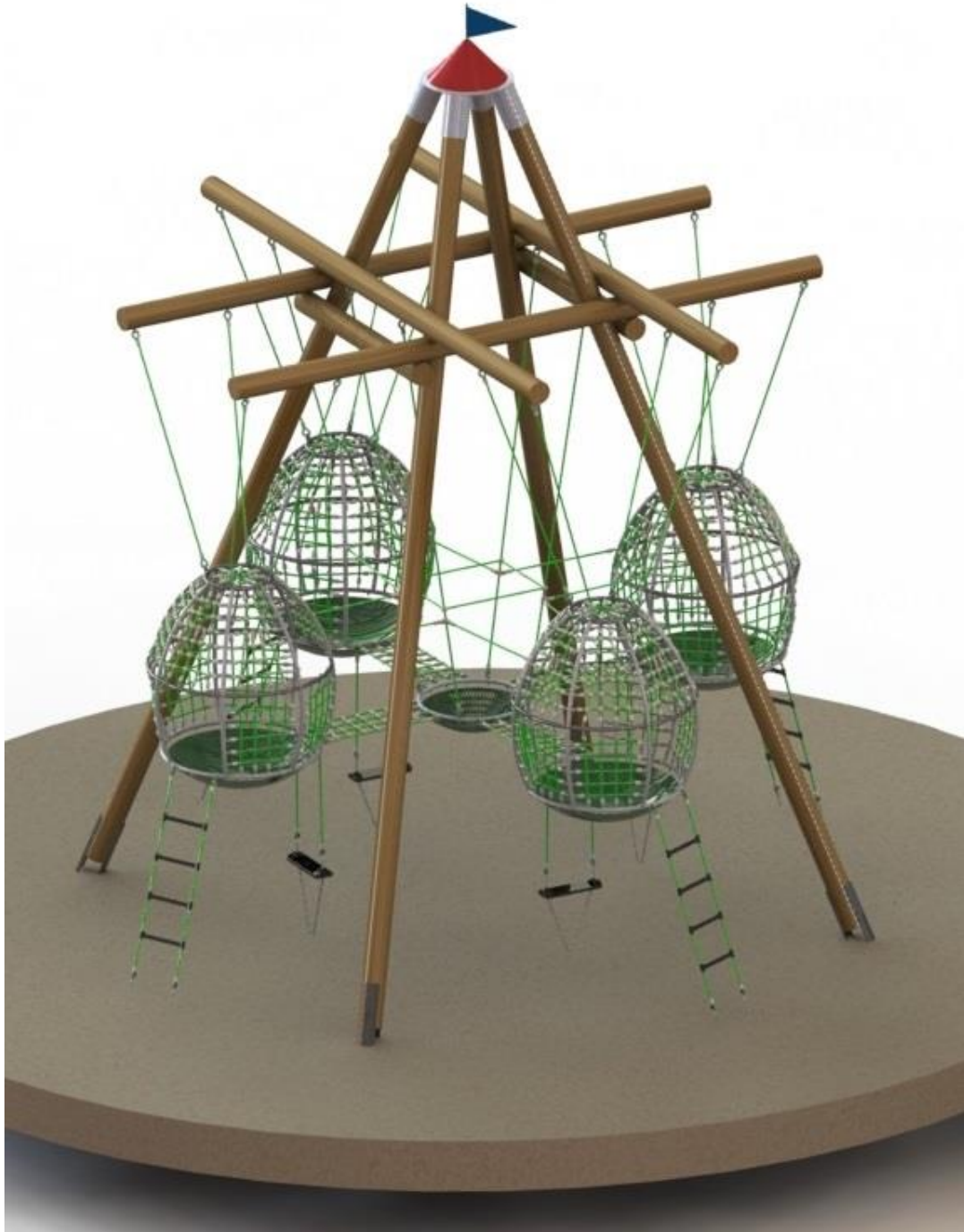


A Assembly Instructions
Olive Tree Art. 4652-24



Operator: _____

Location: _____

Revision history

Revision 0 – 2019-04-03

The first allowed version

Assembly instructions

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1 Introduction Assembling

1.1 General information

This equipment should be installed, inspected, maintained and operated in accordance with EN1176-7 guidelines.

Before installation work commences, please check that you have all of the equipment and fixation components in the parts list provided (see Tables 3-1 and 3-2).

Please consider that the installation has to be carried out only on even terrain (max.slope up to 3%).

Any spare parts that may be required can be obtained directly from your supplier.

Please do not hesitate to call your supplier if you have any problems during installation or in case of any other questions.



Attention

Following installation, complete assembly instructions, maintenance instructions and a maintenance record must be sent to the operator who must confirm receipt in writing. See the last page of this document.



Attention

All nuts and bolts are hot-dip galvanised or stainless steel.

One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standard EN 1176.

Drawings / Views

All optical drawings are showing only the measurements/dimensions and are no mandatory technical views of the complete item.

We reserve the right to change technical details of our articles which are serving for the further development of our articles and are reasonable for the customer.

Measurement tolerances

Because of the properties and characteristics of the components, minor measurement tolerances compared to the indication on the sketches are possible.

This concerns all shown measurements except the foundation measurements resp. measurements below upper edge ground level/play area.

2 Datasheet “Olive Tree”, Art. 4652-24

1. Space requirement: 9,95m x 9,80m including safety zone, height of fall 3.00m total height 6,85m

The Images (individual drawings) are not to scale !!

2. Required safety surface:

Surface material	Description mm	Minimum thickness of layer mm	Maximum height of fall mm
Topsoil grass			<= 1000*
Chipped bark	20 – 80 grain size	300/400	<= 2000/3000
Wood chippings	5 – 30 grain size	300/400	<= 2000/3000
Sand	0.2 – 2 grain size	300/400	<= 2000/3000
Gravel	2 – 8 grain size	300/400	<= 2000/3000
Other ground materials	As recommended by manufacturer		

3. Name and overall dimension of the largest component:
Wooden post (4 pieces) length 7,00m, ø 180 mm
4. Name and weight of the heaviest component:
Wooden post (1 piece), approx. 157 kg
5. Intended age group: 6 years and over
6. **Please note that this equipment is set in concrete.**
Concrete: C25/30
Required concrete: 2.1 m³
Foundations/area to be excavated:
4 x 0,90 m long x 0,90 m wide, total depth 0,90 m including 10 cm drainage
8 x 0,50 m long x 0,50 m wide, total depth 0,90 m including 10 cm drainage
Top edge of concrete 40 cm below ground level



Attention!

Round off foundation edges (min.R = 100 mm)! Sizes of foundations are “4-5” (natural ground).

Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion < 30% with bigger diameter of 63 mm grain size).

Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion > 30% with bigger diameter of 63 mm grain size).

In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!

7. Assembly time, once foundations completed: 8 hours.
Required assistants: 3-5 persons.
8. Any spare parts which may be required can be obtained directly from your supplier.
9. **We hereby confirm that this item of play equipment has been tested and certified in accordance with the play equipment standard EN 1176.**

3 Delivery contents (parts list with part numbers)

3.1 In words

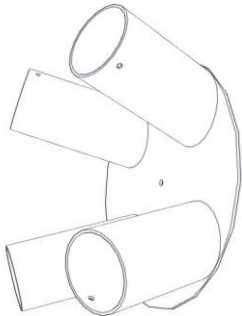




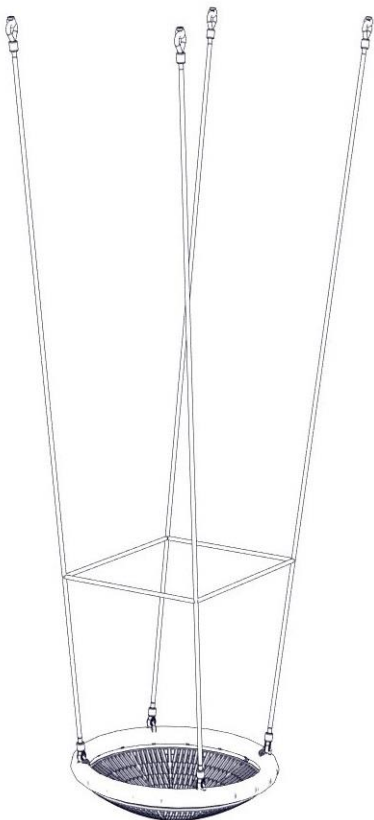
Table 3-1: Delivery contents, in words

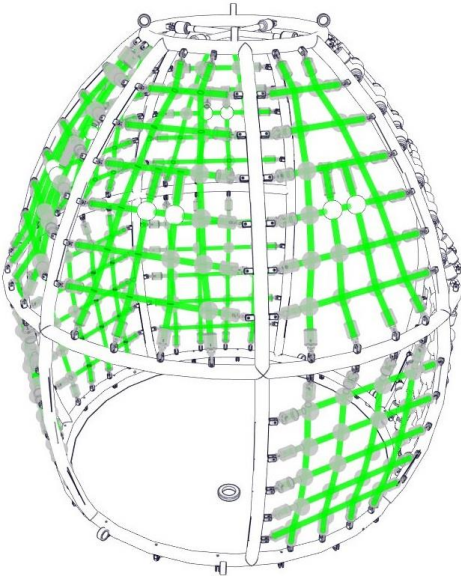
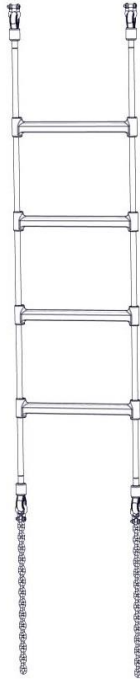
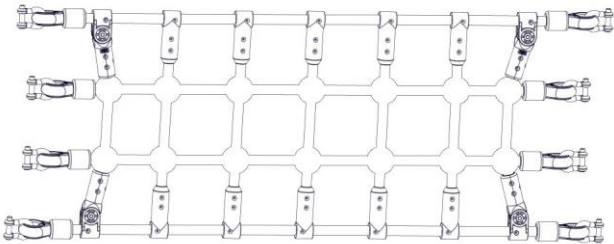
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Post connection plate			
2	4	Wood posts	Ø 180 mm x 7,0 m		
3	2	Wood posts	Ø 180 mm x 1,80 m		
4	4	Wood posts	Ø 180 mm x 5,0 m		
5	4	Post footings, With 2x Carriage bolt, 2x washer, 2x Nyloc nut, 2x nut cap			
6	1	Mini-M-Nest with suspension ropes			
7	4	Olive Basket			
8	4	Vertical Ladder – Pre-fitted on Pos.7			
9	4	Horizontal Ladder – Pre-fitted on Pos.7			
10	20	Vertical Swing with one rung			
11	16	Handrail rope			
12	6	Bow Shackle	M10		
13	12	Bolt	M6 x 37mm		
14	24	Washer	For M6		
15	12	Nyloc nut	M6		
16	16	Bolt	M16 x 30 mm		
17	16	Ring nut	M16		
18	2	Washer	For M16		
19	8	Nyloc nut	M12		
20	8	Washer	For M12		
21	4	Nut cap	For M12		
22	4	Bow Shackle	M8		
23	16	Anker chain	7mm x 800 mm		
24	16	Ground peg			
25	1	Threaded rod, 2x nut, 2x washer, 2x nyloc nut, 2x nut cap	M12 x 620mm		

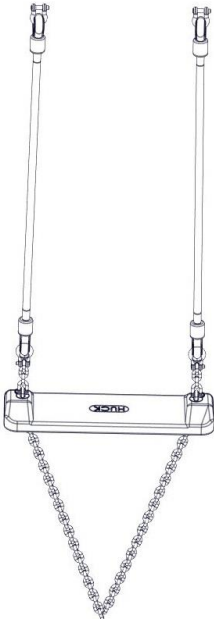

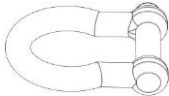
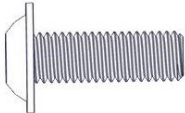


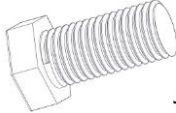
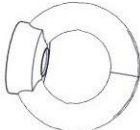

Pos.	Quantity	Element / Description	Size	O.K.	Missing
26	1	Post connecter cap			
27	10	Flag			
28	2	Loctite- Bolt glue			
29	1	Instructions			
30	2	Manufacturer sticker			
100	4	Post footings			
101	8	Carriage bolt	M12 x 230		
102	8	Washer	For M12		
103	8	Nyloc nut	M12		
104	8	Nut cap	For M12		
150	16	Wood screw	10mm x 60mm		
151	16	Washer	For 10mm		
152	12	Bolt	M16 x 400mm		
153	12	Nyloc nut	M16		
154	24	Washer	For M16		
155	28	Nut cap	For M16		
200	8	Wooden braces (Provided by customer!)	40 x 60 x 5000mm		
210	1	Lifting belt (Provided by customer!)			
220	12	Steel bar	Ø 8mm x ca.500mm		




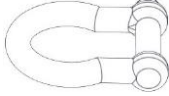


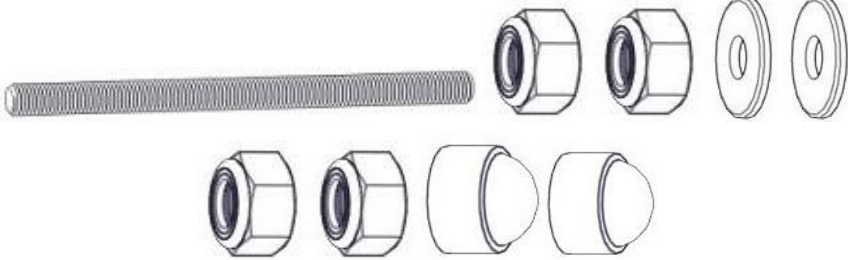
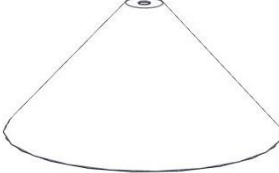





3.2 In symbols

Table 3-2: Delivery contents, in symbols

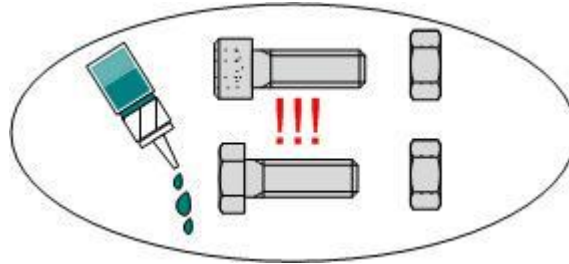
Pos.	Quantity	Symbol
1	1	
2	4	 Ø 18 cm x 7,00 m
3	2	 Ø 18 cm x 1,80 m
4	4	 Ø 18 cm x 5,00 m
5	4	
6	1	

Pos.	Quantity	Symbol
7	4	 <p>A technical drawing of a dome-shaped structure, possibly a climbing dome or a protective enclosure. The structure is composed of a network of interconnected cables or ropes. A significant portion of this network is highlighted in a bright green color, forming a grid-like pattern across the upper and side surfaces of the dome. The drawing shows various connection points, including bolts and rings, securing the structure.</p>
8	4	 <p>A technical drawing of a vertical ladder structure. It consists of two parallel vertical cables or ropes connected by four horizontal rungs. Each rung is attached to the vertical cables using a specific mechanical connector. The bottom of each vertical cable is terminated with a complex, multi-part connector assembly.</p>
9	4	 <p>A technical drawing of a rectangular grid structure. It features a 4x4 grid of interconnected horizontal and vertical cables. Each intersection point in the grid is reinforced with a circular or spherical connector. The four corners of the grid are terminated with larger, more complex mechanical assemblies, likely for mounting or securing the structure to a frame.</p>

Pos.	Quantity	Symbol
10	4	
11	8	
12	16	
13	8	
14	8	
15	8	
16	1	
17	1	
18	1	

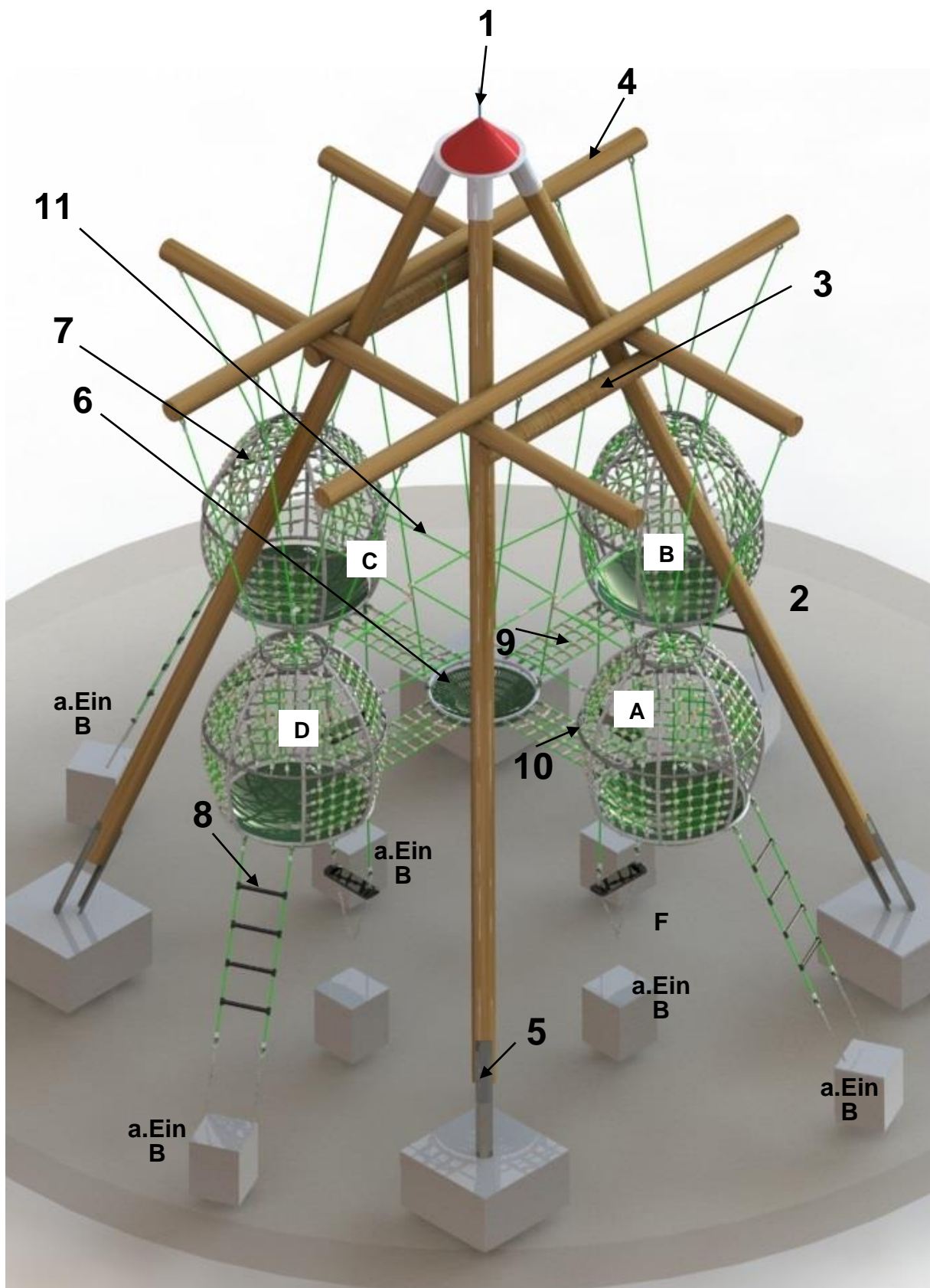
Pos.	Quantity	Symbol
19	20	
20	40	
21	20	
22	16	
23	16	
24	16	
25	1	
26	1	
27	1	
28	2	
200	8	
210	1	
220	12	

Loctite-Thread locking adhesive!

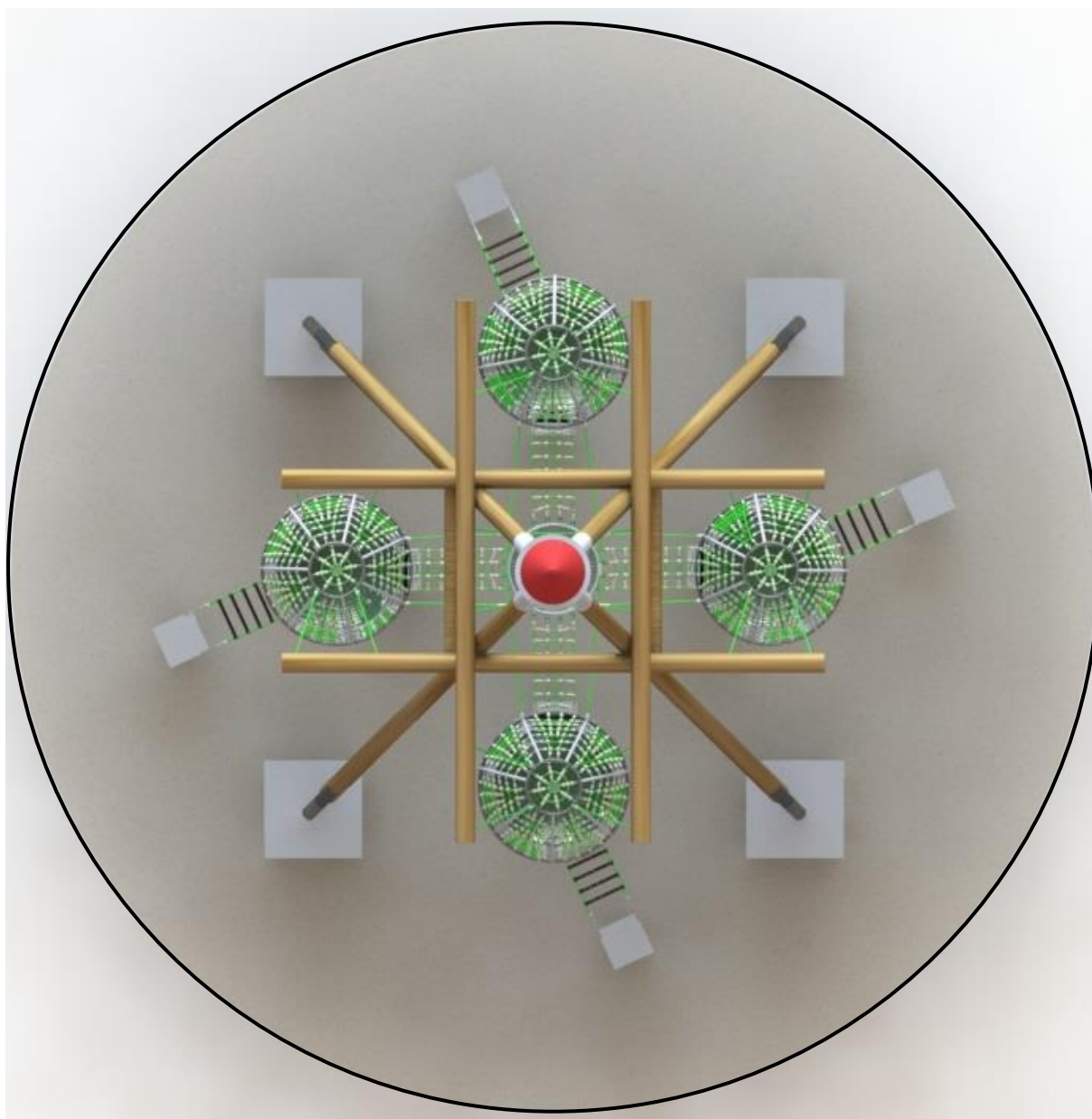


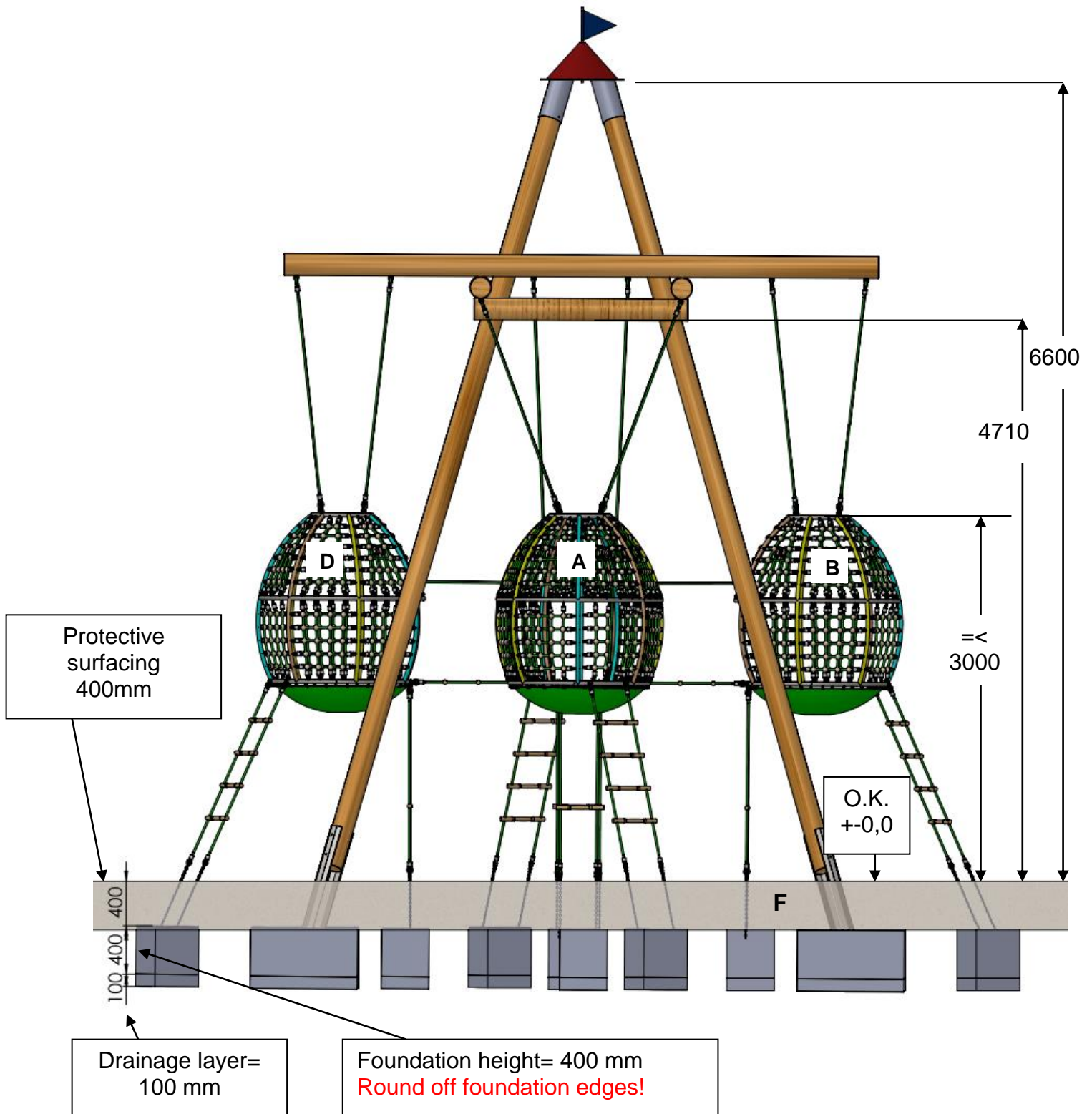
Glue all screws, nuts and sleeves with loctite.
(Not less than 5 drops!)
(Except for lock nuts)

4 Erection Instructions



PS: 78,5 m²



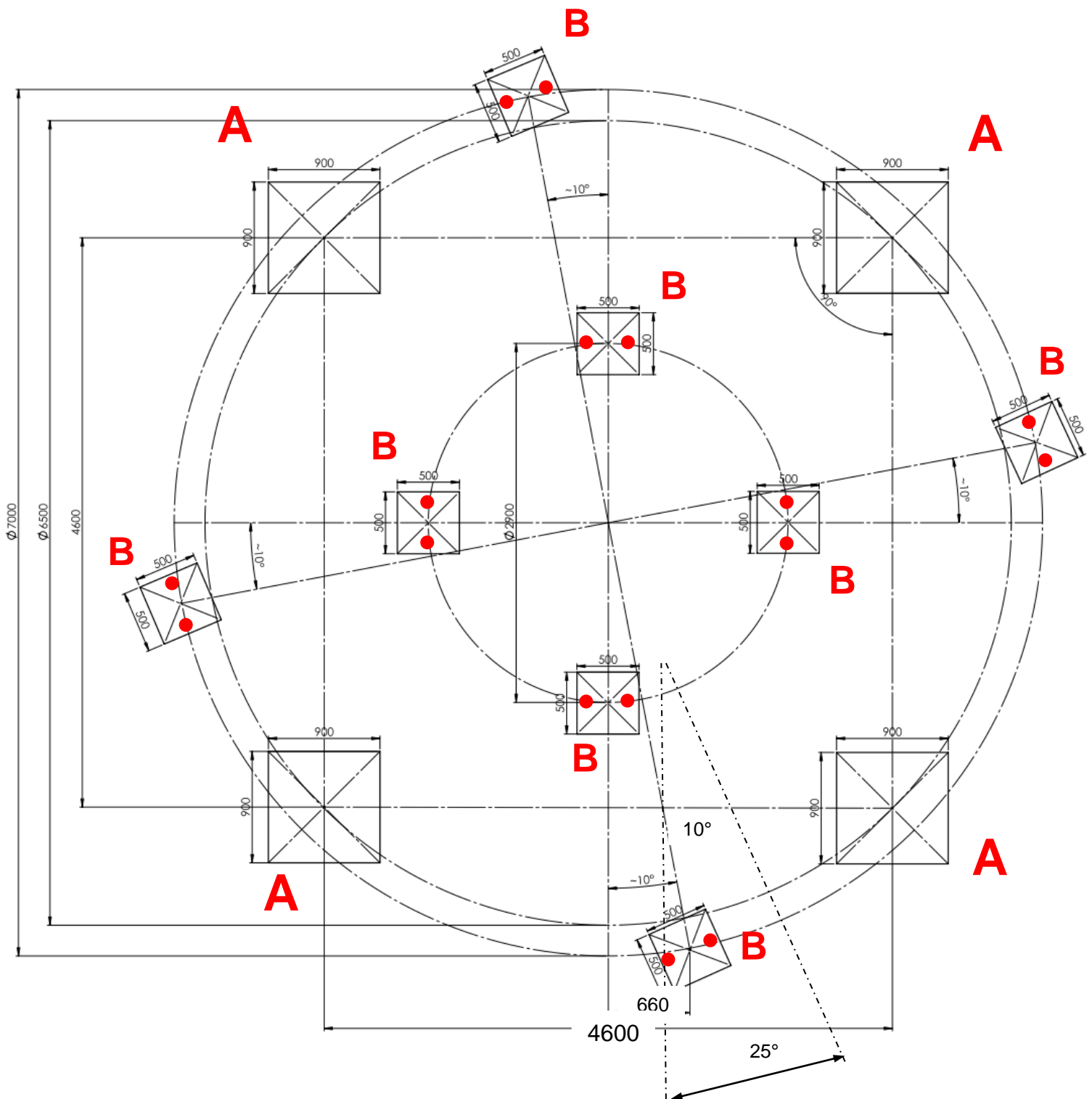


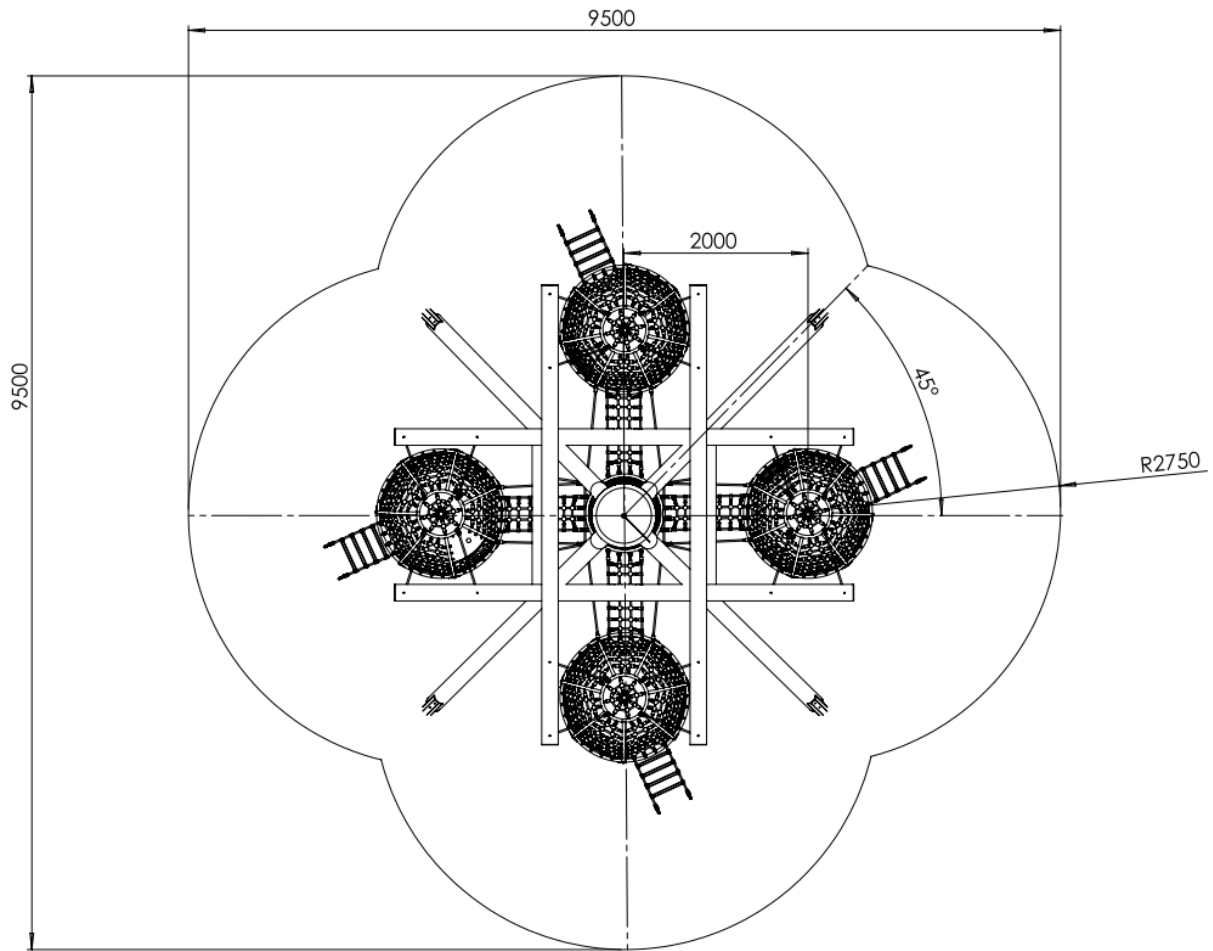
Foundation plane

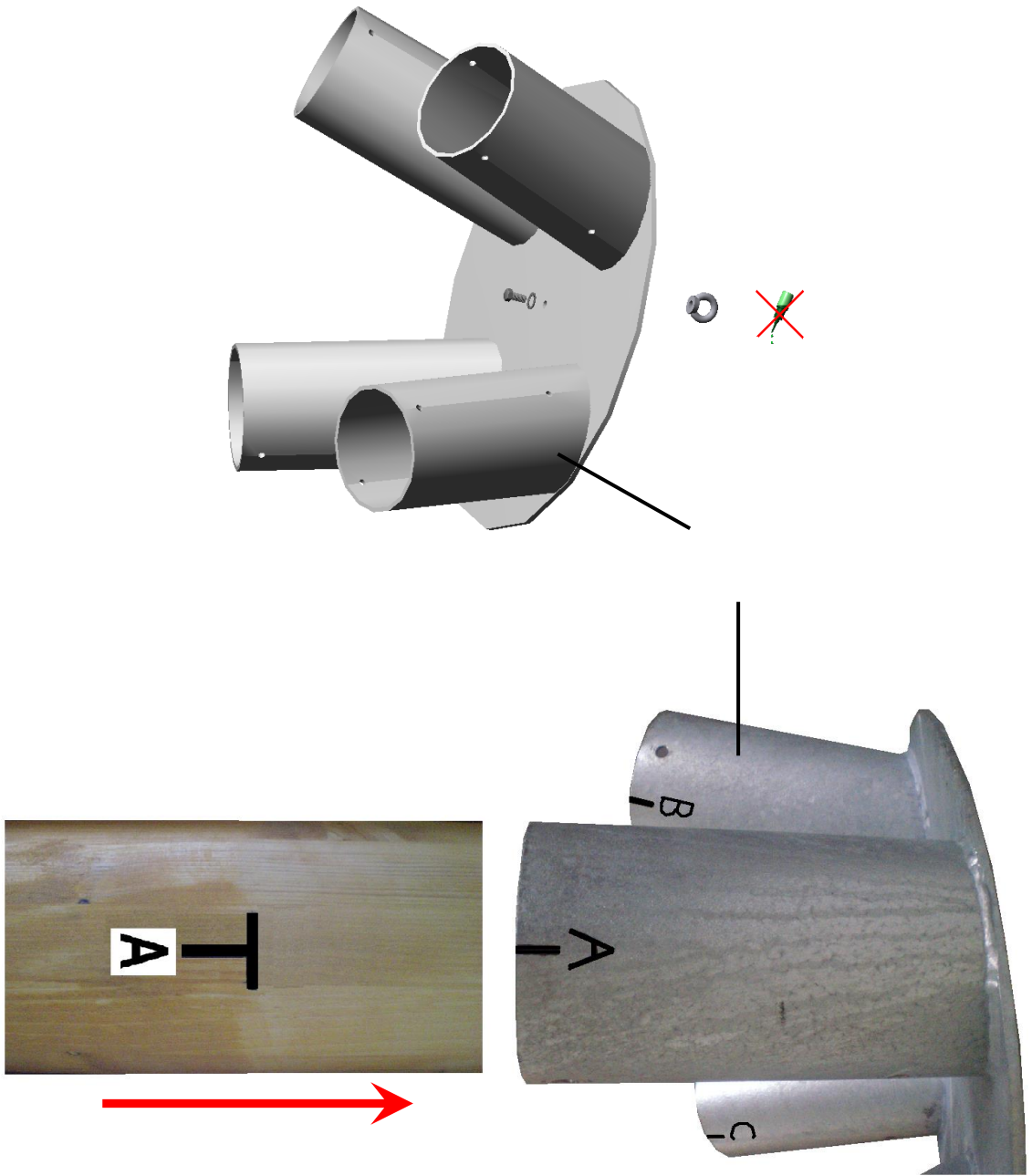
Foundation **A**: 900 x 900 x 400 mm on 100 mm of drainage layer.

Foundation **B**: 500 x 500 x 400 mm on 100 mm of drainage layer.

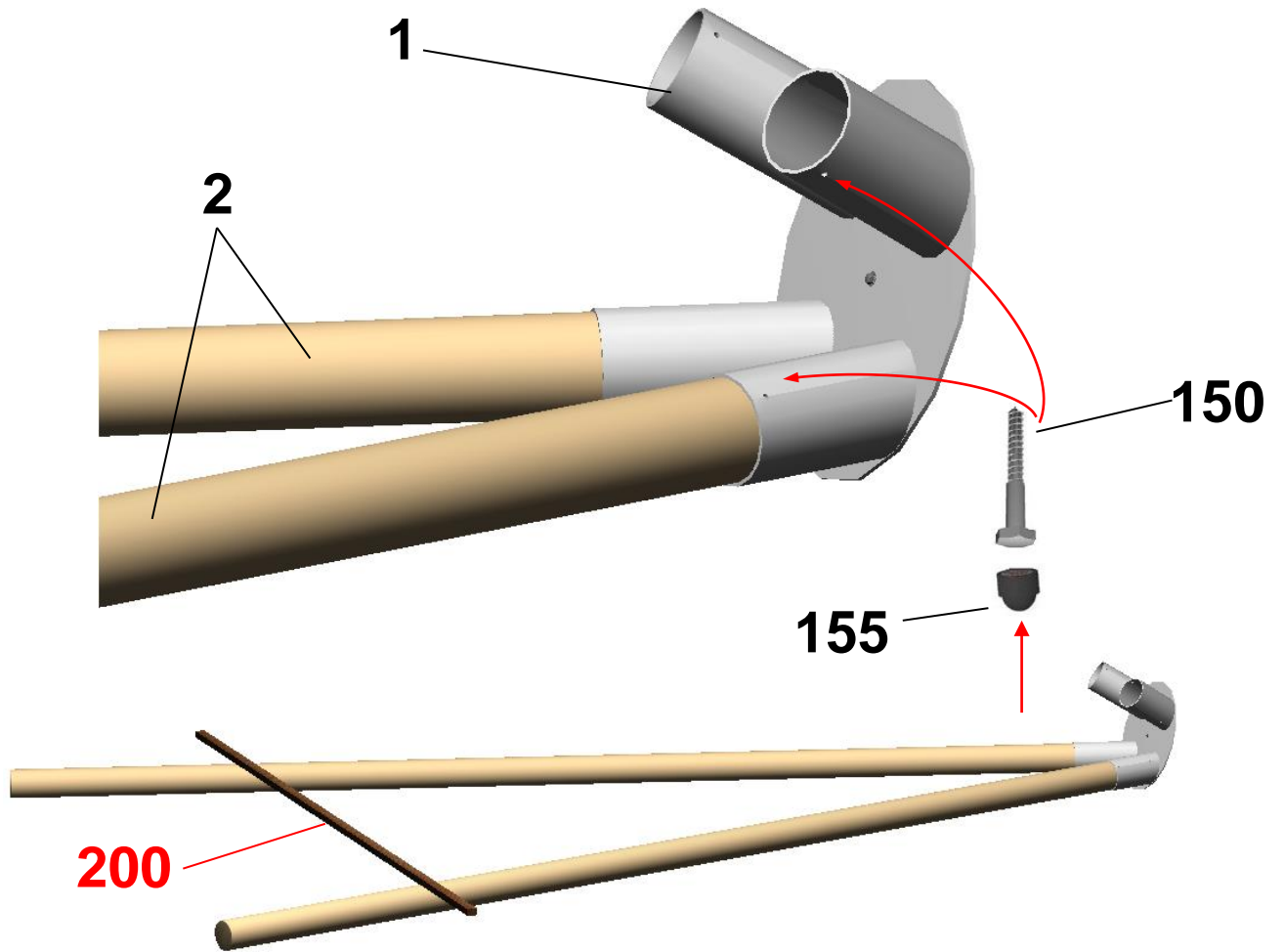
Attention! Anker chains (Pos.23) must be installed in all **B** foundation holes before concrete is poured. Stake down the anker chains 380mm apart and centered to the foundation (See **red** dots in drawing!)

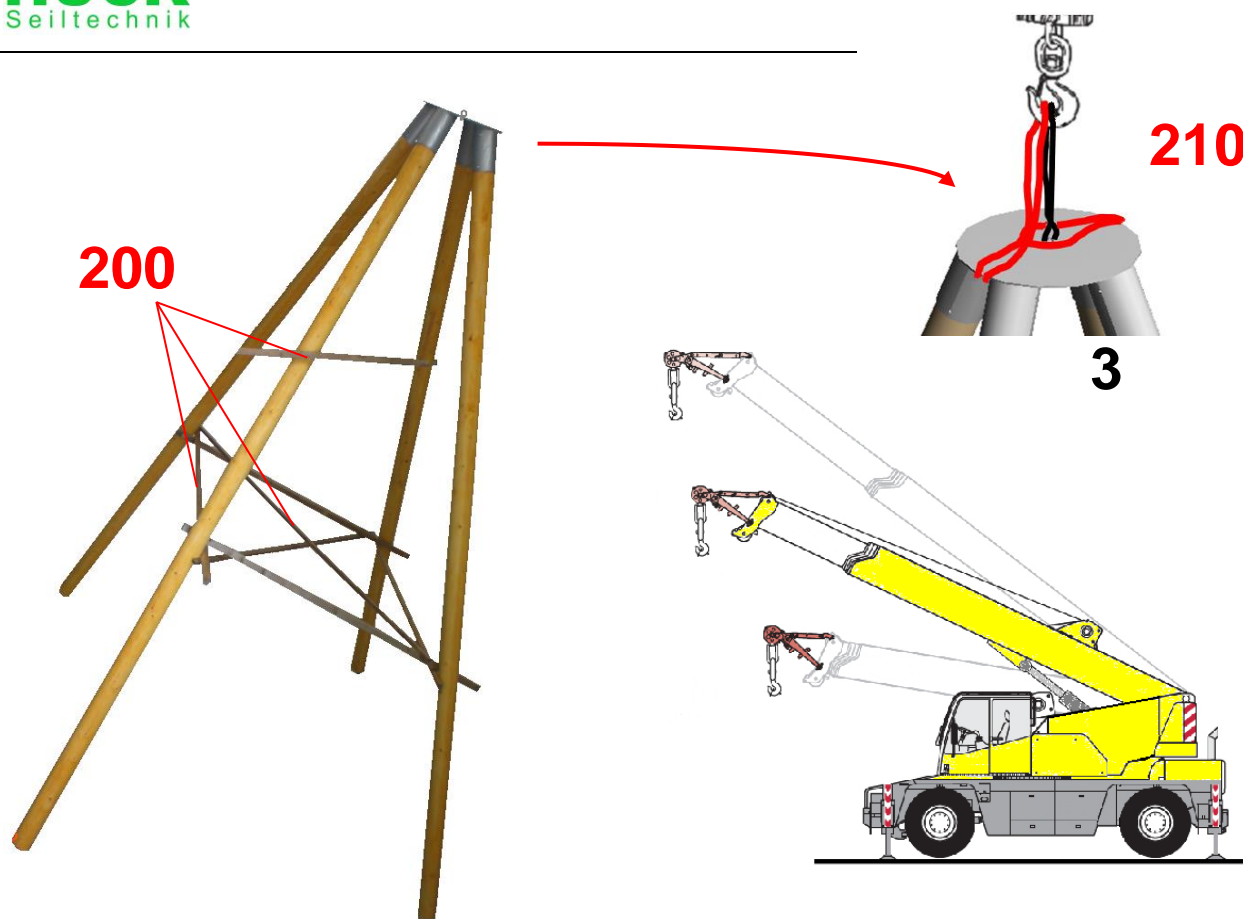


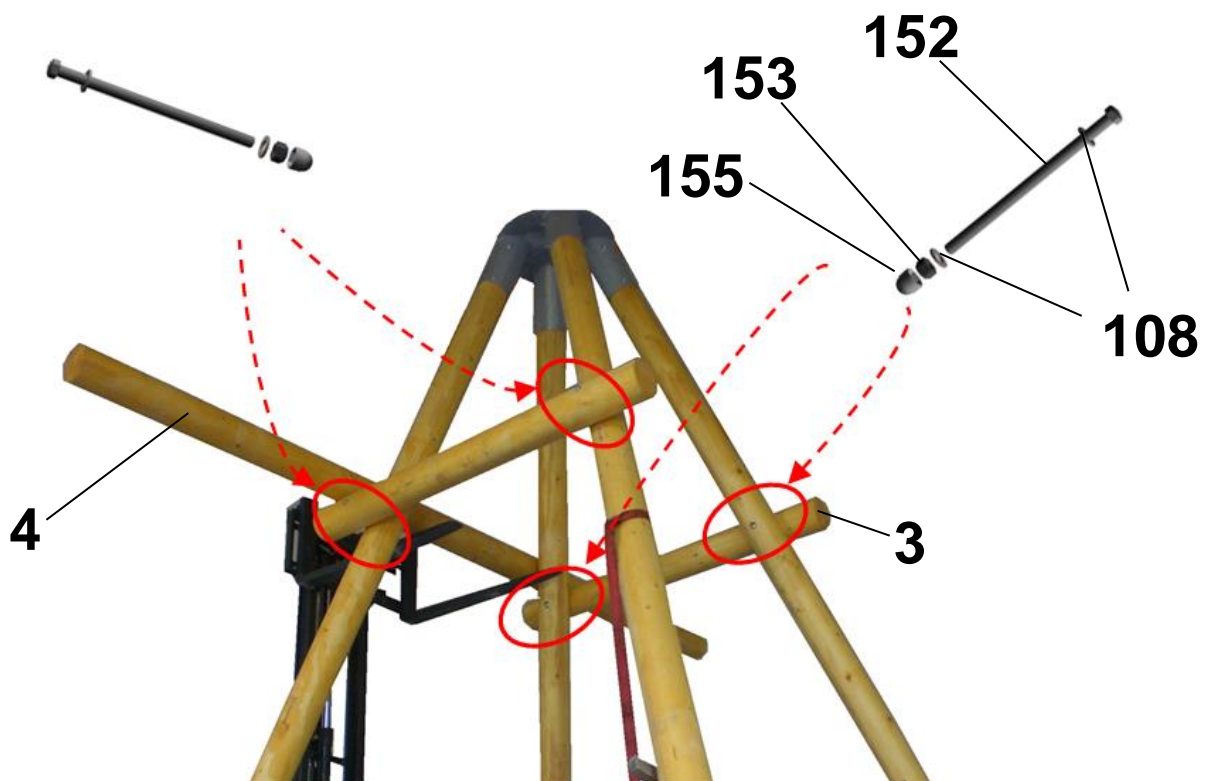
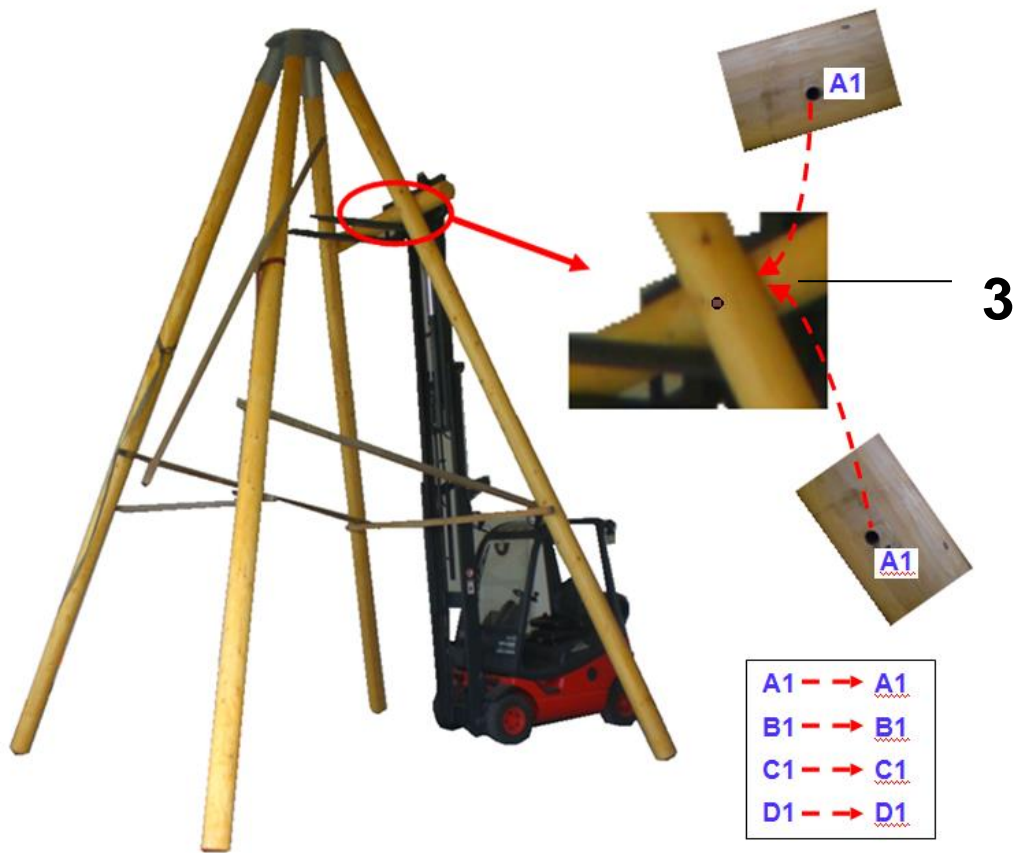


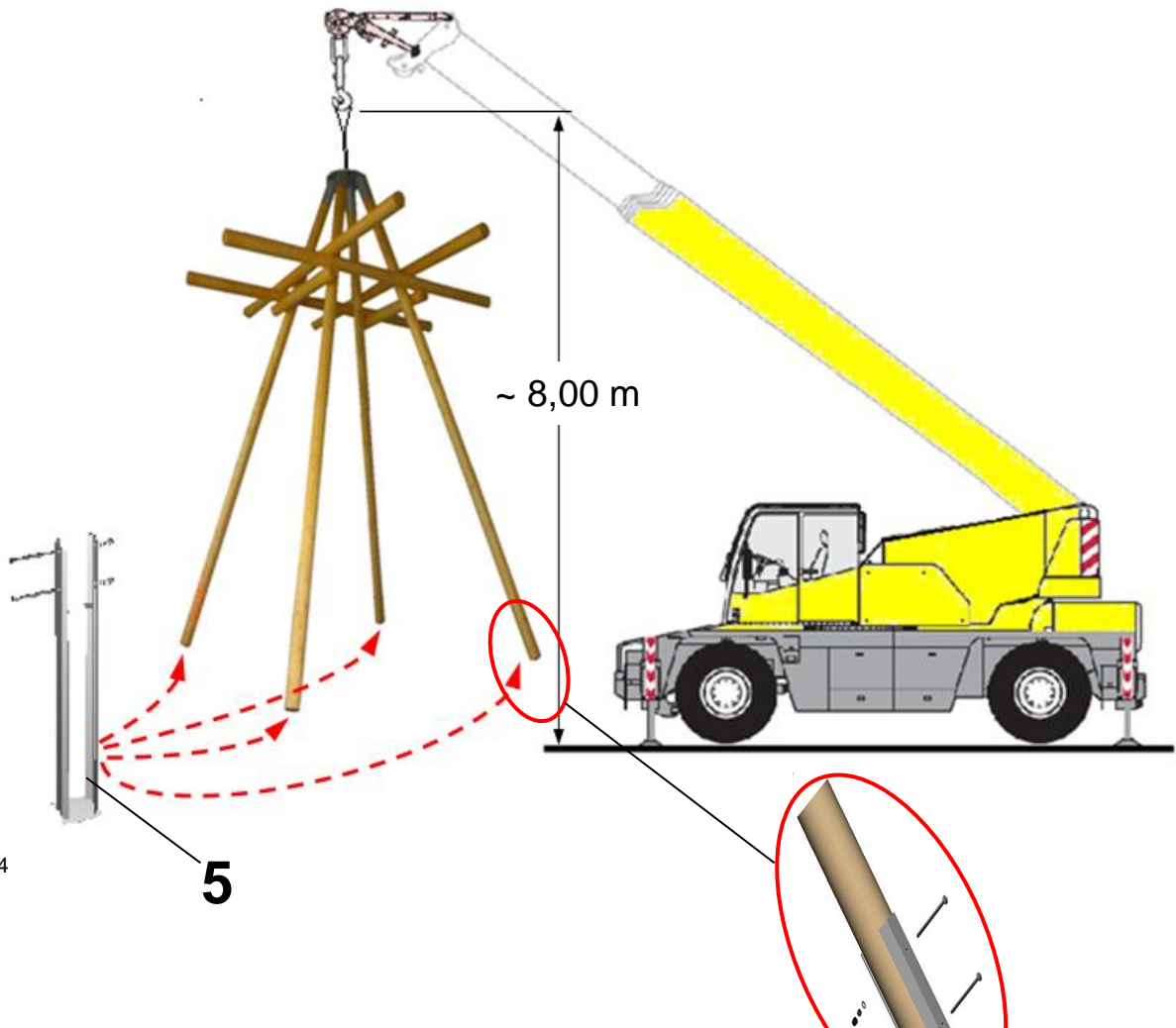
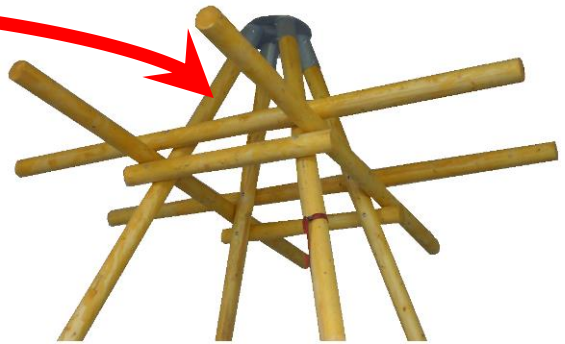


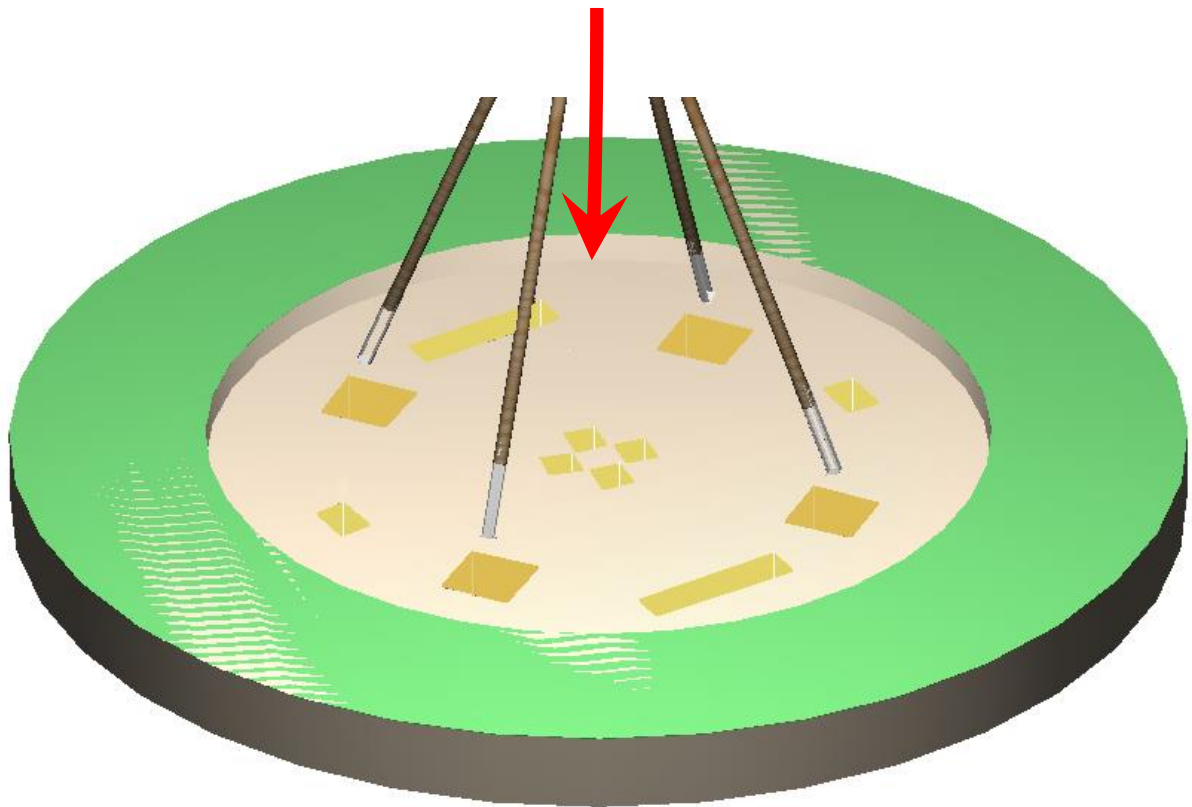
150







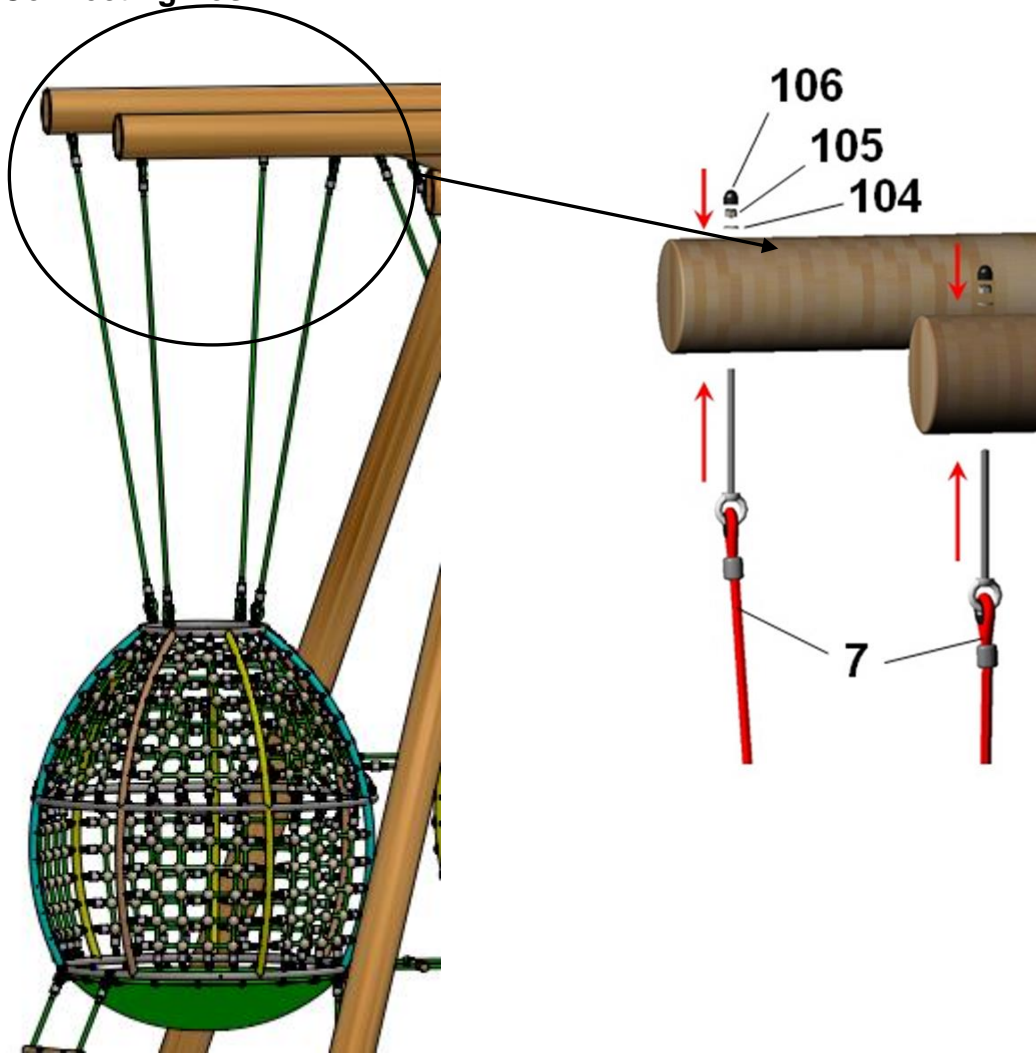




Lift and install the structure into the foundation holes assuring that it is horizontal level. From underneath Pos. to the top of the intended play surface must be a distance of **6600mm**.

After installing all the anker chains in the foundation holes, the concrete can be poured.

1. Connecting Pos. 7

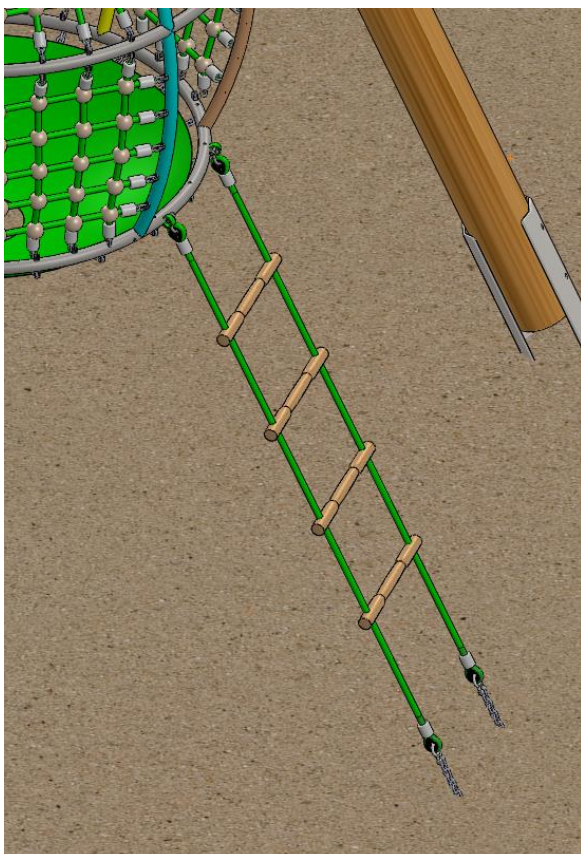
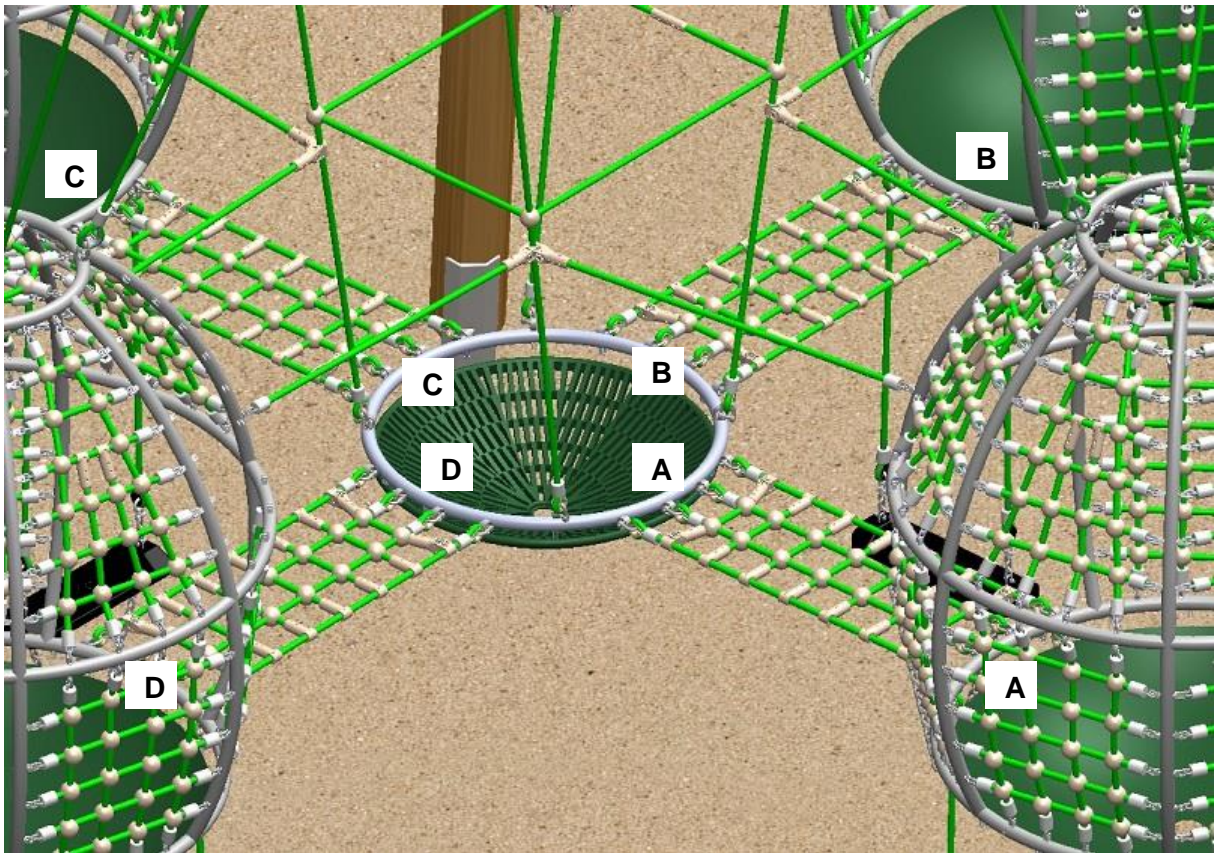


2. Connecting Pos.6 to Pos. 3

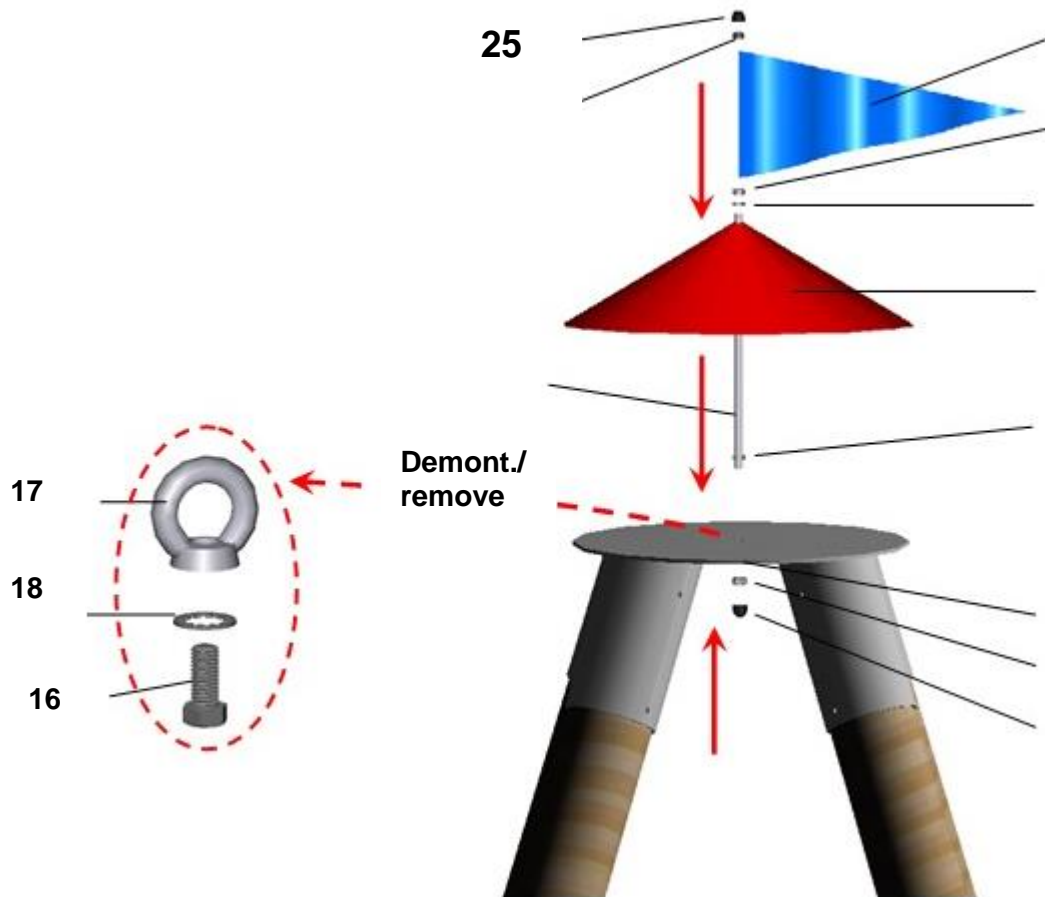



When connecting Pos.6 onto Pos. 4, pay attention that the **“A,B,C & D”** markings are positioned according to the Olives (Pos.4).

3. Connect all Ladders to the Olives.



4. Connecting flag and Cap



	Abbreviations in drawings
a.Ein	View
O.K.	Top of final surfacing
F	Fall protection
 Attention!	<p>Round off foundation edges (min.R = 100 mm)! Sizes of foundations are designed for soils class "4-5" (natural ground).</p> <p>Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion < 30% with bigger diameter of 63 mm grain size).</p> <p>Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion > 30% with bigger diameter of 63 mm grain size).</p> <p>In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!</p>

See drawings for details of shortcuts

5 Post installation checks



If the equipment has not been installed safely, you must ensure that the public is prevented from using it.

5.1 Marking filler depth

- Labelling the posts to show the depth of material provided as fall protection (i.e. loose filler).

5.2 The equipment has not been installed safely in the following cases:

- Installation of equipment is not complete.
- The protective surface has not been installed yet.
- Appropriate maintenance work cannot guarantee operational safety.

5.3 Removal of all assembly aids

- Please make sure that all assembly aids have been removed from the playing area. The equipment must not be approved for use until this check has been carried out.

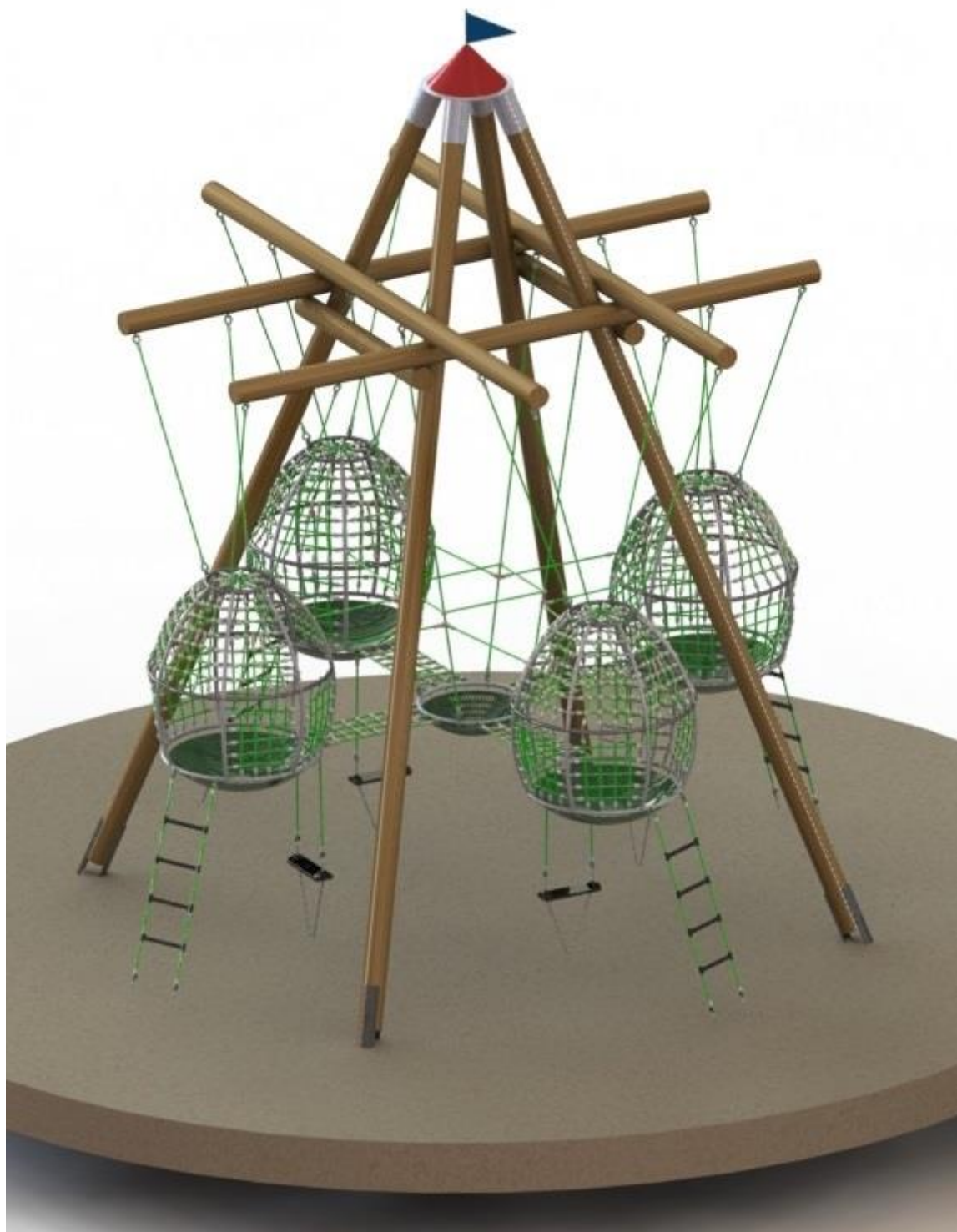
5.4 Information about inspection of the equipment before it is used for the first time

- There are no special inspection requirements to be met before the equipment is used for the first time.

5.5 Retighten bolts

- After one week of play, please retighten all bolts again. Later upon respective maintenance.

Maintenance Instructions Olive Tree 4652-24



Revision history

Revision 0 – 2019-04-03

The first allowed version

Maintenance instructions

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6 Introduction Maintenance

6.1 General informations

This equipment should be installed, inspected, maintained and operated in accordance with EN 1176-7 guidelines.



Notice

Please note: Providing any necessary repairs are carried out, a piece of play equipment that is inspected regularly cannot become so damaged that it is dangerous.

Any spare parts which may be required can be obtained directly from your supplier.



Attention

This equipment should only be assembled, maintained and repaired by **persons with the necessary expertise.**

A copy of the inspection record should be given to the operator, who must confirm receipt.

”.

7 General maintenance information

7.1 Maintenance intervals

Maintenance intervals are based on average use. Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

7.2 Inspection frequency

The frequency of inspections must be based on actual use. Factors that affect frequency include vandalism, location (e.g. coastal proximity), air pollution and the age of the equipment.

7.3 Maintenance products and procedures

All nuts and bolts are hot-dip galvanised or stainless steel. One of the characteristics of stainless steel is that uncontrolled cold welding may occur when the nuts are tightened. To prevent this, it is necessary to spray the nuts and bolts with Teflon spray or another similar lubricant.

7.4 Spare parts

All spare parts must conform to the manufacturer's specifications.

7.5 Identifying spare parts

All spare parts are listed in the parts list. The parts list follows the installation requirements.

7.6 Special instructions for the disposal of individual equipment components

No special instructions are necessary.

7.7 Special measures during the break-in period

No later than 2 weeks after assembly, all screwed connections should be checked and tightened if necessary.

7.8 Maintenance of protective surfaces

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary.

7.9 Faults



Damages must be repaired as soon as they are detected. If serious defects that affect the safety cannot be repaired straight away, the playground item must be blocked with immediate effect.

7.10 Loose screws



Loose screws always cause quality problems and put safety at risk. Therefore, loose screws should always be tightened and checks carried out to ensure that there are no missing screws.

7.11 Preventing equipment use

Use of the equipment should be prevented in the event of incomplete installation, disassembly, maintenance, repairs and faults.

7.12 Claims/liability for faults (steel poles)

Steel posts and footings are covered by our guarantee if regular maintenance is carried out and recorded in writing.

Our general terms and conditions apply. Maintenance of steel poles first takes place after 3 years. The steel posts must be excavated down to the concrete foundations and checked for corrosion.

Zinc paint should be applied to any corroded areas and scratches.

Check ropes for abrasion, replace ropes where coating is damaged down the Steel inlet.

8 Maintenance timetable

8.1 Special advices

8.1.1 Maintenance interval

We strongly advise you to carry out inspections and maintenance work within the specified periods as use of the equipment, the weather and malicious vandalism cause wear and tear that compromises the safety and function of the equipment.

8.1.2 Maintenance intervals in the event of intensive use

Please note that more frequent inspections and/or maintenance are required if the play equipment is subject to intensive use.

8.1.3 Faults that compromise safety



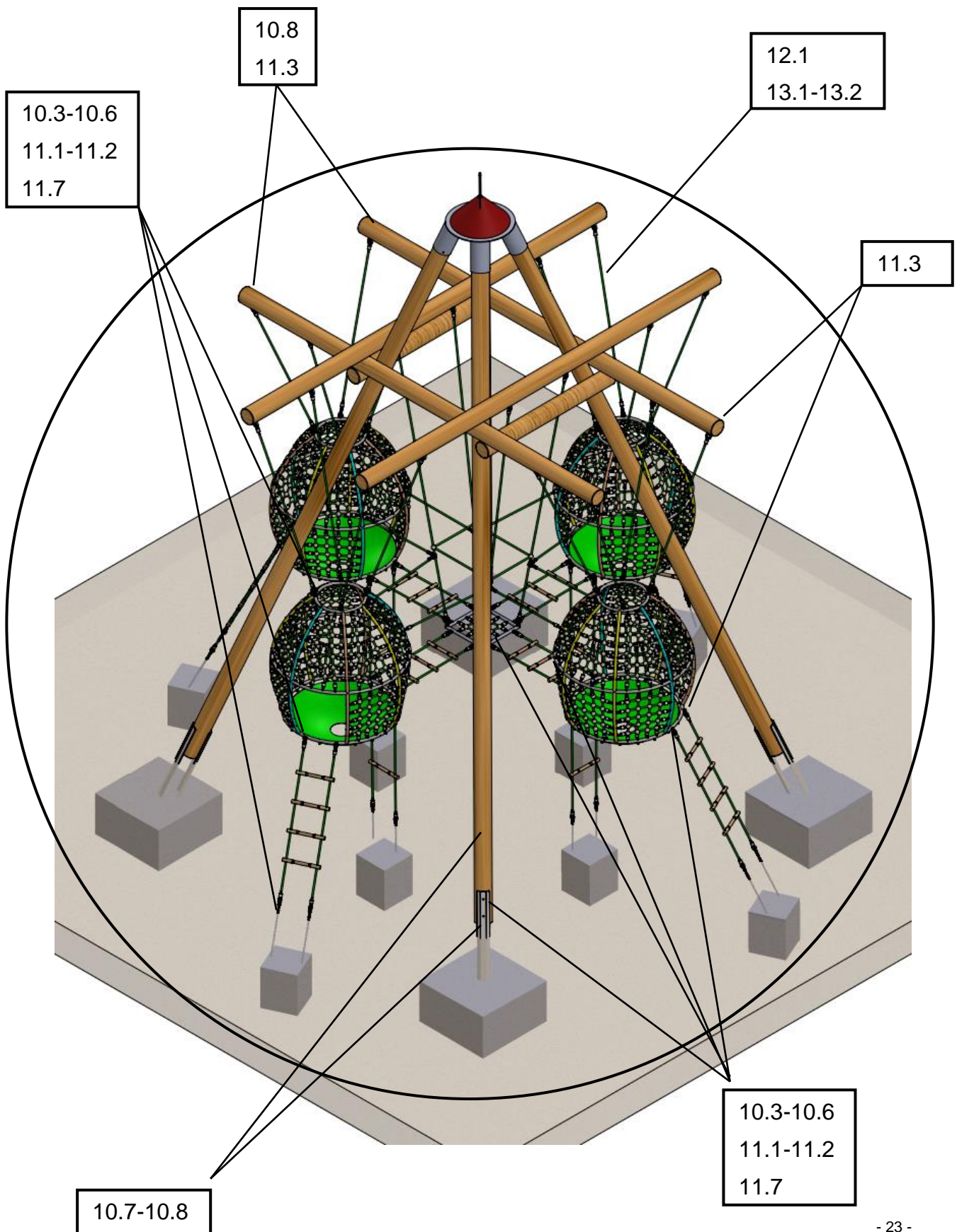
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

8.1.4 Faults that compromise function



Faults that compromise function should also be repaired immediately. Such faults lower the value of the equipment to the user and encourage malicious vandalism, which may render the equipment less safe. Any damage should also be repaired immediately.

9 Regular maintenance



Monthly maintenance

- 9.1 Check the spaces between the equipment and the ground (clearance and height of fall).
- 9.2 Check the ground surface of fall protection for hard objects and loose foundations.
- 9.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- 9.4 Check that moving metal parts (joints, springs, etc.) move smoothly and are not worn. Replace if necessary. It is not necessary to lubricate joints as we only use maintenance-free metal roller bearings.
- 9.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- 9.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- 9.7 If necessary, remove excess padding material from the post footings due to danger of rotting.
- 9.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- 9.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

10 Quarterly maintenance

- 10.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- 10.2 Tighten all forms of attachment.
- 10.3 Repaint and retreat surfaces.
- 10.4 Maintenance of fall protection surfaces.
- 10.5 Lubrication of joints.
- 10.6 Check height of fall protection material and top up with loose filler if necessary. If the posts are labelled, top up to the mark.
- 10.7 Retighten all bolts.

11 Half yearly maintenance

- 11.1 The stability of supporting posts, supports, foundations etc. has to be checked. The safety level of the entire system has to be checked after repairs have been carried out or additional system components have been installed or replaced.



Annual Maintenance

12 Annual maintenance

- 12.1 Ascertaining that the equipment, foundations and surfaces are safe for operation.
- 12.2 In particular, the equipment should be checked for decay and corrosion. It may be necessary to dig out or excavate certain components in order to do so. Zinc paint should be applied to corroded areas and scratches.



The equipment must be inspected by someone **with the necessary expertise** in strict compliance with the instructions issued by Huck Seiltechnik GmbH.

A copy of the inspection record should be given to the operator, who must confirm receipt.

13 Maintenance printout

Name of item: Olive Tree _____ / Art. No. 4652-24 _____

Location: _____

Customer or operator: _____
 (Town, Town council, Kindergarten)

Date of inspection	Inspector	O.K.	Accessible	Barriered	Defects	Repaired by	Date

Please copy and return once a year after main inspection has been carried out to the manufacturer by Telefax +49(0)6443/ 83 11 79!
Place the confirmation form in the play equipment files.

14 Hand over document



After the installation of the equipment pass the installation and maintenance documents to the operator. The operator has to receive the hand over documents. The complete filled and signed hand over document should be sent to the supplier.

Art.-No.: 4652-24

Type of item: Olive Tree

Serial number: _____

Customer or operator (Town, Town council, Kindergarten, etc.):

Competent person in charge:

Installation company (address):

Responsible assistant (assembler):

Received the complete assembly instructions, maintenance instructions and maintenance printout .

(Signature of operator) (Signature of installation company)
(Stamp)

Date: _____