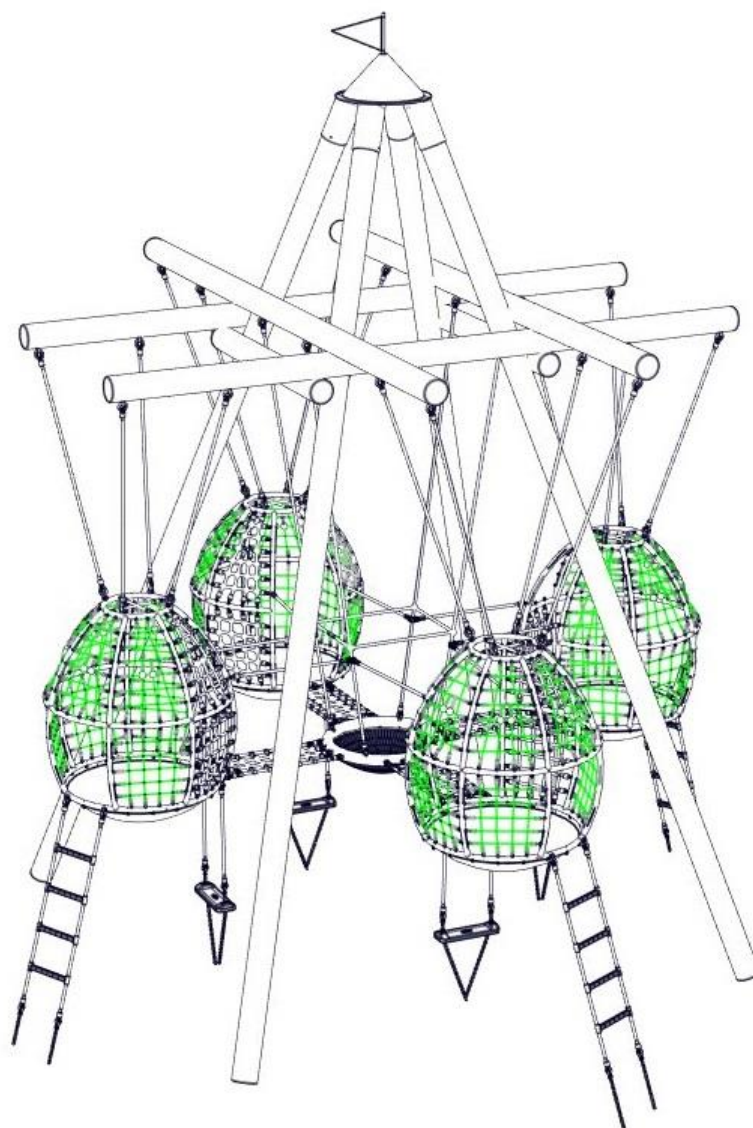


## **A Assembly Instructions**

### **Olive Tree Art. 4652-24**



**Operator:** \_\_\_\_\_

**Location:** \_\_\_\_\_

**Revision history**

Revision 0 – 2019-04-03

The first allowed version

Assembly instructions

Revision 1 – 23-02-2023

Neue form der Anleitung ZM

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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

- Space requirement: 6,60 m x 6,60 m  
 Minimum space: 9,50 m x 9,50 m  
 Drop height: 3,00 m  
 Device height 7,15 m  
 Fall protection surfaces: 61,4 m<sup>2</sup>

[The Images \(individual drawings\) are not to scale !!](#)

- 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		

- Name and overall dimension of the largest component:  
 Wooden post (4 pieces) length 7,00m, ø 180 mm
- Name and weight of the heaviest component:  
 Wooden post (1 piece), approx. 157 kg
- Intended age group: 6 years and over
- Please note that this equipment is set in concrete.**  
 Concrete: C25/30  
 Required concrete: **2.1 m<sup>3</sup>**  
 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

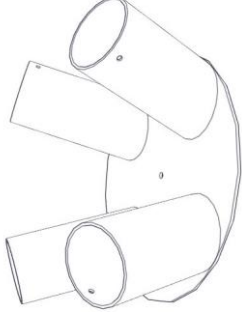

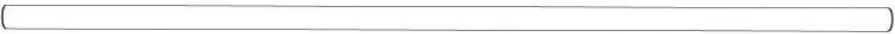


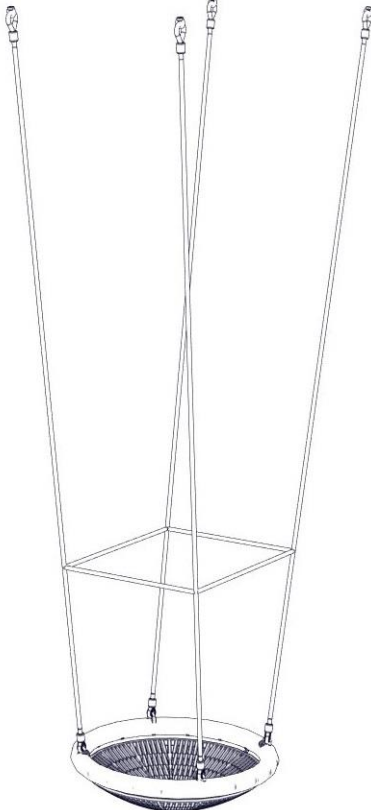
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Head plate for olive tree			
2	4	Wood posts	Ø 180 mm x 7,00 m		
3	2	Wood posts	Ø 180 mm x 2,00 m		
4	4	Wood posts	Ø 180 mm x 5,00 m		
5	4	Post footings, With 2x Carriage bolt, 2x washer, 2x Nyloc nut, 2x nut cap			
6	1	Mini-M-Nest with suspension ropes			
7	4	Olive Basket			
8	4	Vertical Ladder – Pre-fitted on Pos.7			
9	4	Horizontal Ladder – Pre-fitted on Pos.7			
10	4	Swing to olive			
11	8	Handrail rope			
13	8	Sleeve screw	M6 x 20mm		
14	8	Sleeve nut	M6 x 25		
16	1	Hexagon head screw	M16 x 30 mm (for the structure)		
17	1	Ring nut	M16 (for the structure)		
18	1	Washer	M16 (for the structure)		
19	20	Stop nut	M12		
20	40	Washer	Ø 13 mm		
21	20	Nut cap	For M12		
22	12	Chain adapter	M8		
23	12	Anker chain	7mm x 800 mm		
25	1	Threaded rod, 2x nut, 2x washer, 2x nyloc nut, 2x nut cap	M12 x 620mm		
26	1	Red cover GRP	Ø 575 mm		
27	11	Flag/ blue			
28	2	Loctite- Bolt glue			

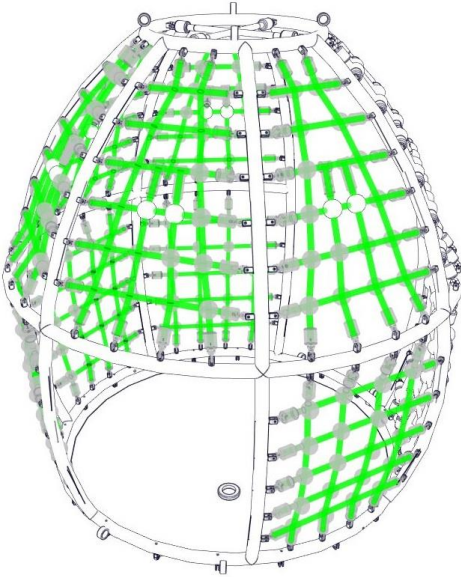
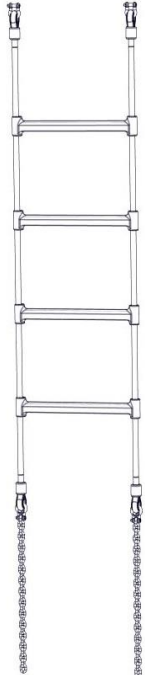
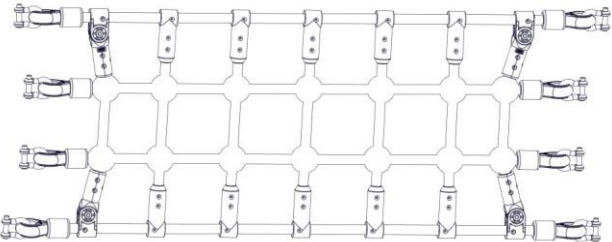


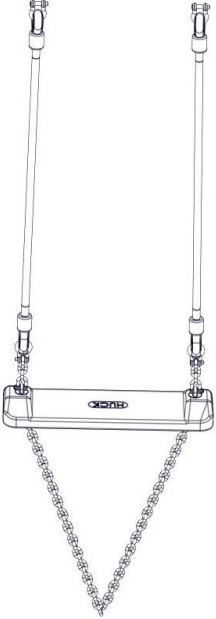

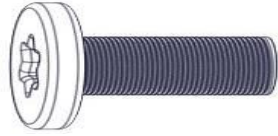
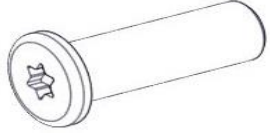
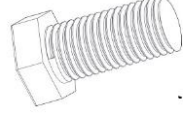
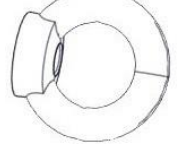

Pos.	Quantity	Element / Description	Size	O.K.	Missing
		<b>For post shoes</b>			
<b>100</b>	4	Post footings			
<b>101</b>	8	Carriage bolt	M12 x 230		
<b>102</b>	8	Washer	For M12		
<b>103</b>	8	Stop nut	M12		
<b>104</b>	8	Nut cap	For M12		
		<b>Fastening frame</b>			
<b>150</b>	16	Wood screw	10mm x 60mm		
<b>151</b>	16	Washer	For 10mm		
<b>152</b>	12	Bolt	M16 x 400mm		
<b>153</b>	12	Nyloc nut	M16		
<b>154</b>	24	Washer	For M16		
<b>155</b>	16	Nut cap	For M10		
<b>156</b>	12	Nut cap	For M16		
<b>200</b>	<b>8</b>	<b>Wooden braces (Provided by customer!)</b>	<b>40 x 60 x 5000mm</b>		
<b>210</b>	<b>1</b>	<b>Lifting belt (Provided by customer!)</b>			
<b>220</b>	<b>12</b>	<b>Steel bar</b>	<b>Ø 8mm x ca.500mm</b>		



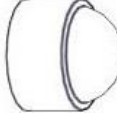
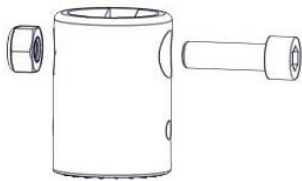

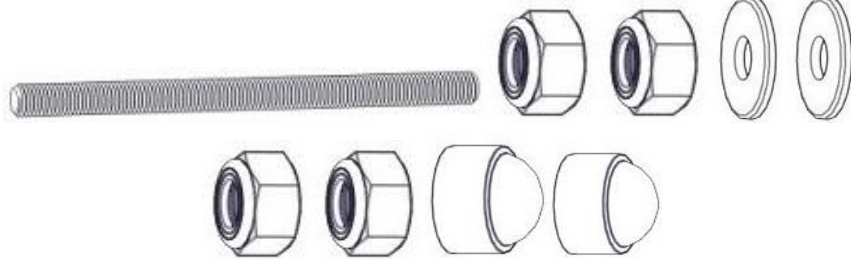
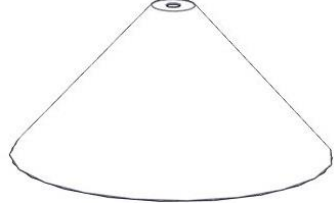
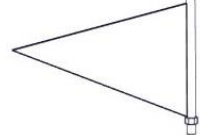
### 3.2 In symbols






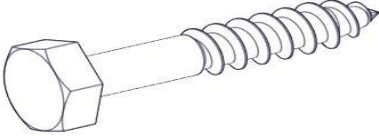

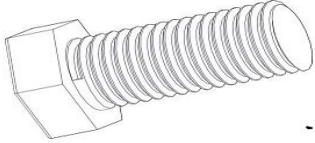
Table 3-2: Delivery contents, in symbols



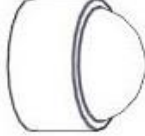
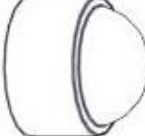



Pos.	Quantity	Symbol
1	1	
2	4	 Ø 18 cm x 7,00 m
3	2	 Ø 18 cm x 1,80 m
4	4	 Ø 18 cm x 5,00 m
5	4	
6	1	

Pos.	Quantity	Symbol
7	4	 <p>A technical drawing of a spherical climbing structure. It features a complex grid of green lines forming a dome-like shape. The structure is supported by a white metal frame with various joints and connectors. The drawing is a perspective view from the top.</p>
8	4	 <p>A technical drawing of a vertical climbing ladder. It consists of two parallel vertical ropes connected by four horizontal rungs. The ropes have specialized connectors at both ends, and the rungs are attached to the ropes with specific hardware.</p>
9	4	 <p>A technical drawing of a horizontal climbing structure. It features a grid of horizontal and vertical ropes. The ropes are connected at various points using specialized hardware, including what appears to be a central hub and several side connectors. The structure is shown from a top-down perspective.</p>

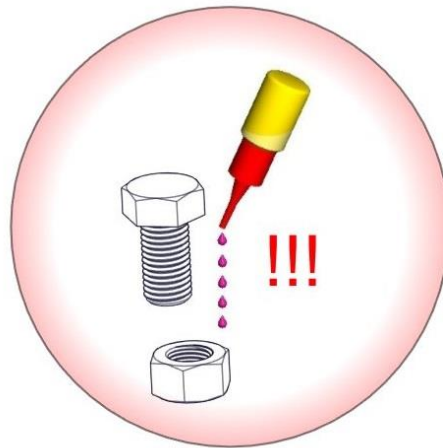
Pos.	Quantity	Symbol
10	4	
11	8	
13	8	
14	8	
16	1	 M16 x 30 mm (for the structure)
17	1	 M16 (for the structure)
18	1	 Ø 17 mm (for the structure)

Pos.	Quantity	Symbol
19	20	 M12
20	40	 Ø 13 mm
21	20	 M12
22	16	 Chain adapter M12
23	16	 Fixed anchor
25	1	
26	1	
27	1	

Pos.	Quantity	Symbol
		<b>For post shoe</b>
100	4	
101	8	 M12 x 230
102	8	 Ø 13 mm
103	8	 M 12
104	8	 M12
		<b>Fastening frame</b>
150	16	 10x60 mm VA
151	16	 Ø 10 mm VA
152	12	 M16x400 mm vz

Pos.	Quantity	Symbol
153	12	 M16
154	24	 Ø 17 mm
155	16	 M10
156	12	 M16
200	8	
210	1	
220	12	

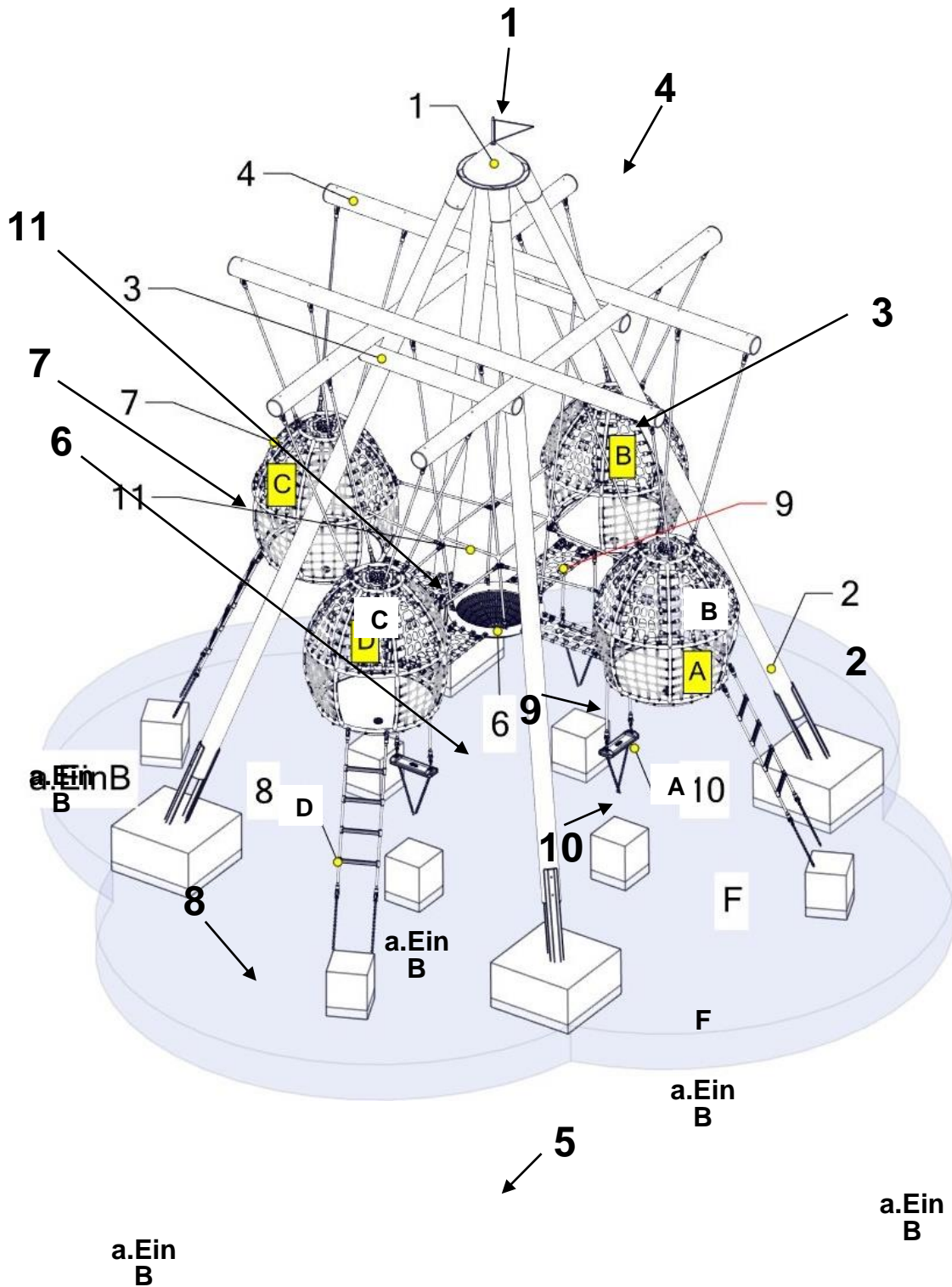
## **Screw lock !!!!!**



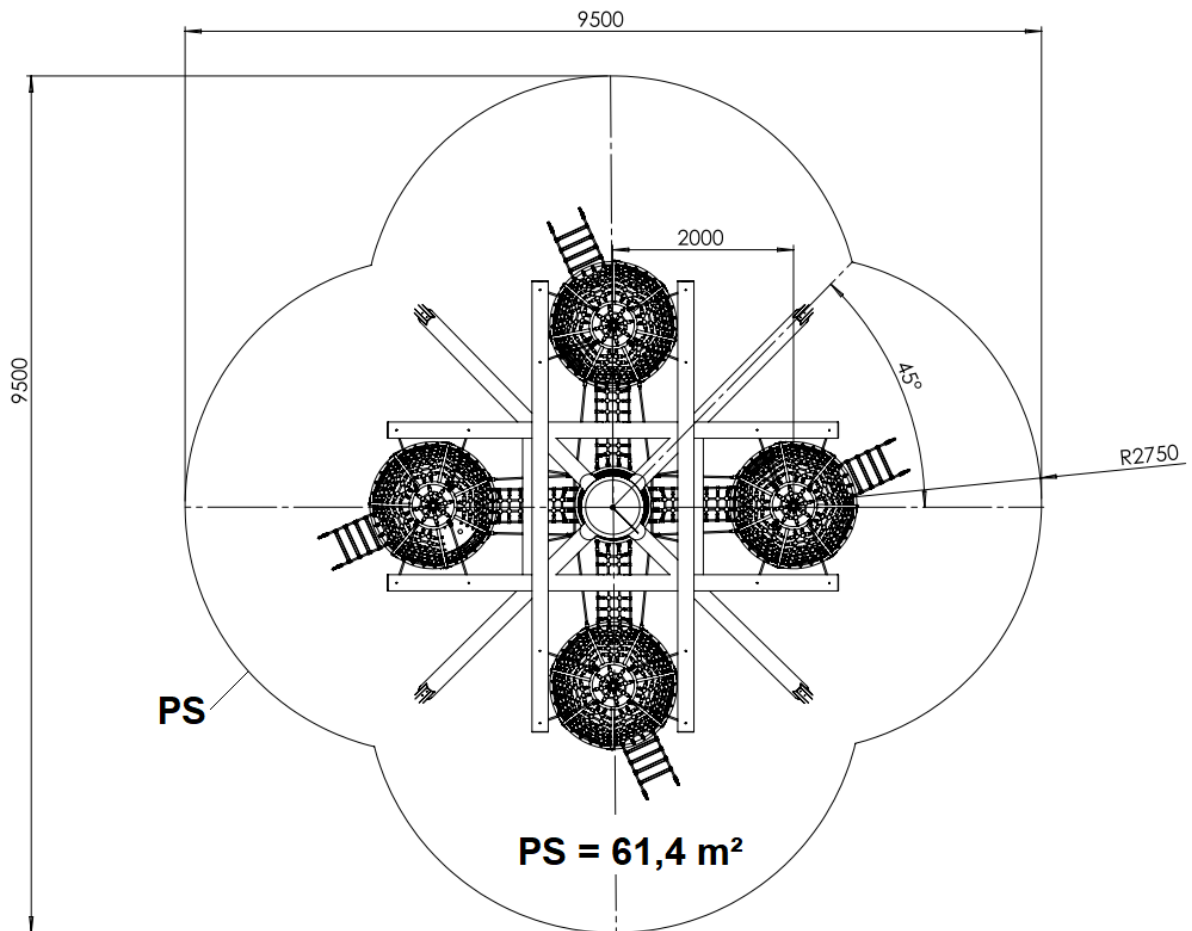
**All screws, nuts and sleeves  
(e.g. Torx sleeve) must be secured with  
be secured with Loctite!  
(at least 5 drops)  
(except stop nuts)**

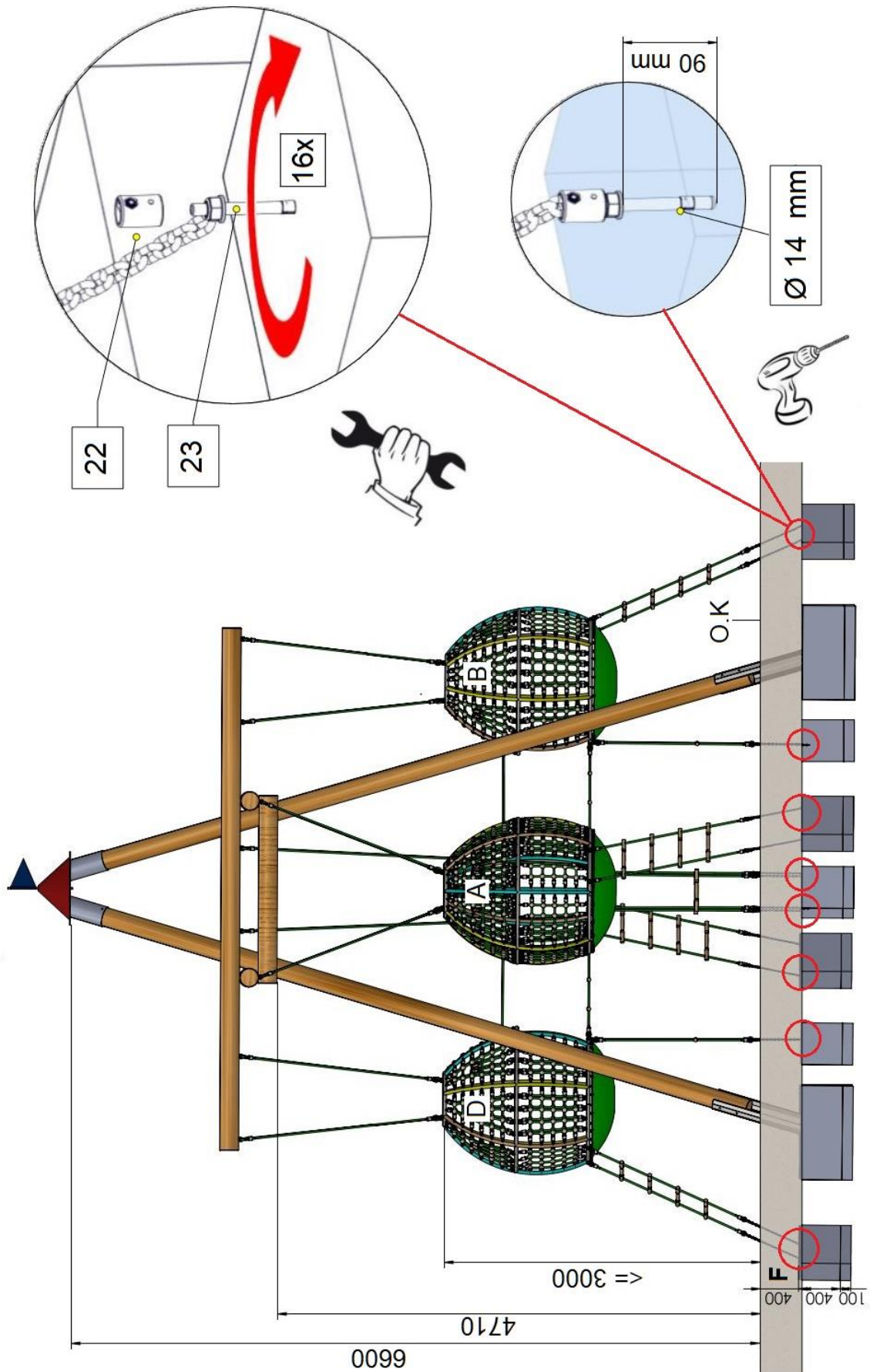


## 4 Erection Instructions



PS: 61,4 m<sup>2</sup>



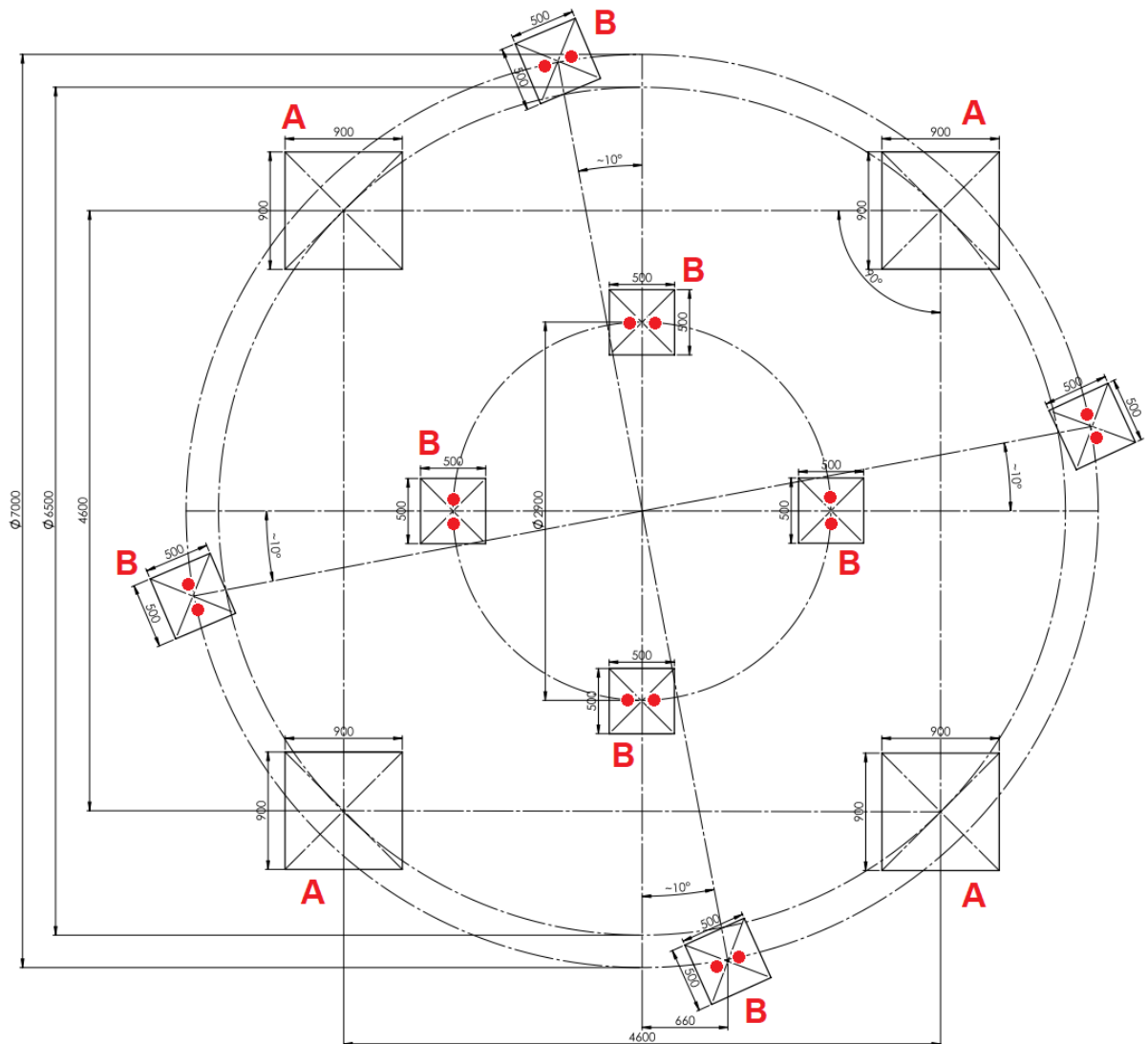


## Foundation plane

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 Foundation **B**: Set chains (24) in concrete vertically and centrally at a distance of approx. 380 mm. These must be anchored approx. 200 mm deep in the foundation.



**Aufgrund der natürlichen Eigenschaft von Holz können Wärme und Feuchtigkeit zu unterschiedlichen Querschnitten führen.**

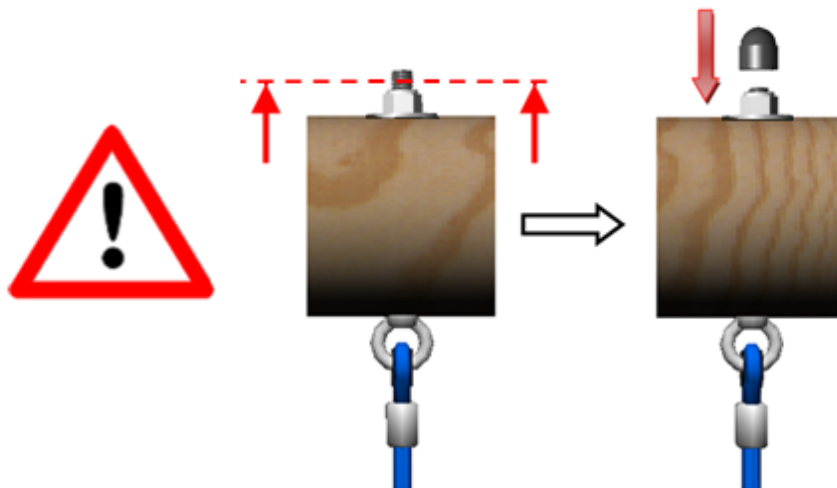
z.B. Pfosten Ø 180 mm (Toleranz 173mm – 183mm)

**Dadurch sind mögliche Überlängen der Augenschrauben bzw. Lager zu kürzen!**

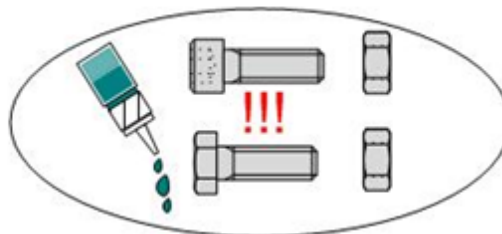
**Wir empfehlen für das Anpassen der Bolzenlänge eine Stichsäge mit Stahlblatt zu verwenden.**

**Durch die bei Verwendung eines Trennschleifers entstehenden Funken kann sich die Oberfläche der Hölzer entsprechend verdunkeln.**

**(Optischer Mangel, keine Beeinträchtigung der Standsicherheit und Spielfunktion).**

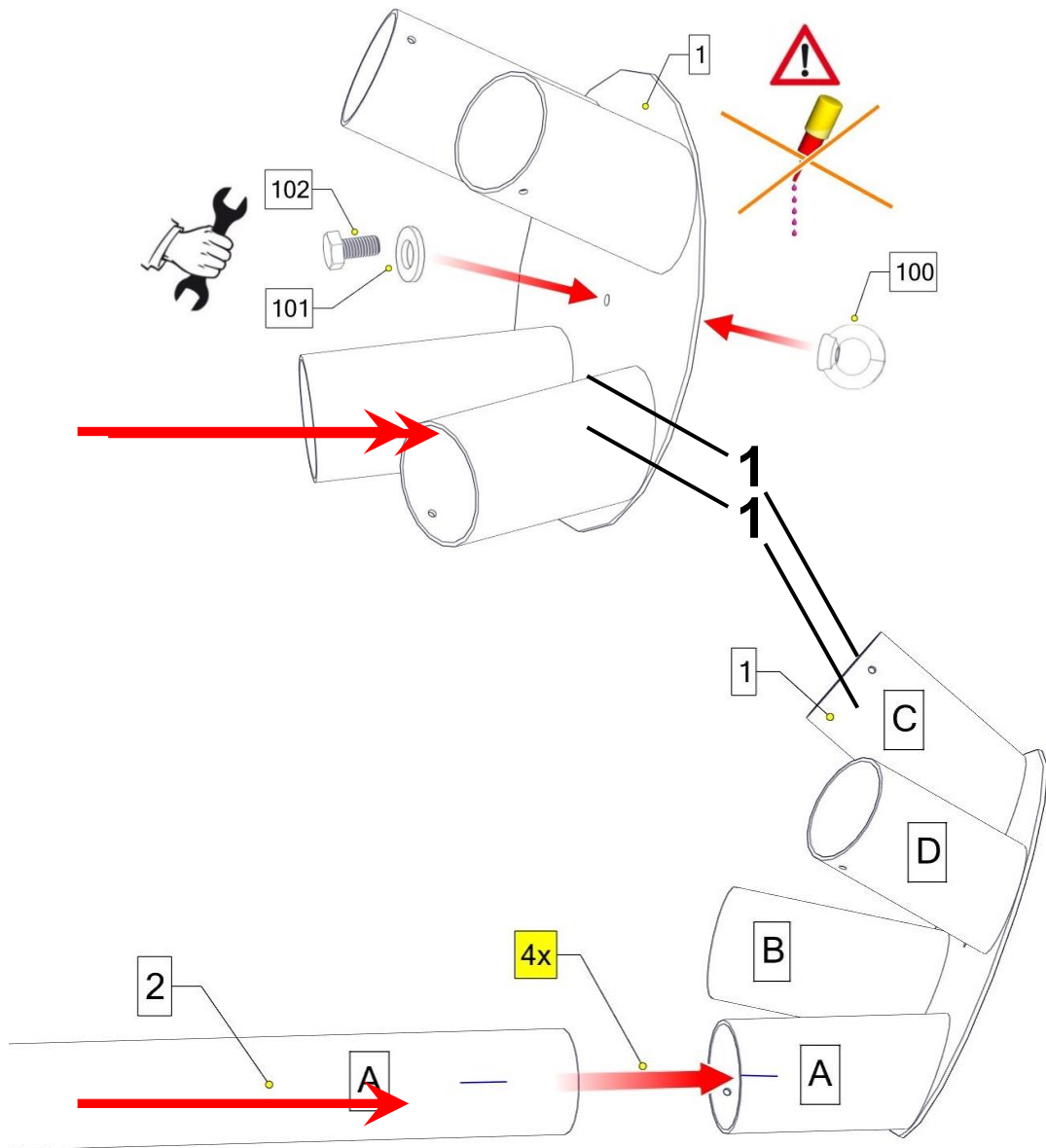
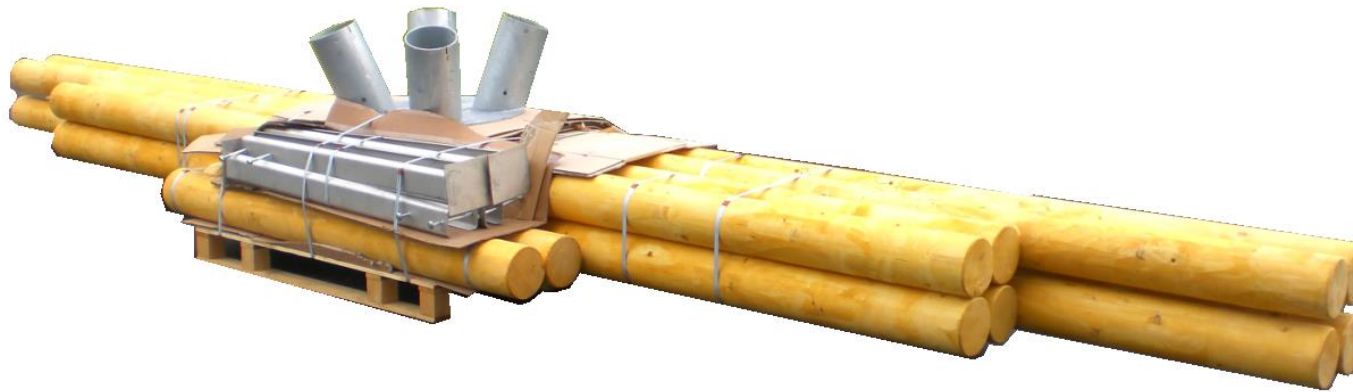


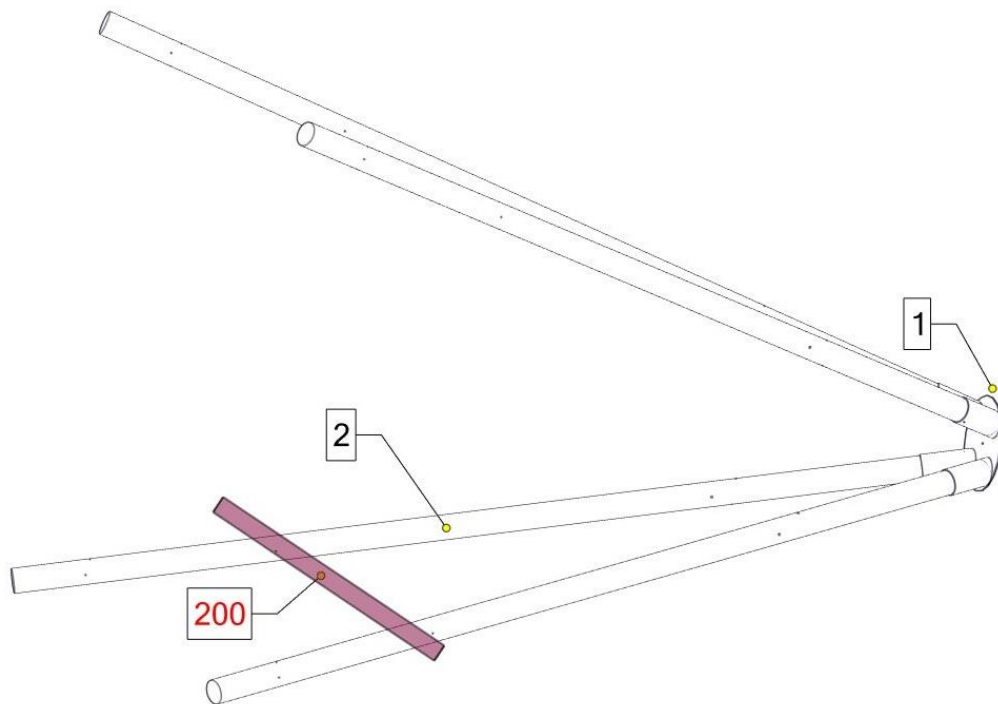
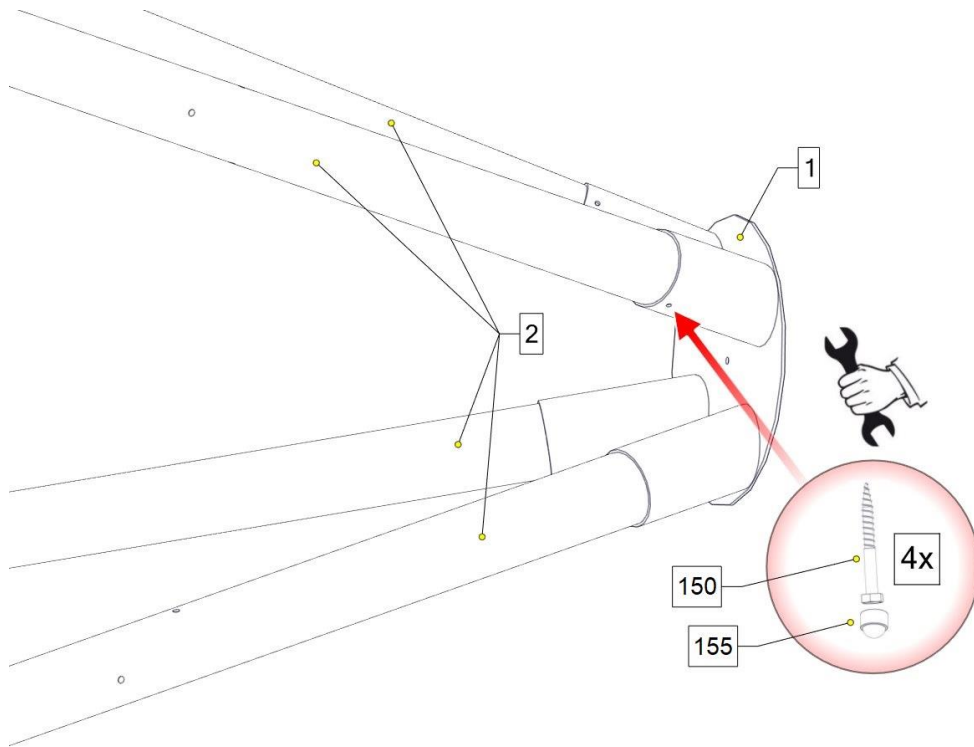
## **Schraubensicherung !**

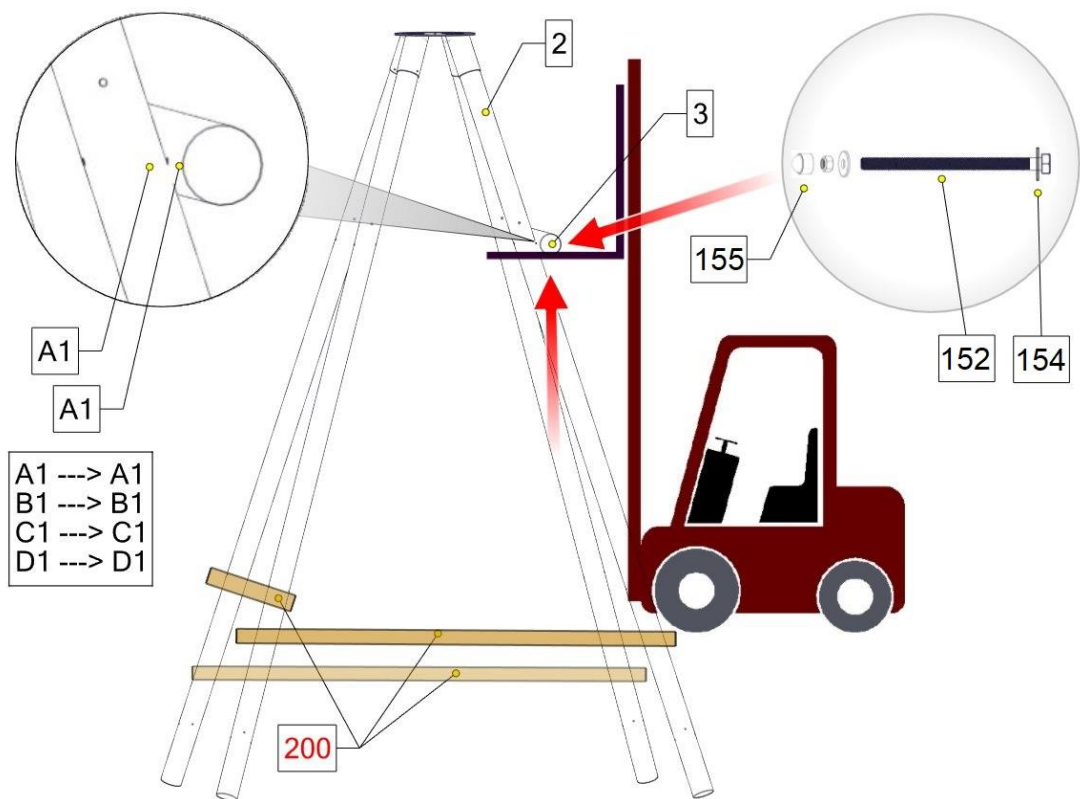
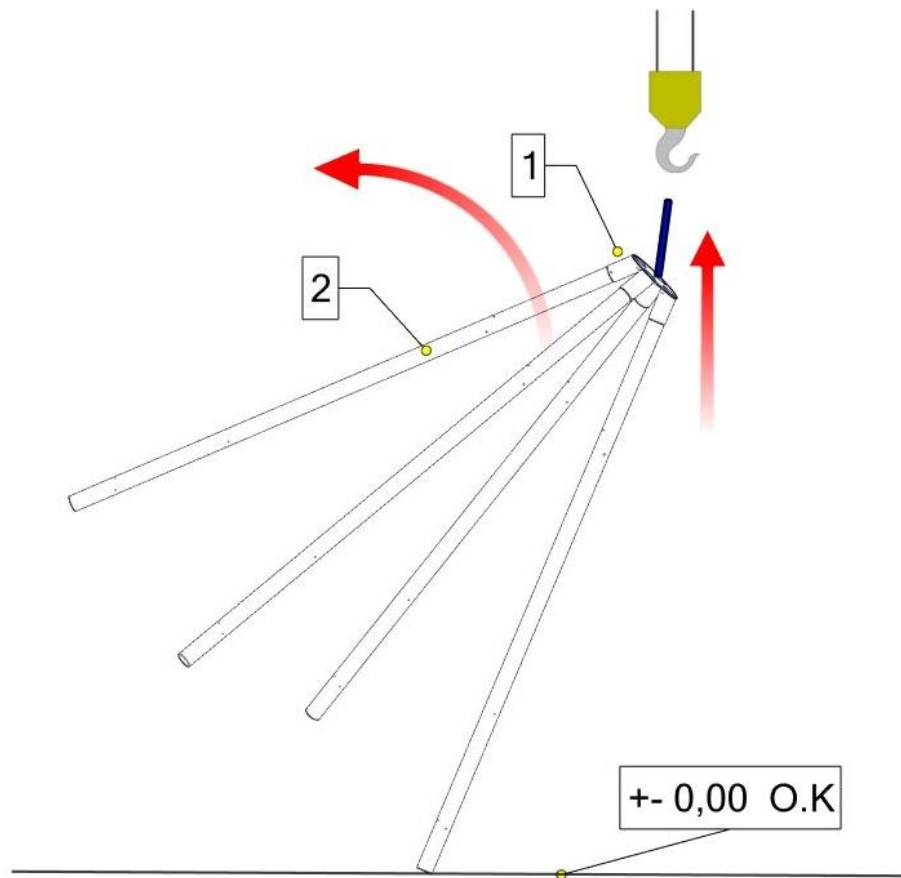


**Alle Schrauben, Muttern und Hülsen  
(außer Stoppmuttern)  
müssen mit mind. 5 Tropfen Loctite  
gesichert werden.**

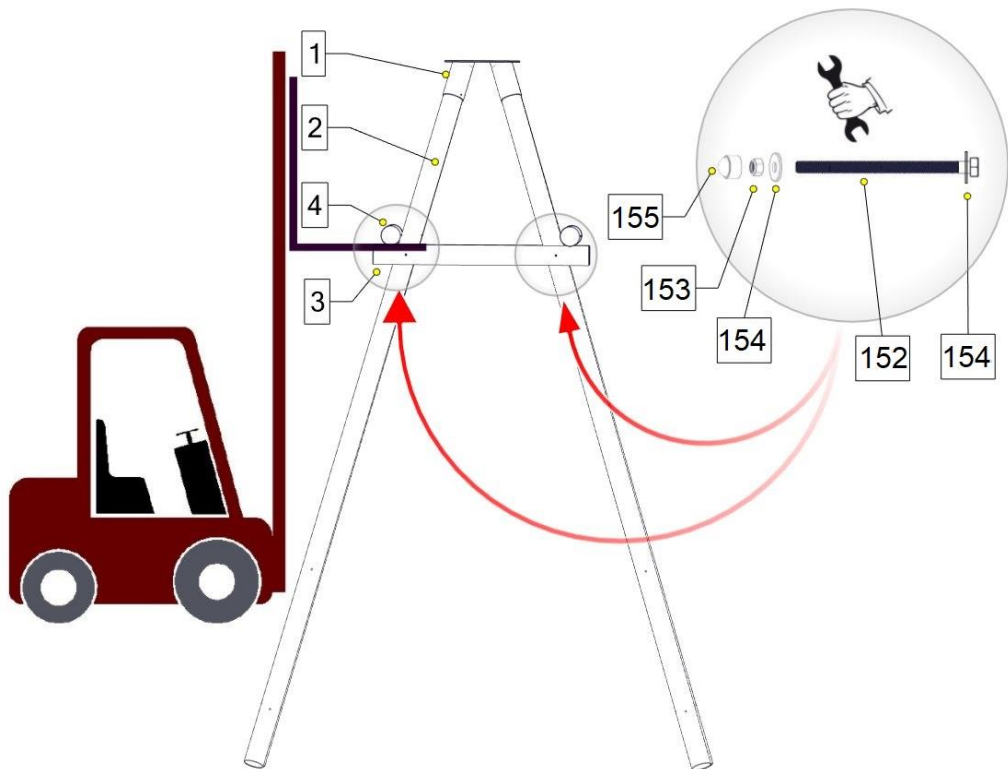
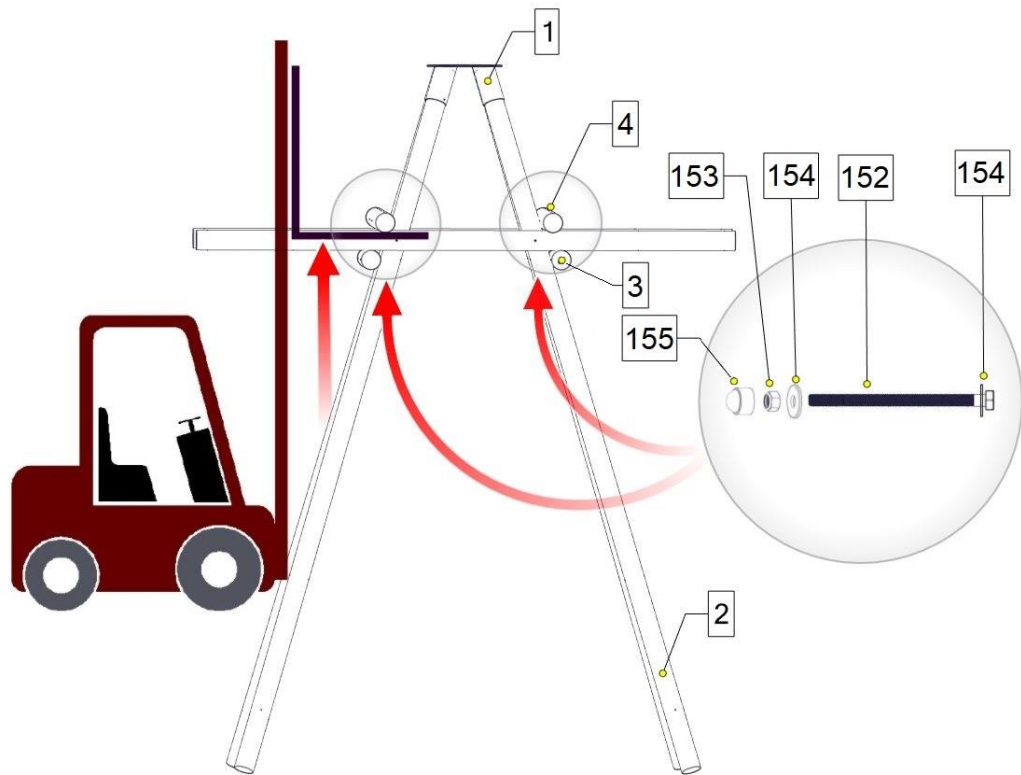


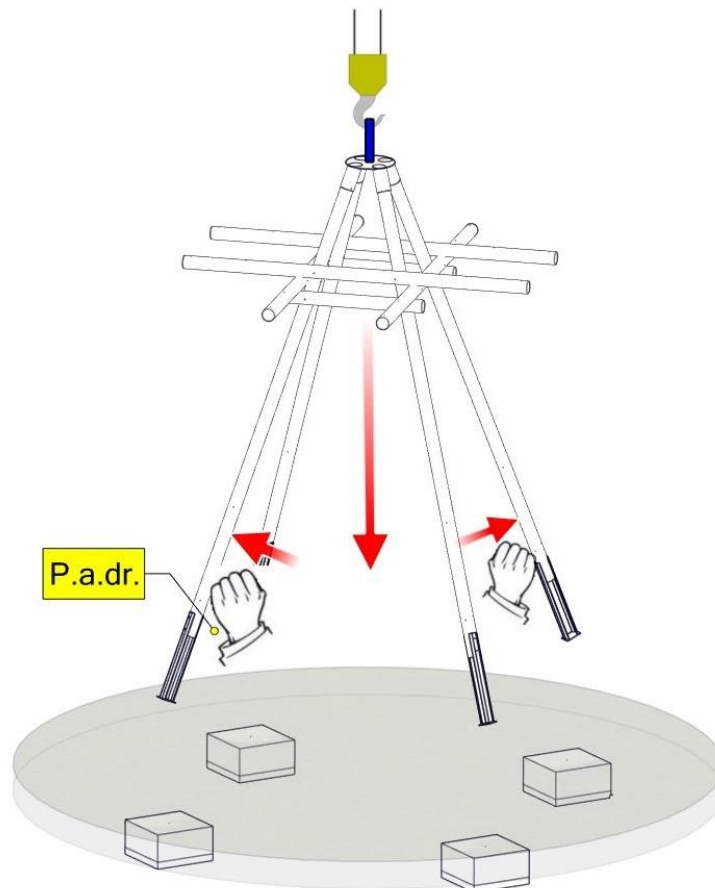
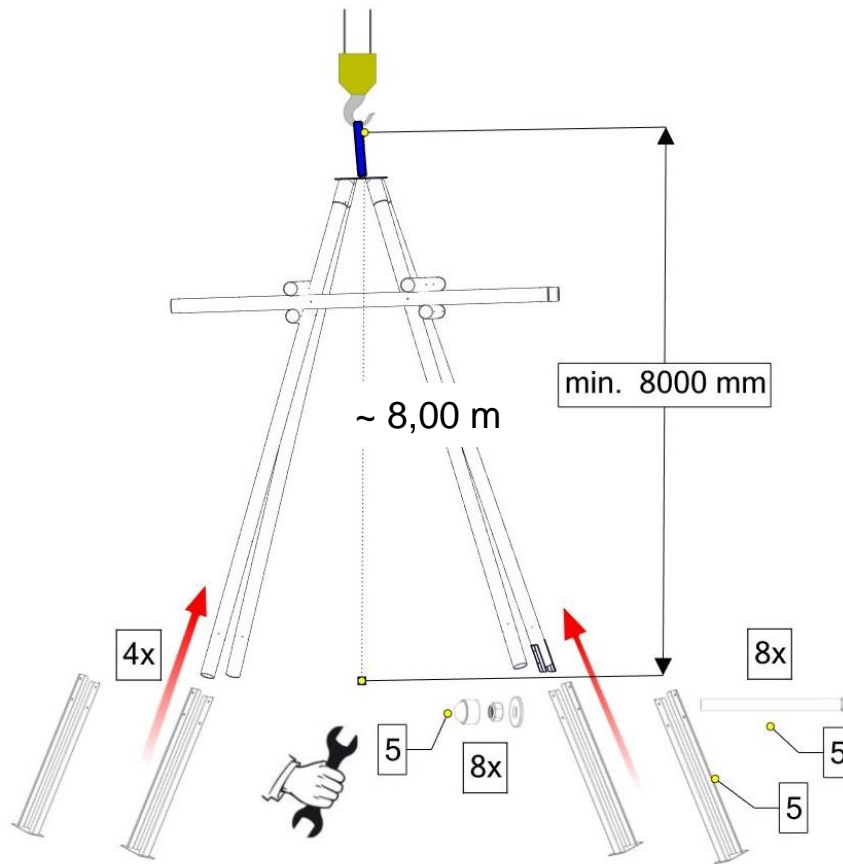


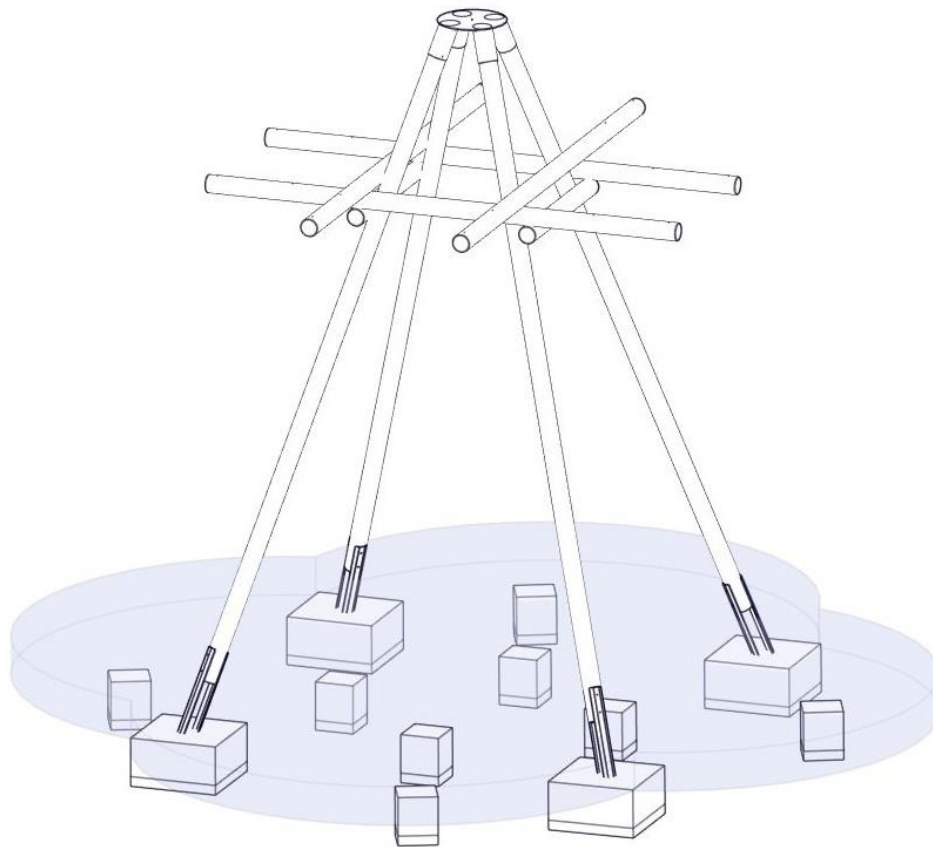












Place the wooden frame in the prepared foundation recesses and align it vertically.

**(lower edge of head plate to O.K. playing level = 6600 mm)**

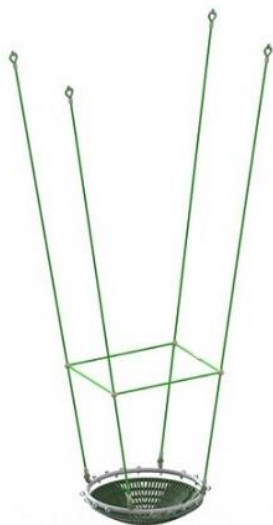
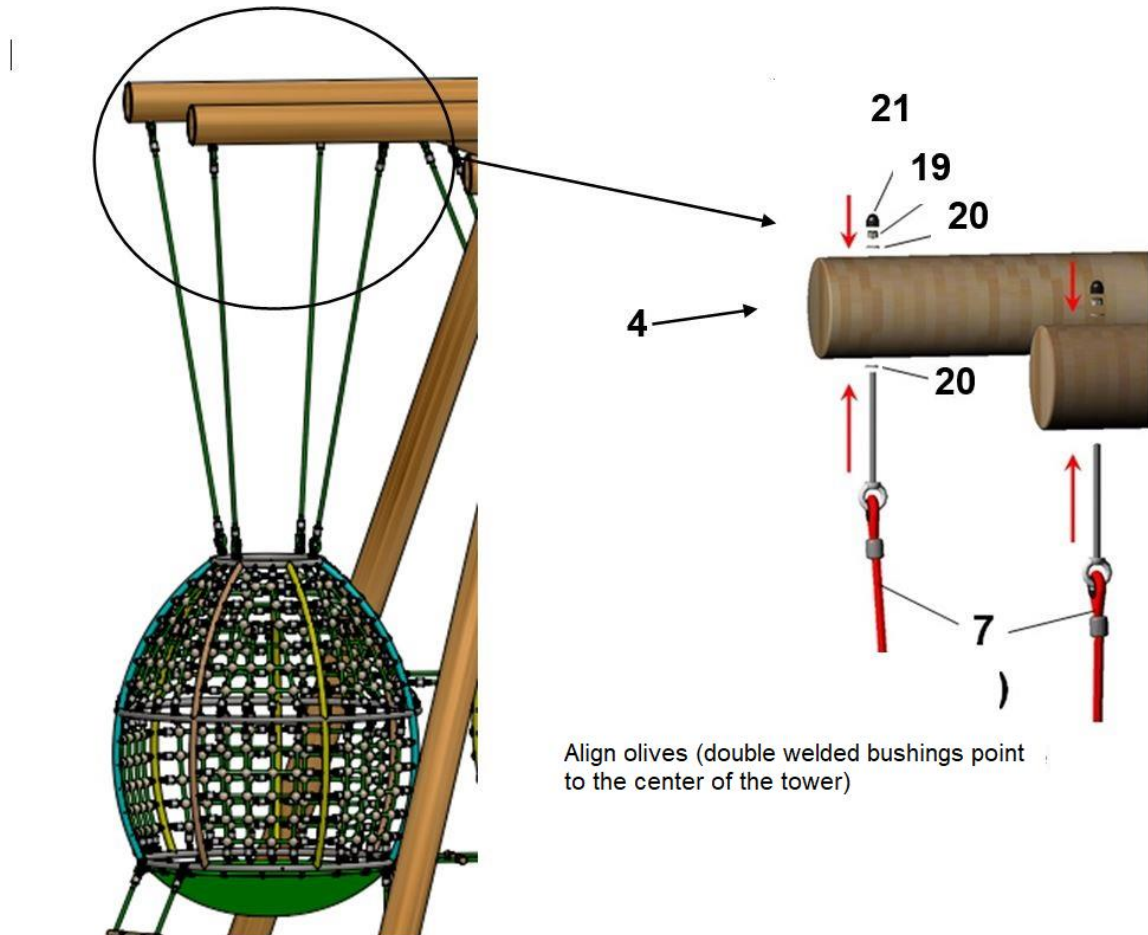
and then pour concrete into the foundations (setting time min. 8 days).

Note:

Concrete the foundations **B** together with the chains (see page 18).

The ground nails (**24**) can be used to help with this.

## Montage der Oliven (A,B,C,D)

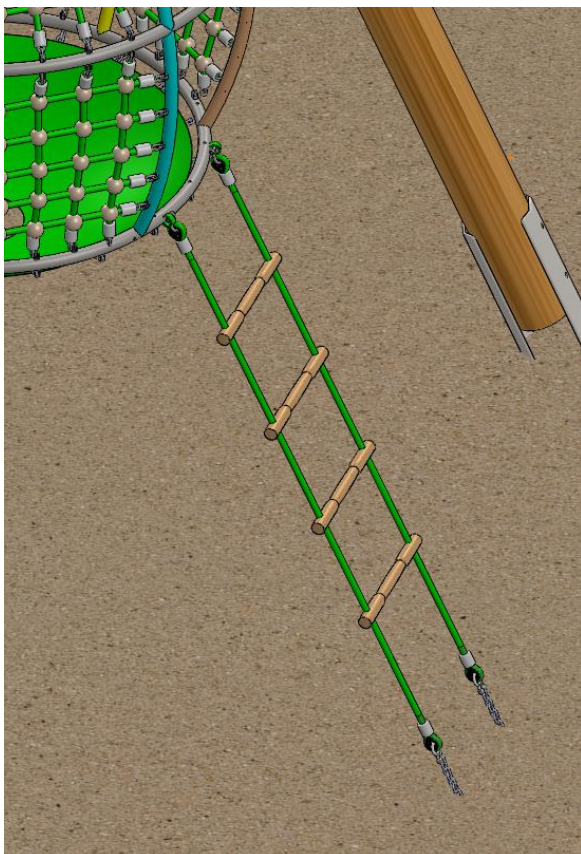
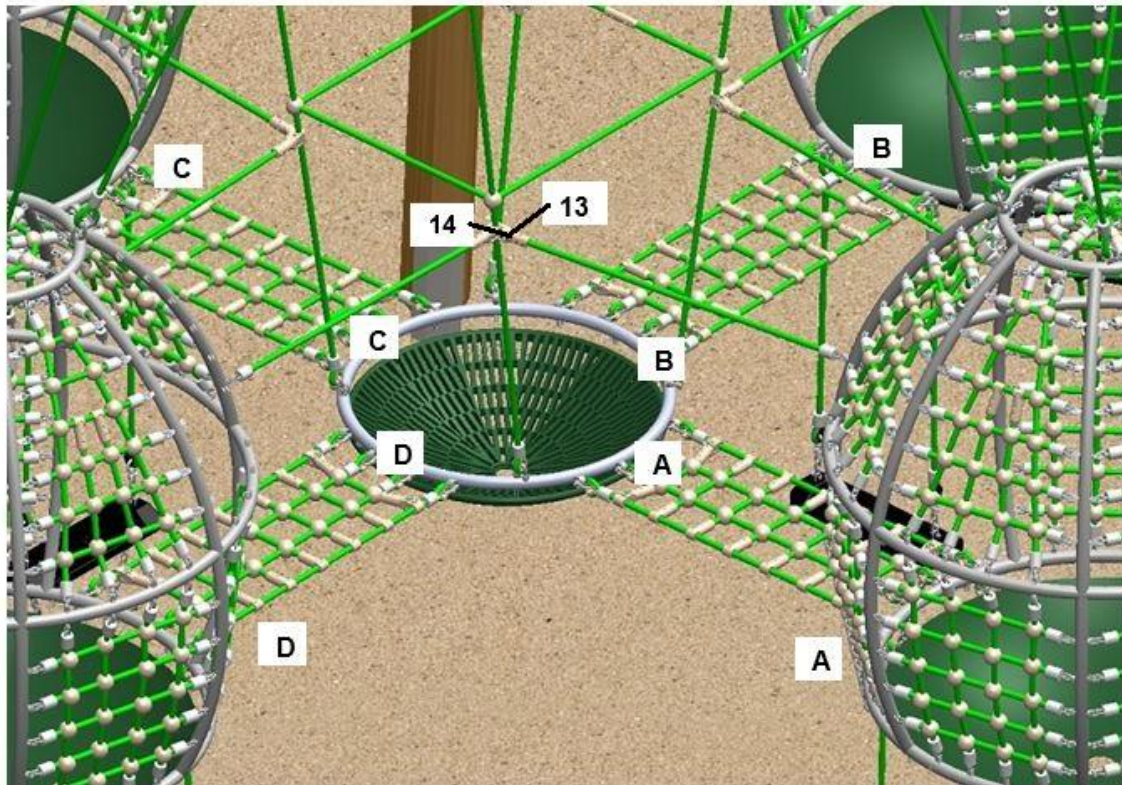


### 1. mounting of the Mini-M nest on the short crossbars

The frame is marked A,B,C,D and is aligned according to the assignment of the olive and mounted to the crossbars (4). (see page 15).



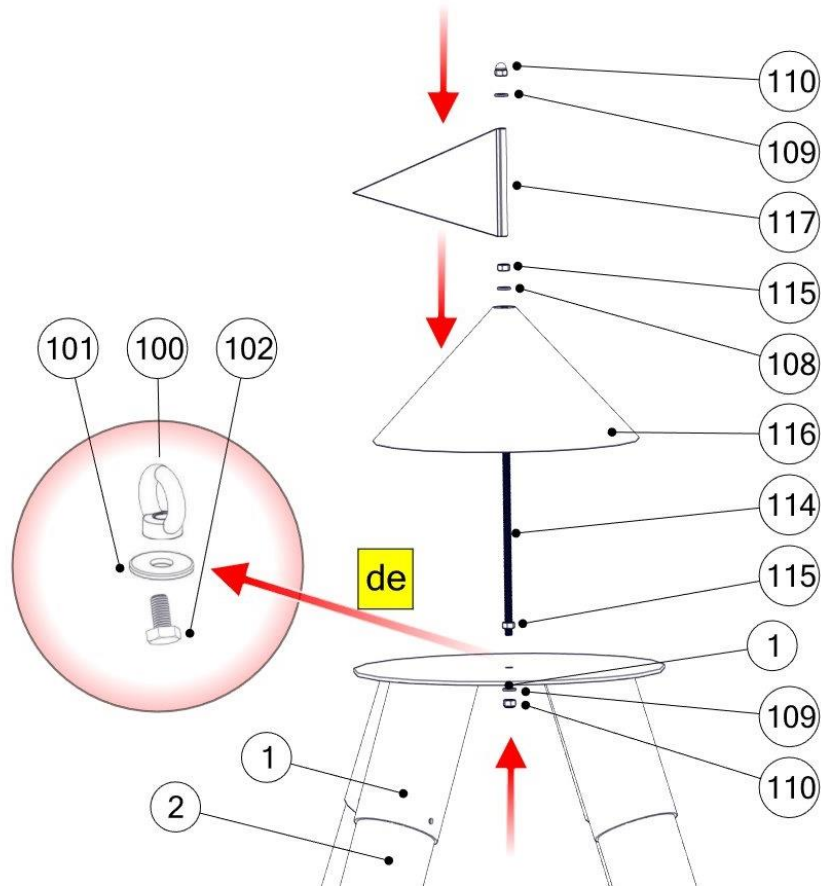
## Assembly of horizontal nets and access ladders




The meshes are marked with A,B,C,D and are assigned to the corresponding olive. (see page 15). The assembly is carried out using the preassembled shackles and one plastic bushing each, which are installed in the metal bushings of the olive / Mini-M nest.

First attach the access ladder to the olive using the preassembled shackles and plastic bushings. Then shorten the embedded chains accordingly and hook them into the chain shackles of the ladder so that the access ladder is taut.

## Mounting the mast hood / flag



	<b>Abbreviations in drawings</b>
<b>A</b>	View
<b>AB</b>	The legally prescribed setting times must be observed!
<b>B</b>	Bauseits gestellter Querstab zum Fixieren der Ankerketten
<b>D</b>	Concrete C25/30 (for foundations) Concrete requirement: 2.5 m <sup>3</sup>
<b>Dt</b>	Detail
<b>ek</b>	Chains may need to be shortened during installation.
<b>F</b>	Fall protection
<b>FDA</b>	Observe foundation plan
<b>G</b>	Drainage
<b>LP</b>	Light post dimension
<b>mo</b>	assemble
<b>O.K</b>	Top edge play level
<b>PS</b>	Minimum safety range 61,4 m <sup>2</sup>
<b>VO</b>	pre-assembled
<b>SSch</b>	After fitting the mast hood, tighten the set screws (secure with Loctite)
<b>AFH!</b>	Attention the foundations are all at one height level
	<p><b>Round off foundation edges (min.R = 100 mm)! Sizes of foundations are designed for soils class “4-5” (natural ground).</b></p> <p><b>Soil class 4: soft to medium plasticity, interleave bound, with minor portion of stone (portion &lt; 30% with bigger diameter of 63 mm grain size).</b></p> <p><b>Soil class 5 : ground with soil class 3 and 4 with big portion of stones (portion &gt; 30% with bigger diameter of 63 mm grain size).</b></p> <p><b>In case of sandy and soft soils, the surface measure of foundations have to be enlarged for about 50%!</b></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

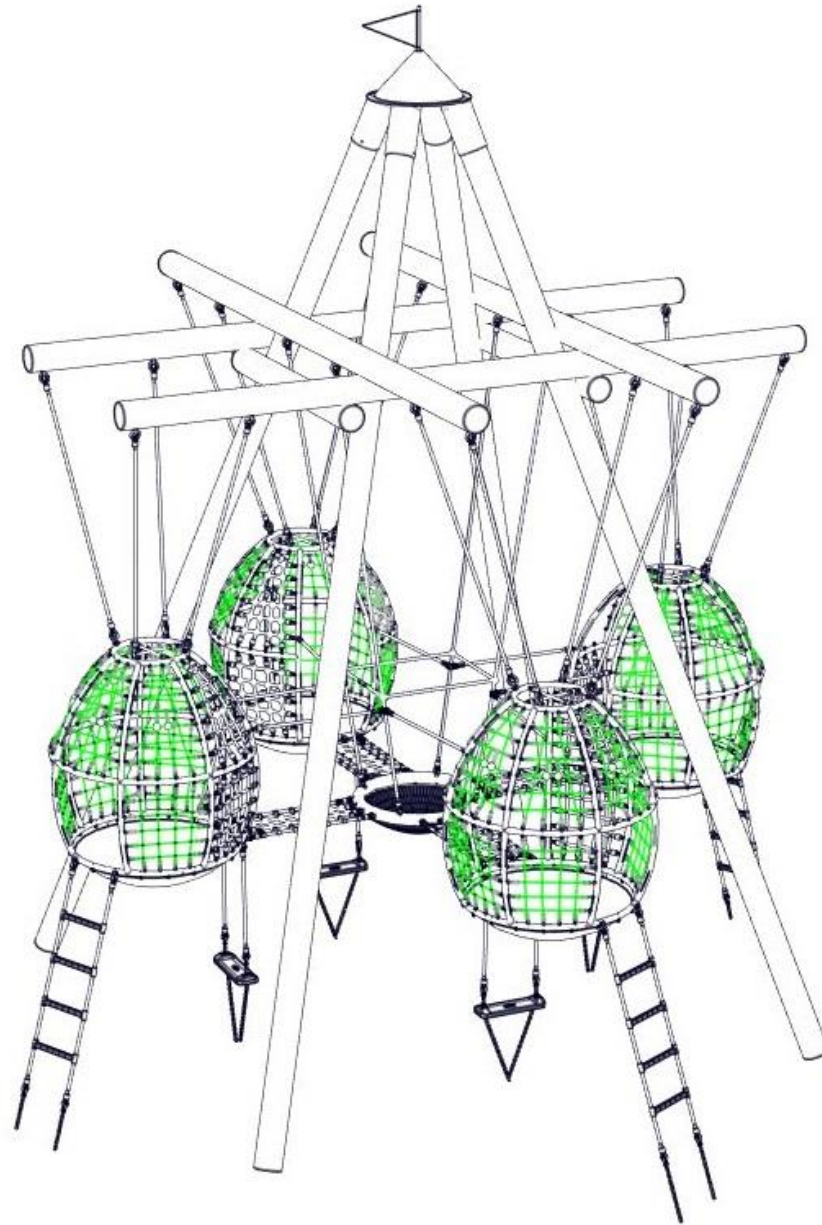
- There are no special inspection requirements to be met before the equipment is used for the first time.

### 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.



**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.

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



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.**

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## **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.

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## 7.9 Faults

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**Attention**

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.

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## 7.10 Loose screws

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**Attention**

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.

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## 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**

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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.

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#### **8.1.4 Faults that compromise function**

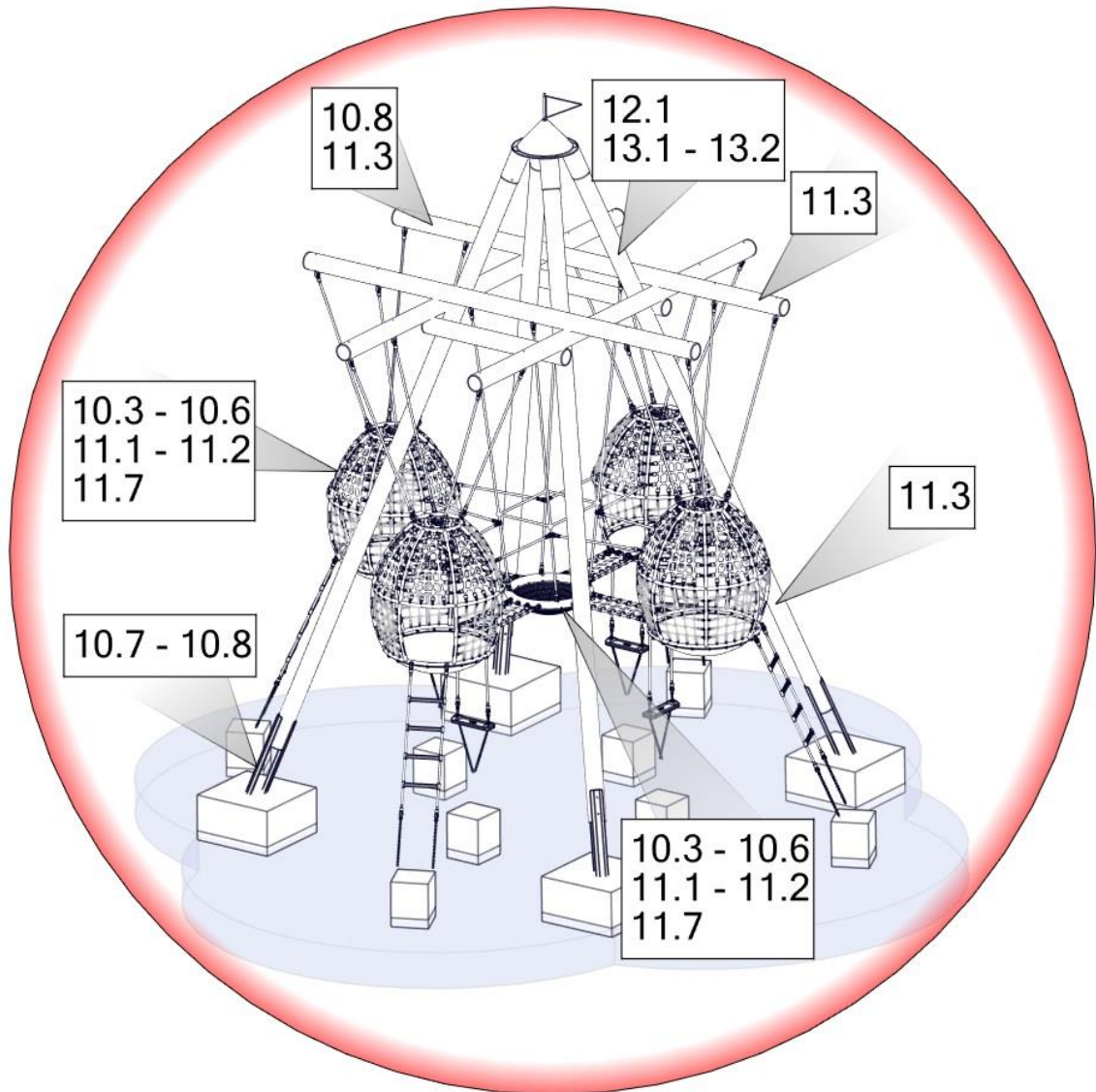
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Faults that compromise function should also be repaired immediately. Such faults lower the value of the equipment to the user and encourage malicious vandalism, which may render the equipment less safe. Any damage should also be repaired immediately.

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## 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.





Attention

## Annual Maintenance

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### 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.



Attention

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.**

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### 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: \_\_\_\_\_