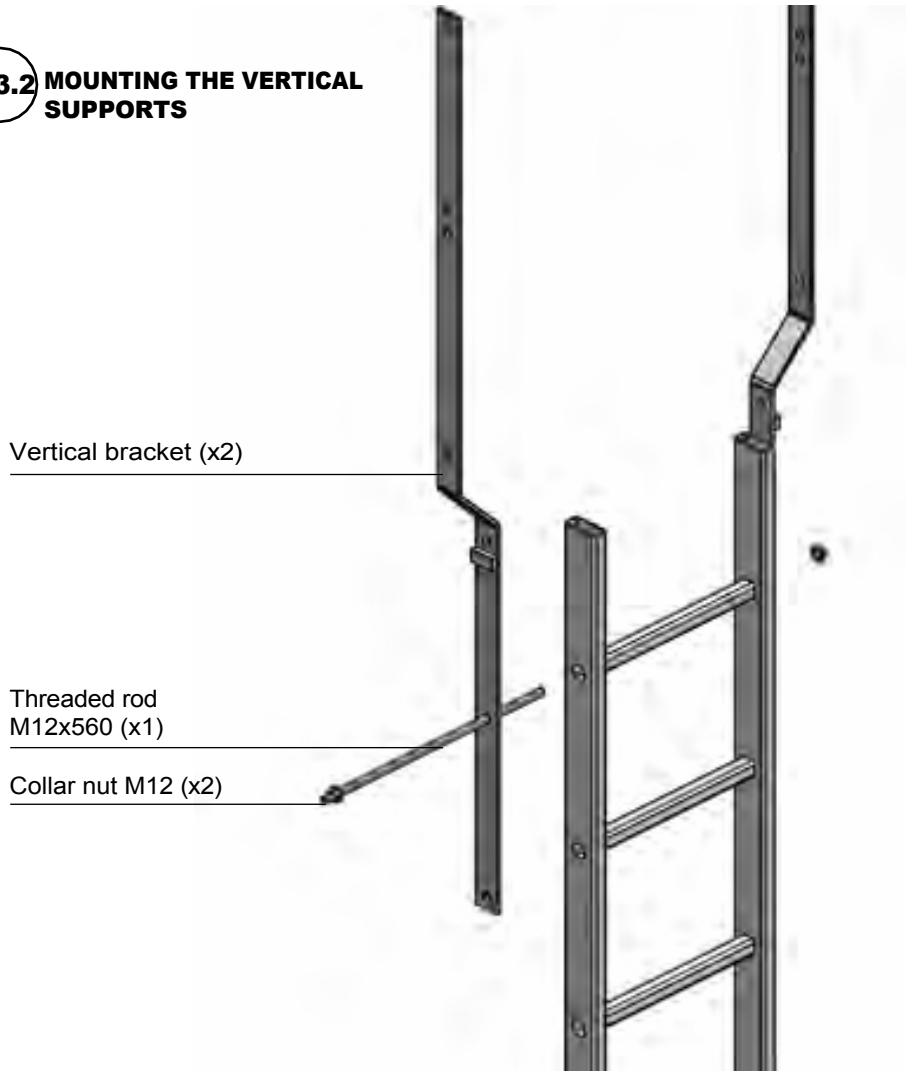
The ladder must be assembled on the floor

6.3.1 MOUNTING THE HORIZONTAL SUPPORTS

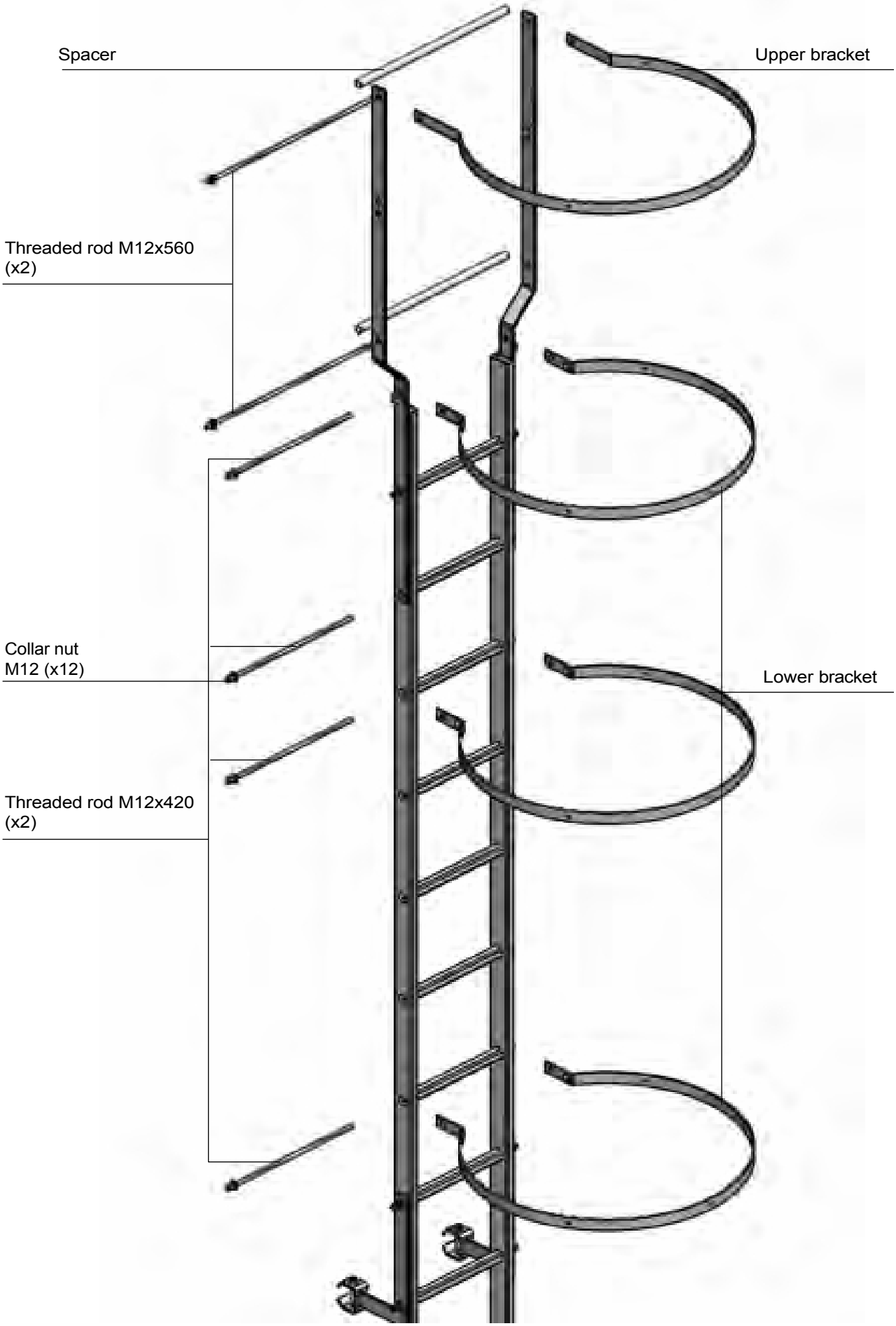


10, 18 and 22 mm keys

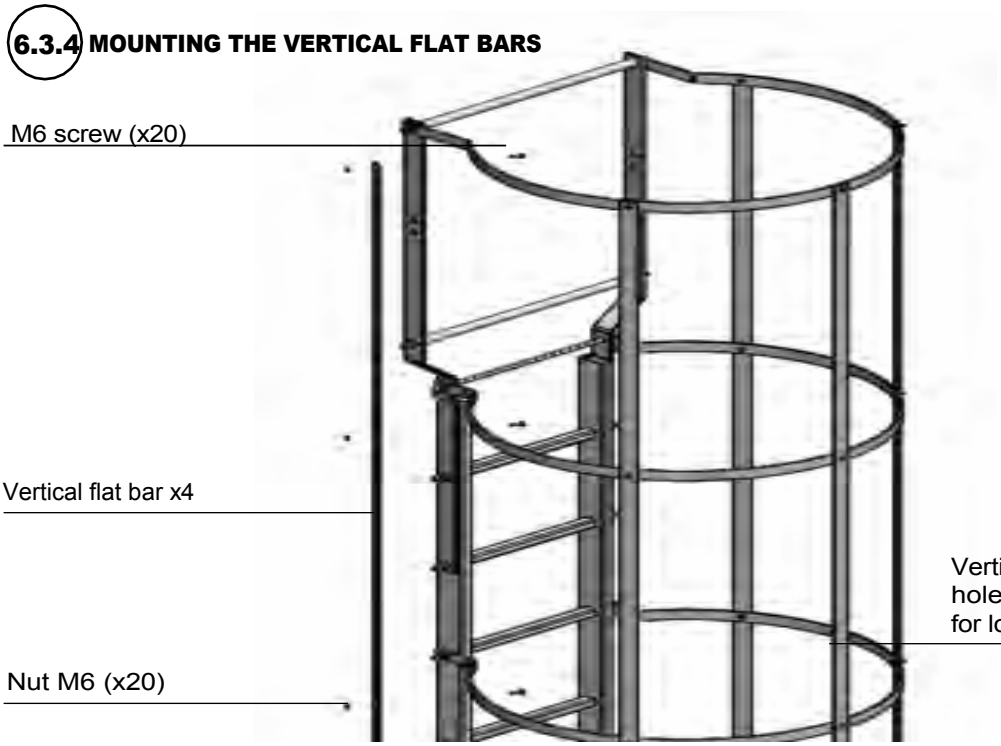
6.3.2 MOUNTING THE VERTICAL SUPPORTS



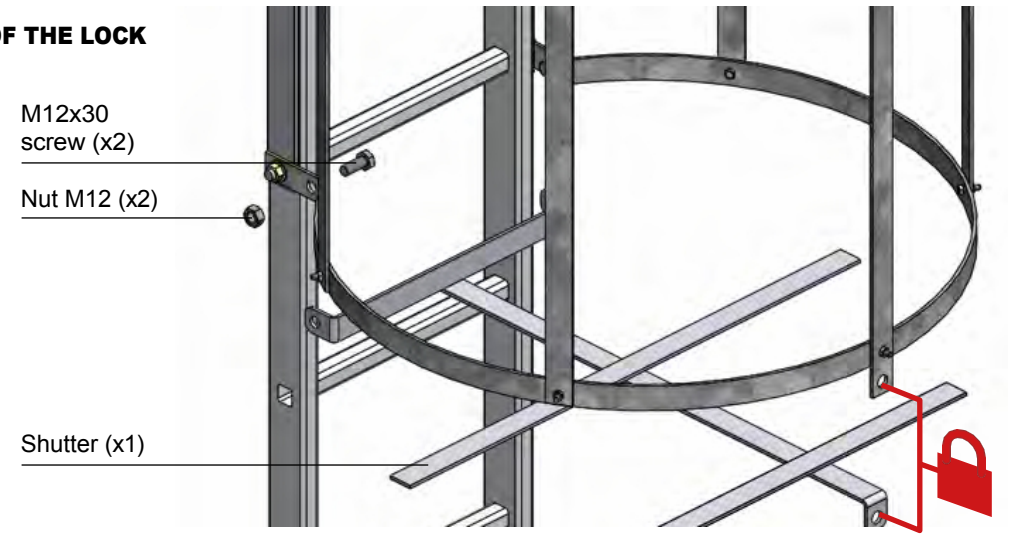
6.3.3 MOUNTING THE BRACKETS



6.3.4 MOUNTING THE VERTICAL FLAT BARS

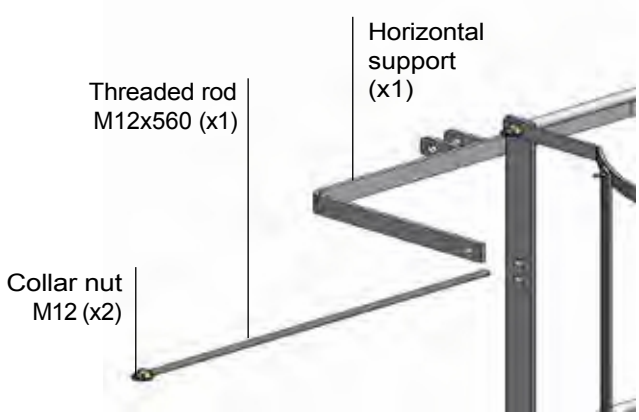


6.3.5 ASSEMBLY OF THE LOCK



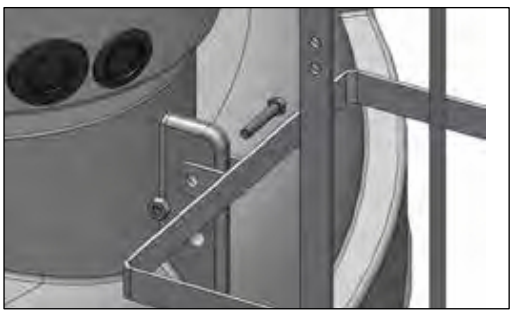
Provide a padlock to secure the back guard

6.3.6 MOUNTING THE HORIZONTAL SUPPORT



6.3.7 CONNECTION TO THE TANK

Once the ladder has been assembled on the ground, it must be lifted using suitable transportation equipment



Disclaimer