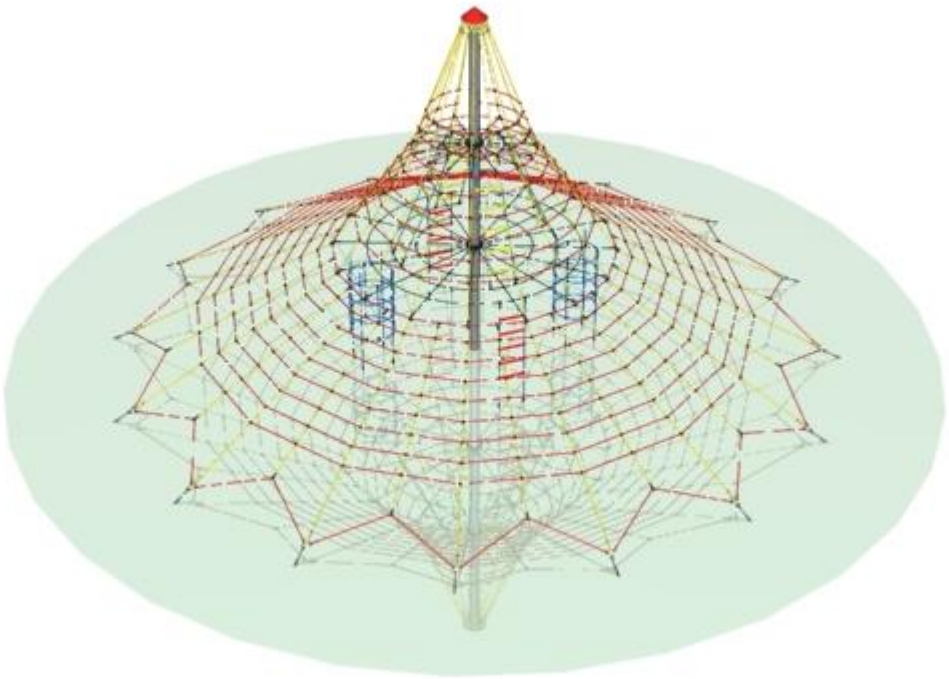
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A Assembly instructions Maxi Cheops pyramid (registered design) Art. 4643-3B to set into concrete



Revision history
Revision 0 – 2005-08-31

The first allowed version

Assembly instruction

Revision 5 –2011-12-13

Gehwegplatte durch Ankerplatte ersetzt AG

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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.



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.



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.

2 Datasheet Maxi Cheops pyramid, (registered design) article 4643-3B

1. Space requirement: ø 11.00 m and/or ø 13.00 m including safety zone, height of fall 1.75 m

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:
Steel post, length 6.30 m, ø 159 mm

4. Name and weight of the heaviest component:
Steel posts (1 pallett), approx. 133 kg

5. Intended age group: 6 years and over

6. **Please note that this equipment is set in concrete.**
Concrete: C25/30
Required concrete: approx. 4.5 m^3
Foundations/area to be excavated:
1 x 0.80 m x 0.80 m x 0.70 m (height)
total depth 1.10 m including 10 cm drainage
16 x 0.70 m x 0.70 m x 0.50 m (height)
total depth 0.90 m including 10 cm drainage
Top edge of concrete 30 cm below ground level



Round off foundation edges (min.R = 100 mm)! Sizes of fundations 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 complete: approx. 4 hours.
   Required assistance: 3 people.
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

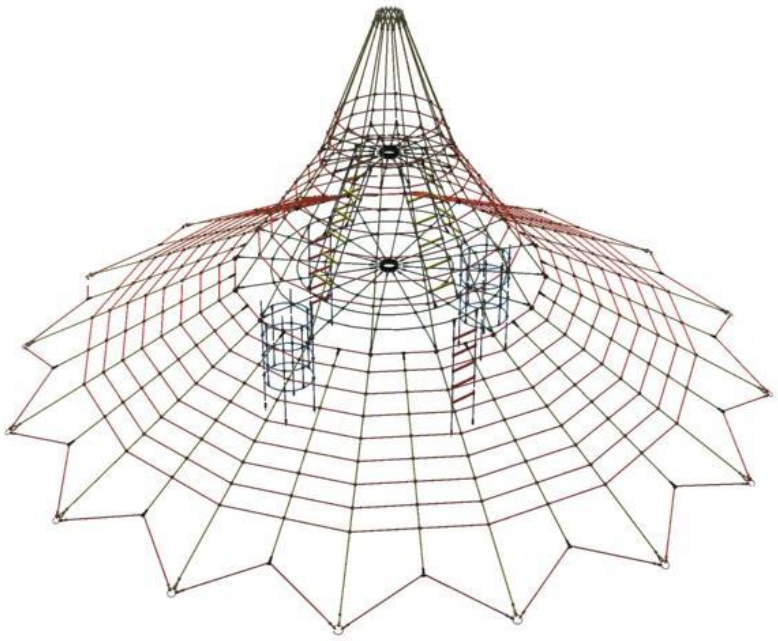
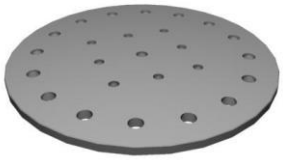
Table 3-1: Delivery contents, in words

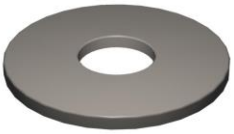
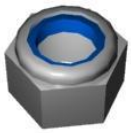
Pos.	Quantity	Element / Description	Size	O.K.	Missing
1	1	Steel post, galvanised	Ø 159 mm; 6.30 m long		
2	1	Play element (netting completely preassembled)			
3	1	Cover plate, galvanised	Ø 360 mm x 12 mm		
100	4	Hexagon bolts	M12 x 30, galvanised		
101	4	Tooth lock washers	M12 x 30, galvanised		
102	16	Hexagon bolts	M12 x 30, galvanised		
103	16	Tooth lock washers	M16, galvanised		
104	1	Threaded rod	M16 x 165 mm, galvanised		
105	1	Hexagon nut	M16, VA		
106	1	Red cover	Ø 375 mm, 140 mm high		
107	1	Washer	17, DIN 9021, VA		
108	1	Stop nut	M16, VA		
109	1	Black cap	For M16		
110	16	Turnbuckles	M16, hot-dip galvanised		
111	16	10 mm chains	Approx. 1.10 m long		
112	16	Bow shackles (for ground pins)	10 mm, galvanised		
113	16	Ground pins	600 mm long, galvanised		
114	8	Screw-in ground anchors	400 mm long, galvanised		
115	2	Loctite			
116	8	Self-tapping Zebra-Pias oval head countersunk screws	6 x 45, galvanised		
117	1	Ring bolt (for erecting the post)	M16, galvanised		
118	16	Anchor plates	50 cm x 50 cm galvinized		
	1	**Drainpipe (to be provided by customer)**	Approx. Ø 300 x 700 mm long		
10	1	Paintbrush	Customer request		

Pos.	Quantity	Element / Description	Size	O.K.	Missing
11	1	Tin of paint	Customer request		

3.2 In symbols

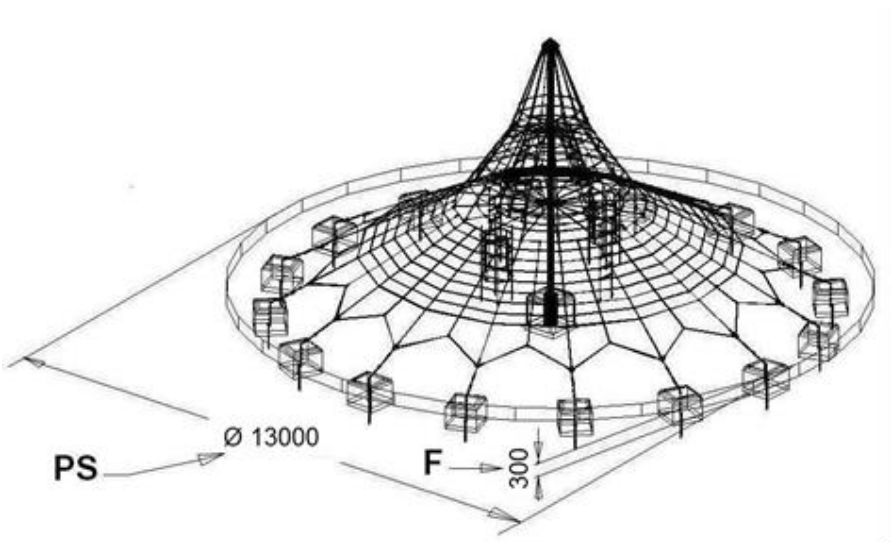
Table 3-2: Delivery contents, in symbols

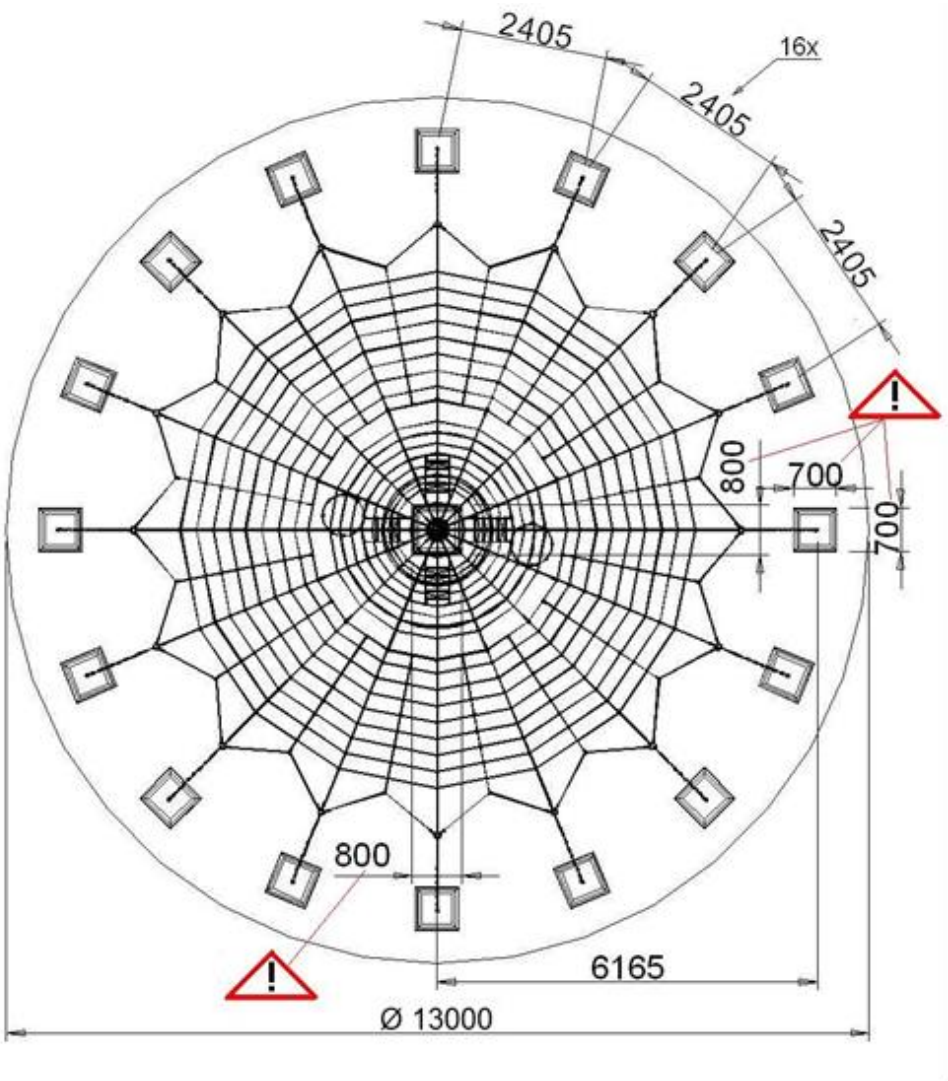
Pos.	Quantity	Symbol
1	1	 Ø 159 mm; 6.30 m long
2	1	
3	1	 Ø 360 mm x 12 mm
100	4	 M12 x 30, galvanised
101	4	 for M12, galvanised
102	16	 M12 x 30, galvanised
103	16	 for M16, galvanised

Pos.	Quantity	Symbol
104	1	 M16 x 165 mm, galvanised
105	1	 M16, VA
106	1	 Ø 375 mm, 140 mm high
107	1	 17, DIN 9021, VA
108	1	 M16, VA
109	1	 for M16
110	16	 M16, hot-dip galvanised
111	16	 Approx. 1.10 m long
112	16	 10 mm, galvanised
113	16	 600 mm long, galvanised

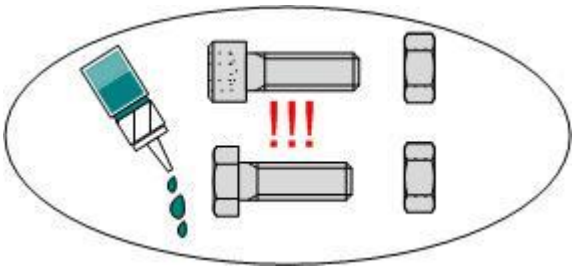
Pos.	Quantity	Symbol
114	8	 400 mm long, galvanised
115	2	
116	8	 6 x 45, galvanised
117	1	
118	16	 500 x 500 mm

4 Erection instructions





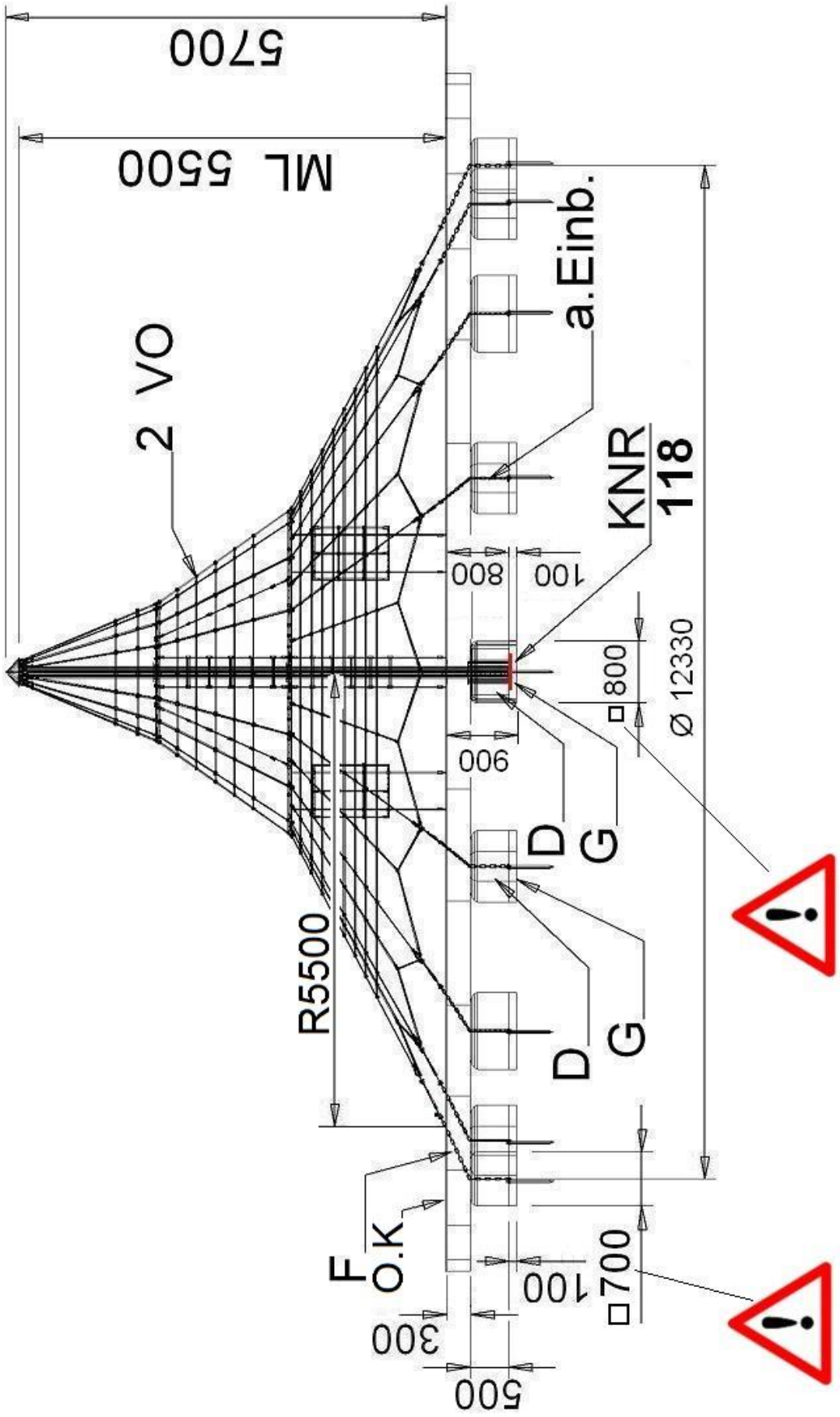
Screw locking device!

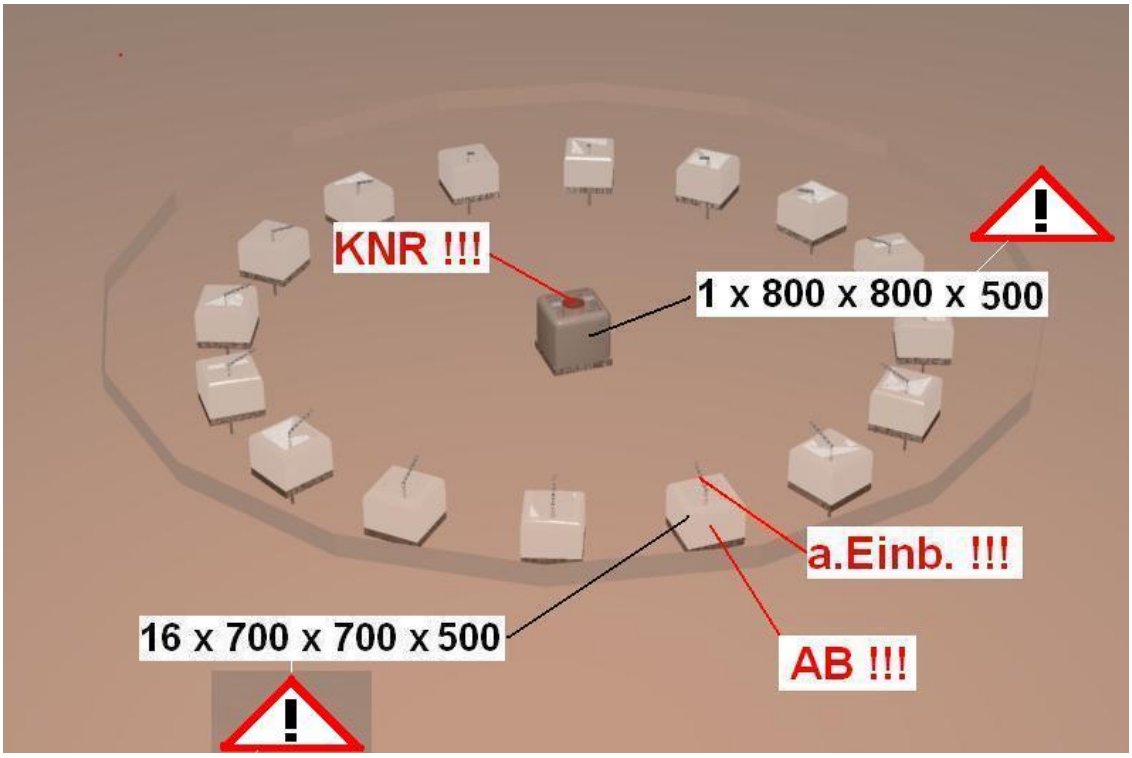


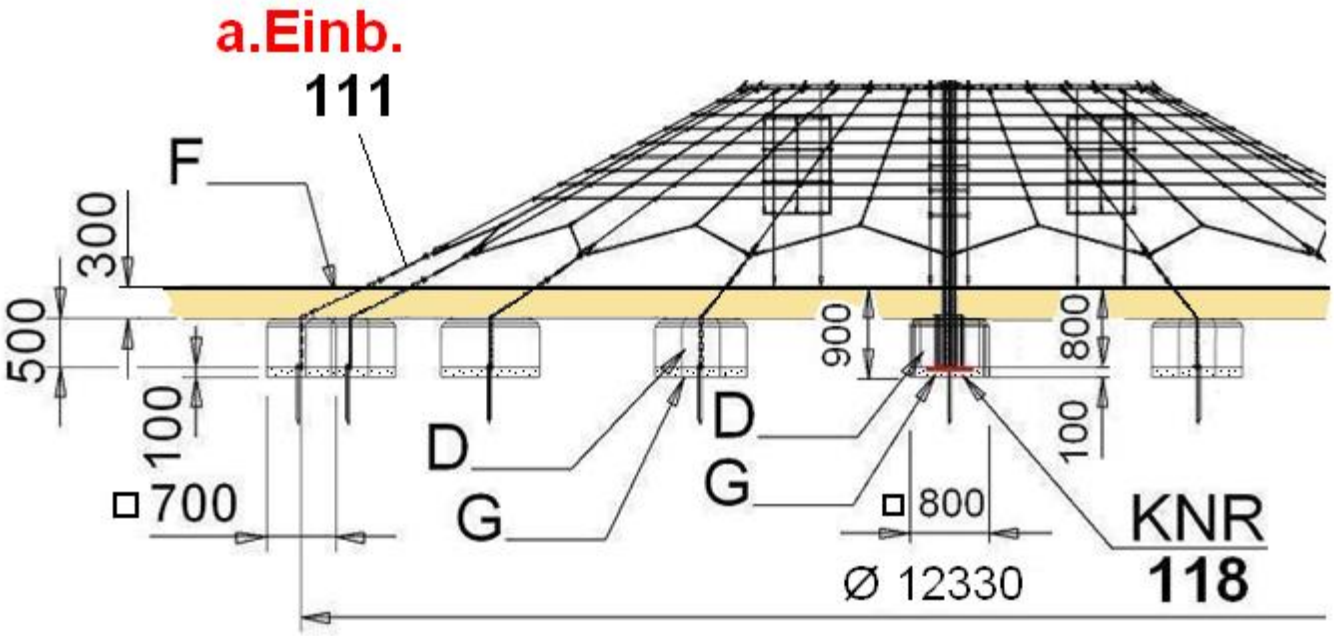
glue all screws, nuts and sleeves with loctite.

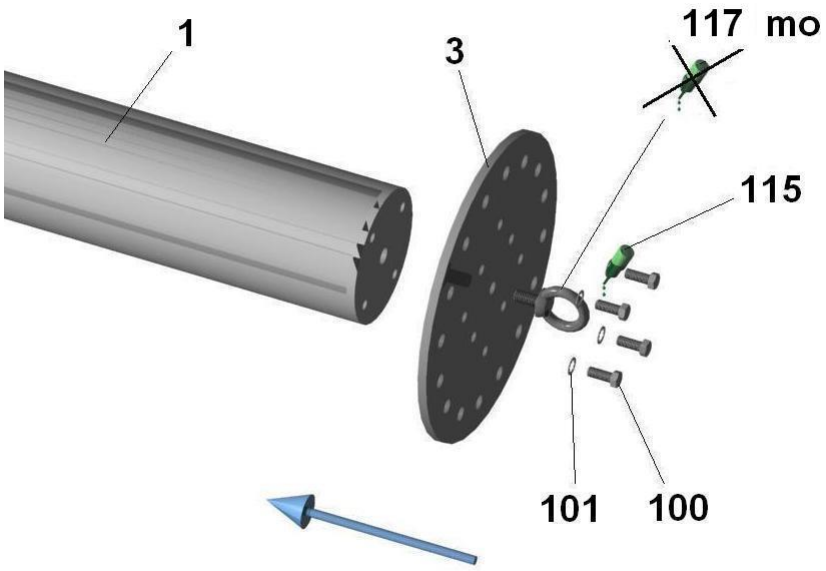
(not less than 5 drops !)

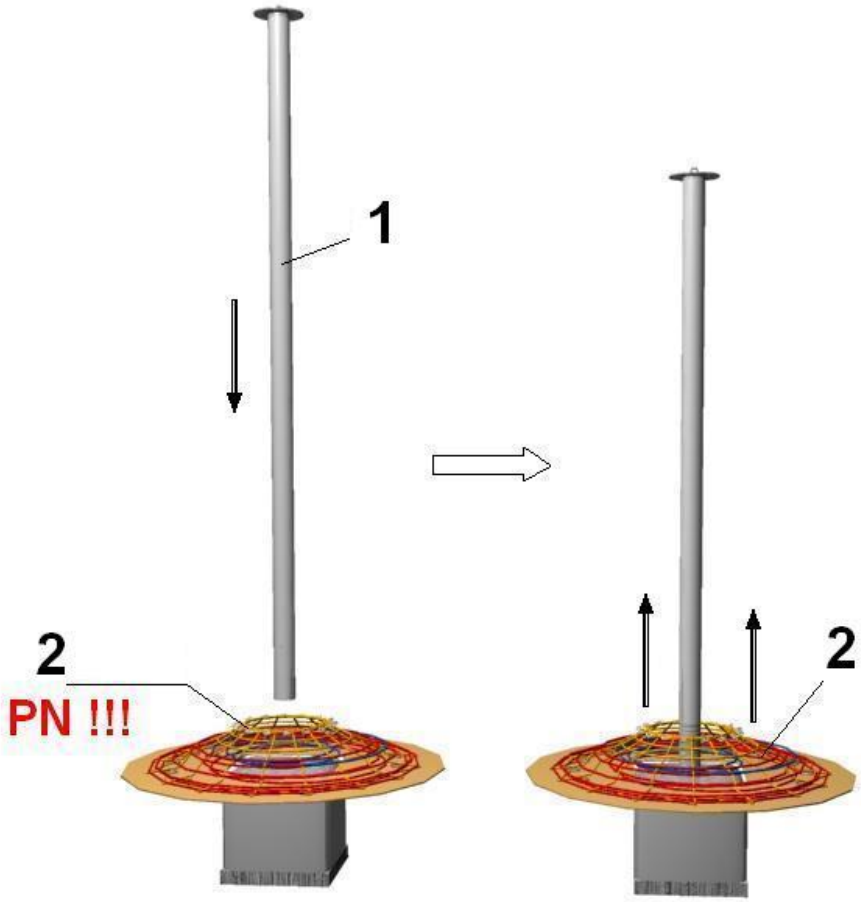
(except for lock nut)

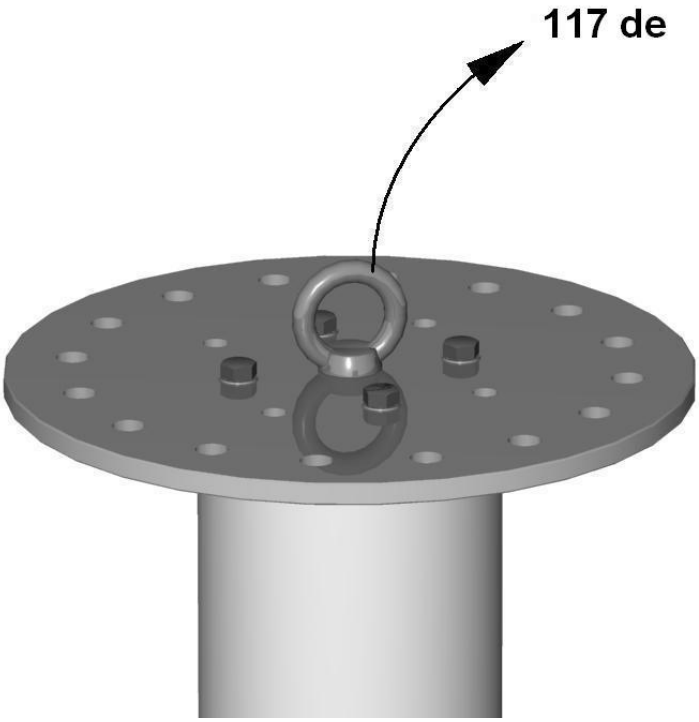

5700
ML 5500
2 VO
a.Einb.
KNR
118
800
100
800
Ø 12330
900
D
G
R5500
D
G
F
O.K
100
700
300
500

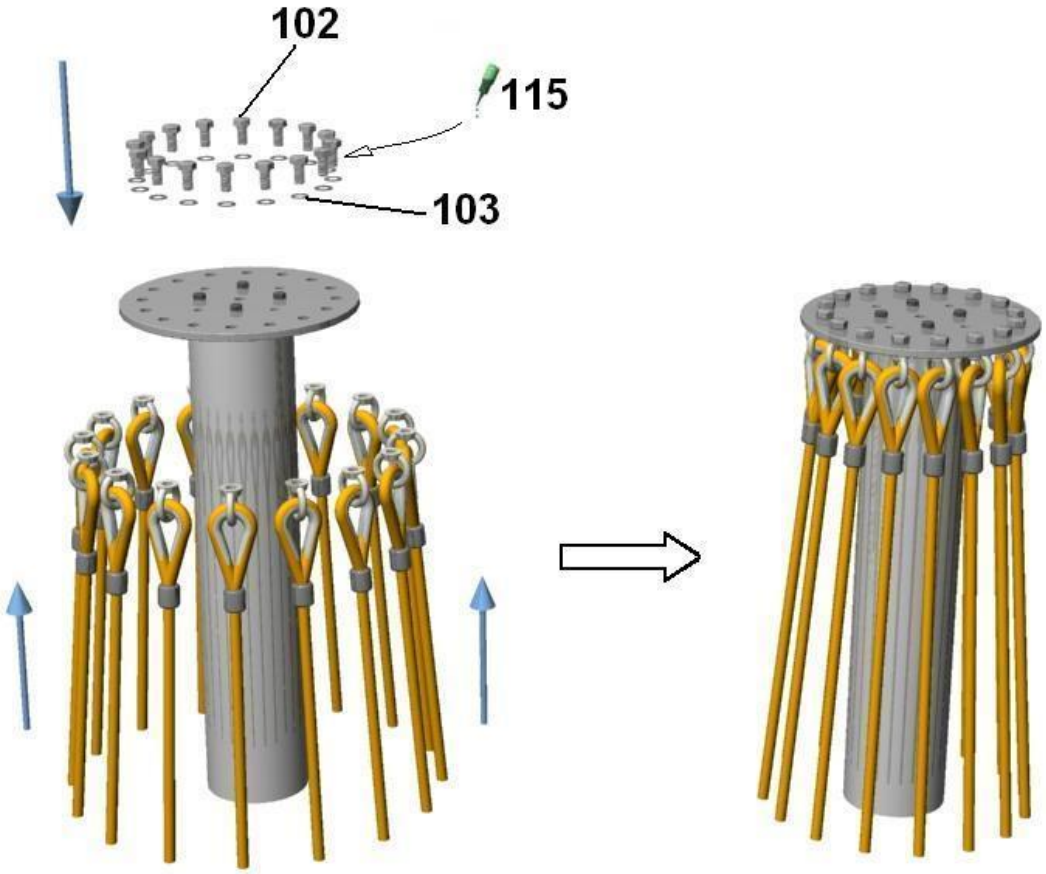

KNR !!!
1 x 800 x 800 x 500
a.Einb. !!!
AB !!!
16 x 700 x 700 x 500

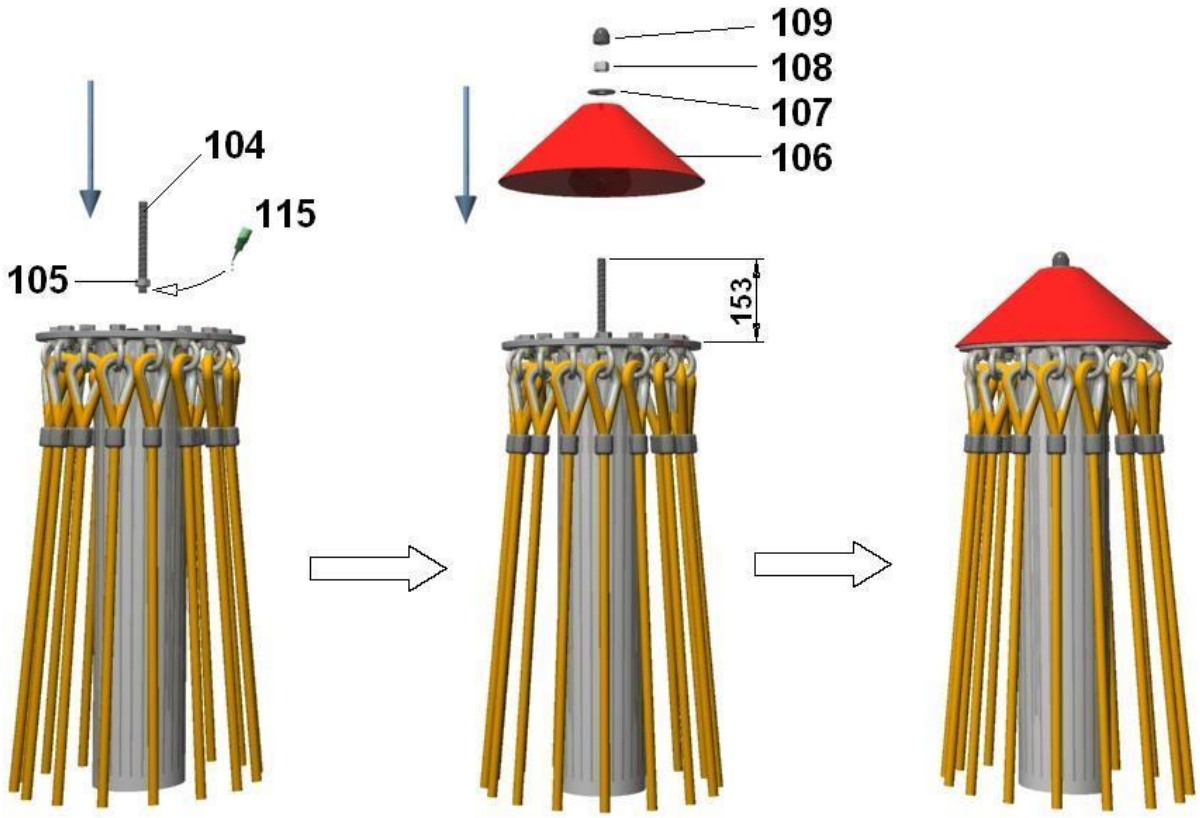

a.Einb.
111
F
300
500
100
□700
D
G
900
D
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800
100
□800
KNR
118
Ø 12330

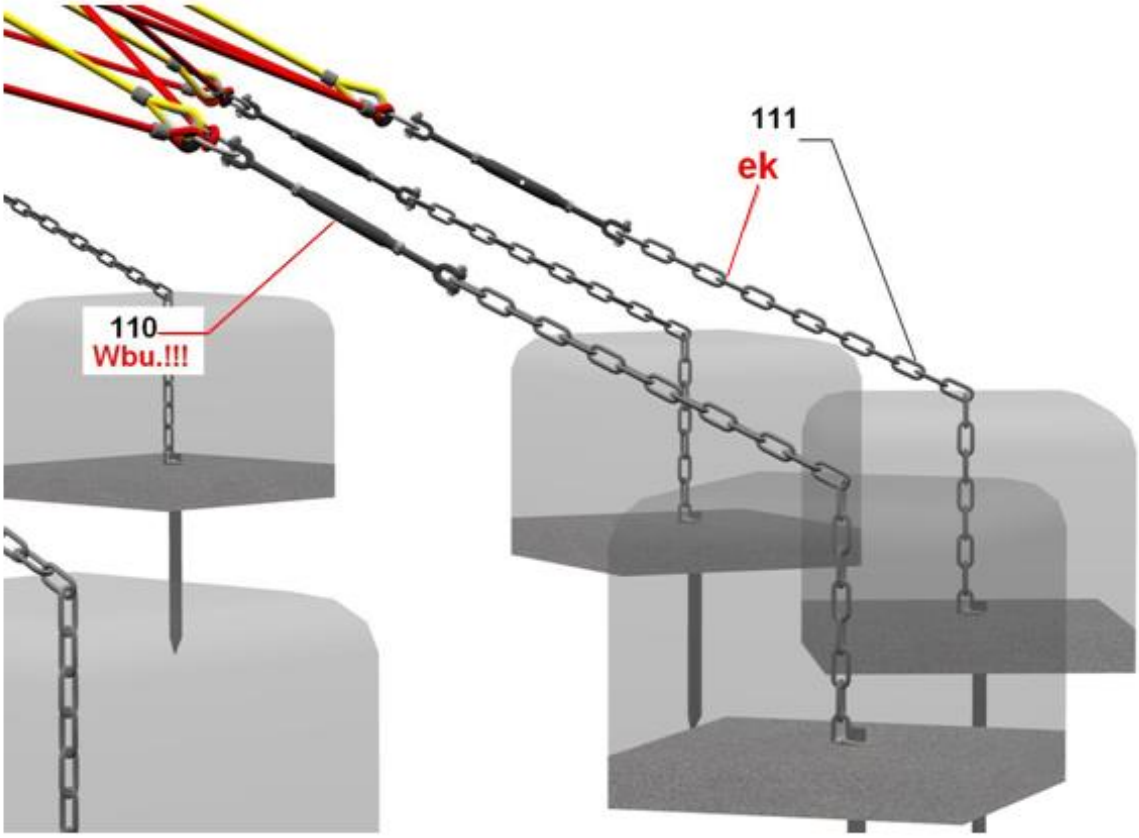

1
3
117 mo
115
101
100

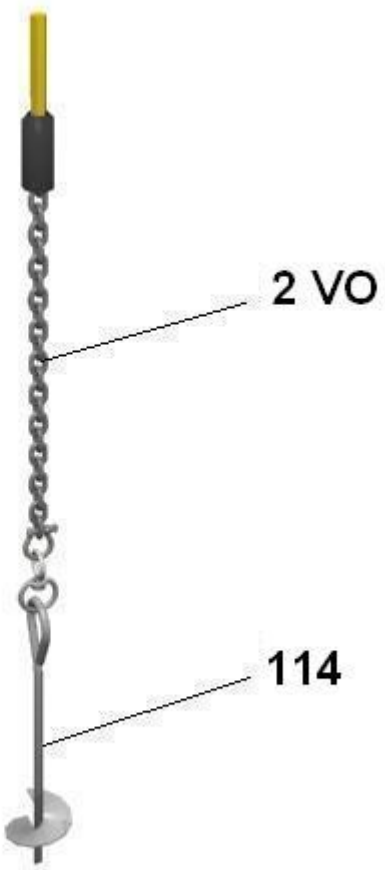

1
2
PN !!!
2

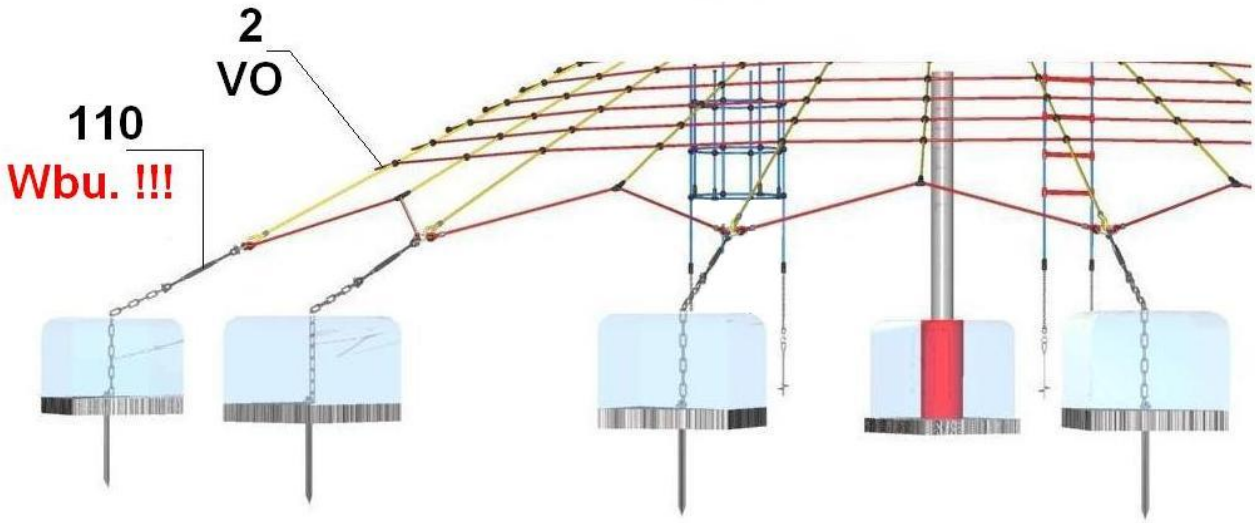

117 de

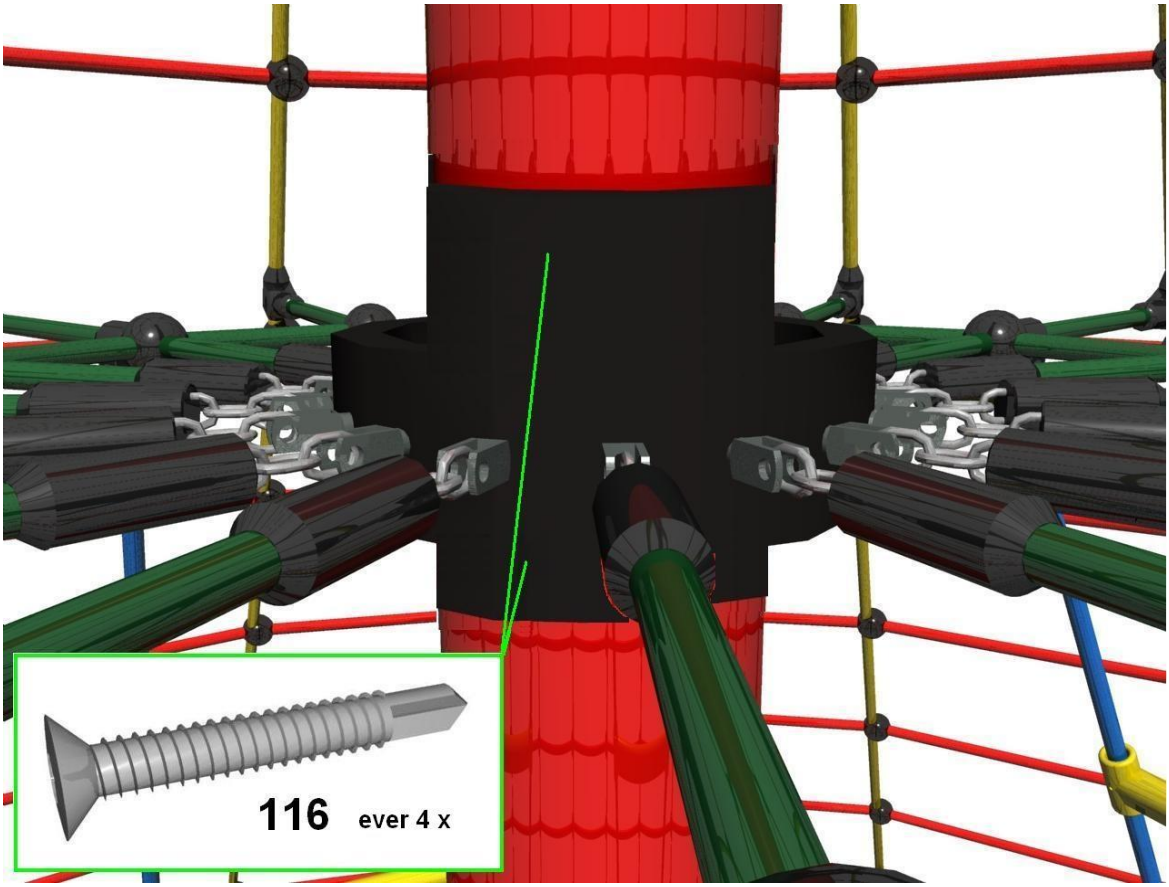

102
115
103

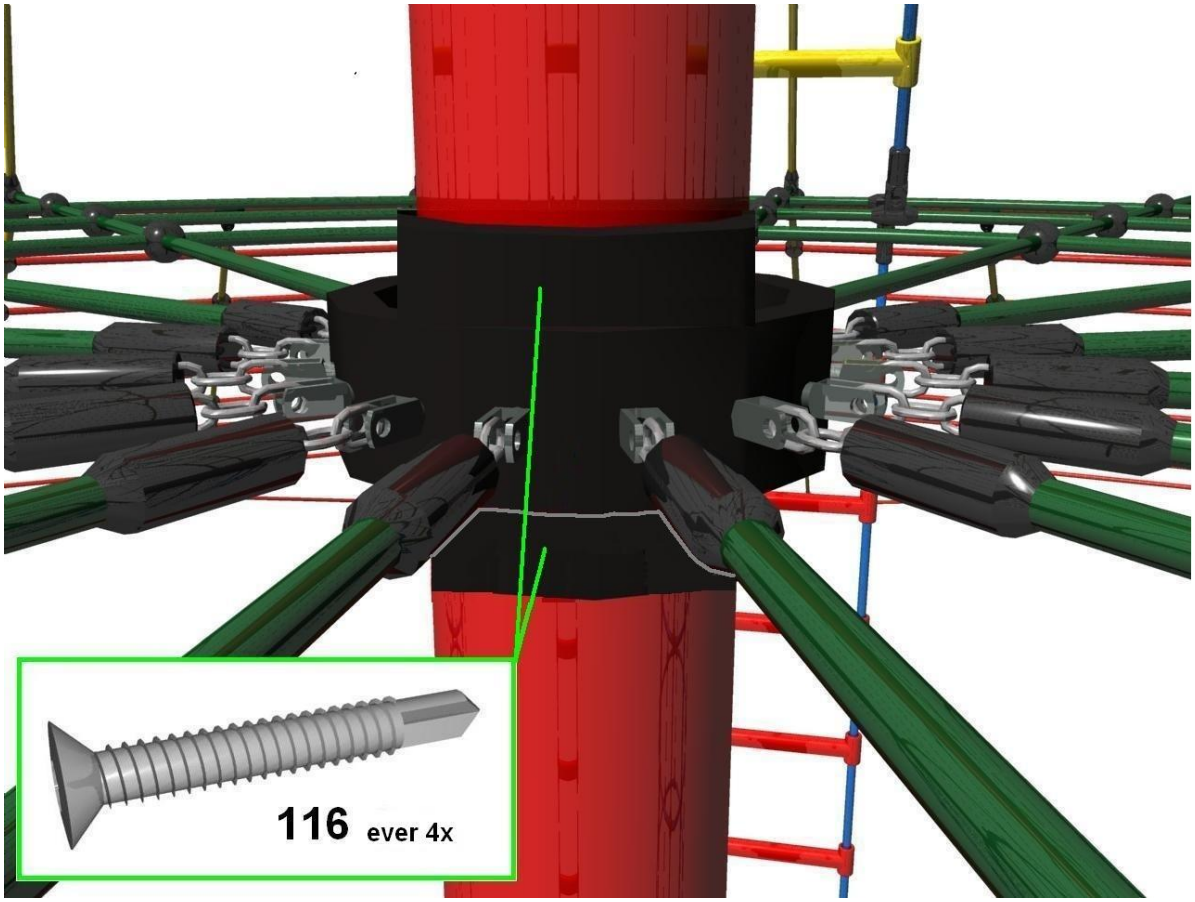

109
108
107
106
104
115
105
153

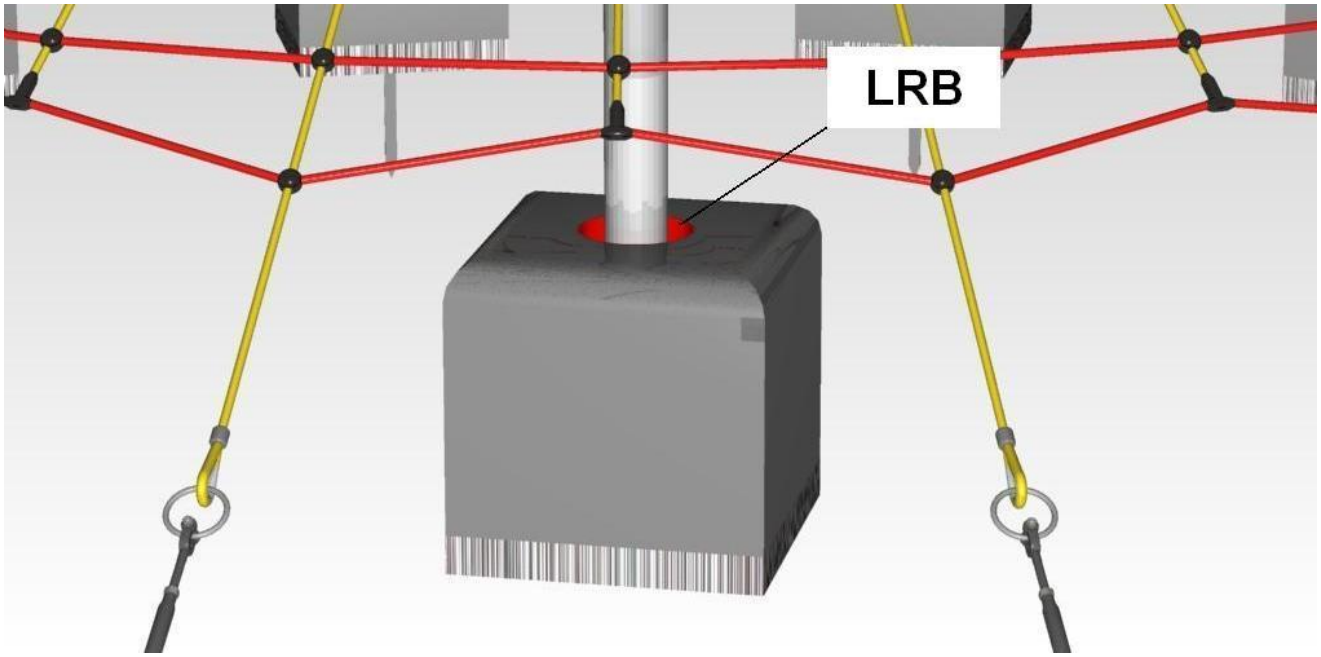

111
ek
110
Wbu.!!!

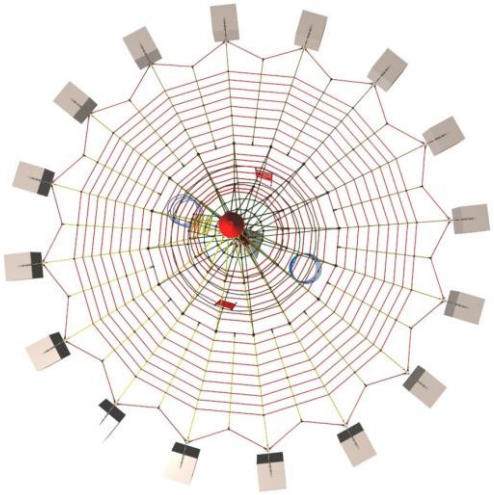

2 VO
114

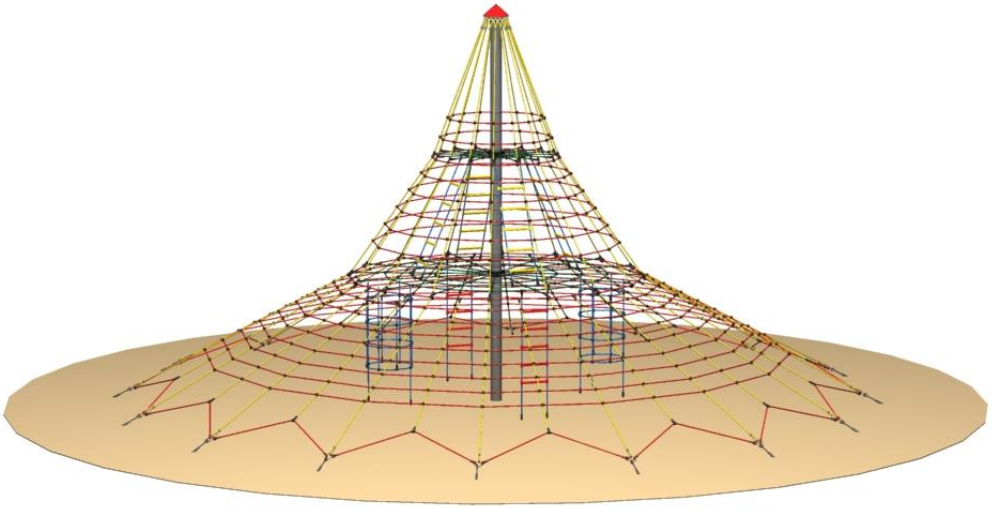

2
VO
110
Wbu. !!!


116 ever 4 x


116 ever 4x


LRB





	Version: "Maxi" Cheops Pyramid
AB	Setting time of at least 7- 8 days
AE	Anchor chains are secured in the ground with ground pins.
a.Einb.	Chain set in concrete in the foundations
D	C25/30 concrete (for foundations) Concrete required: 4.5 m^3
de	Dismantle
ek	Chains may need to be shortened during assembly.
F	Fall protection
FR	Radius of foundations at least 10 cm
G	Drainage layer
KNR	Pipe (e.g. concrete or PVC drainpipe) Ø 300 mm, 0.70 m long, **to be supplied by the customer**
LRB	Fill space between pipe and steel post with **liquid concrete**.
ML	Post height above playing level
mo	Assemble
O.K.	Upper edge of playing level
PN	**Place the netting over the pipe with the underside on the foundations.**
PS	Space requirement including safety zone ~132 m^2
R	Radius
VO	Preassembled
Wbu.	**After tightening and before installing the fall protection, plug the bores in the threaded sleeve of the turnbuckles on site.**
	**Round off foundation edges (min.R = 100 mm)! Sizes of fundations are designed for soils class “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%!**

See drawings

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:

- Safe equipment installation 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 made.

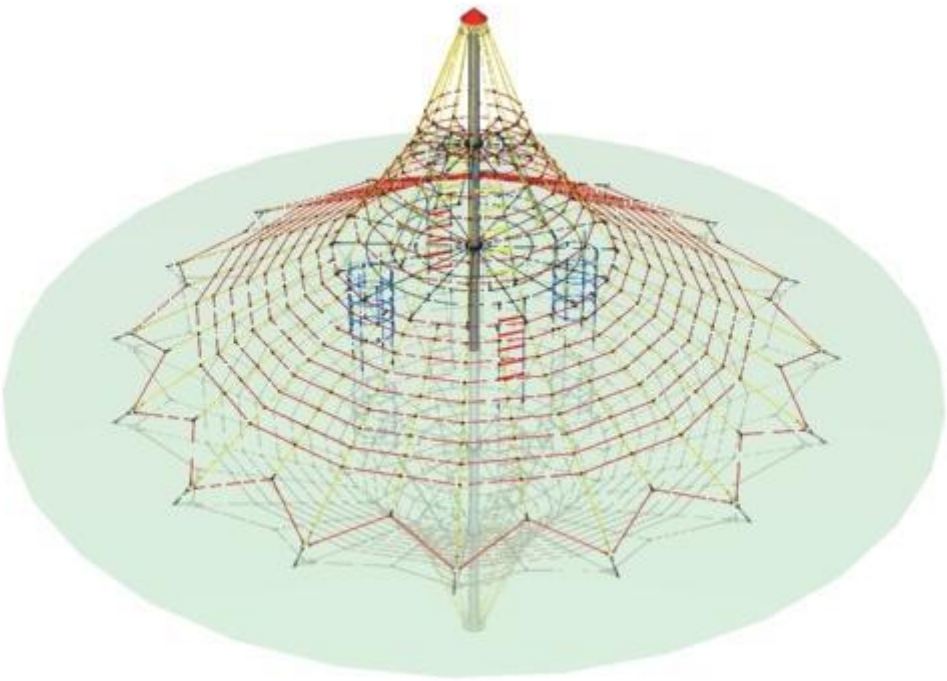
5.4 Information about inspection of the equipment before it is used for the first time

- 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.

B Maintenance instructions Maxi Cheops pyramid (registered design) Art. 4643-3B to set into concrete



Revision history
Revision 0 – 2005-08-31

The first allowed version

Maiantanance instruction

Revision 5 –2011-12-13

Gehwegplatte durch Ankerplatte ersetzt AG

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6 Instruction 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.

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.

This maintenance instruction is based on the standard

“EN 1176-1:2008”.

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 for the disposal of individual equipment components.

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 Drainage holes

All drainage holes should be kept clear.

7.9 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.

7.10 Faults



Faults must be repaired as soon as they are detected. If serious defects that compromise safety cannot be repaired straight away, the public must be prevented from using the equipment with immediate effect.

7.11 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 (e.g. look out for holes you can see through).

7.12 Preventing equipment use

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

7.13 Safeguarding the guarantee

Steel posts and footings are guaranteed if regular maintenance is carried out and recorded in writing. Maintenance first takes place after 3 years. The steel posts must be excavated as far as the concrete foundations and checked for corrosion. Zinc paint should be applied to any corroded areas and scratches.

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.

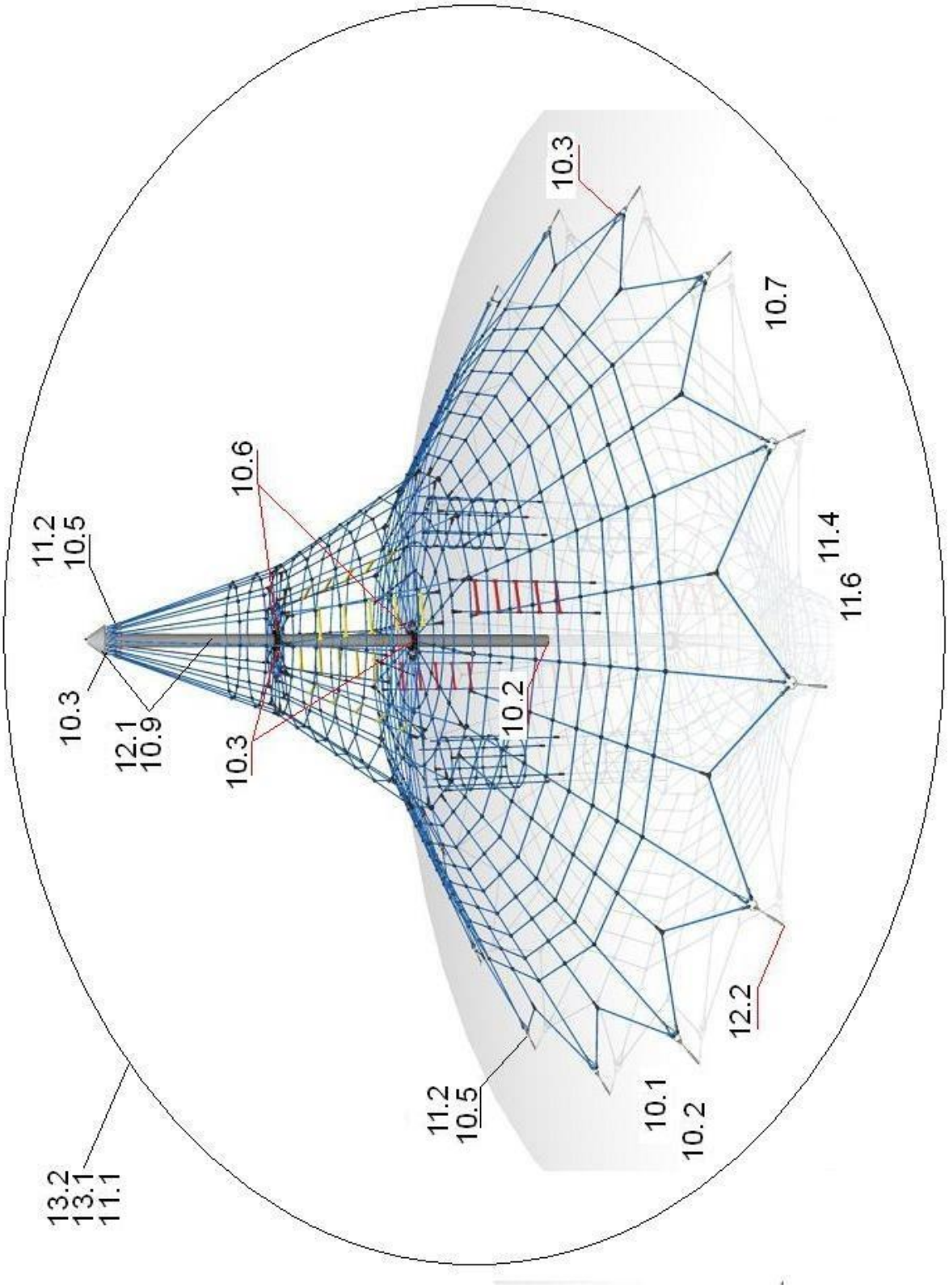
8.1.4 Faults that compromise function



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

9.1 Image



10 Monthly maintenance

10.1 Check the spaces between the equipment and the ground (clearance and height of fall).

10.2 Check the ground surface in the area with fall protection for hard objects and loose foundations.

10.3 Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.

10.4 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.

10.5 Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.

10.6 Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.

10.7 If necessary, remove excess padding maaaterial from the post footings due to danger of rotting.

10.8 Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.

10.9 Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.

11 Quarterly maintenance

11.1 Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.

11.2 Tighten all forms of attachment.

11.3 Repaint and retreat surfaces.

11.4 Maintenance of fall protection surfaces.

11.5 Lubrication of joints.

11.6 Check the height of the fall and top up with loose filler if necessary. If the posts are labelled, top up as far as the mark.

11.7 Retighten all bolts



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.

12.3 Stability (check posts, bracing, foundations, etc.).

12.4 Ascertaining whether there are any changes in equipment safety as a result of repairs that have been carried out or components that have been added or replaced.



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: Maxi Cheops pyramid (registered design) / Art. No. 4643-3B _____

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.: 4643-3B

Type of item: Maxi Cheops pyramid

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: _____