

A Assembly Instructions **Little Eagles Nest with GRP slide**

Art. 4634
Oak posts Ø20 cm
(with safety steel plates)



Operator: _____

Location: _____

Revision 0 – 2006-05-24

First released version

Assembly instruction

Revision 4 – 2010-04-28 (Safety area)

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1 Introduction Installation

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 or from Huck Seiltechnik GmbH

Address: Huck Seiltechnik GmbH
Dillerberg 3
35614 Asslar/Berghausen
Phone +49 (0)6443 / 83 11 - 0
Fax +49 (0)6443 / 83 11 79

Please do not hesitate to contact us **+49(0)6443 / 8311-51** or **70** on weekdays 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 (e.g. HTS plus Teflon no. 893128 by Würth) or another similar lubricant.

Drawings / views

All optical illustrations simply demonstrate the proportions/dimensions to be followed, but are not binding, technical equipment images.

Technical modifications supporting the advancement of our articles are subject to change.

Measurement tolerances / dimensions

Due to the quality and characteristics of equipment parts, minor dimensional tolerances over drawings data are possible.

This regards all visible dimensions, except for foundation dimensions respectively dimensions below OK ground surface/play surface.

2 Data sheet: Little Eagles Nest without Slide, Art. 4634-1

1. Space required 2,55 x 3,70 m resp. 4,85 x 6,95 m including safety area
Height of fall: 1,00 m
2. Ground surface

Ground surface material	Description mm	Minimum thickness of layer mm	Maximum height of fall mm
Lawn top soil			≤ 1000*
Chipped bark	Grain size 20 – 80	300	≤ 2000
		400	≤ 3000
Wood chippings	Grain size 5 – 30	300	≤ 2000
		400	≤ 3000
Sand	Grain size 0,2 – 2	300	≤ 2000
		400	≤ 3000
Gravel	Grain size 2 – 8	300	≤ 2000
		400	≤ 3000
Other ground surface material	Like tested according to HIC		

* in Germany, lawn is a sufficient surface material for heights of up to 1,50m

3. Name and size of the largest part of the equipment:
GRP-slide (1 piece) length approx. 2,00 m, width approx. 0,50 m
4. Name and weight of the heaviest part of the equipment:
1 freight pallet with play equipment part approx. 90 kg
5. Intended age group: 3 years and up

Attention! Equipment to be embedded in concrete

Concrete: C25/30

Concrete requirement: ~0,5 m³

Size of foundation / excavation:

(Upper edge concrete = 20 cm below upper edge play level)

1 x 0,80 m long x 0,80 m wide, total depth: 0,90 m incl. 10 cm percolation layer

1 x 0,40 m long x 0,70 m wide, total depth: 0,75 m incl. 10 cm percolation layer

(end of slide)

Required accessories: Maybe small excavator, compactor (Frosch), standard tools (e.g. barometric level, water balance, various wrenches resp. Allen wrench, screw drivers, etc.).



Attention!

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

Soil classification 4: Light up to medium plasticity, interlaced, with little sediment (proportion < 30 % larger than 63 mm grain size in diameter).

Soil classification 5: Grounds of soil classification 3 and 4 with more sediment (proportion > 30 % larger than 63 mm grain size in diameter).

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

Assembly time once basic equipment is embedded in concrete:

Approx. 2 hours, number of persons required: 2

Scope of supply does not include: Concrete slab (1 piece).

(Concrete slab ~ 250 x 250 x 40 mm) and maybe some support battens (roof battens)

6. Spare parts that may be required can be directly obtained from your supplier or from Huck Seiltechnik

Address: Huck Seiltechnik
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D-35614 Asslar/Berghausen
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7. **We hereby confirm that this play equipment has been tested and certified in accordance with the play equipment standard EN 1176-1.**

3 Scope of supply, parts list with part numbers

3.1.1 in letters

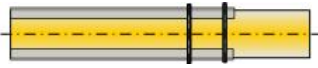
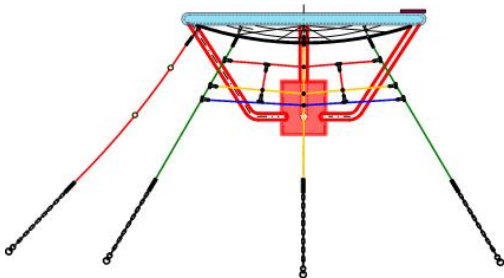






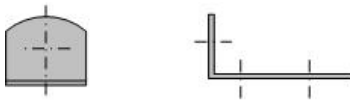
Table 3-1: Scope of supply, parts list with part numbers

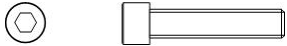







Pos.	Quantity	Element / description	Size	O.K.	Missing
1	1	Oak post with safety plates (pre-assembled).	Ø 20 cm - 1,40 m lg		
2	1	Play equipment part (pre-assembled)			
3	1	Slide (incl. frame)			
100	1	Threaded rod	M12 x 500 mm long galvanized		
101	2	Hexagon nuts	M12 galvanized		
102	3	Small plates (BB-basket) to shim with pins			
103	8	Countersunk Inbus-screws	8 x 80 mm Inox		
104	5	Screw-in ground anchors	Approx. 500 mm lg., galv.		
105	2	Brackets 65 x 35 x 35	65 x 35 x 35 mm galv. pre-assembled with slide		
106	4	Cylinder head screws with internal hexagon DIN 912	M6 x 16 mm Inox pre-assembled with slide		
106a	2	Cylinder head screws with internal hexagon DIN 912	M6 x 16 mm Inox pre-assembled with play equipment part		
107	10	Washers DIN 125	Ø 6,4 mm Inox 4 pieces pre-assembled with slide		
108	6	Stop screw nuts DIN 985	M6 Inox 4 pieces pre-assembled with slide		
109	2	Brazen nuts	M6 pre-assembled with play equipment part		
110	2	Washers DIN 9021	Ø 8,4 mm Inox pre-assembled with play equipment part		
111	2	Loctite (thread locking)	3 ml each		

Pos.	Quantity	Element / description	Size	O.K.	Missing
	1	Sidewalk slab (on-site)	250 x 250 x 40 mm		

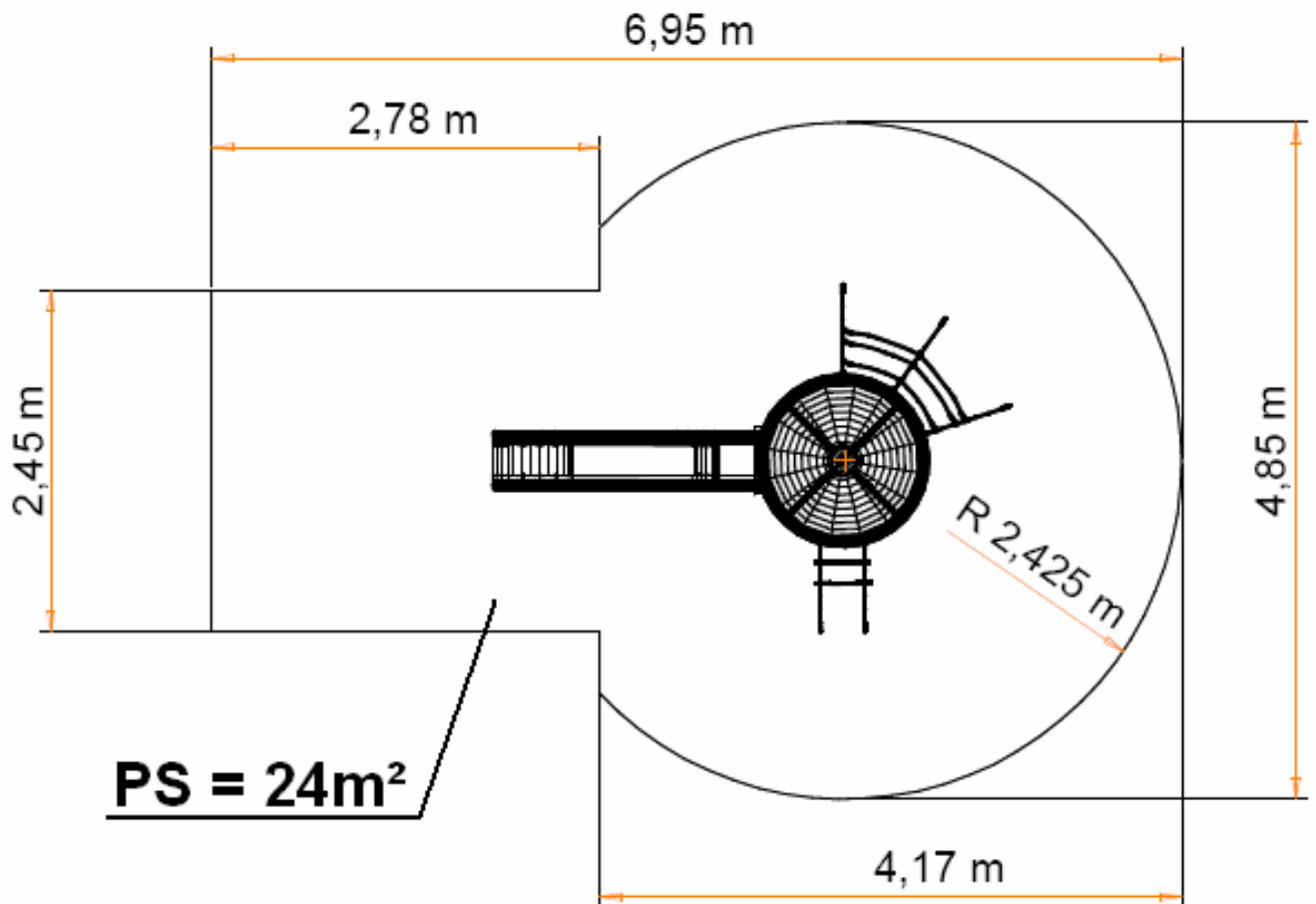
3.1.2 in symbols

Table 3-2: Scope of supply, parts list with part numbers

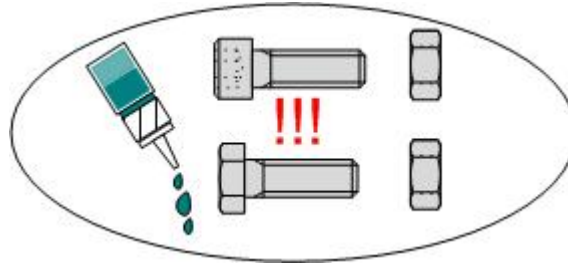
Pos.	Quantity	Symbol
1	1	 Ø 20 cm, 1,40 m lg
2	1	
3	1	 2,00 m x 0,45 m
100	1	 M12 x 500 mm long galv.
101	2	 M12 galv.
102	3	
103	8	 8 x 80 mm Inox
104	5	 approx. 500 mm lg., galv.
105	2	 65 x 35 x 35 mm galv. pre-assembled with slide

Pos.	Quantity	Symbol
106	4	 M6 x 16 mm Inox pre-assembled with slide
106a	2	 M6 x 16 mm Inox pre-assembled with play equipment part
107	10	 Ø 6,4 mm Inox 4 pieces pre-assembled with slide
108	6	 M6 Inox 4 pieces pre-assembled with slide
109	2	 M6 apre-assembled with play equipment part
110	2	 Ø 8,4 mm Inox pre-assembled with play equipment part
111	2	 Loctite (thread locking) 3 ml each
	3	 Sidewalk slab 250 x 250 x 40 (on-site)

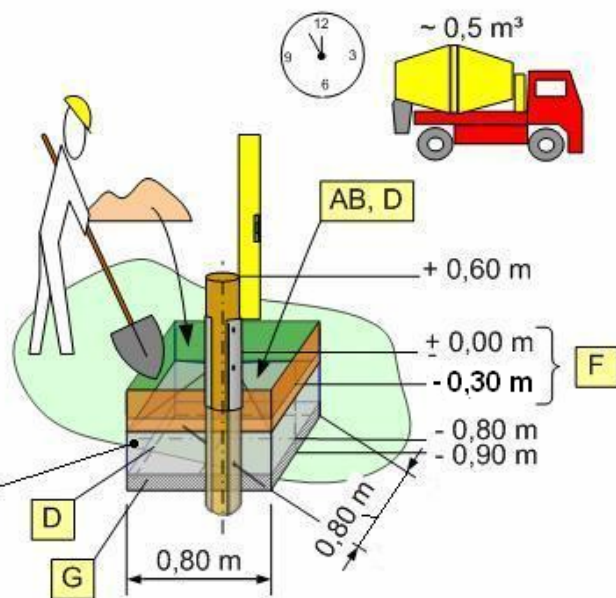
4 Assembly Instruction



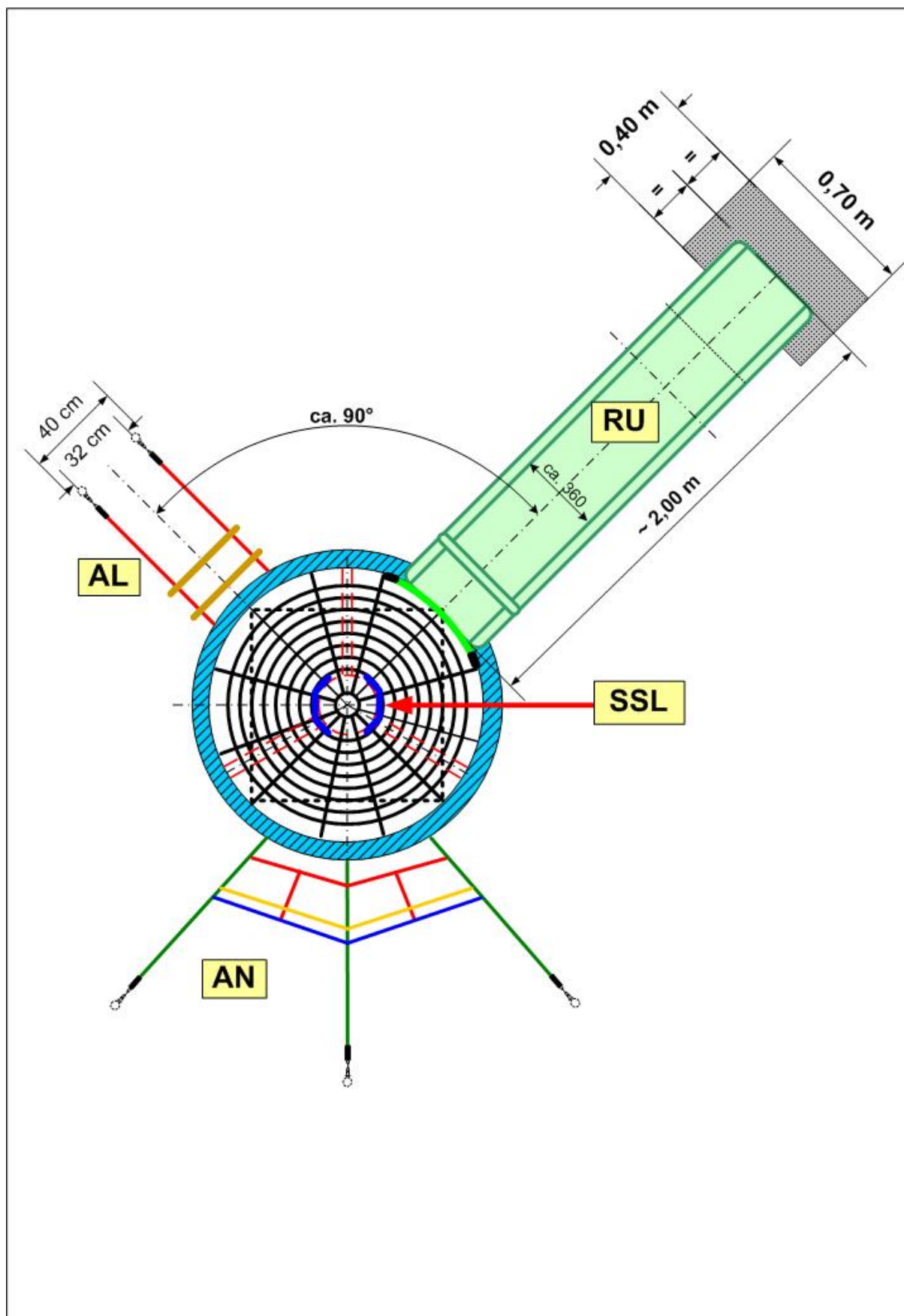
Securing bolts and nuts !

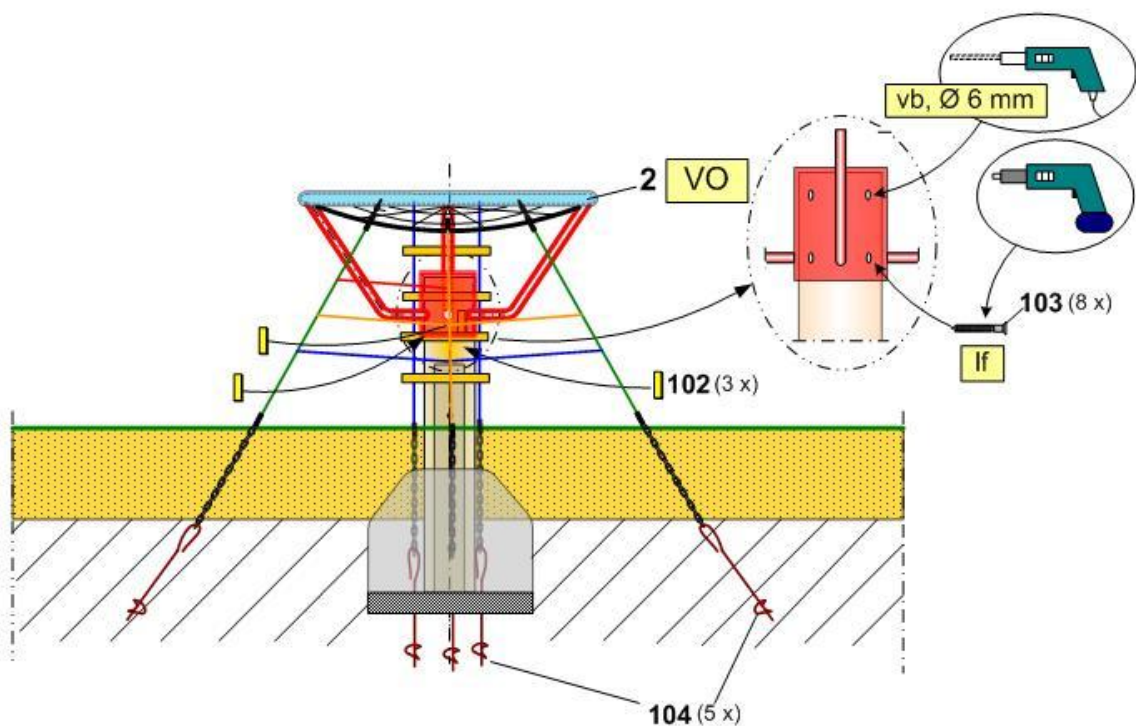
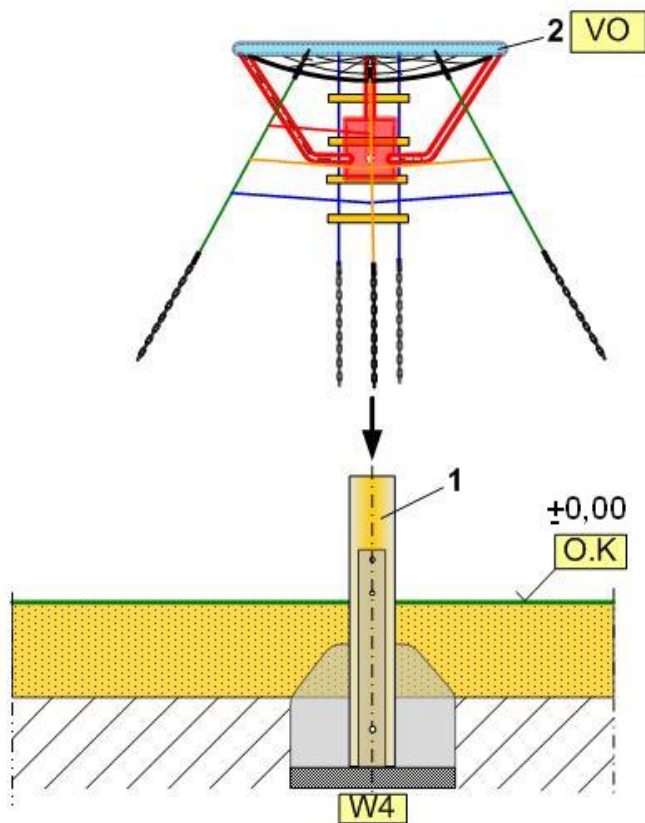


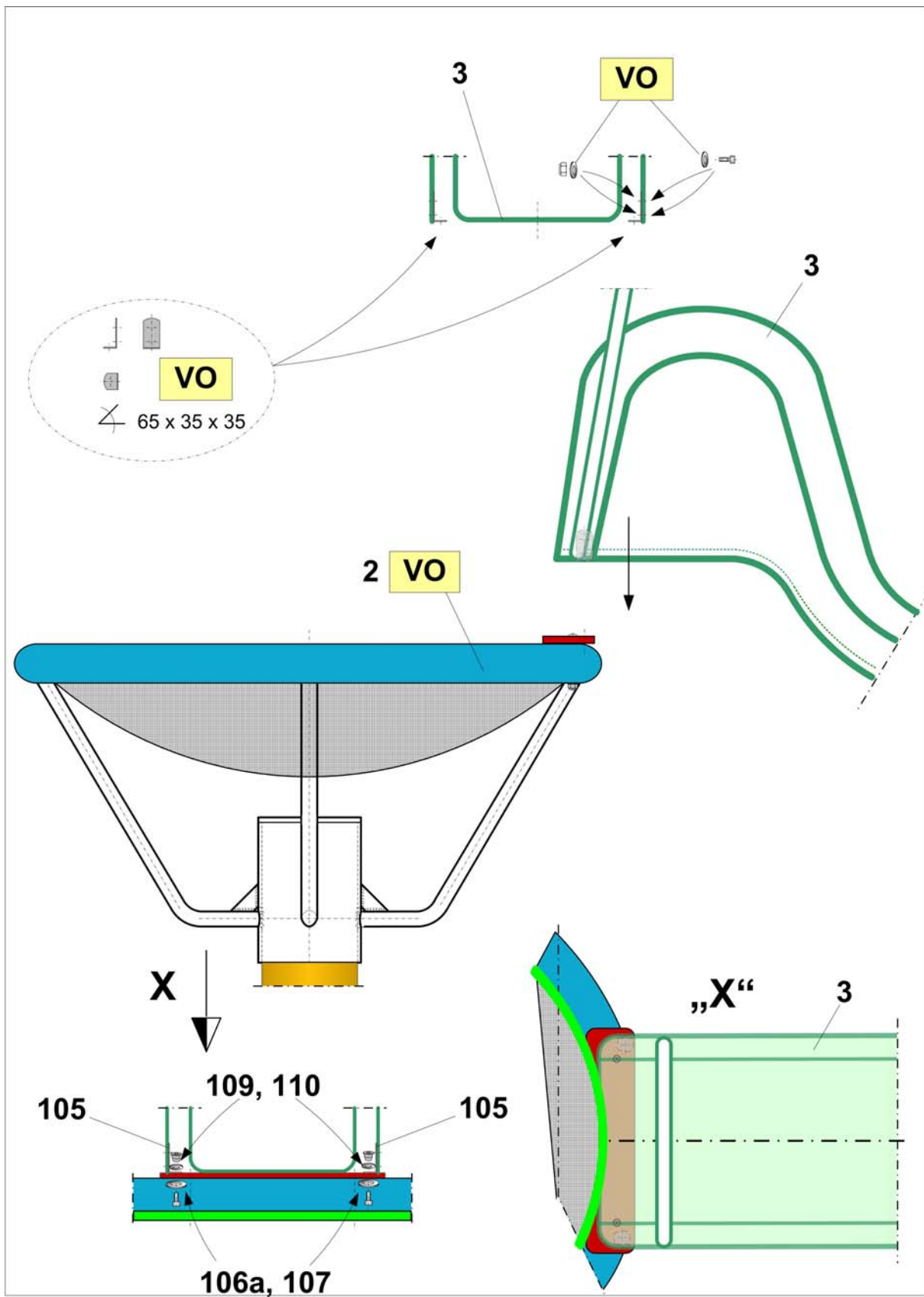
**All bolts, nuts, cylinder nuts, etc.
(except for Nyloc nuts)
must be secured with at least 5 drops of Loctite!**

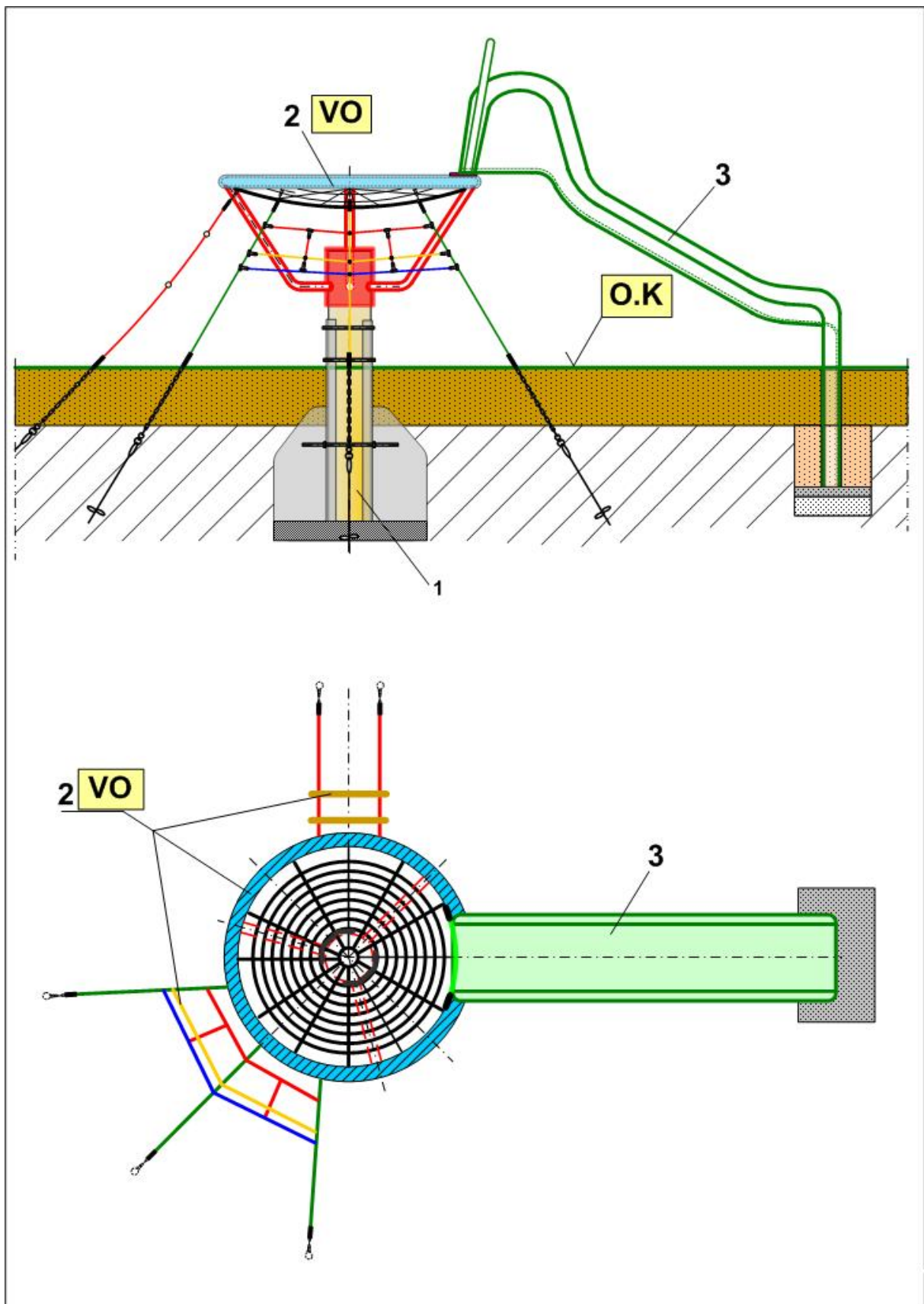













	<u>Abbreviations and signs:</u>
AB	Setting time for concrete at least 7-8 days
AL	Climbing ladder
AN	Climbing net
bMa	Adjust during assembly
D	Concrete C25/30 (for foundations)
EE	Screw-in anchor
F	Fall protection
FR !!	Radius of upper edge of foundation at least 10 cm !
G	Percolation layer
Gew	Sidewalk slab on-site
If	Lubricate slightly
m	At least
O.K	Upper edge play level
PS	Safety area
RU	Slide
SSL	Note position of safety plates!
vb	predrill
VO	Pre-assembled
	<p><u>Round off foundation edges (min. R = 100 mm)!</u></p> <p><u>Foundation sizes apply for regular soil classification 4-5 (grown surface).</u></p> <p><u>Soil classification 4:</u> Light up to medium plasticity, inter-laced, with little sediment (proportion < 30 % larger than 63 mm grain size in diameter).</p> <p><u>Soil classification 5:</u> Grounds of soil classification 3 and 4 with more sediment (proportion > 30 % larger than 63 mm grain size in diameter)</p> <p><u>In case of sandy and soft soils, the surface measure of foundations has to be enlarged for about 50%!</u></p>

see drawings

5 Examination after installation



If the equipment is not installed in a secure manner you must ensure that access is closed to the public!

Marking filling level

- Markings on the equipment to indicate height of fall protection material (resp. loose fill material).

In the following cases the equipment is not yet safely installed:

- Safe installation of the equipment is not fully completed
- Impact absorbing surface is not installed yet
- The upkeep of occupational safety through appropriate maintenance can not be guaranteed.

Removing assembling accessories

- Please make sure that all accessories, which were used for the installation of the equipment, are removed from the play area! Only then the equipment can be declared open.

Details concerning inspection of the equipment prior to first use

- No acceptance test specifications apply prior to first use.

Retighten bolts

- Please retighten all bolts after one week of initial use. Later, it is sufficient to retighten the bolts upon maintenance.

B Maintenance Instructions **Little Eagles Nest with GRP slide**

Art. 4634

Oak post Ø20 cm
(with safety steel plates)



Revision history

Revision 0 – 2006-05-24

First released version

Maintenance instruction

Revision 4 – 2010-04-28 (Safety area)

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6 Introduction maintenance

6.1 General information

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 or from Huck Seiltechnik GmbH

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

This maintenance instruction is based on the standard “EN 1176-1”.

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 (e.g. HTS plus Teflon no. 893128 by Würth) 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, which you can find in chapter 3.

7.6 Special instructions for the disposal of individual equipment components

No special instructions are necessary

7.7 Special measures in 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 protection 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 safety cannot be repaired straight away, the playground equipment must be closed to the public 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 checked to ensure that there are no missing screws (watch for see-through holes, for example).

7.11 Preventing equipment use

The use of the equipment should be prevented in case of incomplete installation, disassembly, maintenance, repairs and faults.

7.12 Warranty resp. guarantee!

Steel posts and post shoes 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 their dug-in parts and checked **for corrosion**.

Zinc paint should be applied to any corroded areas and scratches. Re-impregnate ropes if they are extremely worn.

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.

Maintenance interval in the event of intensive use

We point out that checks and/or maintenance have to be carried out more frequently if the equipment is used very intense!!!

8.1.2 Faults that compromise safety



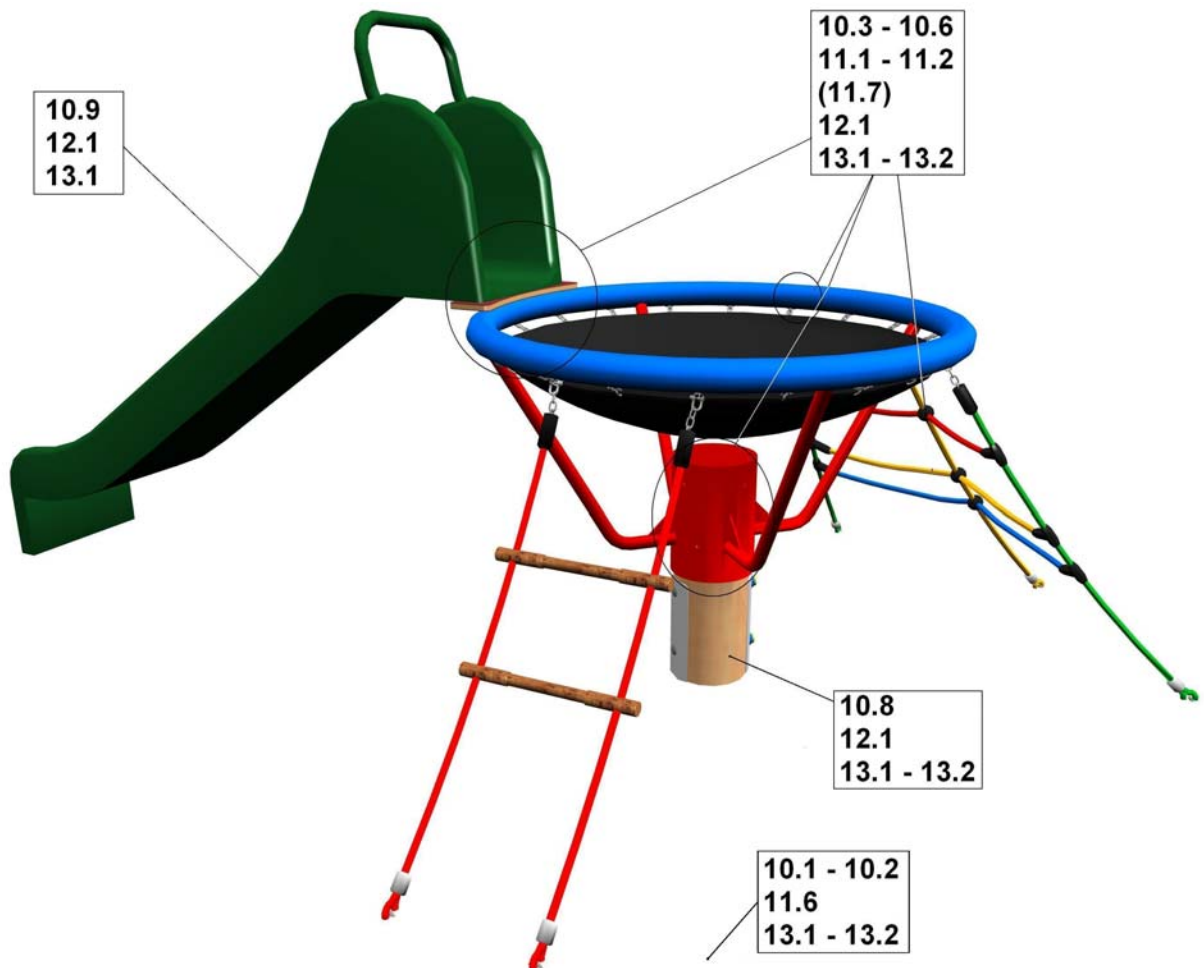
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

8.1.3 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



10 Monthly maintenance

- 10.1 Check the spaces between the equipment and the ground (clearance resp. 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.**
- 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 filling material 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.**

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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 Lubricate joints.**
- 11.6 Check the height of the fall and fill up with loose filling material, if necessary. If the posts are marked, fill up correspondingly.**
- 11.7 Retighten bolts.**

12 Half-yearly maintenance

- 12.1 Check stability of posts, braces, foundations etc. Check the complete play equipment after repairs or when equipment parts have been added or replaced.**

 <p>Attention</p>	<h2>Annual main inspection</h2>
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13 Annual maintenance

- 13.1 The complete play equipment as well as foundations and surfaces are to be checked if it is safe for operation.**
- 13.2 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. All woods are to be treated with the enclosed varnish. Here also apply against wood grain direction in order to have cracks, which happen to appear after treatment at the factory, soaked with varnish thoroughly. This will prevent ingress of water.**
- All wood posts have to be excavated around the ground/air area and then varnished. Beams of swing frames also have to be varnished thoroughly. The play equipment should be closed to the public until the varnish has completely dried up, which might take 1 day or longer, depending on the weather.**
- Corroded areas and scratches at steel have to be treated with zinc paint.**



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!

14 Maintenance printout

Name of equipment: Little Eagles Nest with Slide _____ / Part no. 4634 _____

Location: _____

Customer or operator: _____
(Town, Council, School)

Date of inspection	Inspector	OK	Accessible	Closed	Defects	Repaired by	Date

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

15 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 Huck Seiltechnik GmbH via fax +49 (0)6443 / 8311-79!

Part no.: 4634

Type of equipment: Little Eagles Nest with Slide

Serial number: _____

Customer or operator (town, council, school, etc.):

Person in charge:

Installation Company (address):

Assistant in charge (assembler):

Complete assembly instructions, maintenance instructions and maintenance printout received,

(Signature operator)
(Stamp)

(Signature Installation Company)

Date: _____