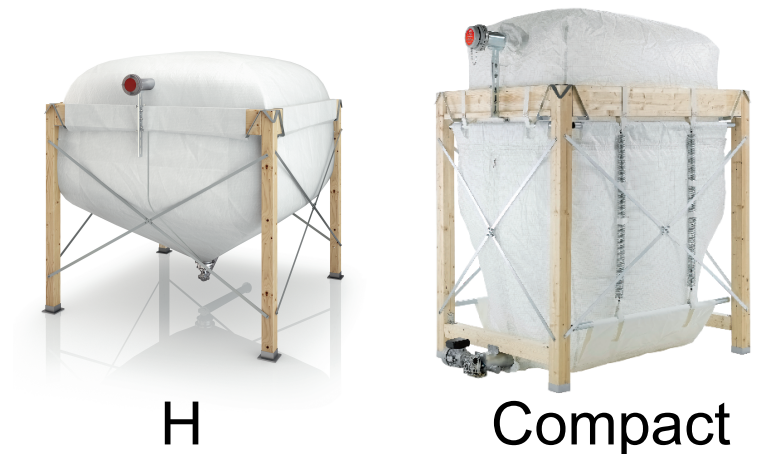


Installation manual

Storage tank

FleXILO H and COMPACT

ENGLISH





Title: Installation manual

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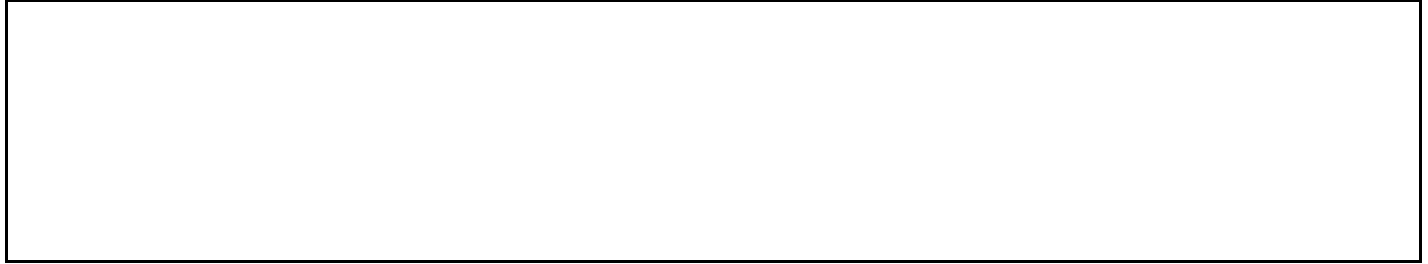
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1 Dear Customer

ÖkoFEN is Europe's leading specialist in pellet heating.

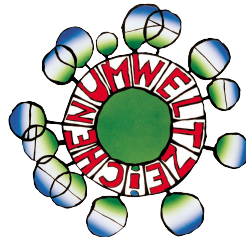
Proficiency, innovation and quality combined. This is the tradition on which ÖkoFEN shapes the future. We are very pleased that you too have decided to purchase a product from ÖkoFEN.

- This instruction manual is intended to help you operate the product safely, properly and economically.
- Please read this instruction manual right through and take note of the safety warnings.
- Keep all documentation supplied with this unit in a safe place for future reference.
Please pass on the documentation to the new user if you decide to part with the unit at a later date.
- Please contact your authorised dealer if you have any questions.



ÖkoFEN attaches great importance to the development of new products. Our R&D Department repeatedly challenges the effectiveness of tried-and-tested systems and works continuously on improvements. In this way, we secure our technological advantage. We have already received many national and international awards for our products.

All our products comply with European standards in respect of quality, efficiency and emissions.



1.1 Intended use

The FleXILO storage tank is designed for the storage of pellets for heating systems in detached and semi-detached houses or commercial buildings. Use of the FleXILO storage tank for other purposes is not permitted. No reasonably foreseeable forms of misuse of the FleXILO storage tank are known.

The following Austrian standards, guidelines and specifications have been applied:

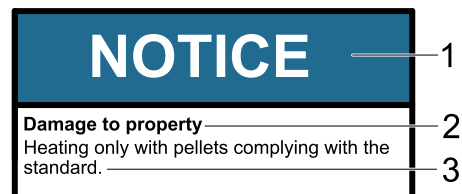
| Standards | Designation |
|------------|--------------------------------|
| EN 14961-2 | Pellets for non-industrial use |

2 Types of safety warning sign

The warning signs use the following symbols and text.

Types of safety warning sign

1. Risk of injury
2. Consequences of risk
3. Avoiding risk



1. Risk of injury:

Danger - indicates a situation that could lead to death or life-threatening injury.



Warning - indicates a situation that could lead life-threatening or serious injury.



Caution - indicates a situation that could lead to injury.



Note - indicates a situation that could lead to property damage.



2. Consequences of risk

Effects and consequences resulting from incorrect operation.

3. Avoiding risk

Observing safety instructions ensures that the heating system is operated safely

3 Preconditions for FleXILO storage tanks

The following conditions must be observed for the installation of a FleXILO storage tank.

3.1 The installation room

1. Room size
2. Room characteristics
3. Room ventilation
4. Fire protection

3.1.1 Room size

The necessary room size differs, depending on the type and size of the FleXILO storage tank. Add the following installation dimensions of the storage tank type and thus calculate the min. size of your installation room.

| | | |
|-----------------------|--|--|
| | FleXILO and FleXILO PLUS Installation dimensions | |
| Length / width | On the filling system side: FleXILO Plus + 30cm On the sides without filling system: FleXILO Plus + 7cm | |
| Height | FleXILO H Minimum room height = 215 cm Room height for the maximum filling volume = 240 cm | |
| | FleXILO COMPACT Installation dimensions | |
| Length / width | On the side of the dispensing and filling system: FleXILO Compact + 45 cm Filling system opposite the dispensing system: FleXILO Compact + 75 cm On the sides with the springs: FleXILO Compact + 7cm | |
| Height | FleXILO COMPACT Minimum room height = 185 cm Room height for the maximum filling volume = 240 cm Note: Check the actual room dimensions again (particularly after plastering work) before installing the tank. | |

These dimensions apply for internal filler couplings. For individual solutions with reduced space requirements, please contact your ÖkoFEN dealer.

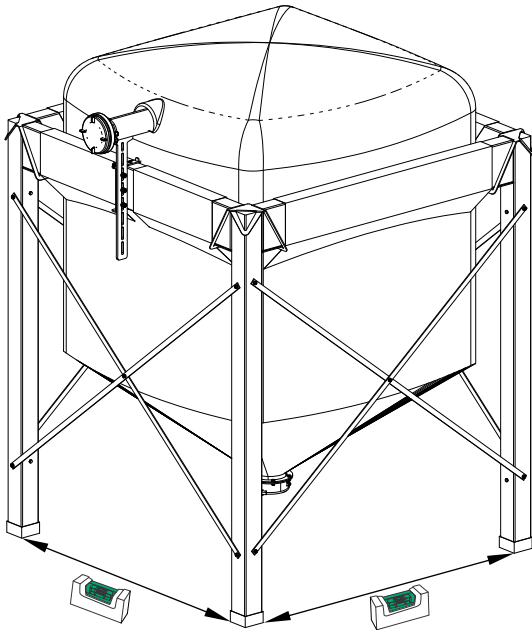
The size of the different storage tank types can be found in the following table.

| Storage tank type | Length | Width | Height | Filling volume with min. room height | Room height for max. filling volume |
|------------------------|--------|-------|------------|--------------------------------------|-------------------------------------|
| FleXILO | mm | mm | mm | mm – to | mm – to |
| S160 H | 1700 | 1700 | 1970 | 2150 – 2,0 to | 2400 – 2,5 to |
| S160 H 500 | 1700 | 1700 | 2450 | 2700 – 2,9 to | 2900 – 3,2 to |
| S160 H 1000 | 1700 | 1700 | 2950 | 3200 – 3,7 to | 3400 – 4,0 to |
| S160 H 1500 | 1700 | 1700 | 3450 | 3700 – 4,4 to | 3900 – 4,7 to |
| S190 H | 2040 | 2040 | 1970 | 2150 – 2,8 to | 2400 – 3,2 to |
| S190 H 500 | 2040 | 2040 | 2450 | 2700 – 3,9 to | 2900 – 4,2 to |
| S190 H 1000 | 2040 | 2040 | 2950 | 3200 – 5,0 to | 3400 – 5,3 to |
| S190 H 1500 | 2040 | 2040 | 3450 | 3700 – 6,1 to | 3900 – 6,4 to |
| S220 H | 2300 | 2300 | 1970 | 2150 – 3,1 to | 2400 – 3,6 to |
| S220 H 500 | 2300 | 2300 | 2450 | 2700 – 4,7 to | 2900 – 5,0 to |
| S220 H 1000 | 2300 | 2300 | 2950 | 3200 – 6,3 to | 3400 – 6,6 to |
| S220 H 1500 | 2300 | 2300 | 3450 | 3700 – 7,7 to | 3900 – 8,0 to |
| S260 H | 2580 | 2580 | 1970 | 2150 – 4,0 to | 2400 – 4,6 to |
| S280 H 500 | 2900 | 2900 | 2450 | 2700 – 7,5 to | 2900 – 7,8 to |
| S280 H 1000 | 2900 | 2900 | 2950 | 3200 – 9,0 to | 3400 – 9,3 to |
| S280 H 1500 | 2900 | 2900 | 3450 | 3700 – 11,7 to | 3900 – 12,0 to |
| S2216H | 2300 | 1700 | 1970 | 2150 – 2,7 to | 2400 – 3,1 to |
| S2219 H | 2300 | 2040 | 1970 | 2150 – 3,0 to | 2400 – 3,4 to |
| S2219 H 500 | 2300 | 2040 | 2450 | 2700 – 4,3 to | 2900 – 4,6 to |
| S2219 H 1000 | 2300 | 2040 | 2950 | 3200 – 5,5 to | 3400 – 5,8 to |
| S2219 H 1500 | 2300 | 2040 | 3450 | 3700 – 6,7 to | 3900 – 7,0 to |
| S2619 H | 2580 | 2040 | 1970 | 2150 – 3,0 to | 2400 – 3,6 to |
| S2819 H 500 | 2900 | 2040 | 2450 | 2700 – 5,2 to | 2900 – 5,5 to |
| S2819 H 1000 | 2900 | 2040 | 2950 | 3200 – 6,8 to | 3400 – 7,1 to |
| S2819 H 1500 | 2900 | 2040 | 3450 | 3700 – 8,4 to | 3900 – 8,7 to |
| S2622 H | 2580 | 2300 | 1970 | 2150 – 3,6 to | 2400 – 4,2 to |
| S2822 H 500 | 2900 | 2300 | 2450 | 2700 – 6,3 to | 2900 – 6,6 to |
| S2822 H 1000 | 2900 | 2300 | 2950 | 3200 – 8,1 to | 3400 – 8,4 to |
| S2822 H 1500 | 2900 | 2300 | 3450 | 3700 – 9,9 to | 3900 – 10,2 to |
| FleXILO COMPACT | mm | mm | mm | mm – to | mm – to |
| KGT1814 | 1840 | 1440 | 1850 -1970 | 1850 – 1,3 to | 2400 – 3,3 to |
| KGT2614 | 2580 | 1440 | 1850 -1970 | 1850 – 2 to | 2400 – 4,7 to |
| KGT2618 | 2580 | 1840 | 1850 -1970 | 1850 – 2,4 to | 2400 – 6,2 to |
| KGT2620 | 2580 | 2040 | 1850 -1970 | 1850 – 3,3 to | 2400 – 7,0 to |
| KGT2626 | 2580 | 2580 | 1850 -1970 | 1850 – 4 to | 2400 – 8,5 to |

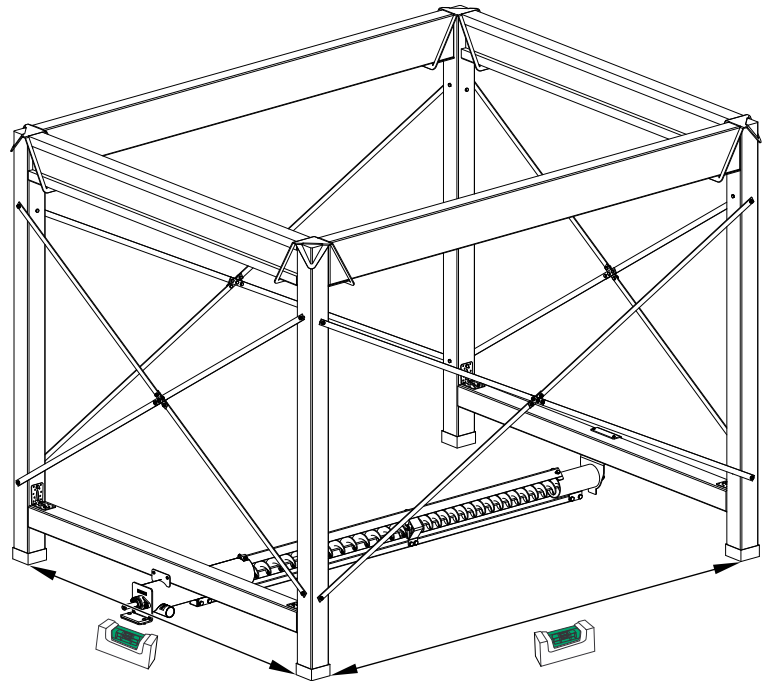
3.1.2 Room characteristics

- The installation room must have a level floor. Minor differences in height can be compensated with underlay material (e.g. wooden or metal plates).
- The floor carrying capacity must correspond to a point load of 2000 kg.
- Damp cellar walls do not represent an obstacle to the installation of the storage tank. The fabric of the tank must not, however, touch the walls – observe the minimum clearances.
- The installation room must protect the storage tank from direct sunlight.
- The installation room must not have any sharp or pointed objects or installations that could damage the fabric of the storage tank.

FleXILO

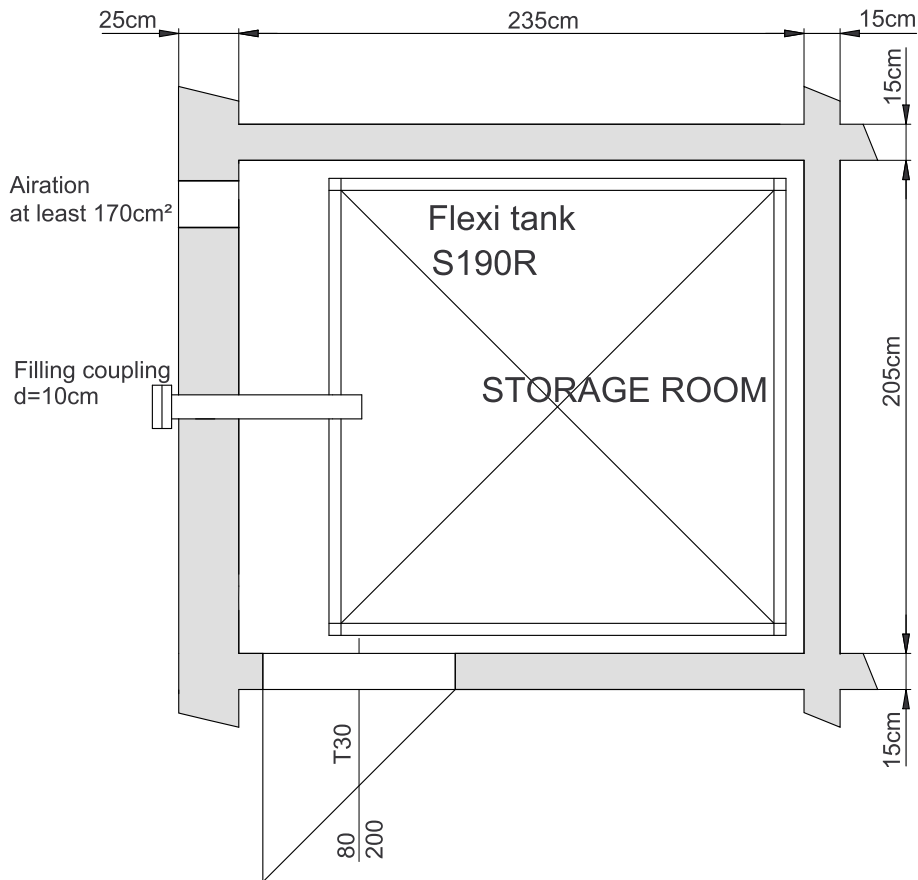


FleXILO COMPACT



3.1.3 Room ventilation

The room in which a storage tank is installed (= installation room) must always have a ventilation opening to the outside of at least 170 cm². The air blown in during filling must be able to escape freely to the atmosphere so that no pressure is built up in the installation room.

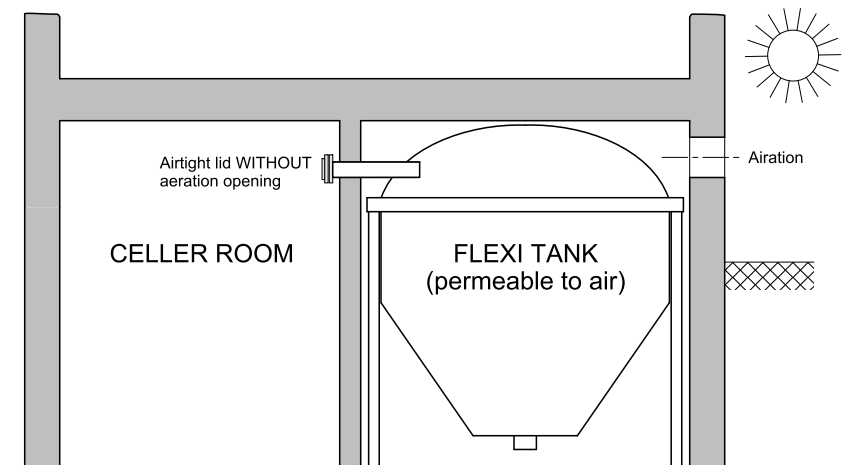


FITTING OF THE FILLER COUPLING - EXAMPLES:

Filler coupling in the next room:

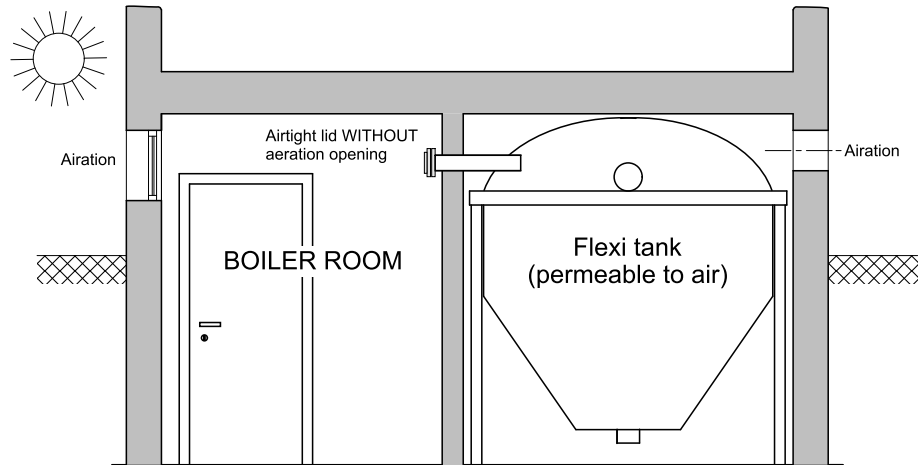
Only closed filler couplings WITHOUT ventilation opening may be used.

The next room must have a separate ventilation opening to the outside.



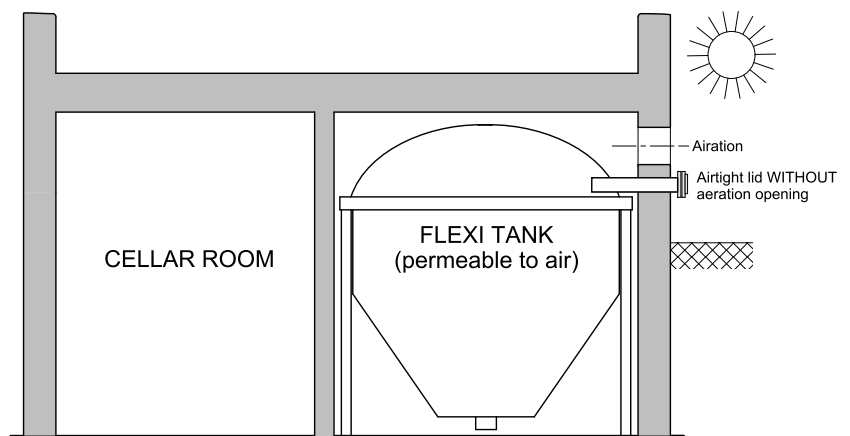
Filler coupling in the heating room:

The fitting of caps with ventilation function is forbidden.
CAUTION: For fire protection reasons, approved fire plugs with aluminium blind cover must be used. In such cases, plastic caps are not admissible.
 A separate ventilation opening to the outside is necessary.



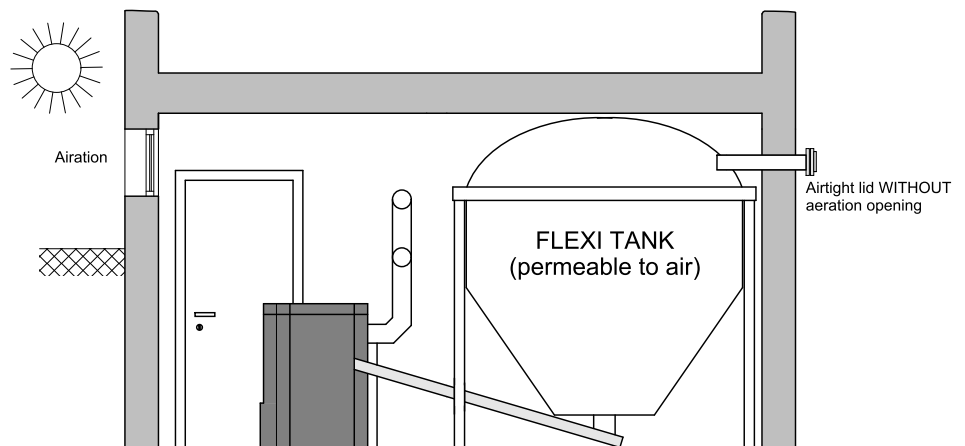
Filler coupling outdoors - storage tank in the tank room:

The tank room must have a separate ventilation opening to the outside of at least 170 cm².
 Even if the filler coupling is located outdoors, there must be an additional ventilation opening to the outside of at least 170 cm² so that no pressure is built up in the tank room.



Filler coupling outdoors - storage tank in the heating room:

If the storage tank is installed together with the boiler in the heating room, ventilation is already assured by the ventilation opening of the heating room required by law.



Attachment of an instruction sign to the door of the installation room:

All instructions on the instruction sign must be followed at all times. The supplied instruction sign must be attached to the access door to the installation room. They are also supplied free of charge by DEPV/Pro Pellets Austria. Germany: www.depv.de — Austria: www.propellets.at



www.oekofen.com

**Inspection:**

During commissioning, check whether the installation room has the requisite ventilation openings. The attachment of the warning sign must also be checked during commissioning.

3.1.4 Fire protection

The fire protection requirements for the installation room of a FleXILO storage tank are country-specific. The latest applicable regulations in the respective country must always be observed. The construction work must conform to the respective fire protection guidelines before the start of commissioning.

3.2 Outdoor installation - FleXILO storage tank

Storage tanks can also be installed outdoors. In this case the storage tank has to be protected from rain and direct sunlight. A roof and a housing therefore have to be built. Furthermore, concrete foundations to spread the load are necessary with outdoor installation.

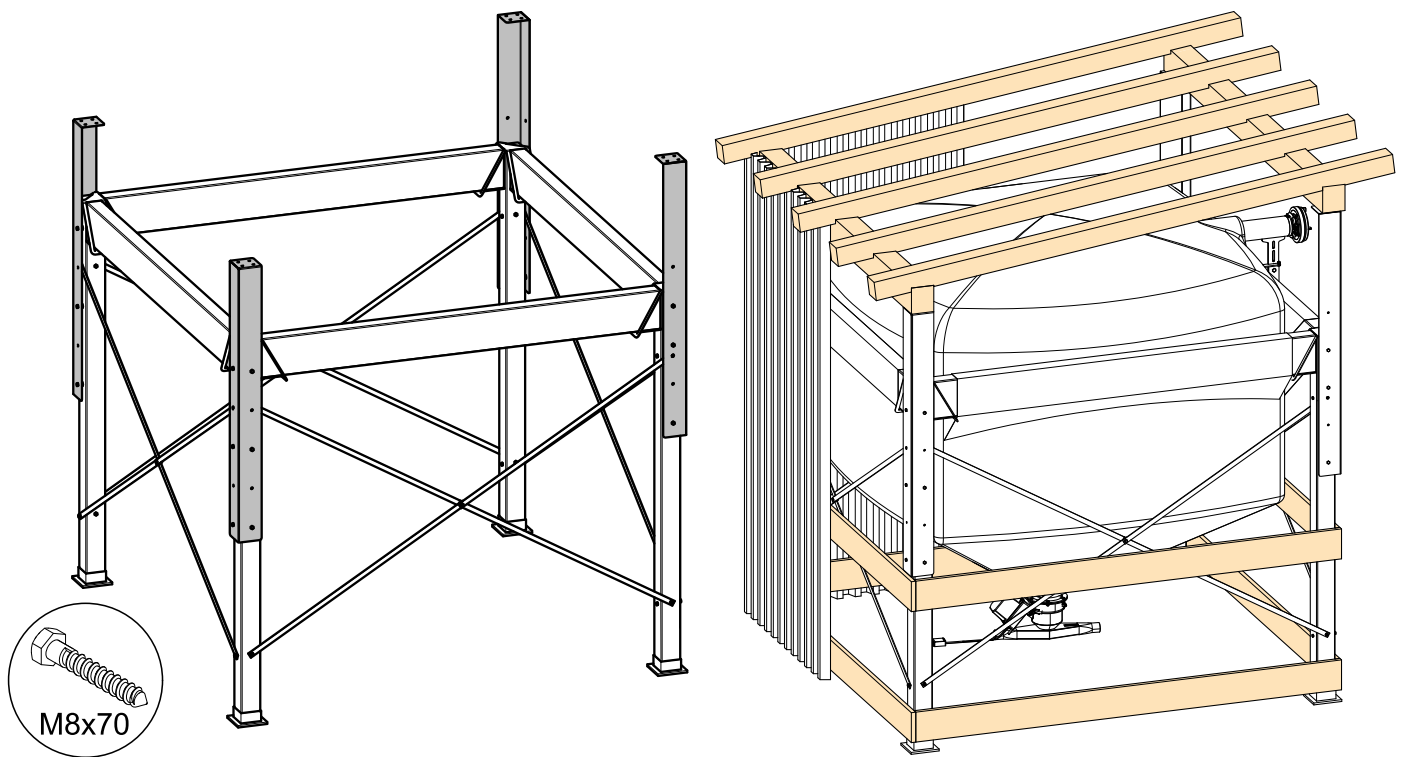
Foundation


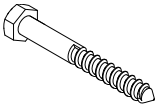
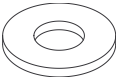

An individual 50 cm x 50 cm frostproof foundation per upright is required to spread the load. The uprights must be anchored to the concrete foundation to withstand wind loads.

Roof beam construction and housing

ÖkoFEN offers an upright extension for attachment of the roof construction. It serves as the base for a lean-to roof.

The supporting system of the storage tank serves at the same time as substructure for the housing. All other construction timbers and boardings must be provided on site.



| No. | Part | Quantity | Illustration | Article No. |
|-----|---------------------|----------|---|-------------|
| 1 | Upright extension | 4 |  | S 140V2 |
| 2 | Frame bolt M8x70 | 24 |  | 121067 |
| 3 | Washers M8 | 24 |  | 121038 |
| 4 | Spacer Screw 20mm | 24 |  | 160221 |

3.3 Storage material - pellets

The FleXILO storage tank is suitable exclusively for the storage of wood pellets. Wood pellets are small rolls made from natural wood (dry wood shavings or sawdust) compacted under high pressure with extremely little moisture and very high calorific value. The production of wood pellets is governed by European standard EN 14961-2.

3.3.1 Specification for high quality pellets as per EN 14961-2, class A1

| | |
|-------------------|-------------------------------------|
| Calorific value | 4,6 – 5,3 kWh/kg 16,5 – 19 MJ/kg |
| Loose density | min. 600 kg/m ³ |
| Water content | max. 10% |
| Ash content | max. 0.7% |
| Ash melting point | at least 1200°C |
| Length | max. 40 mm |
| Diameter | 6 mm |
| Fine material | max. 1% |
| Contents | 100% natural wood |

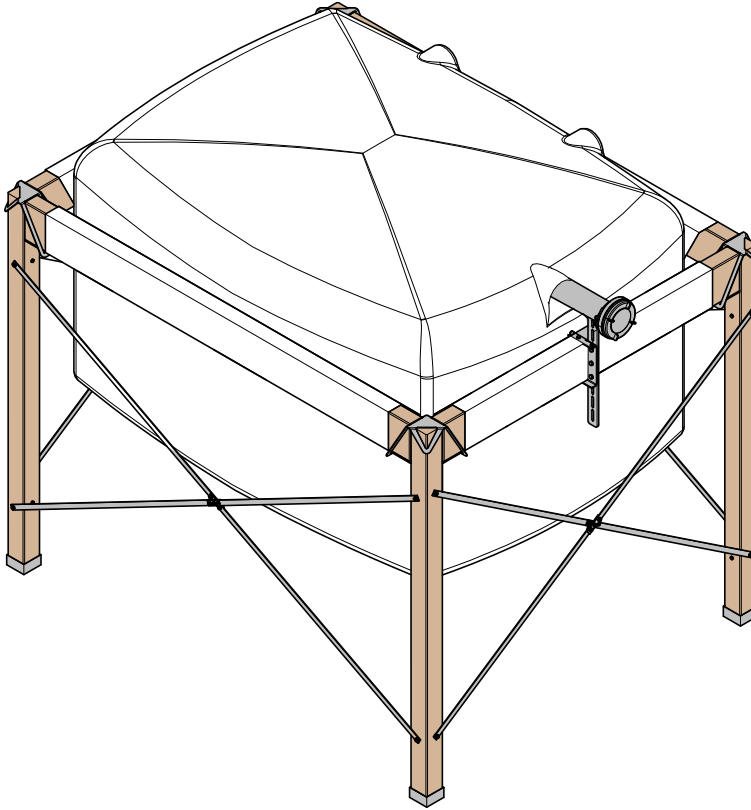
NOTICE

The heating system is suitable only for pellets of natural wood that comply with standard EN 14961-2 class A1 with a diameter of max. 6 mm. Using non-pelletised fuels or pellets that are not manufactured from natural wood will lead to the warranty becoming void and will cause damage to the pellet boiler and the chimney.

Use only quality pellets from Austrian standard approved, DINplus **or** ENplus approved manufacturers. For more information on fuels, please visit our website at: www.oekofen.com

4 Assembly of FleXILO H storage tank

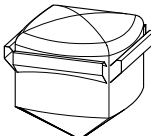
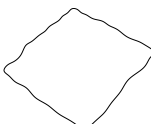
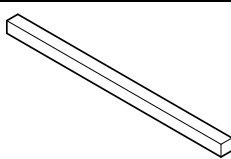
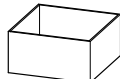
The FleXILO H storage tank is the simplest and least expensive form of storage tank. The tank is made from high-quality polyester fabric, is dust-tight but permeable to air, is permanently anti-static and easy to install. FleXILO H is available in a wide variety of special sizes. ÖkoFEN storage tanks are only available in conjunction with a boiler installation.

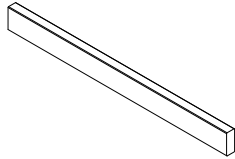
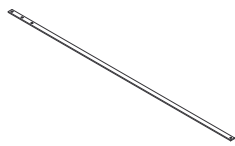
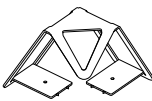
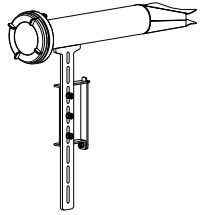
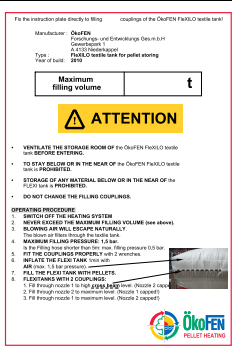
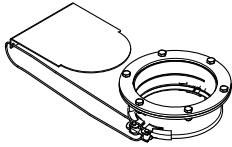
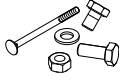
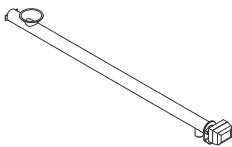
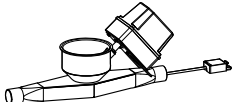


4.1 Parts list - FleXILO H storage tank

Note:

Before starting assembly, check that the delivery is complete against the parts list.

| No. | Part | Quantity | Illustration | Article No. |
|-----|-----------------|----------|---|---------------------|
| 1 | Storage tank | 1 |  | SP160H — SP 280H |
| 2 | Assembly film | 1 |  | S110 |
| 3 | Upright | 4 |  | S100H |
| 4 | Damp room shoes | 4 |  | S132 |

| No. | Part | Quantity | Illustration | Article No. |
|--|--|--|--|--|
| 5 | Transverse member | 4 |  | GT160HV2 KT200 GT220HV2 KT260 GT280HV2 |
| 6 | Struts | 16 (8 for S160) |  | SR160HV2 KSR200V2 SR220HV2 KSR260V2 SR280HV2 |
| 7 | Transverse member bracket | 4 |  | K121 |
| 8 | Filling unit with hose clamp 90-110mm | 1 - 2 depending on size and arrangement |  | S106HK |
| 9 | Filling instructions | 1 |  | PE489 |
| 10 | Dispensing unit | 1 |  | S104 |
| 11 | Bolt set | 1 |  | S103HV2 |
| Tank with auger delivery system | | | | |
| 12 | Delivery auger | 1 |  | ST 178 ST 220 ST 260 ST 300G ST 330G |
| Tank with vacuum suction system | | | | |
| 13 | Suction switch | 1 |  | SWS-M |

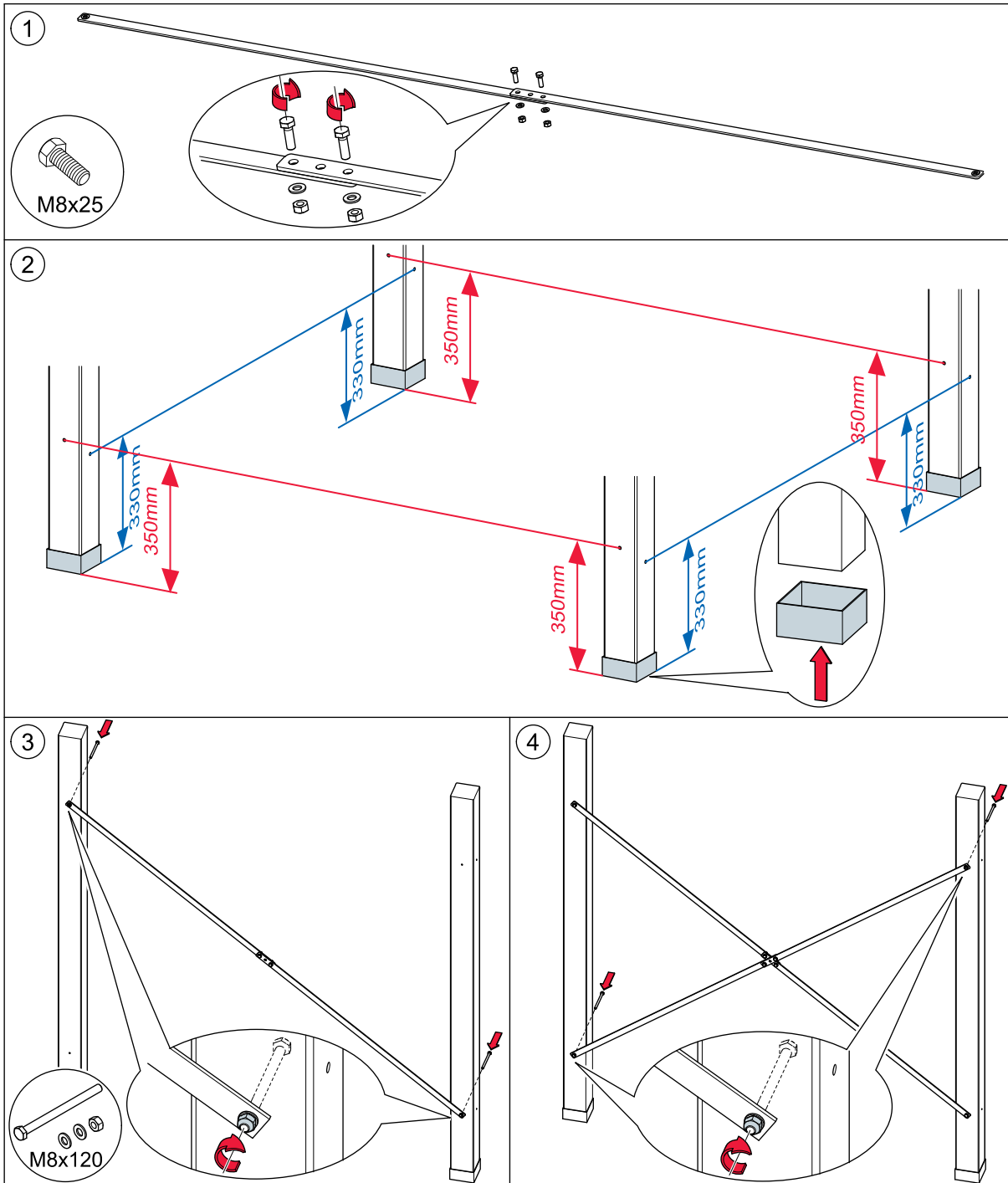
4.2 Assembly - FleXILO H

Assembly of the storage tank frame

NOTICE

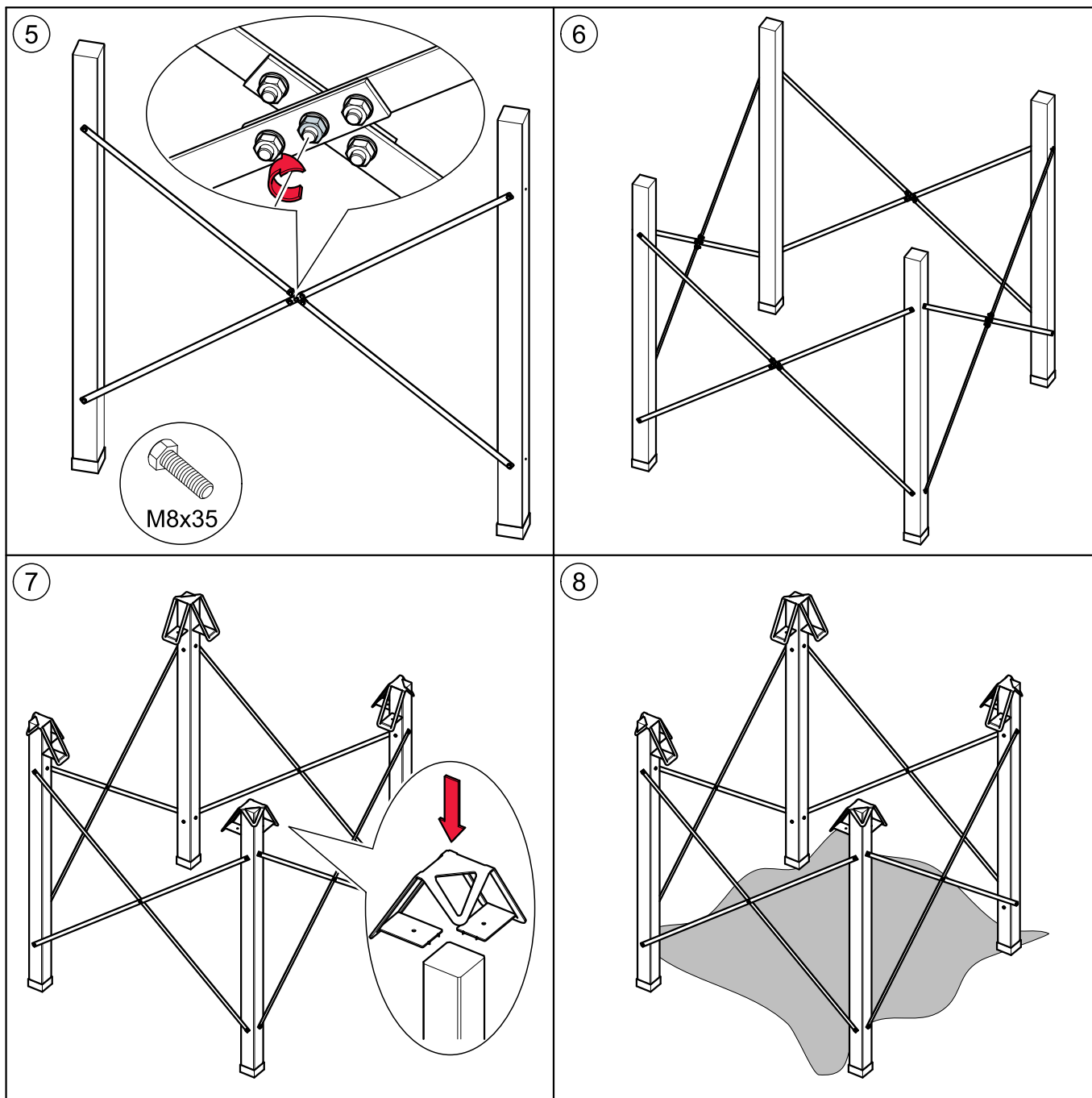
Damage to the fabric

Valid for all bolted connections The bolt head must be on the inside, the nut with washer on the outside of the storage tank frame.



Note:

Use the self-locking nuts for the through bolts.



Note:

The transverse member bracket must be fastened to the outside of the uprights. Spread out the assembly film before you place the storage tank on the floor. It protects the fabric from soiling and damage.



DANGER

Crushing

Faults or incomplete installation of the struts can cause the storage tank to collapse.

Preparation of the storage tank

The sack (= fabric) of the storage tank is packed in a cardboard box. The box also includes an assembly film.

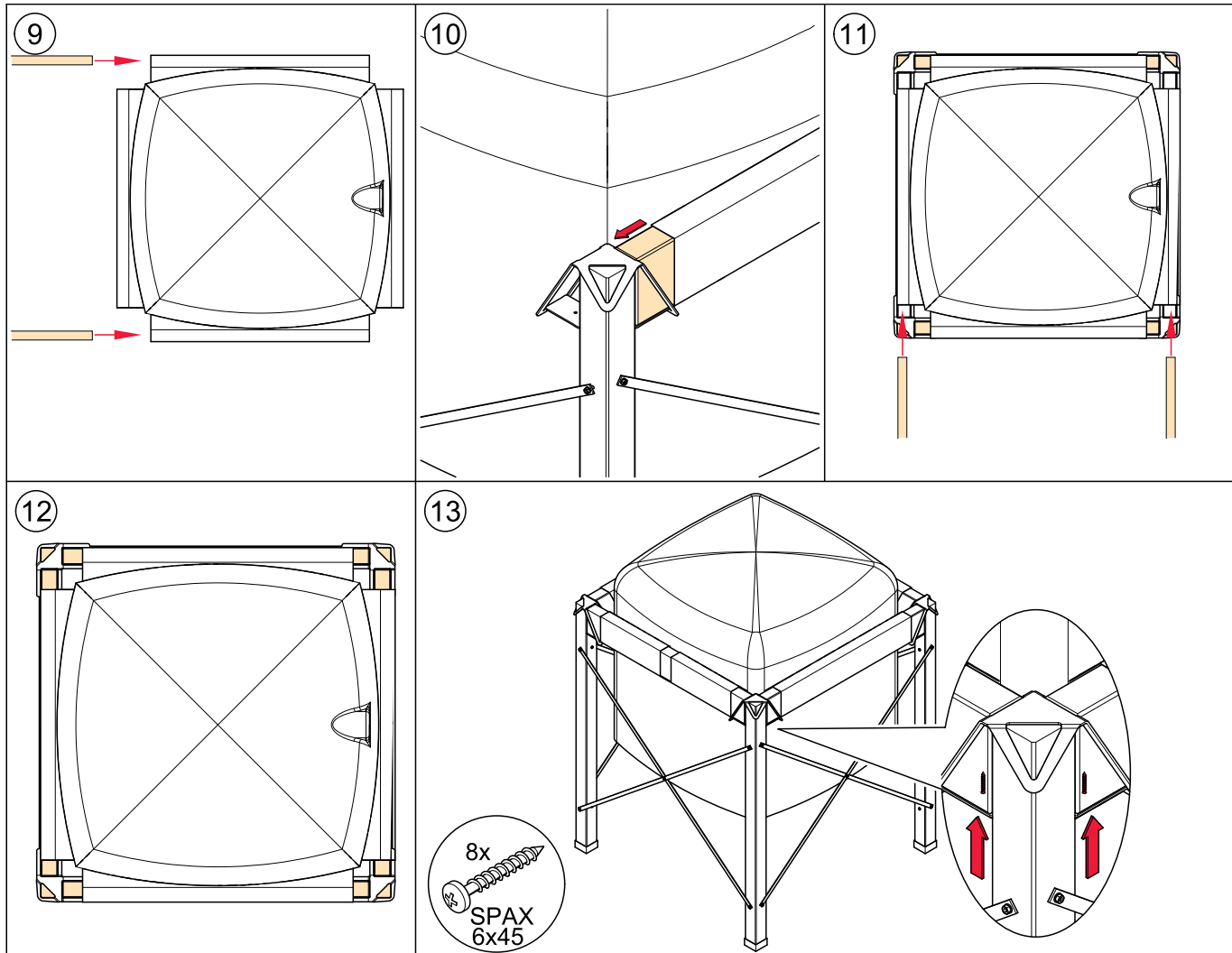
NOTICE

Damage to the fabric

Do not use a knife or other pointed objects to open the packaging.

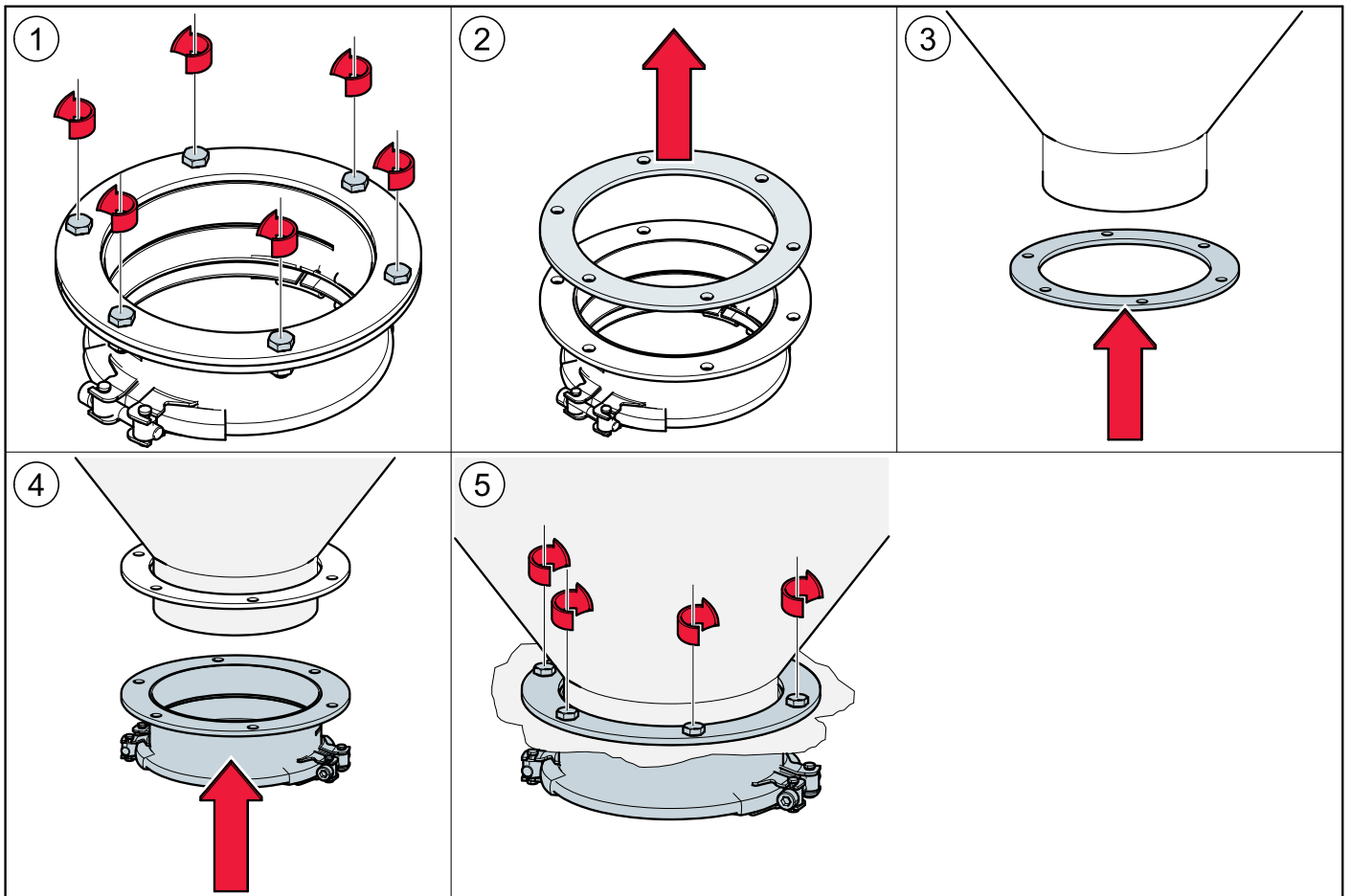
1. Spread out the assembly film in the middle of the installation room.
The assembly film helps to keep the fabric clean. Do not walk on the assembly film with shoes.
2. Position the storage tank in the middle of the tank frame. Unpack the tank and spread it out.
3. Turn the storage tank until the lifting straps are at the top and the delivery opening (= large central opening) is on the underside.
4. Turn the storage tank until the filler openings are pointing towards where the filling system is to be installed.

Threading in the transverse members and hooking in the storage tank.



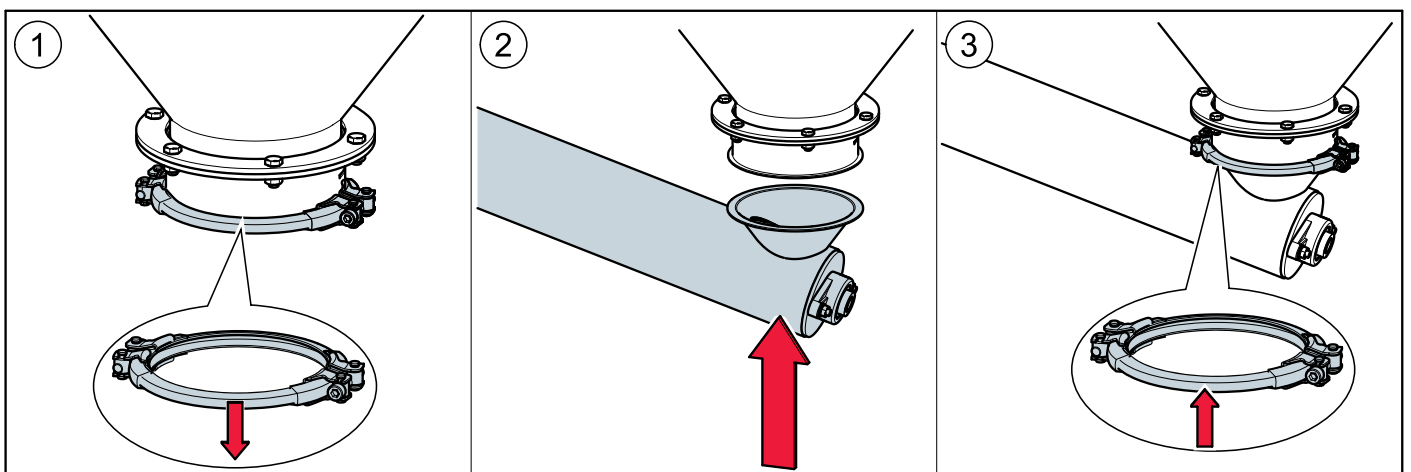
4.3 Installation of the dispensing unit

The dispensing unit on the FleXILO H storage tank consists of the connector with retaining ring and an emergency slide valve. Install the dispensing unit on the delivery funnel of the storage tank.



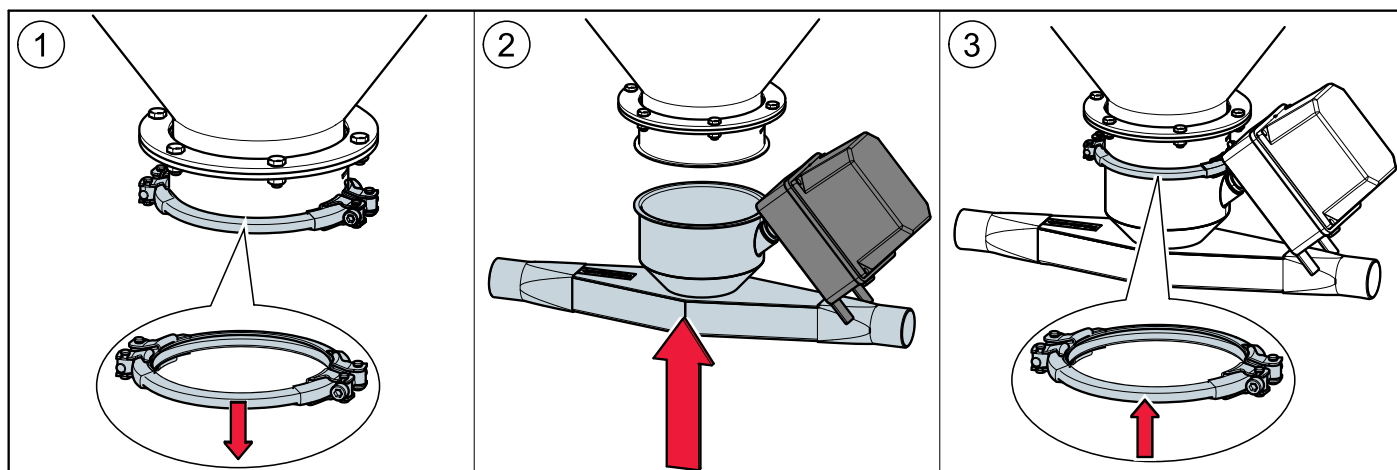
4.3.1 Connection to the auger delivery system

The auger delivery system is connected to the dispensing unit by means of a pipe clamp.



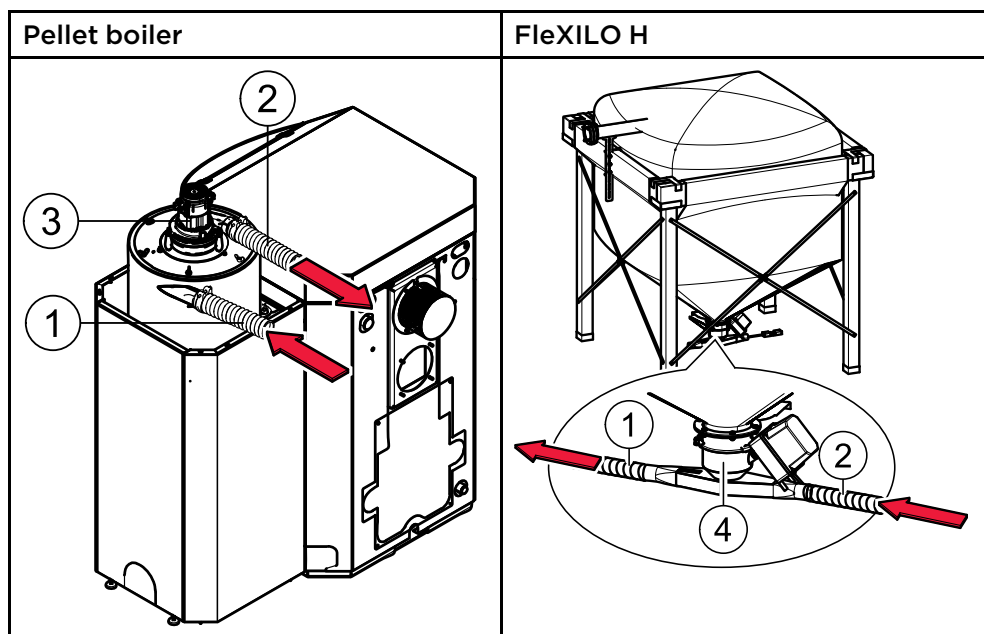
4.3.2 Connection to the vacuum suction system

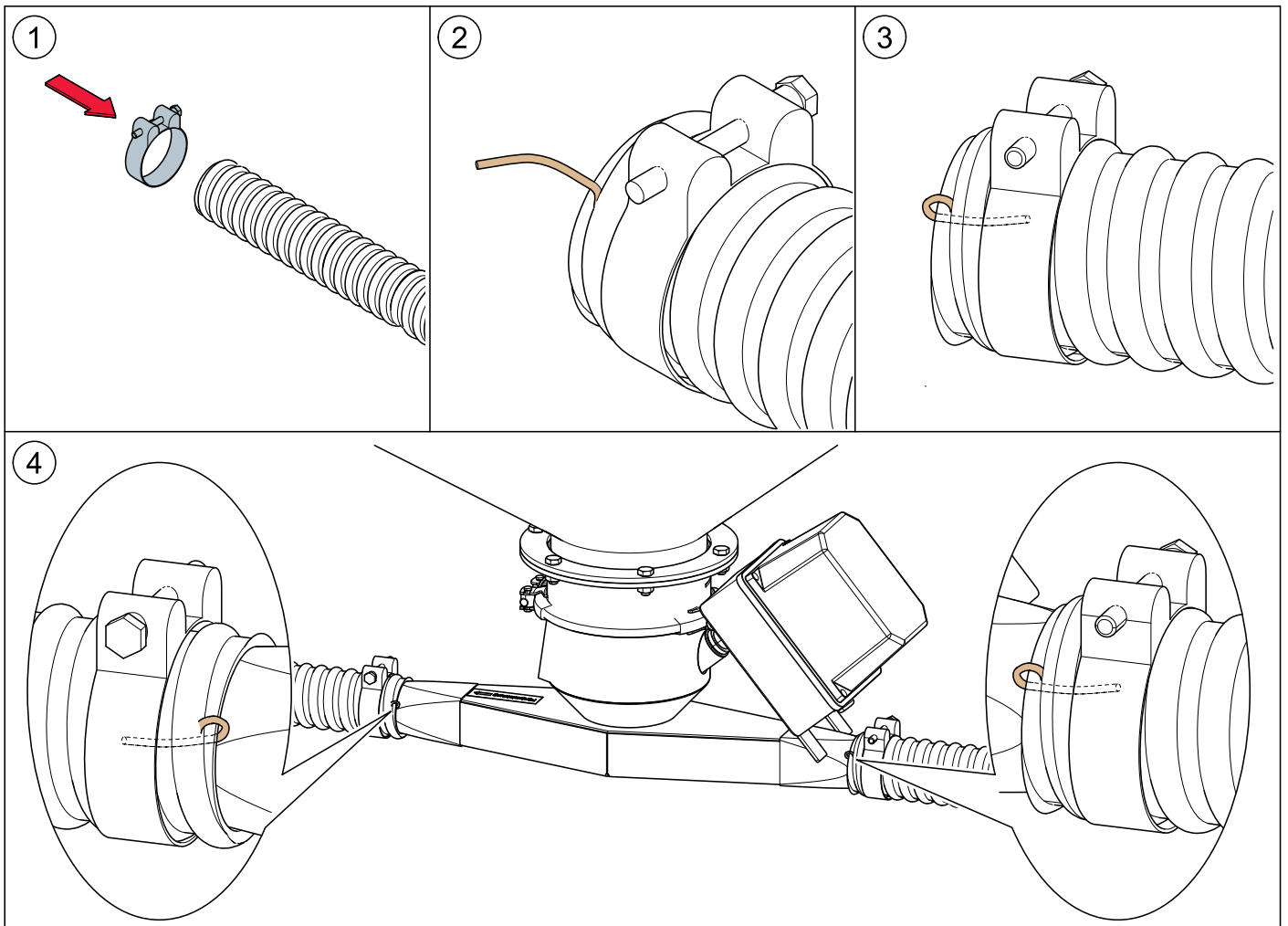
Connection of the suction switch to the dispensing unit using a pipe clamp.

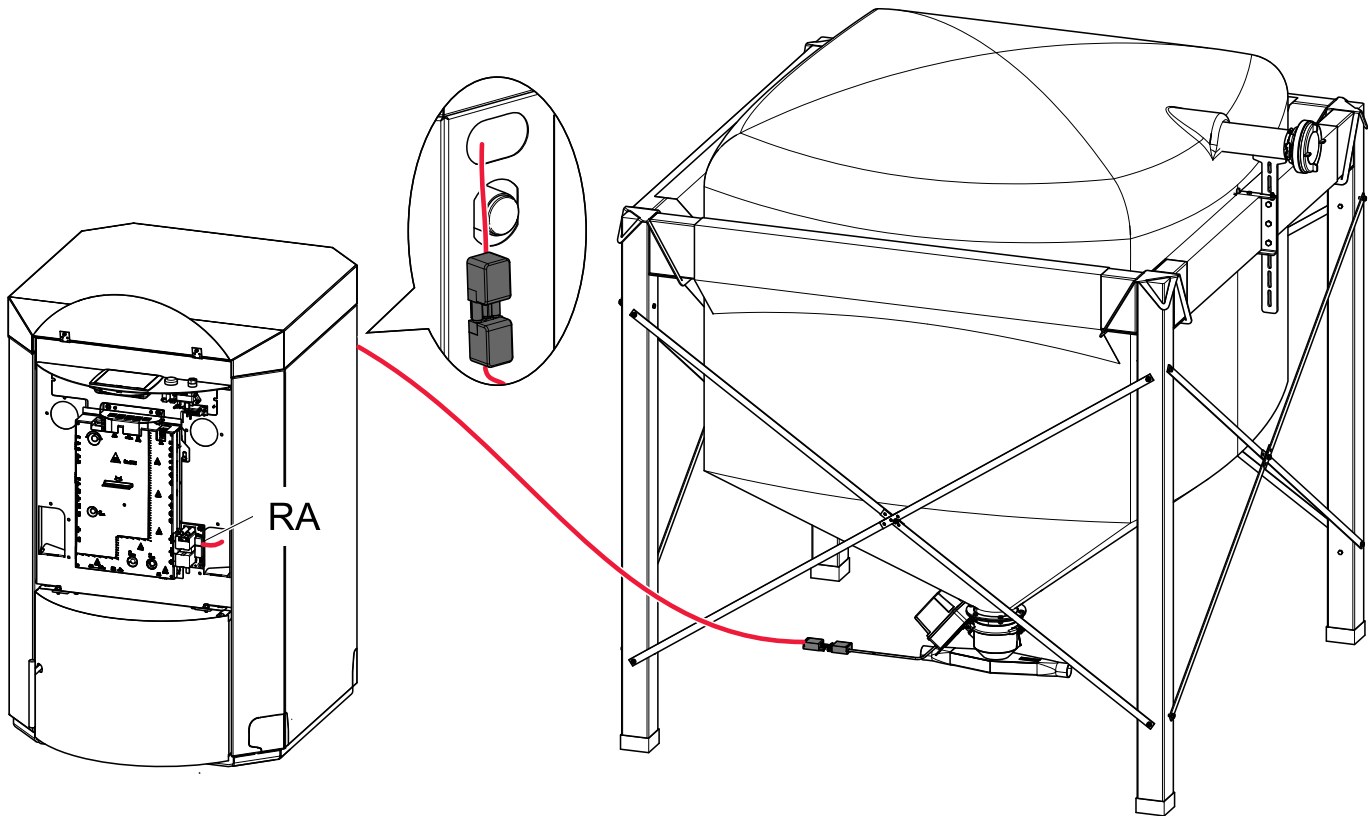
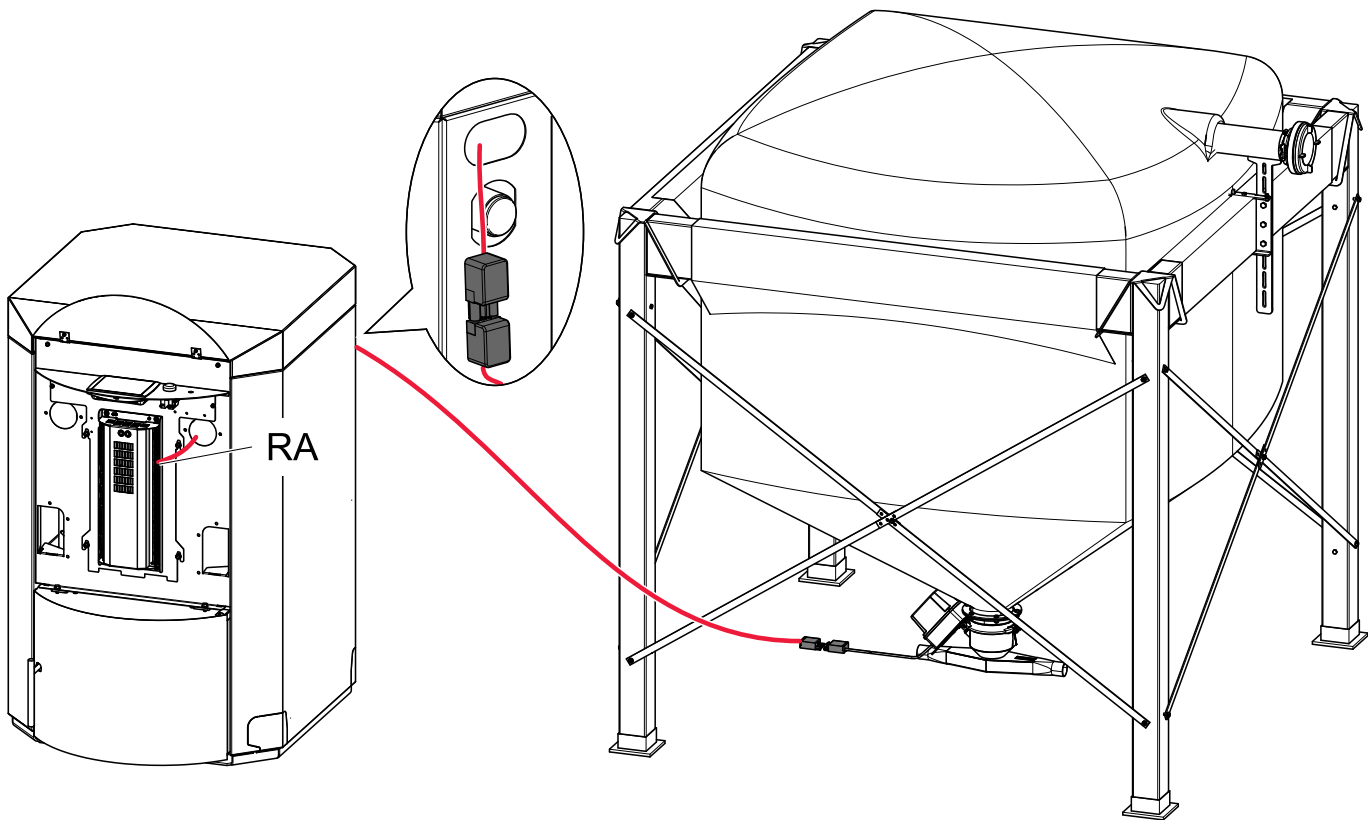


Connection and earthing of the pellet and air line to the suction switch.

| | | |
|---|--------------|---|
| 1 | Pellet line | Line from the storage room auger or fabric tank to the hopper. |
| 2 | Air line | Line from the suction fan to the storage room auger or fabric tank. |
| 3 | Suction fan | Located above the hopper behind the Pellematic burner housing. |
| 4 | Suction flap | Located underneath the fabric tank. |



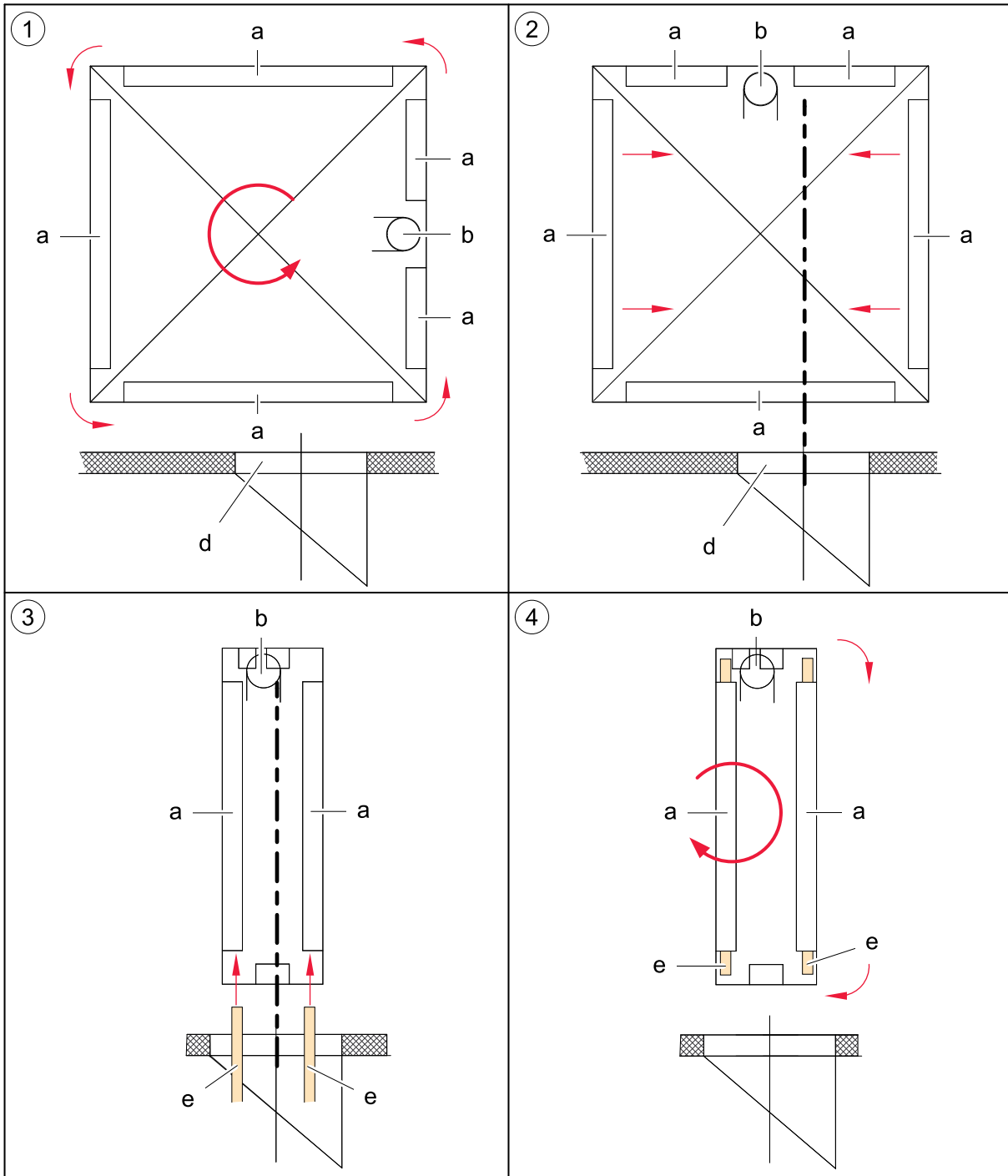


Connection of the room delivery motor to the CMP boiler controller at slot RA**Connection of the room delivery motor to the boiler controller at slot RA**

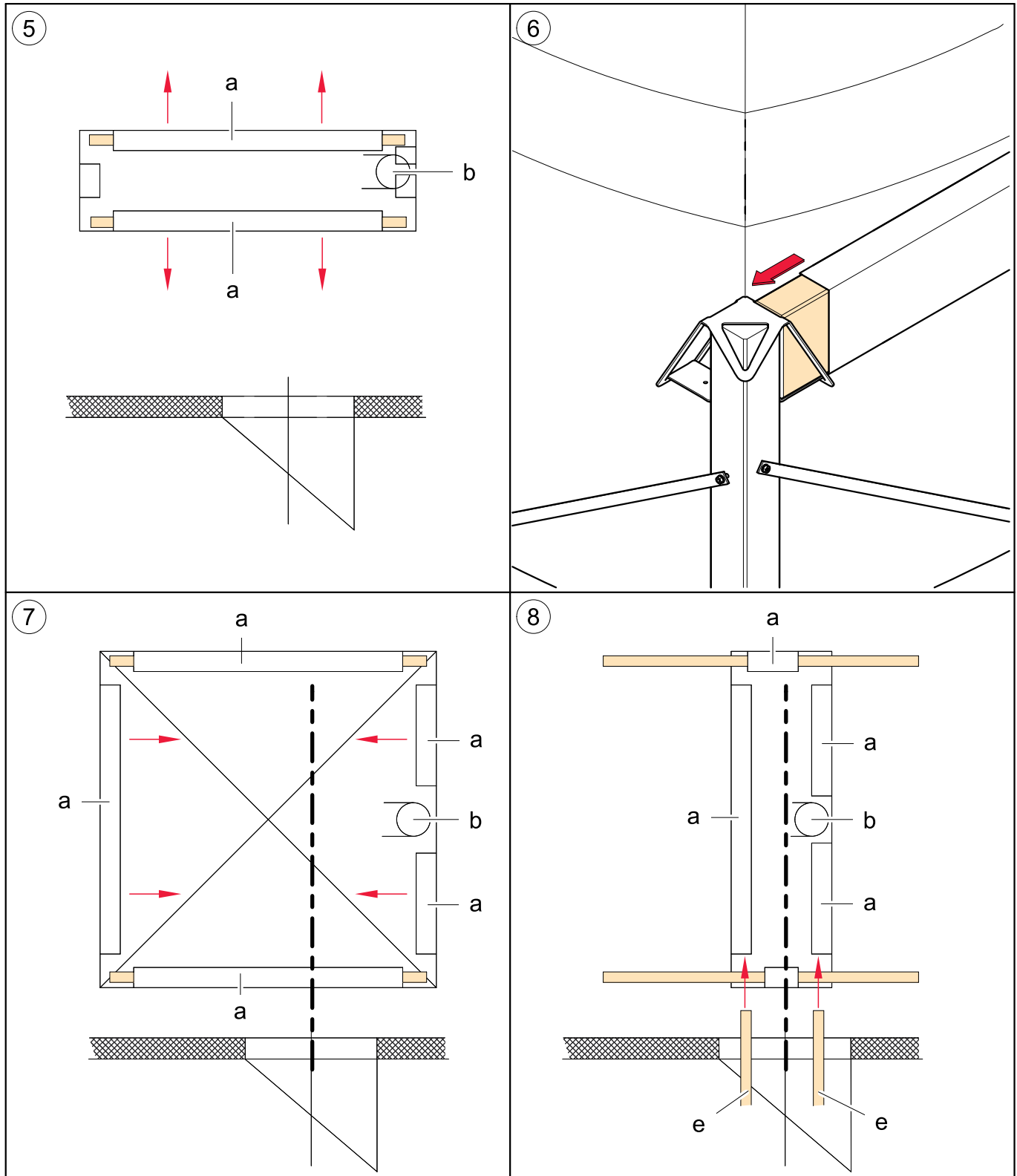
5 Assembly in small rooms

The storage tank frame (uprights with damp room shoes and rubber underlays, struts and transverse member brackets) is assembled in the installation room. After assembly, move the frame into the correct position in the installation room. Pay attention to the correct position of the filler opening.

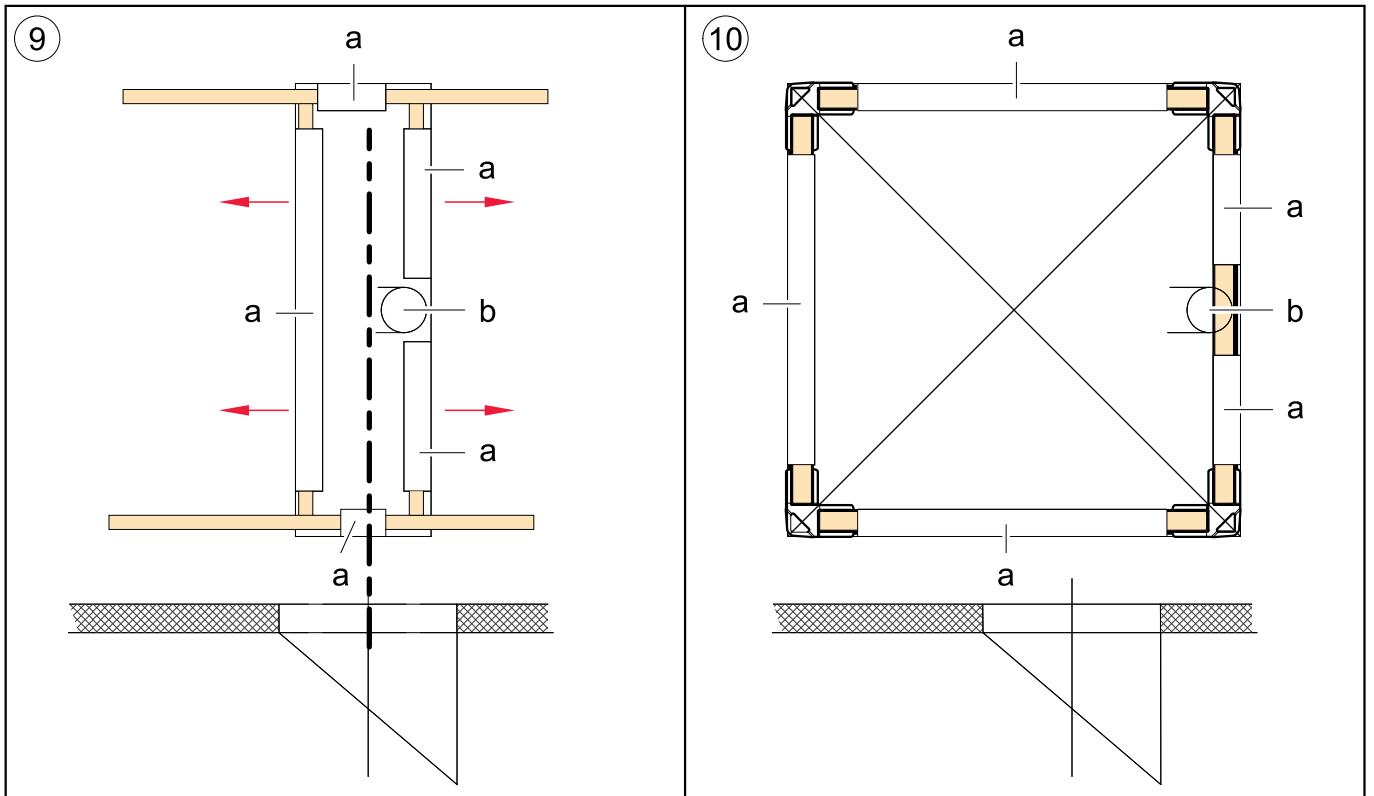
1. Turn the storage tank from the initial position 90° to the left.
2. Pull the storage tank together to the minimum width of the door opening.
3. Push the transverse members into the carrying loops.
4. Turn the storage tank with the transverse members back into the initial position.



5. Pull the storage tank with the transverse members apart.
6. Hook the two transverse members into the transverse member bracket.
7. Pull the storage tank together along the transverse members to the width of the door opening.
8. Push the transverse members into the opposite carrying loops.



9. Pull the storage tank with the transverse members apart.
10. Hook the two transverse members into the transverse member bracket.

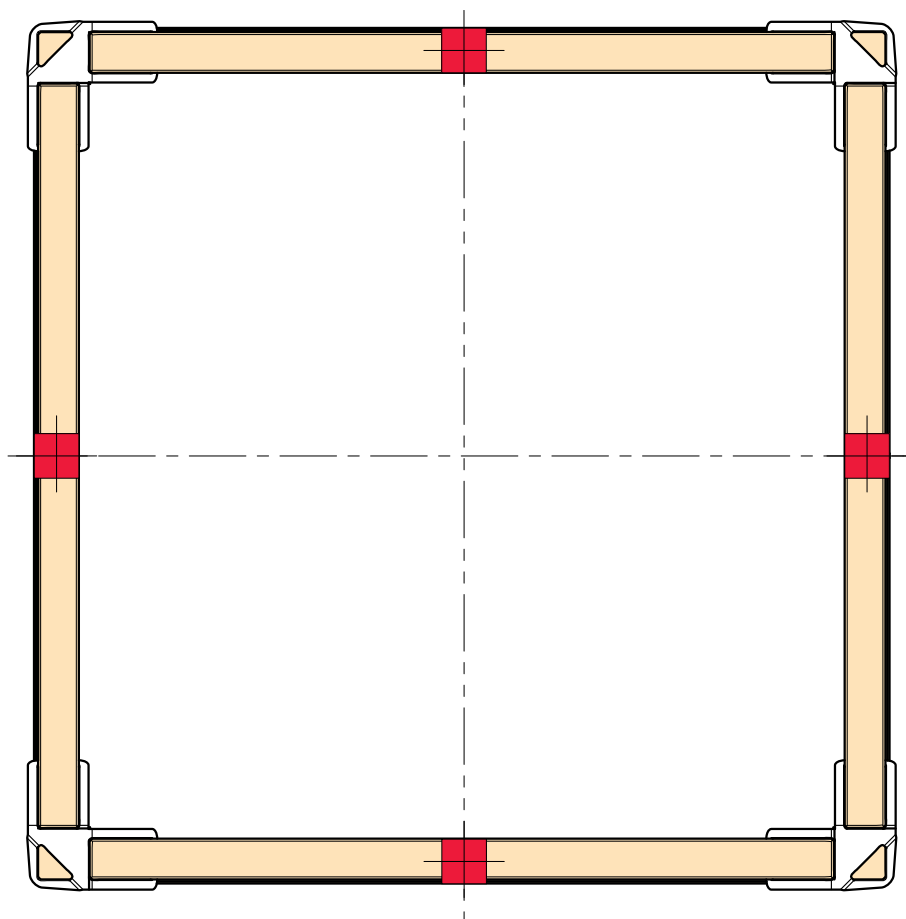


6 Position and installation of intermediate uprights with special sizes

Storage tanks with special heights have 2 or 4 intermediate uprights as supports for the transverse members. After assembly of the storage tank frame and hooking in the storage tank, these additional uprights are positioned under the transverse members and fixed with brackets.

| Storage tank type | Length | Width | Height | Number of additional uprights | Room height for max. filling volume |
|-------------------|--------|-------|--------|-------------------------------|-------------------------------------|
| FleXILO | mm | mm | mm | | mm – to |
| S220 H 1500 | 2300 | 2300 | 3450 | 4 | 3900 – 8,0 to |
| S280 H 500 | 2900 | 2900 | 2450 | 4 | 2900 – 7,8 to |
| S280 H 1000 | 2900 | 2900 | 2950 | 4 | 3400 – 9,3 to |
| S280 H 1500 | 2900 | 2900 | 3450 | 4 | 3900 – 12,0 to |
| S2219 H 1500 | 2300 | 2040 | 3450 | 2 (longitudinal side) | 3900 – 7,0 to |
| S2819 H 1000 | 2900 | 2040 | 2950 | 2 (longitudinal side) | 3400 – 7,1 to |
| S2819 H 1500 | 2900 | 2040 | 3450 | 4 | 3900 – 8,7 to |
| S2822 H 500 | 2900 | 2300 | 2450 | 2 (longitudinal side) | 2900 – 6,6 to |
| S2822 H 1000 | 2900 | 2300 | 2950 | 4 | 3400 – 8,4 to |
| S2822 H 1500 | 2900 | 2300 | 3450 | 4 | 3900 – 10,2 to |

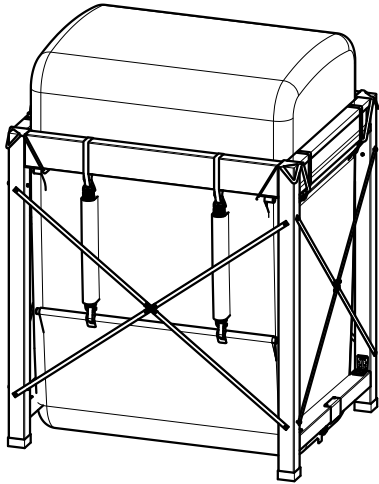
 Position of the intermediate uprights



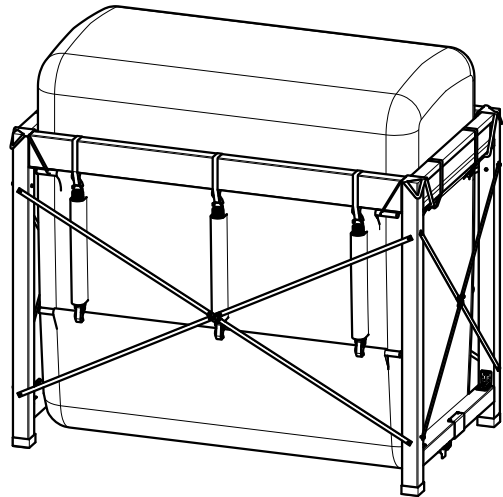
7 Assembly of FleXILO Compact storage tank

The FleXILO Compact storage tank with tension springs allows maximum use to be made of the space available. The tank is made from high-quality polyester fabric, is dust-tight but permeable to air, is permanently anti-static and easy to install. The fabric lies on the bottom of the tank. An auger delivery system serves as dispensing unit. The lateral suspension from springs allows the tank to be emptied completely. ÖkoFEN storage tanks are only available in conjunction with a boiler installation.

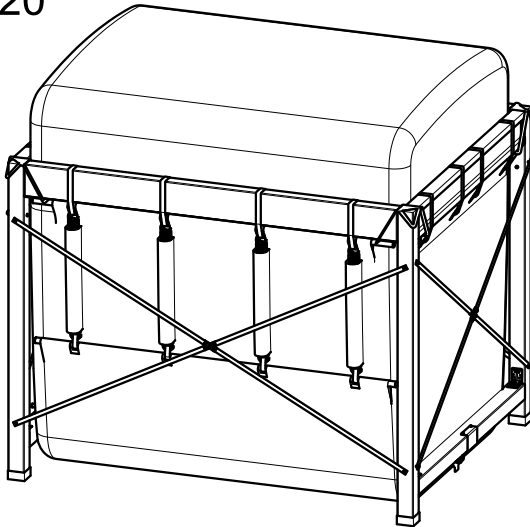
1814



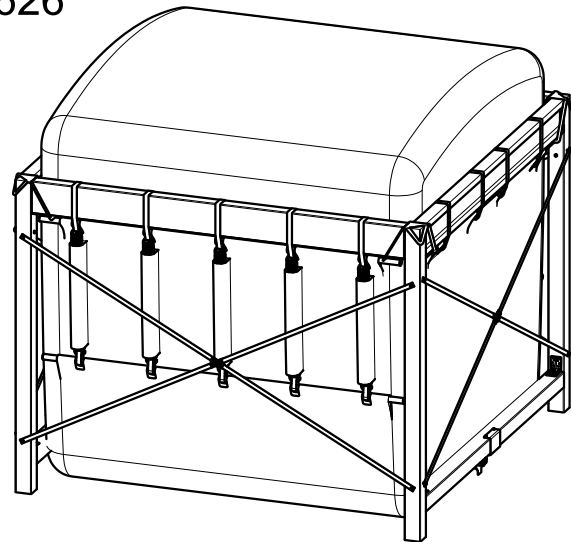
2614, 2618



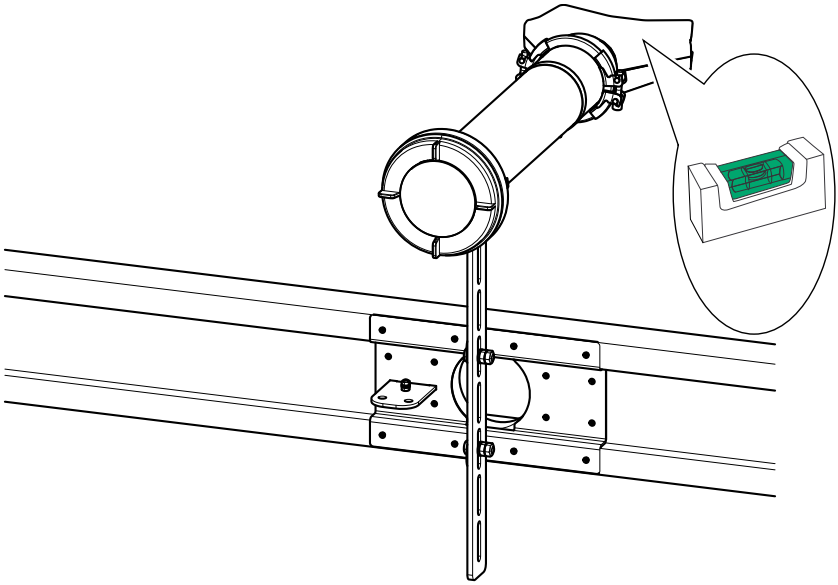
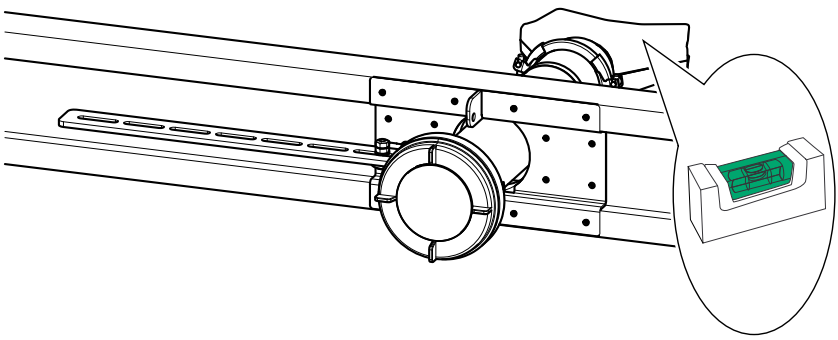
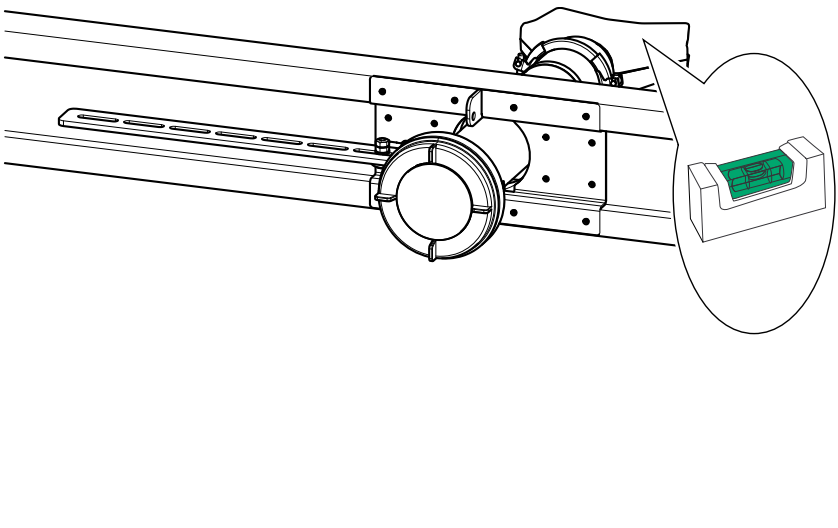
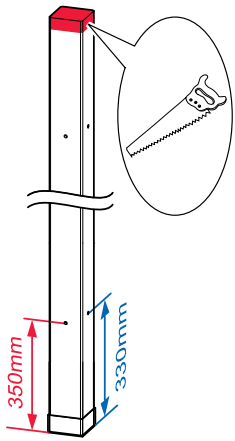
2620



2626



Assembly variants— ceiling height

| | | |
|---|--|--|
| <p>Ceiling height 240 - 215cm</p> |  | <p>Variant 1</p> |
| <p>Ceiling height 215 - 200cm</p> |  | <p>Variant 2</p> |
| <p>Ceiling height 200 - 185cm</p> |  | <p>Variant 2 and cut upright up to 15cm!</p>  |


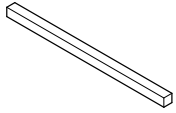
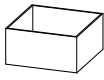
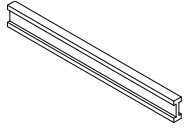
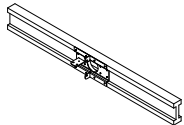
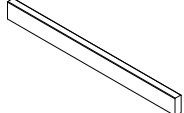
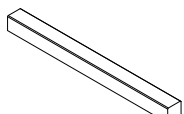
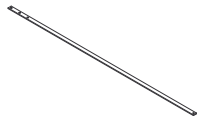

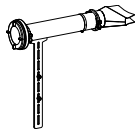

Note:

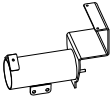

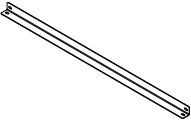
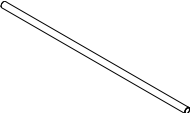
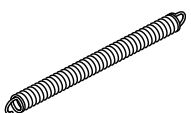




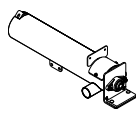
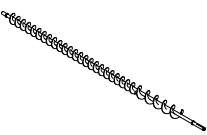
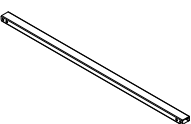
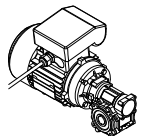
A ceiling height less of 200 cm does not guarantee a complete emptying. Approx. 15-30% of the filling volume is not automatically emptied. The lower the ceiling height, the higher the remaining amount in the tank. This must be taken into account when selecting the tank size.

7.1 Parts list - FleXILO Compact storage tank

Note:

Before starting assembly, check that the delivery is complete against the parts list.

| No. | Part | Quantity | Illustration | Article No. |
|-----|--|----------|--|--|
| 1 | Storage tank | 1 |  | KS1814 KS2614 KS2618 KS2620 KS2626 |
| 2 | Upright | 4 |  | S100H |
| 3 | Damp room shoes | 4 |  | S132 in K116 integr. |
| 4 | Transverse member opposite to filling side | 1 |  | KT140H20 KT180H20 KT200H20 KT260H20 |
| 4 | Transverse member filling side | 1 |  | KT140H20-MTB KT180H20-MTB KT200H20-MTB KT260H20-MTB |
| 5 | Transverse member spring side | 2 |  | KT 180 KT260 |
| 6 | Beam filling side (bottom) | 2 |  | KT140U KT180U KT200U KT260U |
| 7 | Struts | 16 |  | KSR140V2 KSR180V2 KSR200V2 KSR260V2 |
| 8 | Transverse member bracket | 4 |  | K121 |
| 9 | Filling unit | 1 |  | S106HNS |
| 10 | Filling instructions | 1 |  | PE489 |

| No. | Part | Quantity | Illustration | Article No. |
|-----|-------------------------------------|---|---|--------------------------------|
| 11 | Connecting flange, rear | 1 |  | K122 |
| 12 | Pressure relief fitting | 1 not with KGT1814 |  | K104 |
| 13 | Pressure relief bracket | 1 |  | K107 K108 |
| 14 | Spring tube | 6 |  | K131 K132 K133 K134 |
| 15 | Tension springs | 4 – 1814 6 – 2614, 2618 8 – 2620 10 – 2626 |  | K113 |
| 16 | Caps for tension springs | 2 per tension spring |  | K119 |
| 17 | Retainer belt | 8 – 1814 10 – 2614, 2618 16 – 2620 18 – 2626 |  | K114 |
| 18 | Spring belt | 4 – 1814 6 – 2614, 2618 8 – 2620 10 – 2626 |  | K115 |
| 19 | Small parts Compact storage tank | 1 |  | K116V2 |
| 20 | T-piece | 1 |  | K125 |
| 21 | Delivery auger | 2 (1 for 1814) |  | FSV140M + FS100 (FS160M) |
| 22 | Tube Auger guide | 1 |  | K126 K129 |
| 23 | Motor unit | 1 |  | K118 |

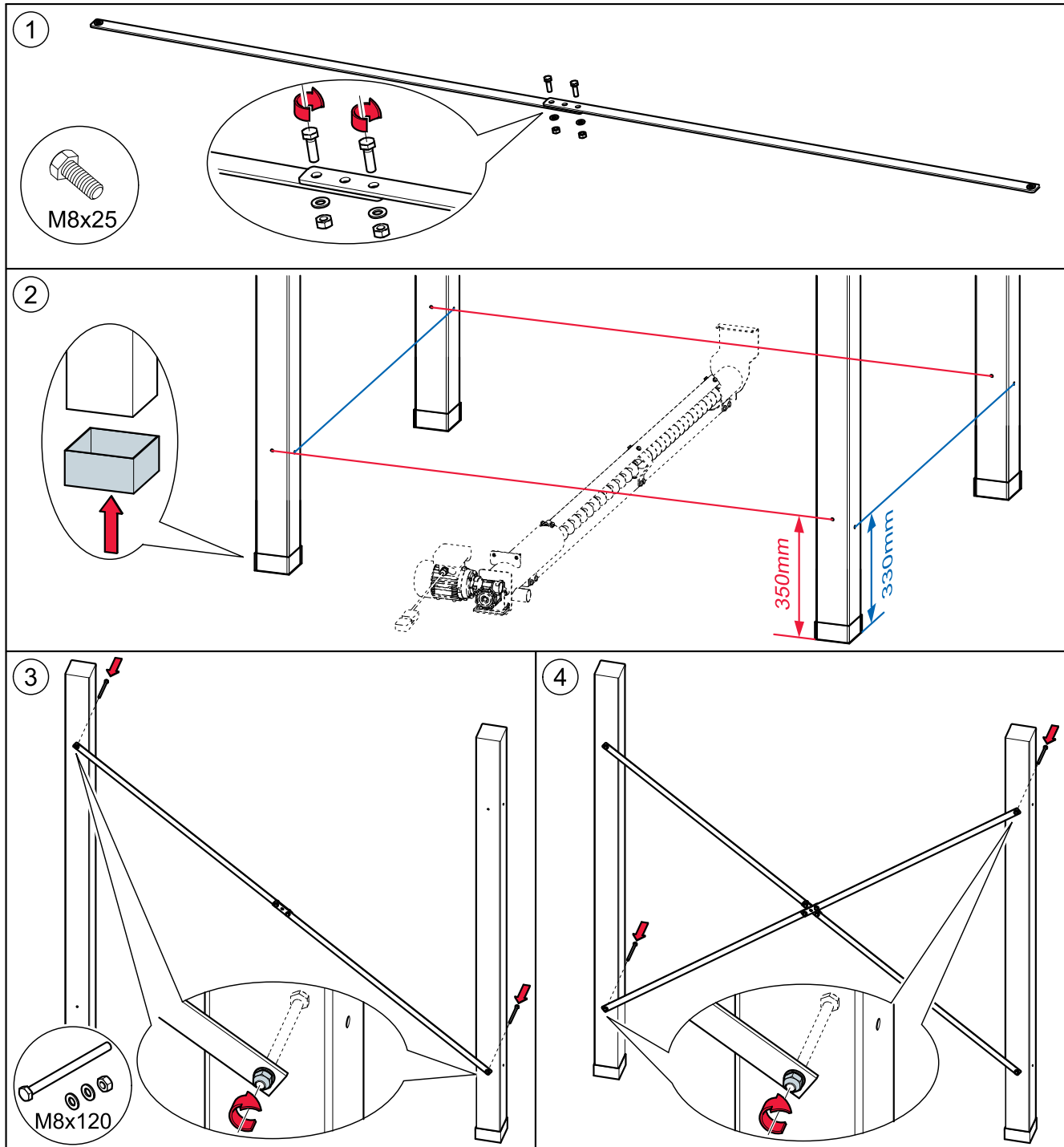
7.2 Assembly - FleXILO Compact

Assembly of the storage tank frame

NOTICE

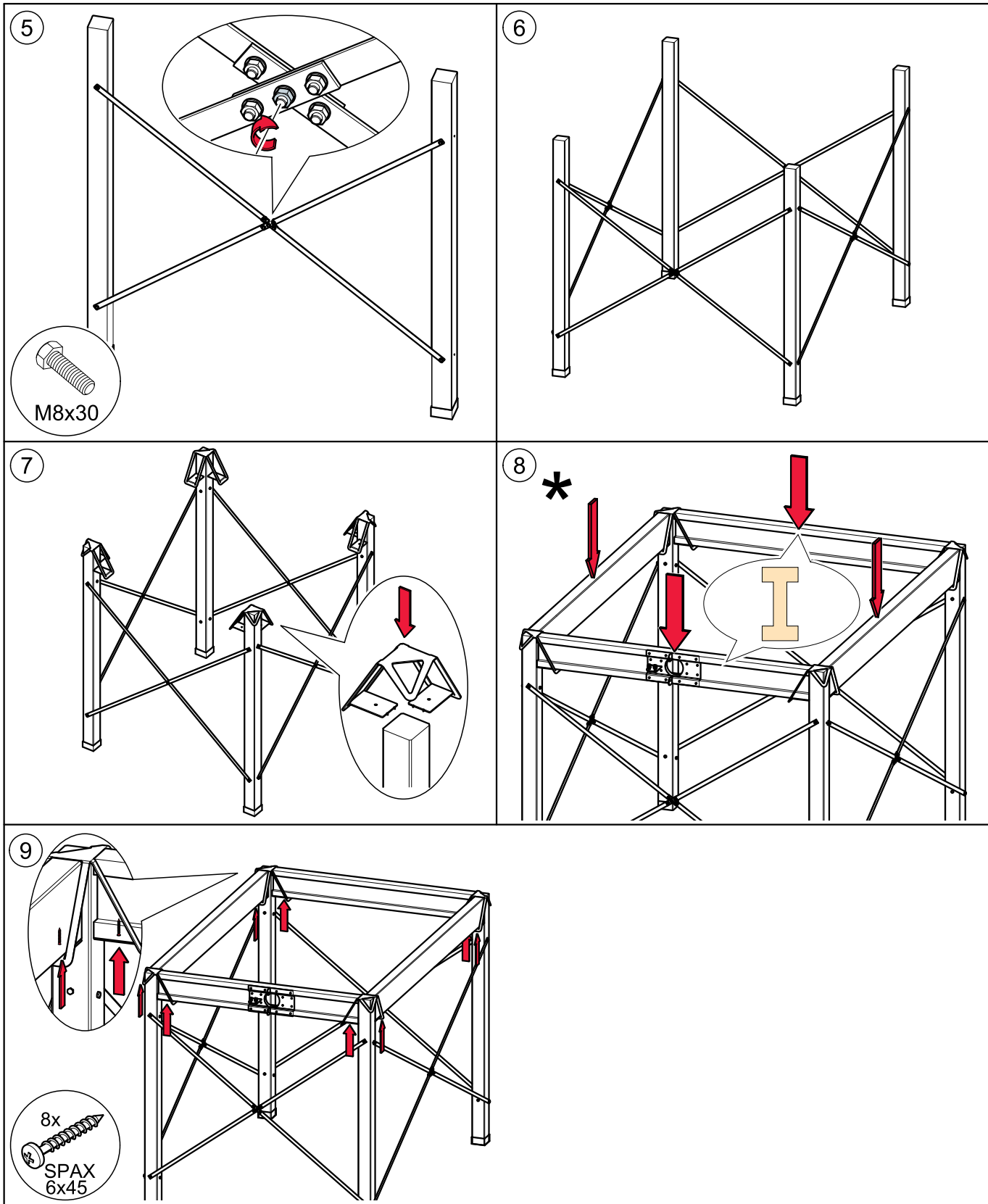
Damage to the fabric

Valid for all bolted connections The bolt head must be fitted on the inside, the nut with washer on the outside of the storage tank frame.



Note:

Use the self-locking nuts for the through bolts.



* Low ceiling height see next page

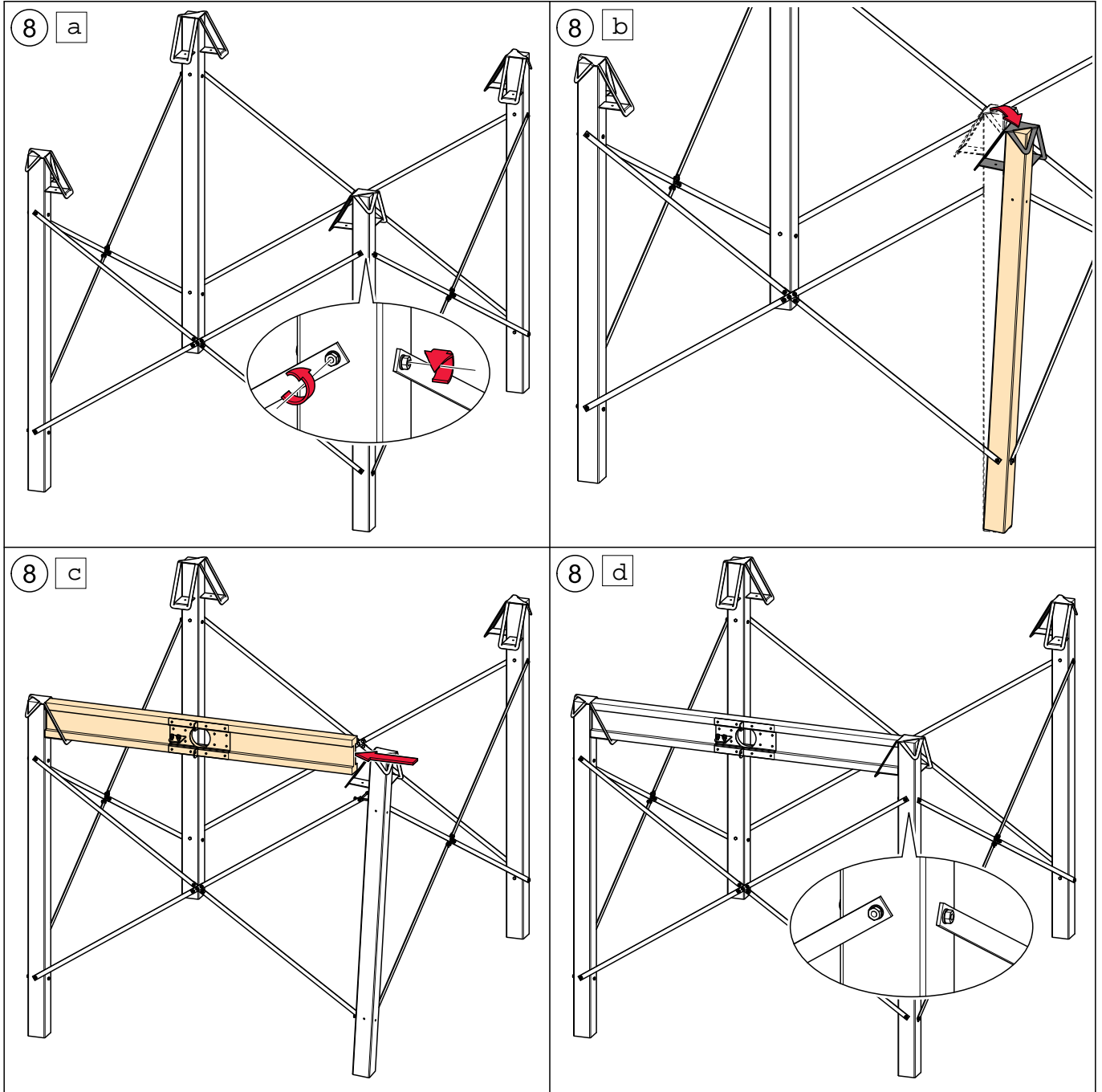


DANGER

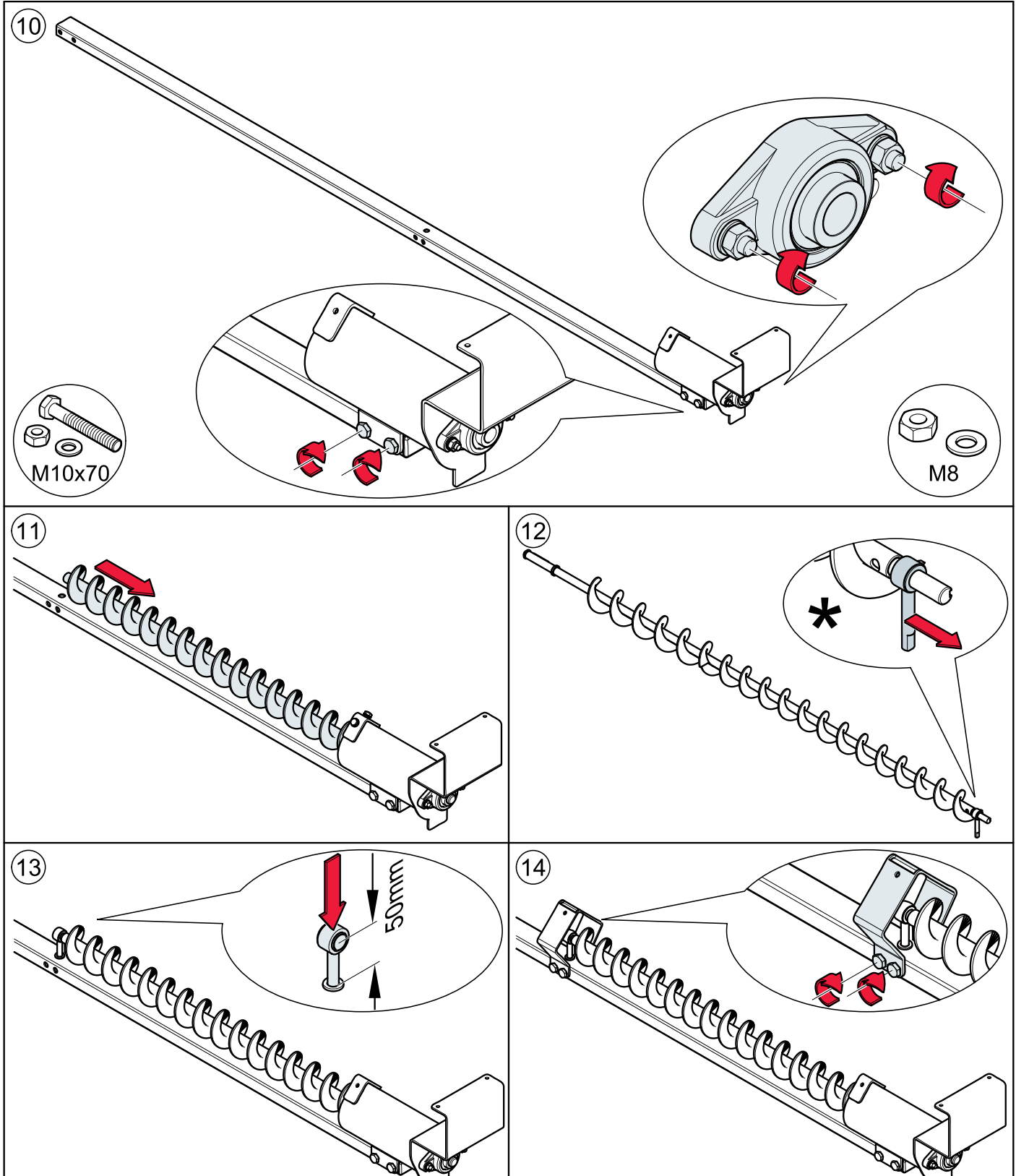
Crushing

Faulty or incomplete installation of the struts can cause the storage tank to collapse.

Low ceiling height



Assembly of the delivery system



*Figure 12-14: Not required with KGT 1814

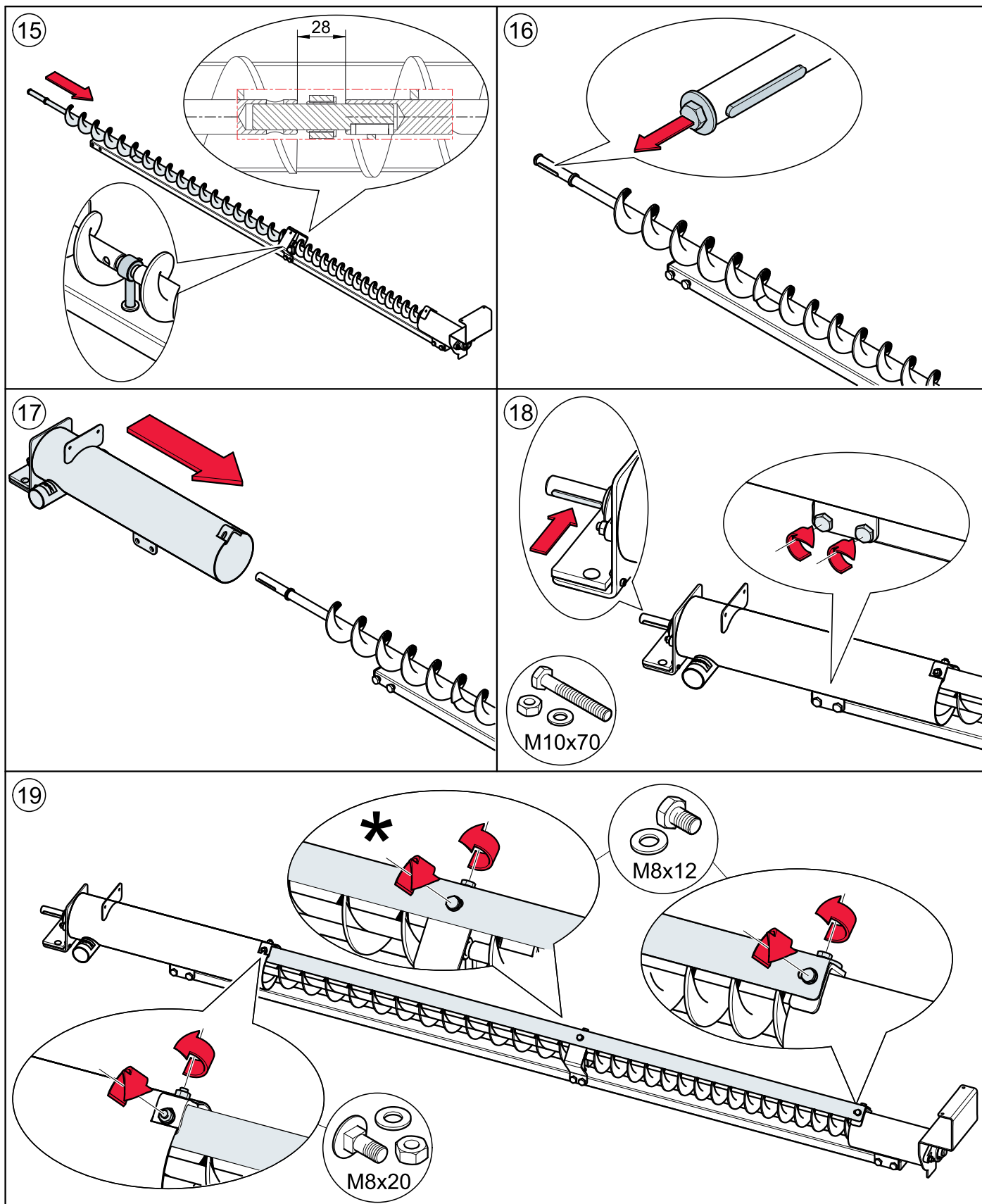
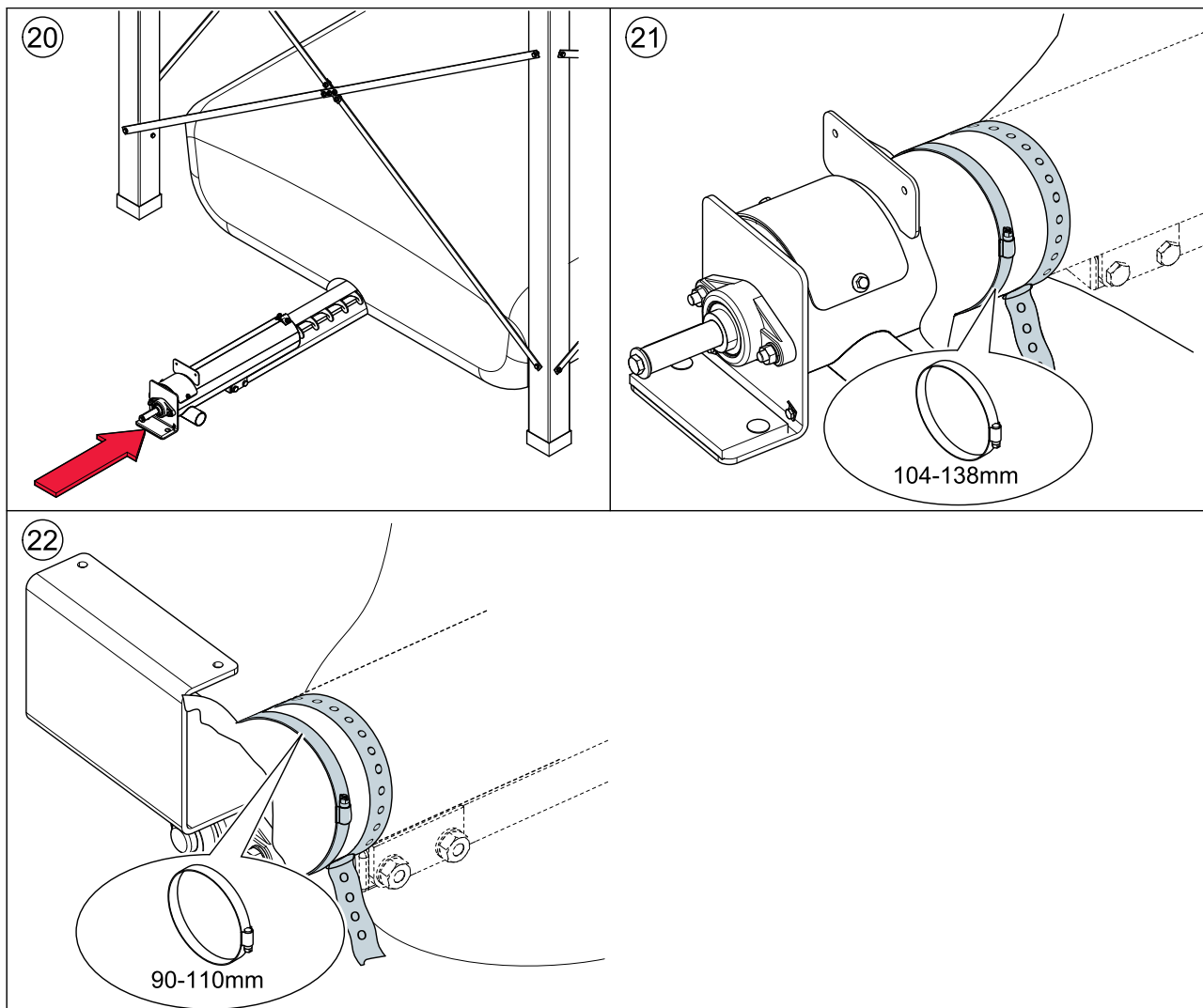


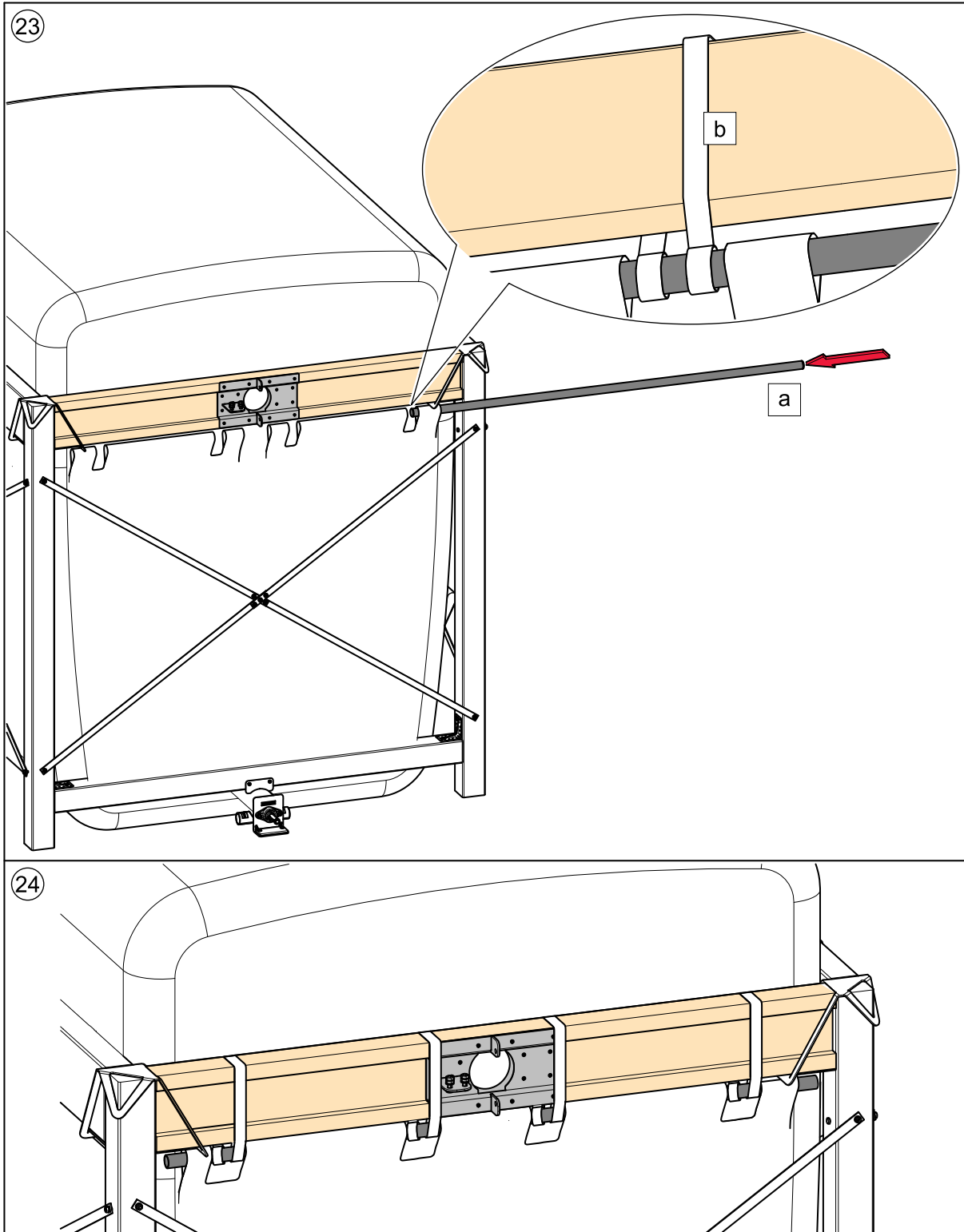
Figure 15 and 19: Not required with KGT 1814

Insertion of the delivery system into the storage tank**picture 21/22 Close off the storage tank opening for the delivery auger**

- Pull the storage tank opening over the connecting flange.
- Fasten the storage tank to the connecting flange using straps.
- Close off the storage tank at the connecting flange using a pipe clamp.

Attaching the storage tank on the filling side and opposite side

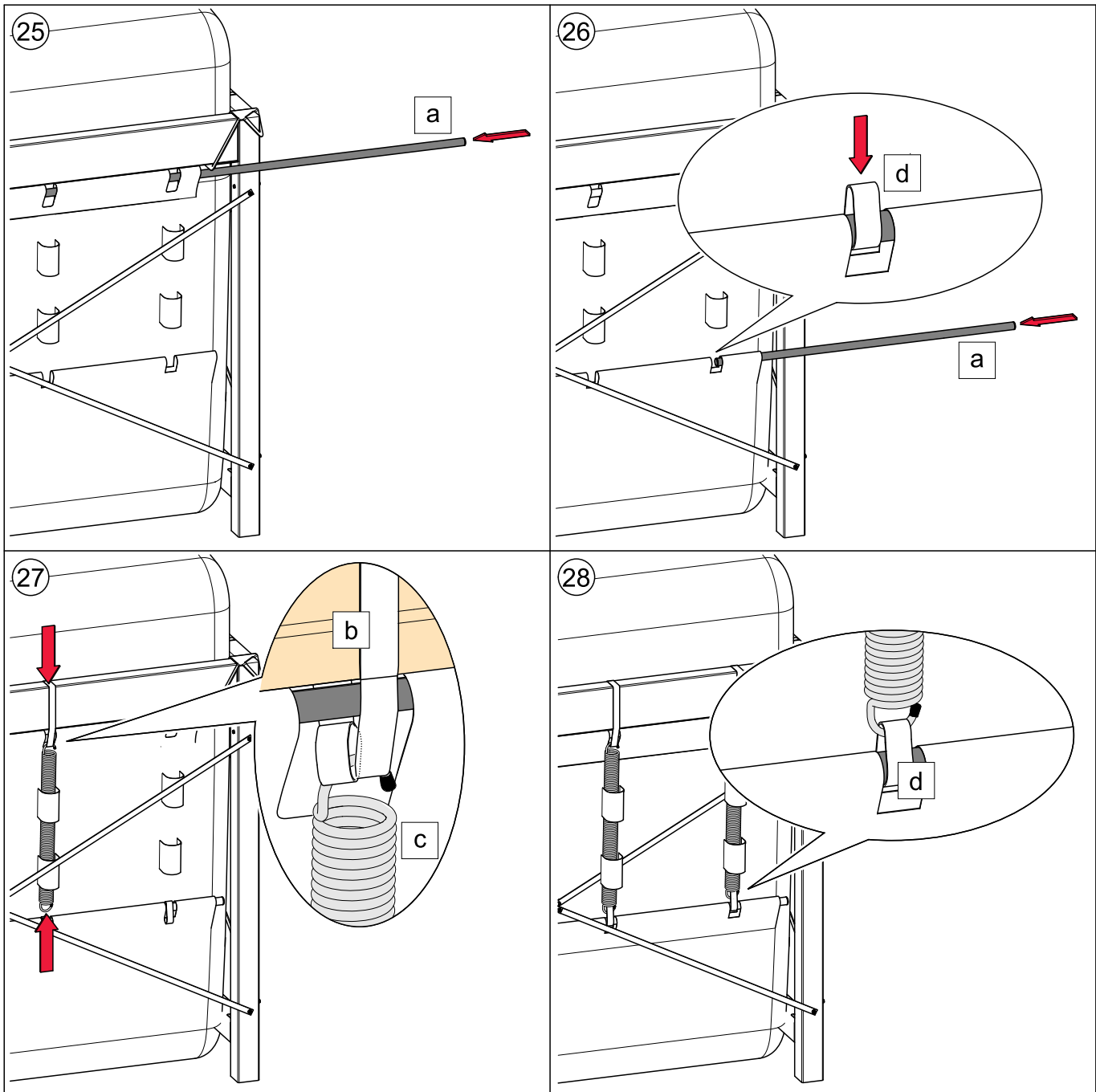
- Hook 2-5 (depending on the size) retainer belts over the transverse members on the filling side.
- Pull the storage tank to the required height on the filling side.
- Thread a spring tube (a) alternately through the lifting straps of the storage tank and the loops of the retainer belts (b).
- Repeat the whole procedure on the opposite side.

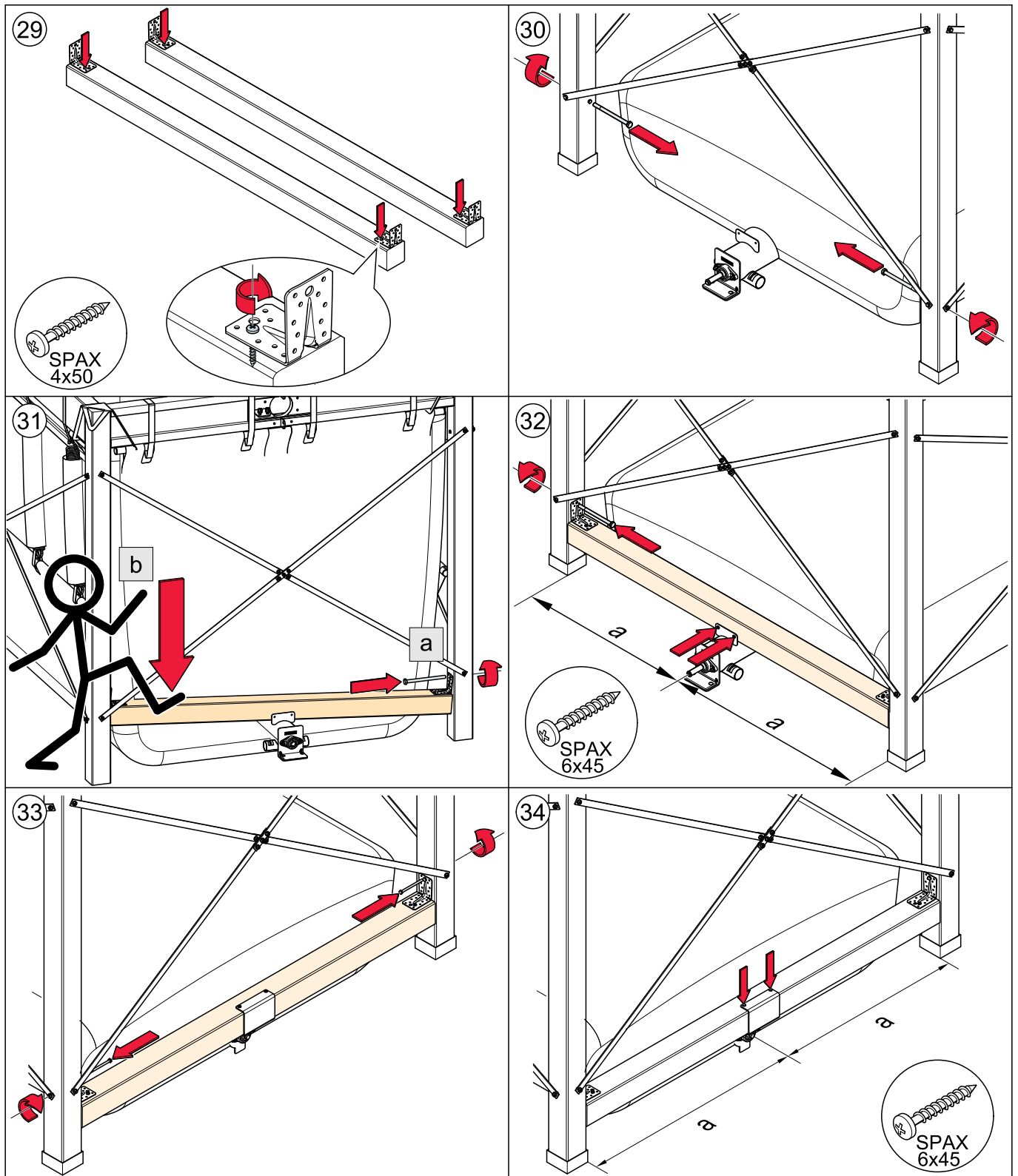


Attaching the lateral spring tubes with the springs

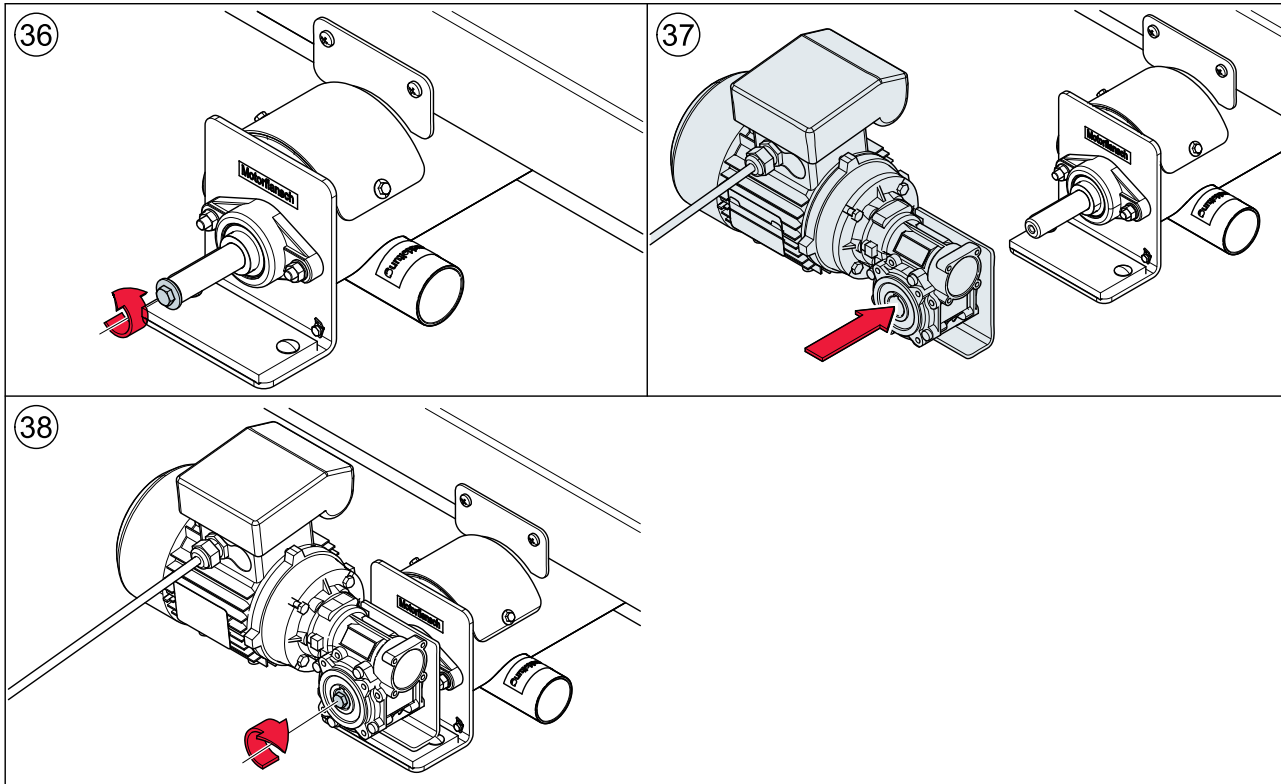
- Hook 2-5 (depending on the size) retainer belts (b) over the lateral transverse members.
- Pull the storage tank to the required height on the filling side.
- Thread a spring tube (a) alternately through the lifting straps of the storage tank and the loops of the retainer belts (b).
- Thread 2-5 tension springs (c) into the spring pockets and hook the springs to the loops of the retainer belts (b).
- Thread the spring tube (a) alternately through the lifting straps of the storage tank and the loops of the spring belts (d).
- Hook the tension springs (c) into the spring belts (d).

Repeat the whole procedure on the opposite side.



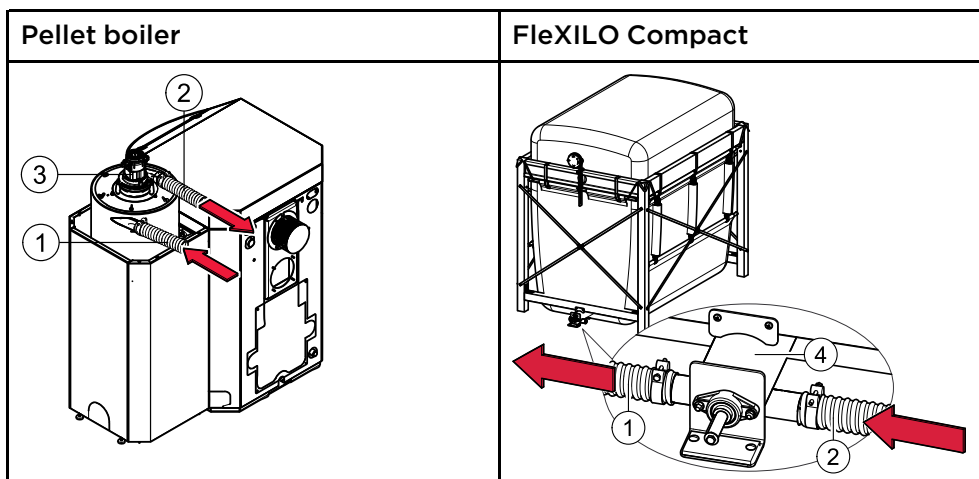


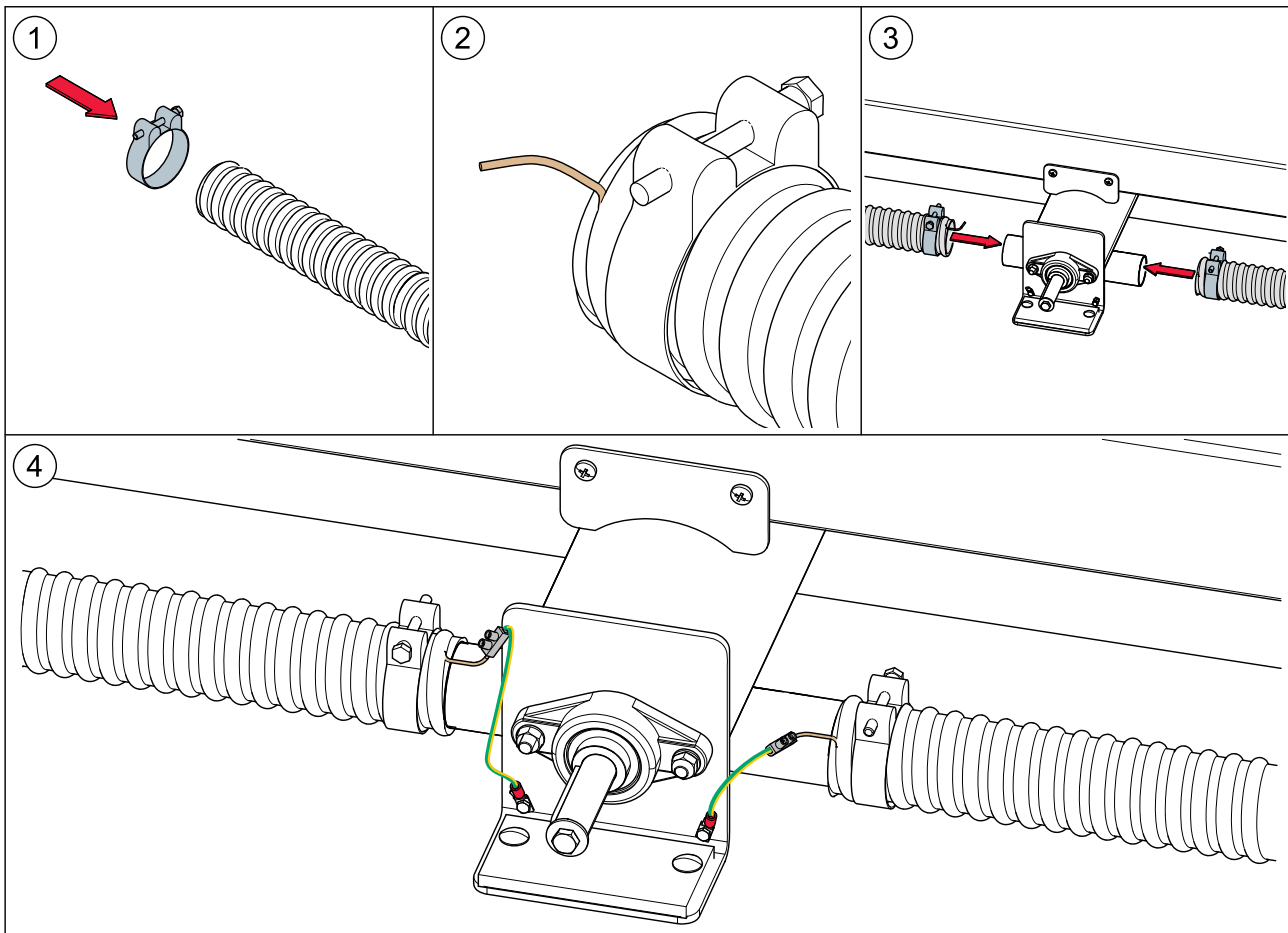
Installation of the drive unit



Connection and earthing of the pellet and air line to the T-piece

| | | |
|---|-------------|---|
| 1 | Pellet line | Line from the storage room auger or fabric tank to the hopper. |
| 2 | Air line | Line from the suction fan to the storage room auger or fabric tank. |
| 3 | Suction fan | Located above the hopper behind the Pellematic burner housing. |
| 4 | T-piece | Located at the front end of the extraction auger, outside the flexi tank. |





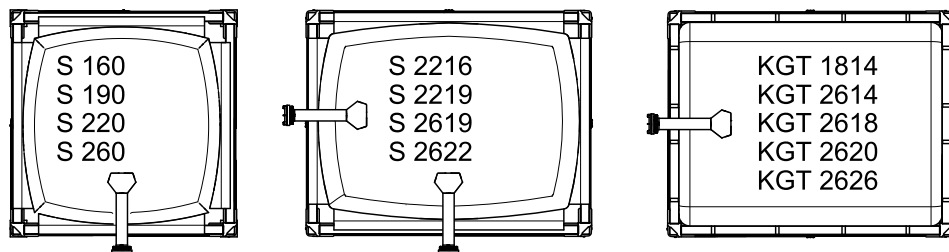
8 Assembly of the filling system

The filling system is the same on all storage tank types. It consists of filling nozzle with bracket and coupling with blind cover.

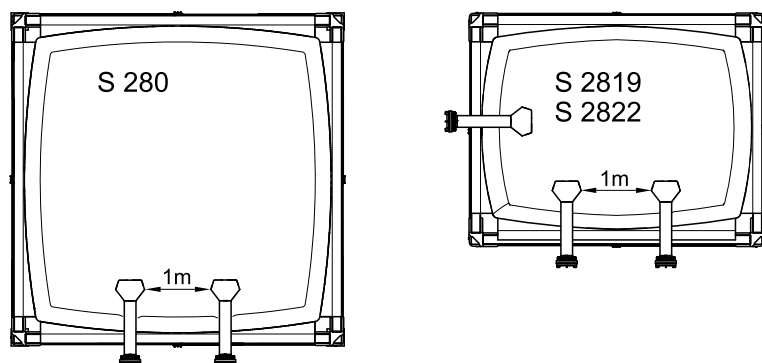
Installation of the filling nozzle

Depending on the storage tank type and position of the filling connection, one or two filling nozzles are installed.

FleXILO standard



FleXILO with special height



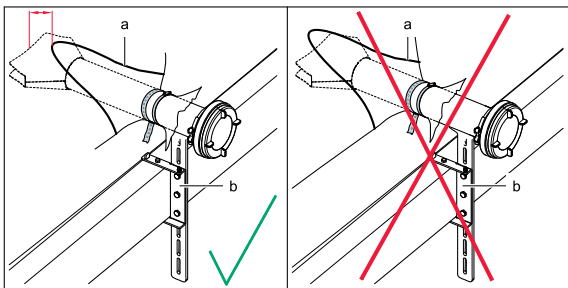
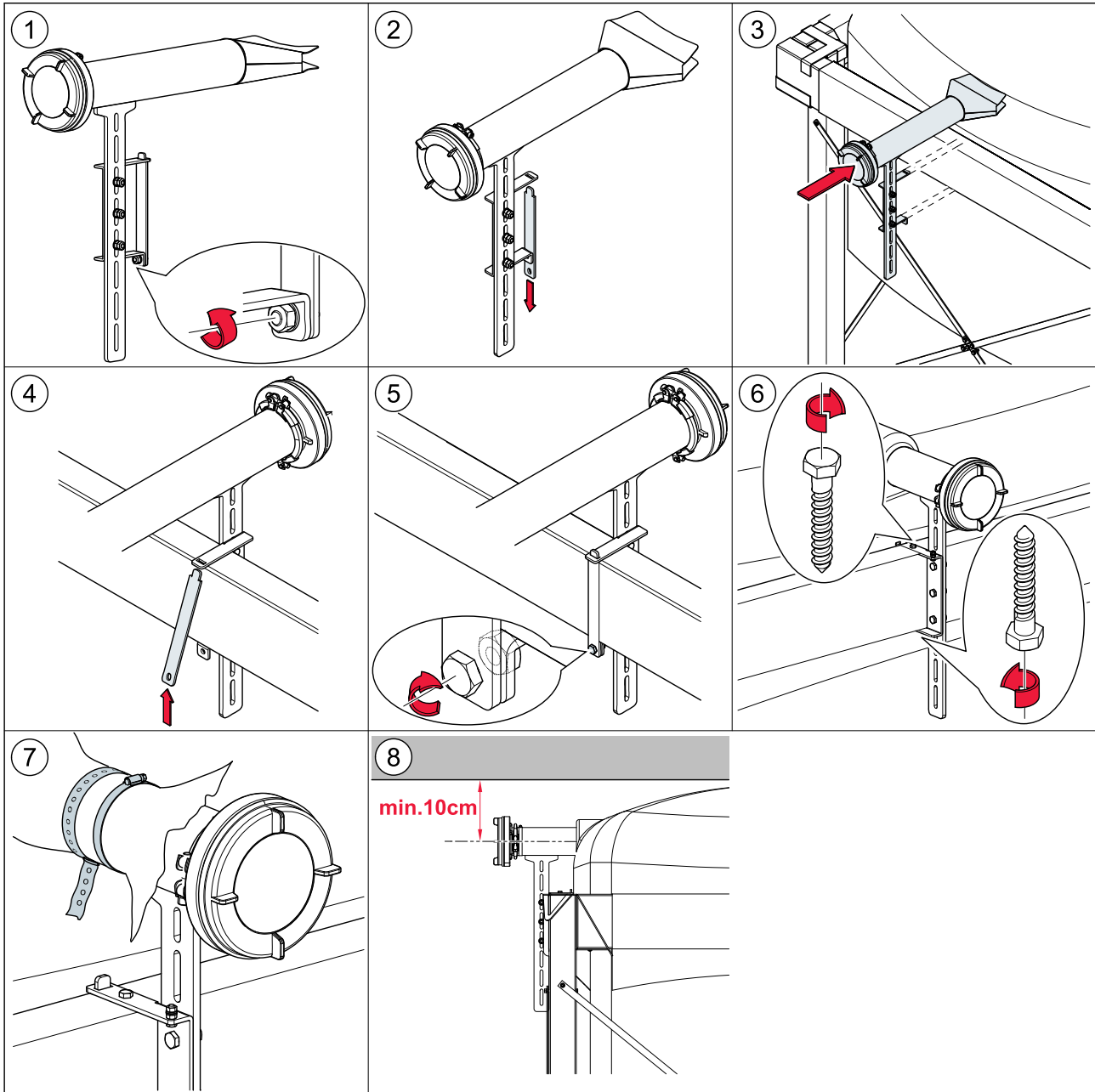
The height of the filling nozzle provides an optimum filling level of the storage tank. Lift the filling nozzle to approx. 5 cm from the underside of the ceiling of the installation room. The bracket of the filling nozzle, however, must not be lifted to higher than the underside of the storage tank transverse member.

NOTICE

Damage to the fabric

Valid for all bolted connections The bolt head must be on the inside, the nut with washer on the outside of the storage tank frame.

FleXILO H



- a Seam of the filler opening
- b Bracket of the filling nozzle

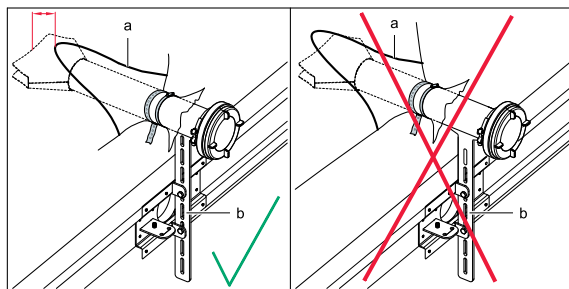
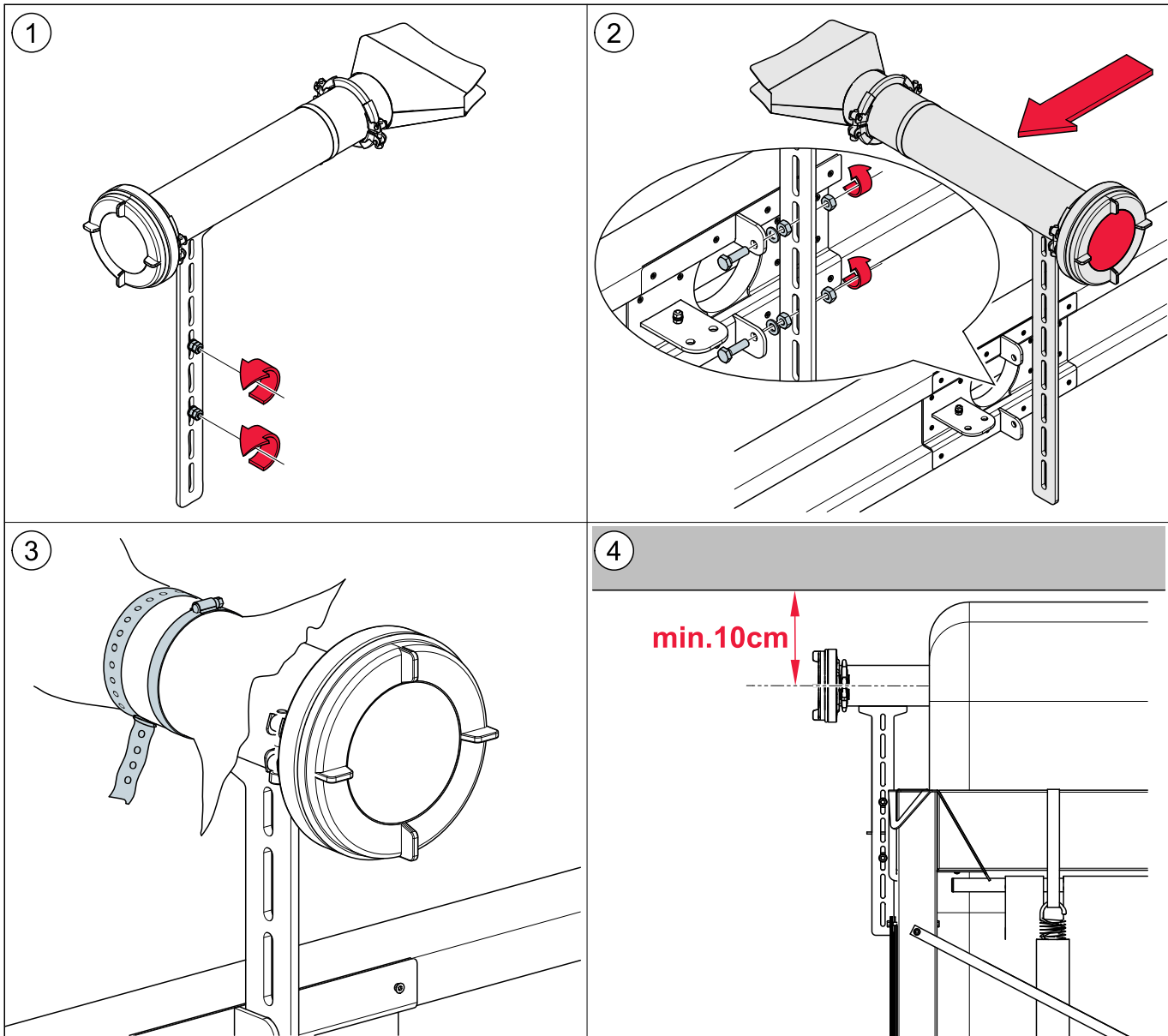
NOTICE

Tearing of the storage tank

The storage tank opening must be fixed as closed as possible to the bracket of the filling nozzle. The seam of the filler opening must not hang over the filling nozzle.

FleXILO Compact

Variant 1



a Seam of the filler opening

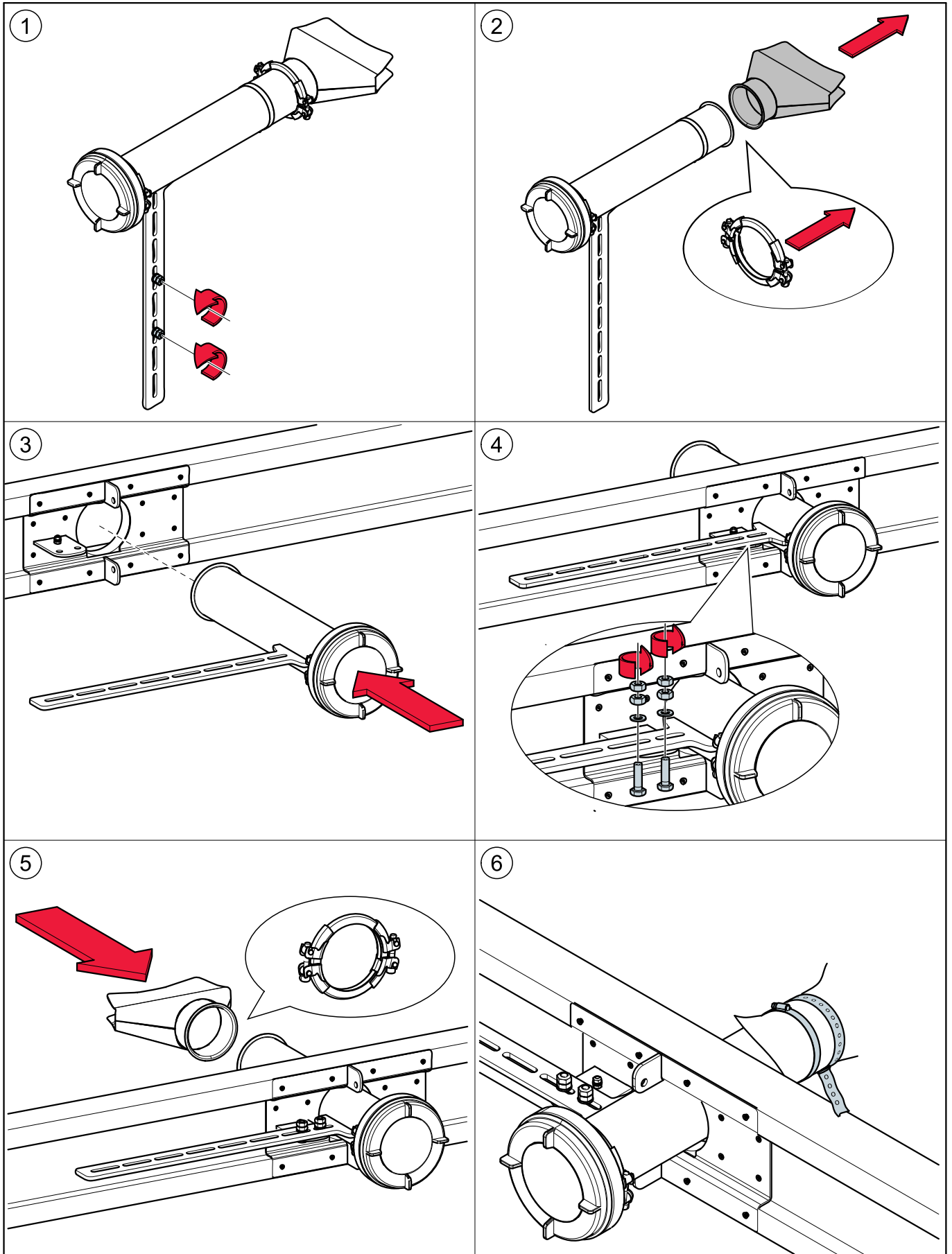
b Bracket of the filling nozzle

NOTICE

Tearing of the storage tank

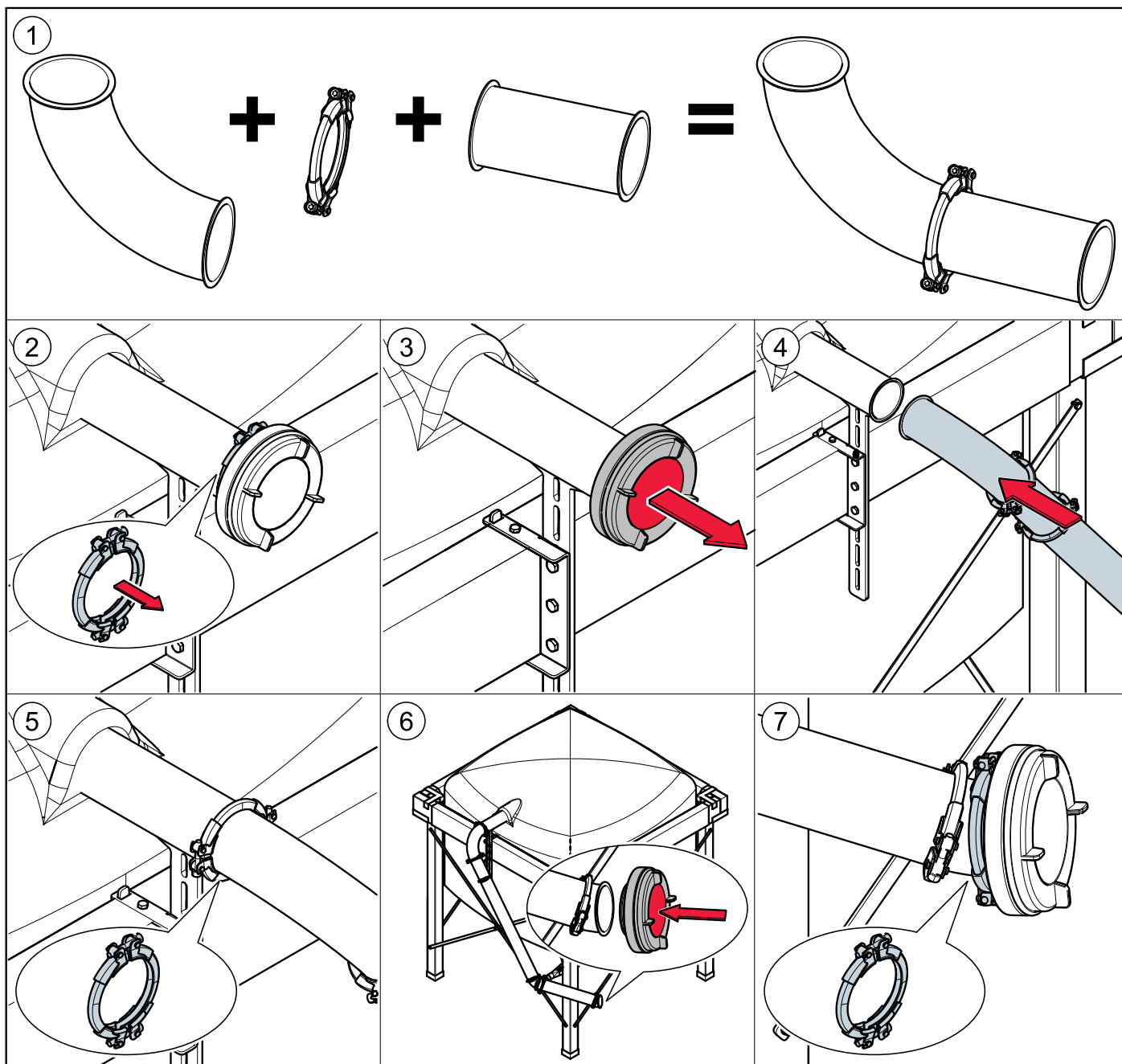
The storage tank opening must be fixed as closed as possible to the bracket of the filling nozzle. The seam of the filler opening must not hang over the filling nozzle.

Variant 2



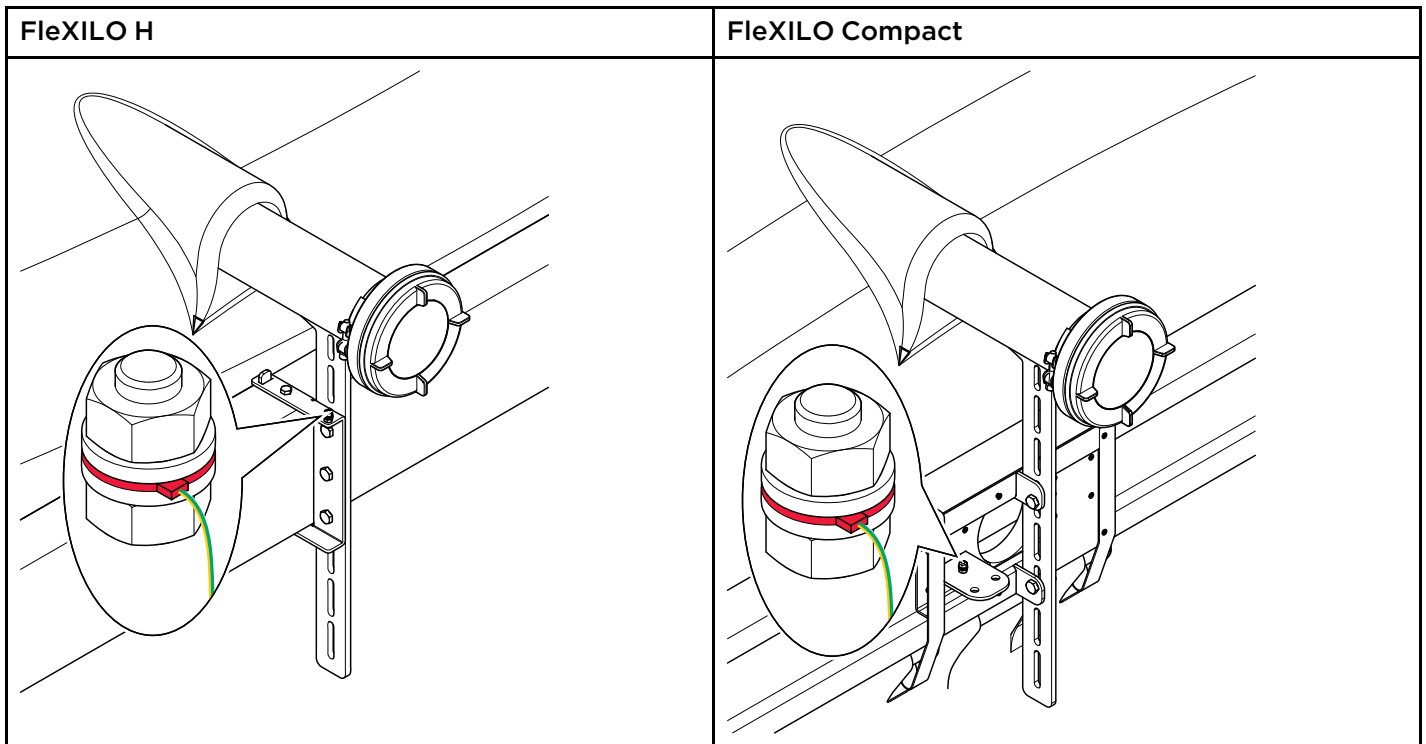
Installation of an extended filling system

In cases where the filler coupling is not accessible for filling, further elbows and pipes have to be linked together with connecting clamps until a filler coupling accessible from the outside can be installed.



Earthing of the storage tank

The filler coupling must be earthed. The bracket of the filling nozzle has a connection for the earthing.



Installation of the instruction sign

Attach the instruction sign visibly to the filler coupling.

Fix the instruction plate directly to filling couplings of the ÖkoFEN FleXILO textile tank!

Manufacturer : **ÖkoFEN**
 Forschungs- und Entwicklungs Ges.m.b.H
 Gewerbepark 1
 A 4133 Niederkappel

Type : **FleXILO textile tank for pellet storing**
 Year of build: **2010**

| | |
|-------------------------------|----------|
| Maximum filling volume | t |
|-------------------------------|----------|

ATTENTION

- **VENTILATE THE STORAGE ROOM OF the ÖkoFEN FleXILO textile tank BEFORE ENTERING.**
- **TO STAY BELOW OR IN THE NEAR OF the ÖkoFEN FleXILO textile tank is PROHIBITED.**
- **STORAGE OF ANY MATERIAL BELOW OR IN THE NEAR OF the FLEXI tank is PROHIBITED.**
- **DO NOT CHANGE THE FILLING COUPLINGS.**

OPERATING PROCEDURE

1. **SWITCH OFF THE HEATING SYSTEM**
2. **NEVER EXCEED THE MAXIMUM FILLING VOLUME (see above).**
3. **BLOWING AIR WILL ESCAPE NATURALLY.**
The blown air filters through the textile tank.
4. **MAXIMUM FILLING PRESSURE: 1,5 bar.**
Is the Filling hose shorter than 5m: max. filling pressure 0,5 bar.
5. **FIT THE COUPLINGS PROPERLY** with 2 wrenches.
6. **INFLATE THE FLEXI TANK** 1min with AIR (max. 1,5 bar pressure).
7. **FILL THE FLEXI TANK WITH PELLETS.**
8. **FLEXITANKS WITH 2 COUPLINGS:**
 1. Fill through nozzle 1 to high **cross beam** level. (Nozzle 2 capped)
 2. Fill through nozzle 2 to maximum level. (Nozzle 1 capped!)
 3. Fill through nozzle 1 to maximum level. (Nozzle 2 capped!)

9 Final inspection

NOTICE

Material damage

Before commissioning and the first filling of the storage tank, a detailed inspection of the installation room and the storage tank must be carried out.

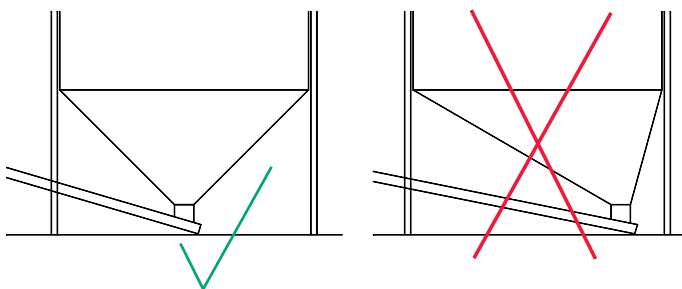
Check:

In the installation room

- Are the ventilation openings in place?
- Are the filler couplings open or closed?
- Have the fire protection regulations been observed?
- Has the alignment of the uprights and transverse members been checked with a spirit level?

On the storage tank

- Have the damp room shoes and rubber underlays been installed?
- Have all the bolts of the storage tank frame been tightened correctly?
- Have all the bolts been inserted with the bolt heads on the inside towards the fabric to prevent damage to the tank fabric?
- Have **all** struts been correctly installed and the bolts tightened?
- Is the whole storage tank frame stable?
- Are the lifting straps of the storage tank in the middle?
- Are the lifting straps of the storage tank straight (without creases) so that there are no point loads on the storage tank? Point loads can cause the fabric to move so that the dust-tightness of the tank can no longer be assured.
- Are the not used filler openings of the storage tank securely closed?
- Is the filler nozzle correctly fastened to the filler pipe by means of a hose clamp?
- Is the auger delivery system or suction system correctly fastened to the dispensing unit by means of a hose clamp?
- Is the dispensing unit correctly positioned in the middle?



- Is the filling instruction sign installed on the filler coupling?

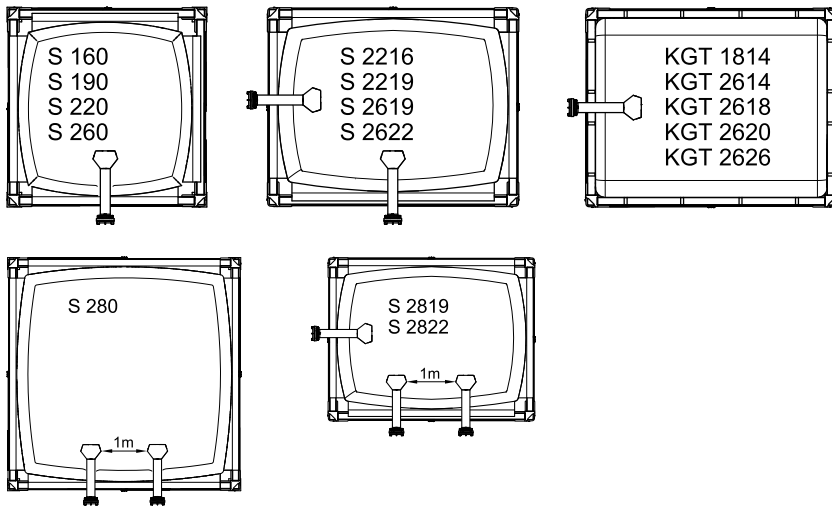
KGT

- Are the tension springs guided through the flaps and suspended correctly?
- Are the spring tubes mounted centrally?
- Is the zipper closed completely?

10 Filling of the storage tank

Number of filling nozzles

Depending on the size of the storage tank or on the possibility of positioning the filling unit, 1 or 2 filling units are installed to allow optimum use to be made of the tank volume.



Guidelines and preconditions for filling the storage tank


- Observe the instruction sheet on the storage tank.
- Ventilate the installation room well before entering.
- Inspect the proper condition of the installation room and the storage tank.
The storage of any materials under or in the vicinity of the storage tank is forbidden.
- Check the positions of the openings in the installation room.
- Do not make any modifications to the filling device.
- Exhausting of the filling air is not necessary.
- Never stand in the immediate vicinity of the storage tank.
- Never exceed the maximum gross weight (see below or observe the instruction sign "Filling of the storage tank").
- Maximum filling pressure = 1.5 bar. If the filling line is less than 5 m: Maximum filling pressure = 0.5 bar.

Filling of the storage tank

1. Switch off the pellet heating system.
2. Connect the hose coupler correctly with 2 coupler keys.
3. Check that all other filler couplings are closed.
4. Inflate the storage tank for 1 minutes with max. 1.5 bar.
5. Fill the storage tank.
With 2 filler couplings, proceed as follows:
Fill the storage tank via coupling 1 up to the level of the **transverse members** (coupling 2 closed!).
Fill the tank via coupling 2 up to Maximum (coupling 1 closed!).
Fill the tank via coupling 1 up to Maximum (coupling 2 closed!).
6. Disconnect the hose coupler and close the filler coupling.

Maximum loads of the storage tank

| Storage tank type | Maximum filling volume = Maximum admissible load | Storage tank type | Maximum filling volume = Maximum admissible load |
|-------------------|--|------------------------|--|
| FleXILO | | FleXILO COMPACT | |
| S160 H | 2,5 to | KGT1814 | 2400 – 3,3 to |
| S160 H 500 | 3,2 to | KGT2614 | 2400 – 4,7 to |
| S160 H 1000 | 4,0 to | KGT2618 | 2400 – 6,2 to |
| S160 H 1500 | 4,7 to | KGT2620 | 2400 – 7,0 to |
| S190 H | 3,2 to | KGT2626 | 2400 – 8,5 to |
| S190 H 500 | 4,2 to | | |
| S190 H 1000 | 5,3 to | | |
| S190 H 1500 | 6,4 to | | |
| S220 H | 3,6 to | | |
| S220 H 500 | 5,0 to | | |
| S220 H 1000 | 6,6 to | | |
| S220 H 1500 | 8,0 to | | |
| S260 H | 4,6 to | | |
| S280 H 500 | 7,8 to | | |
| S280 H 1000 | 9,3 to | | |
| S280 H 1500 | 12,0 to | | |
| S2219 H | 3,4 to | | |
| S2219 H 500 | 4,6 to | | |
| S2219 H 1000 | 5,8 to | | |
| S2219 H 1500 | 7,0 to | | |
| S2619 H | 3,6 to | | |
| S2819 H 500 | 5,5 to | | |
| S2819 H 1000 | 7,1 to | | |
| S2819 H 1500 | 8,7 to | | |
| S2622 H | 4,2 to | | |
| S2822 H 500 | 6,6 to | | |
| S2822 H 1000 | 8,4 to | | |
| S2822 H 1500 | 10,2 to | | |

 **DANGER**

Collapsing of the storage tank
Never fill the storage tank to more than the maximum load shown.

Note:
In view of the different pellet qualities it is possible that although the storage tank is full, the maximum weight has not yet been reached.



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