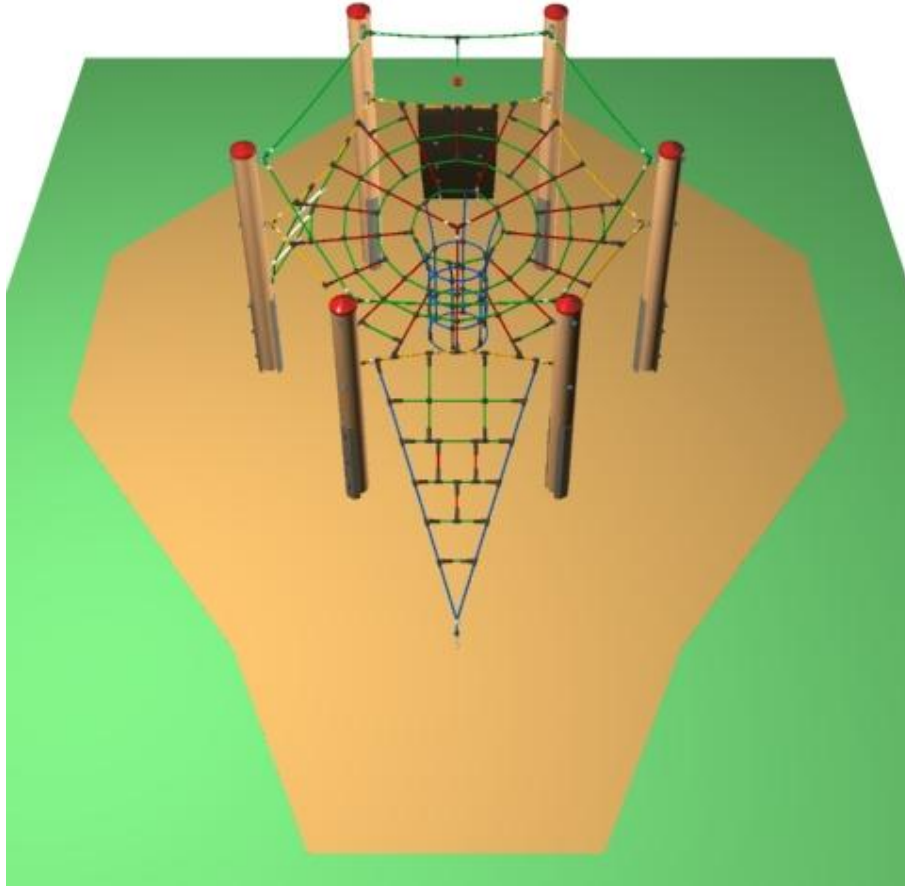


Installation Instructions

Funnel Web

Art-No. 4597-25



Operator: _____

Location: _____

Revision history

Revision 0 – 2009- 03-12
First released version

Assembly instruction SP

Revision 1 – 2011-02-07 SB 300 mm FH
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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 / 8311-0
Fax +49 (0)6443 / 8311-79

Please do not hesitate to contact us **+49(0)6443 / 8311-51** or **70** 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 (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 Funnel Web, Art-No. 4597-25

Space required: 3,30 m x 5,15 m resp. 6,30 m x 8,15 m

Height of fall: 1,90 m

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

1. 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	300/400	<= 2000/3000
Wood chippings	Grain size 5 – 30	300/400	<= 2000/3000
Sand	Grain size 0,2 – 2	300/400	<= 2000/3000
Gravel	Grain size 2 – 8	300/400	<= 2000/3000
Other ground surface materials	Like tested according to HIC		

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

2. Name and total dimension of the largest part of the equipment:
Gouglas fir post Ø 180 mm with pre-assembled post shoe; Length 3,70 m
3. Name and weight of the heaviest part of the equipment:
Douglas fir post approximately 91 kg (weight per post)
4. Intended age group: 3 years and up

Attention! Equipment to be embedded in concrete

Concrete: C25/30

Concrete requirement: ~ 2 m³

Size of excavation and foundation (**per equipment part**):

6 x 0,80 m long x 0,80 m wide, total depth 1,10 m including 10 cm percolation layer.

6 x 0,80 m long x 0,80 m wide x 0,70 m high, upper edges concrete rounded.



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%!

5. Assembly time once steel masts are embedded in concrete:
Approximately 2 hours. Number of persons required: 2-3.
6. Spare parts that may be required can be directly obtained from your supplier or from Huck Seiltechnik GmbH

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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.**

3 Scope of supply, parts list with part numbers





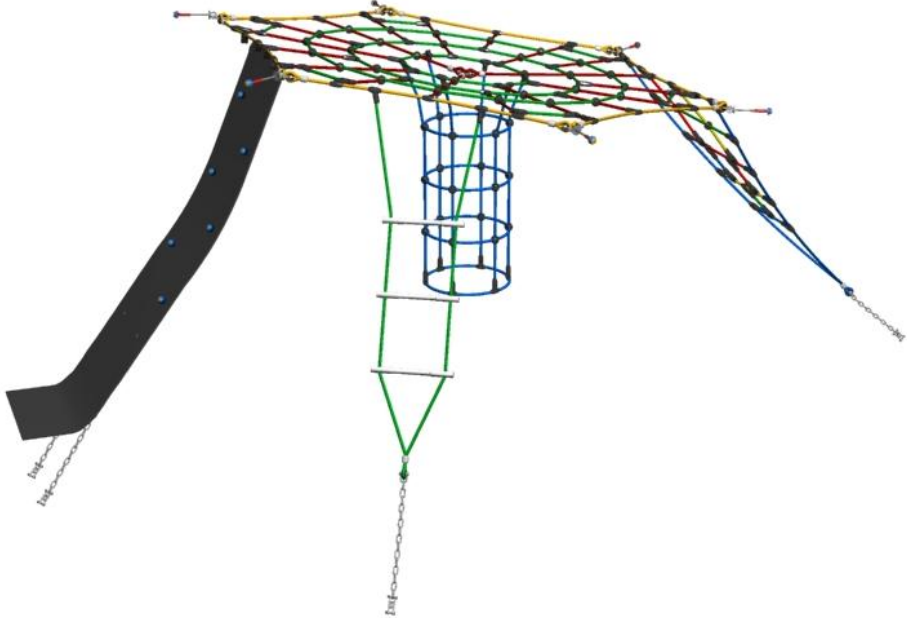
3.1 in letters









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

Pos.	Quantity	Element / description	Size	O.K.	Missing
1a	2	Douglas fir posts (with pre-assembled post shoe)	Ø 180 mm - 3,70 m long		
1b	2	Douglas fir posts (with pre-assembled post shoe)	Ø 180 mm - 3,50 m long		
1c	2	Douglas fir posts (with pre-assembled post shoe)	Ø 180 mm - 3,20 m long		
2	6	Red cap covers made of plastic	for Ø 180 mm		
3	1	Play equipment part: <u>Hexagonal net</u> incl. 1 rubber climber, 1 rope ladder and 1 triangular climbing net (<u>all pre-assembled!</u>)	(vo)		
4	1	Handrail (completely pre-assembled)	(vo)		
5	18	Screws for red cap cover			
6	1	Varnish (1 can) + paint brush			
7	40	Torx - screws			
8	4	Screw-in ground anchorr			
9	12	Threaded bushes with blue cap, Allen-screw + washer	(vo)		
10	12	Yellow caps			
11	12	Claw-washers			
	(6)	Sidewalk slab (not included!!)	On-site (i.e. is to be provided by customer)		

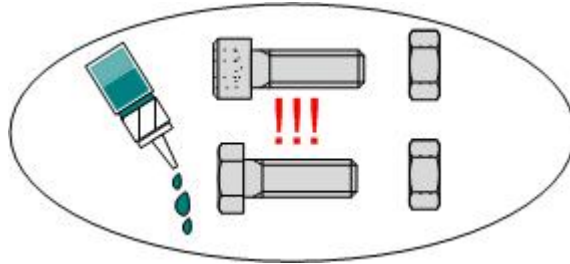
3.2 in symbols

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

Pos.	Quantity	Symbol
1a	2	 Ø 180 mm - 3,70 m long
1b	2	 Ø 180 mm - 3,50 m long
1c	2	 Ø 180 mm - 3,20 m long
2	6	 for Ø 180 mm
3	1	 (vo)

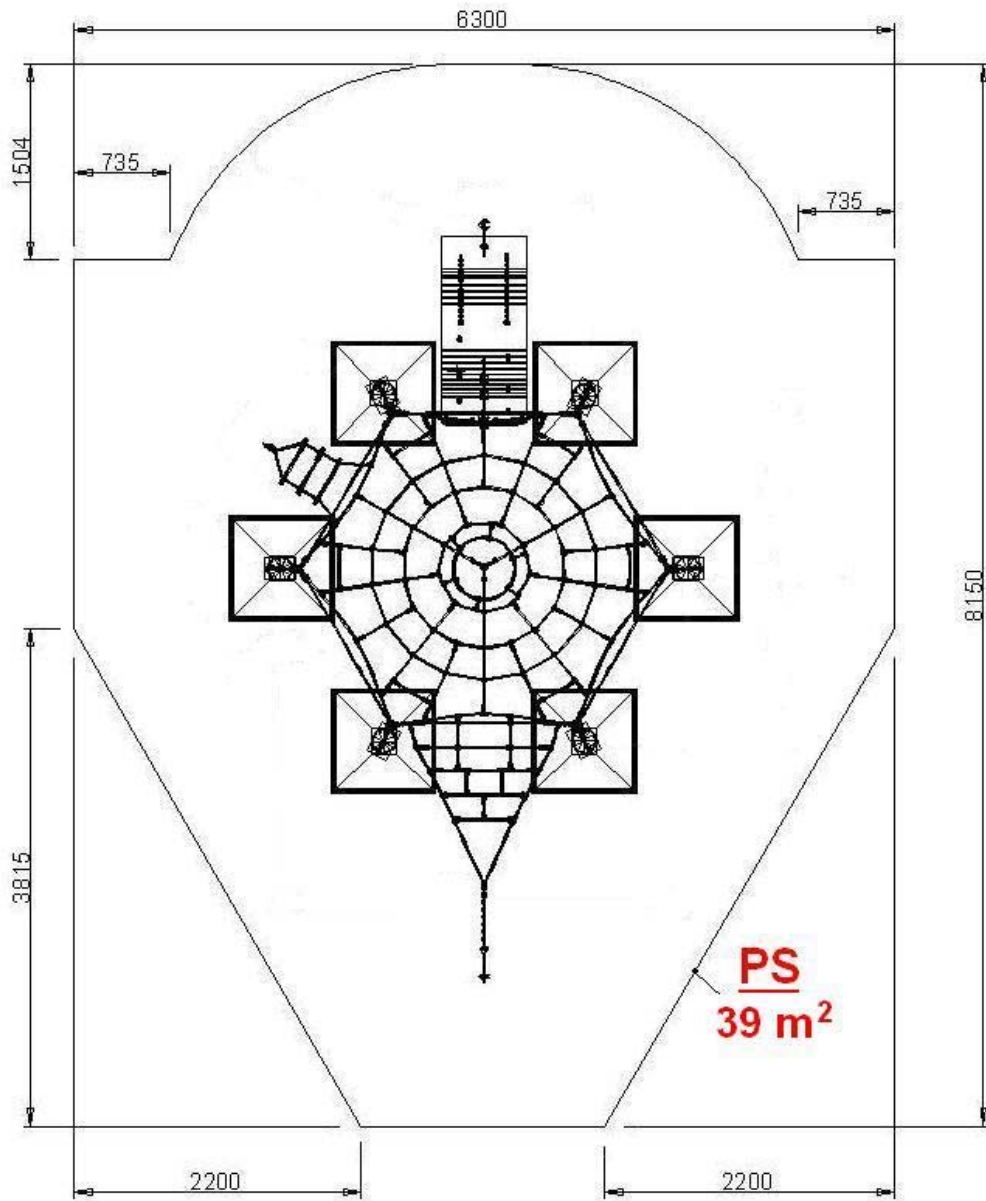
4	1	 <p>(vo)</p>
5	18	
6	1	
7	40	
8	4	
9	12	
10	12	
11	12	

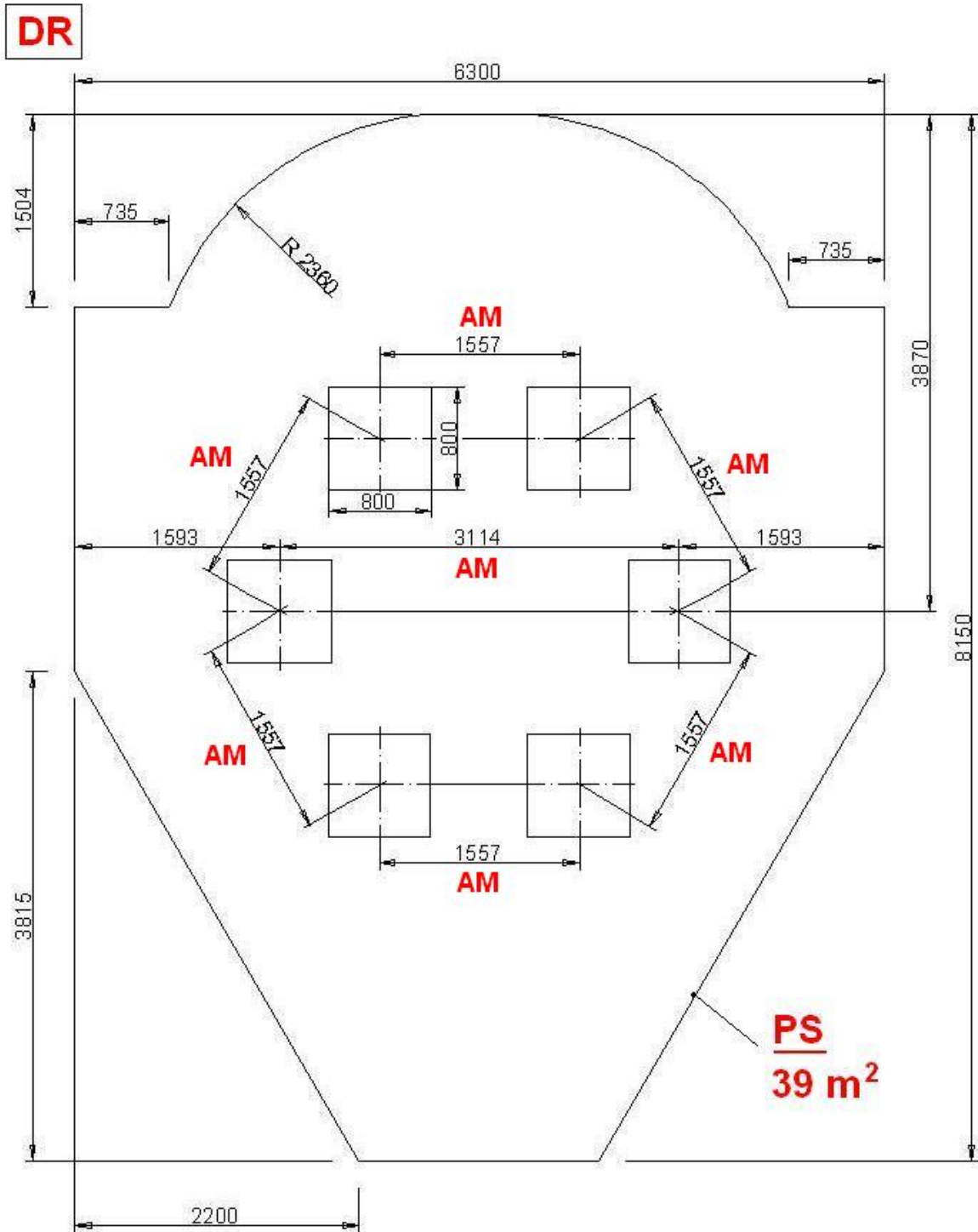
Thread locking!

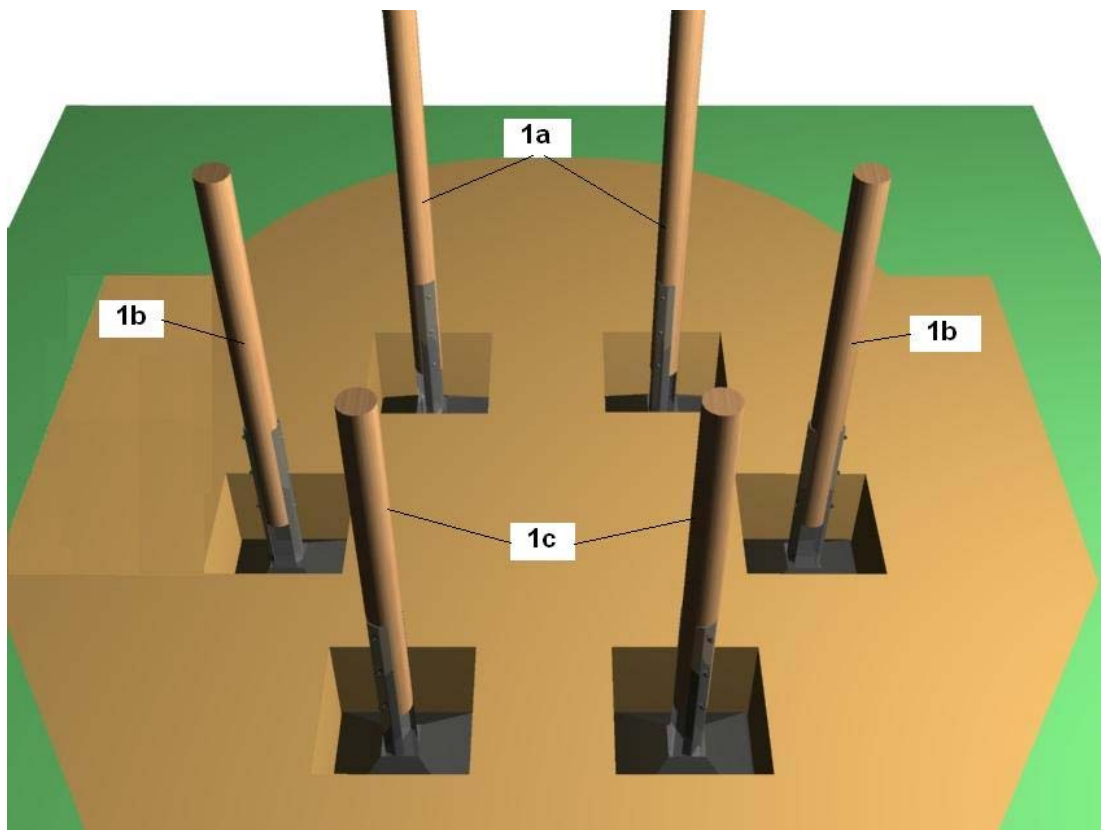
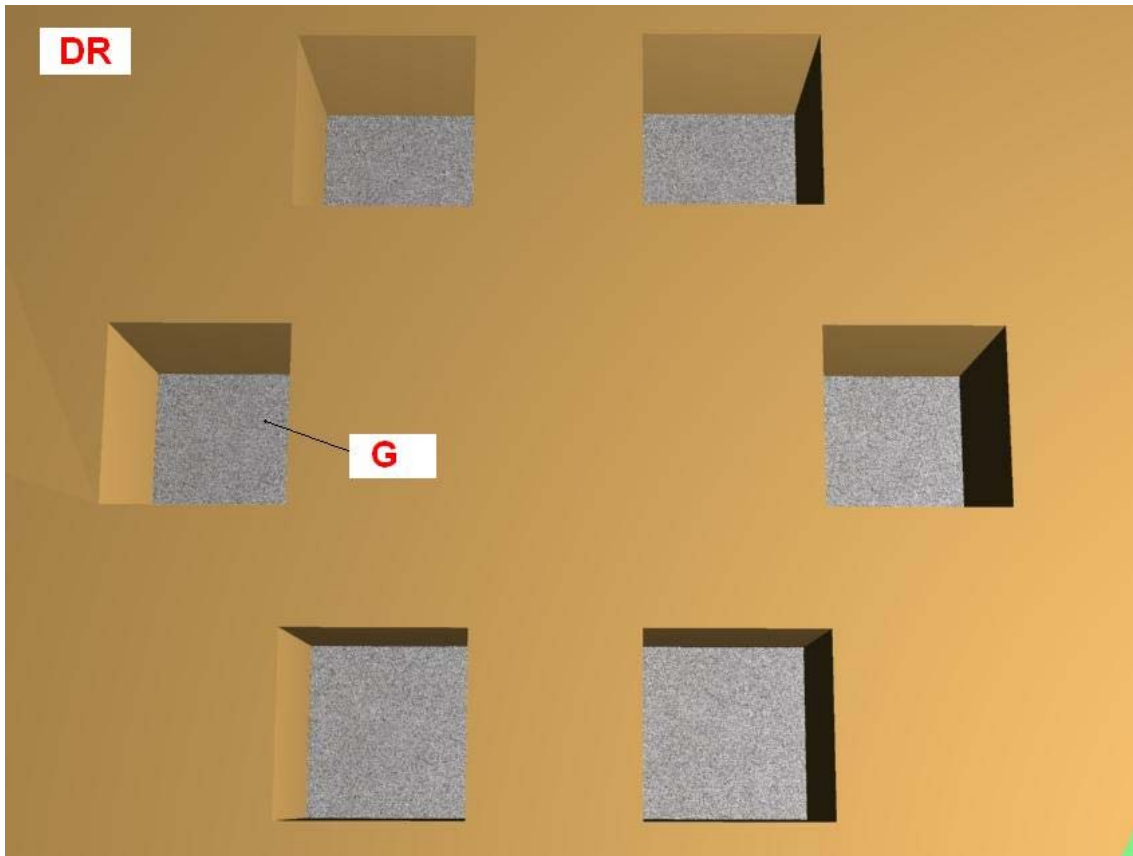


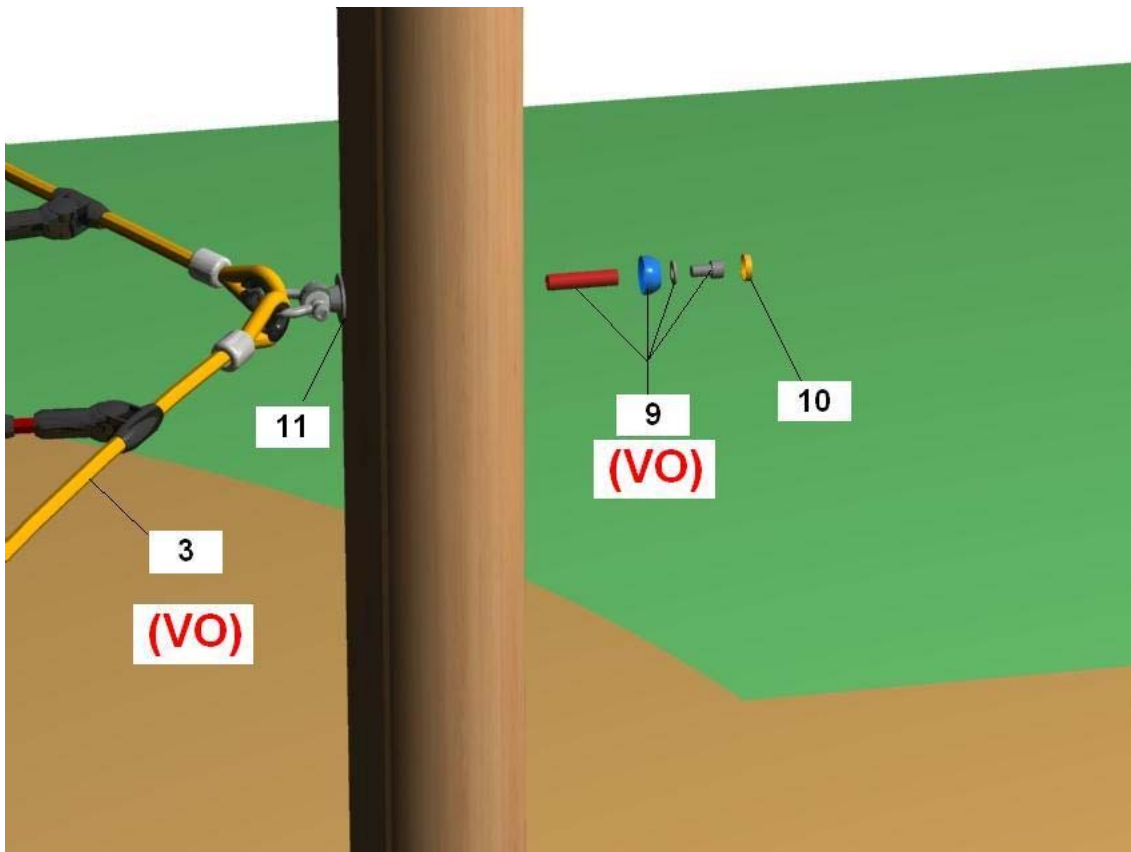
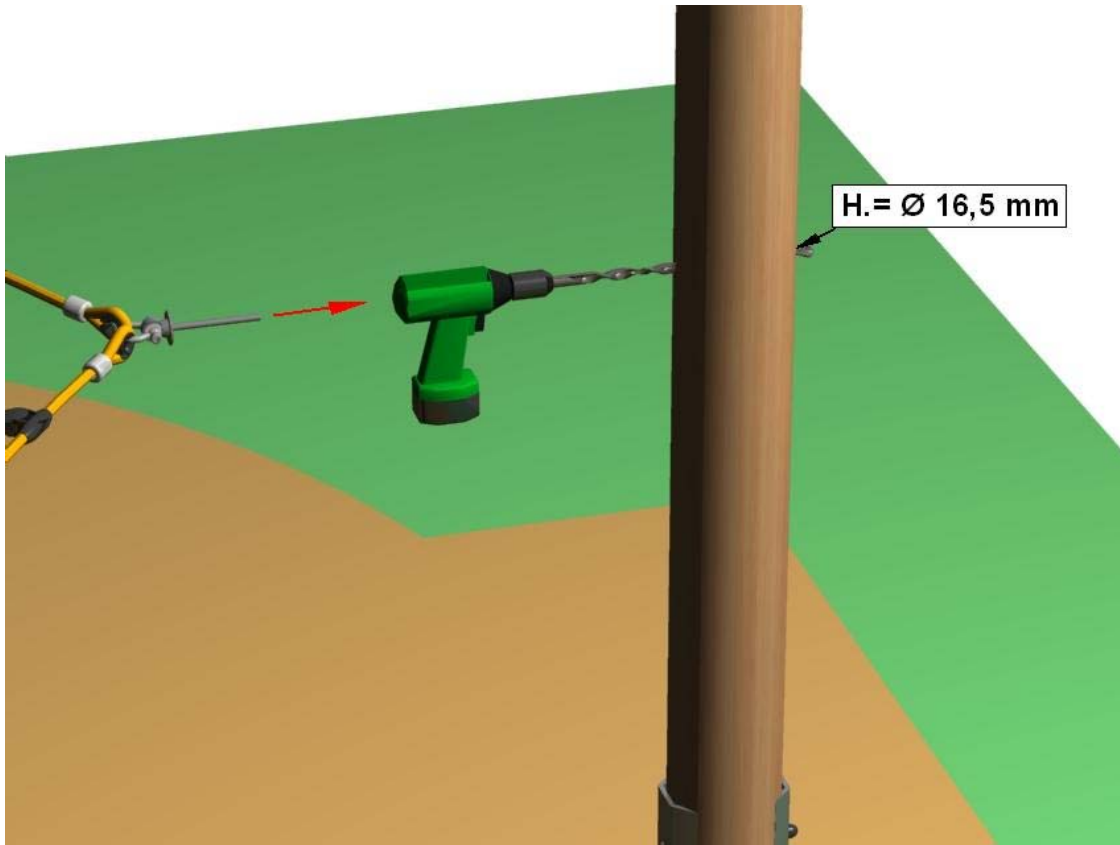
All screws, nuts and bushes have to be secured with Loctite (stop screw nuts excepted) (e.g. for Torx-bushes at least 5 drops are required)

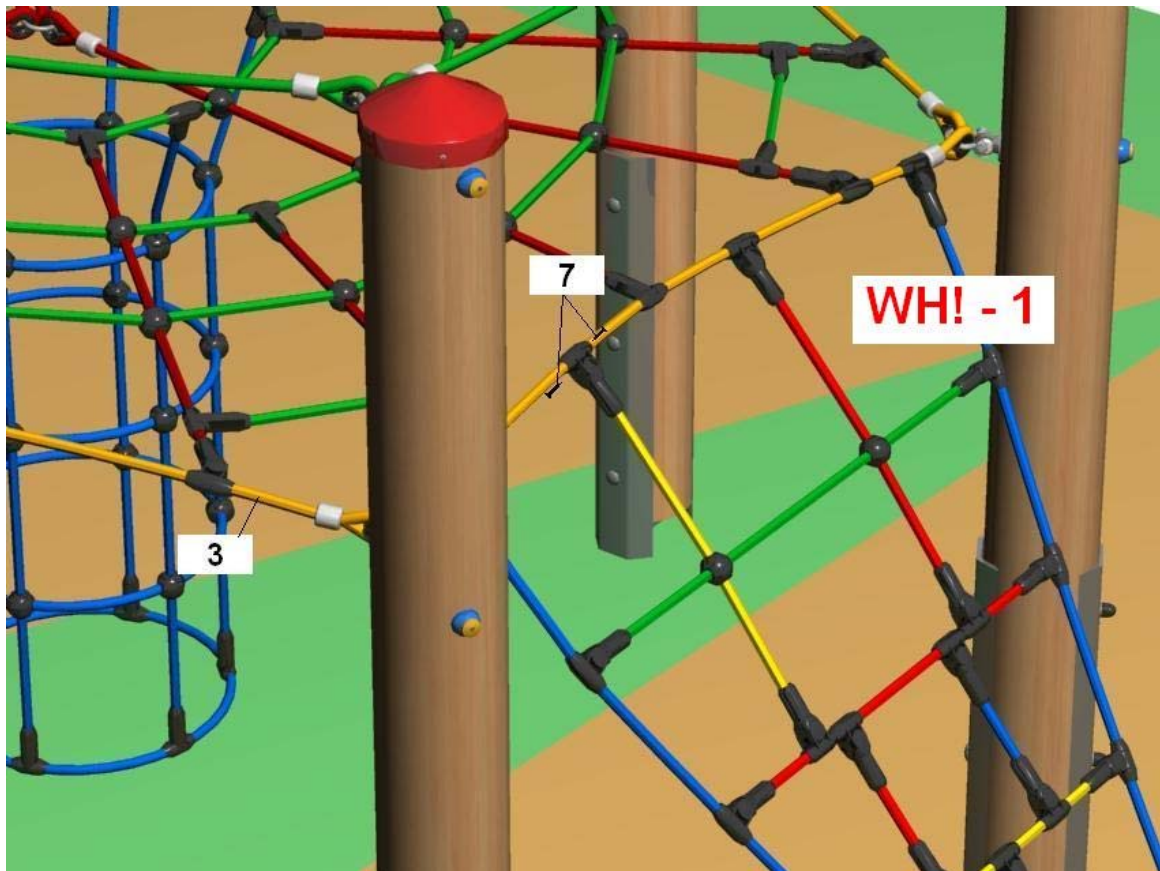
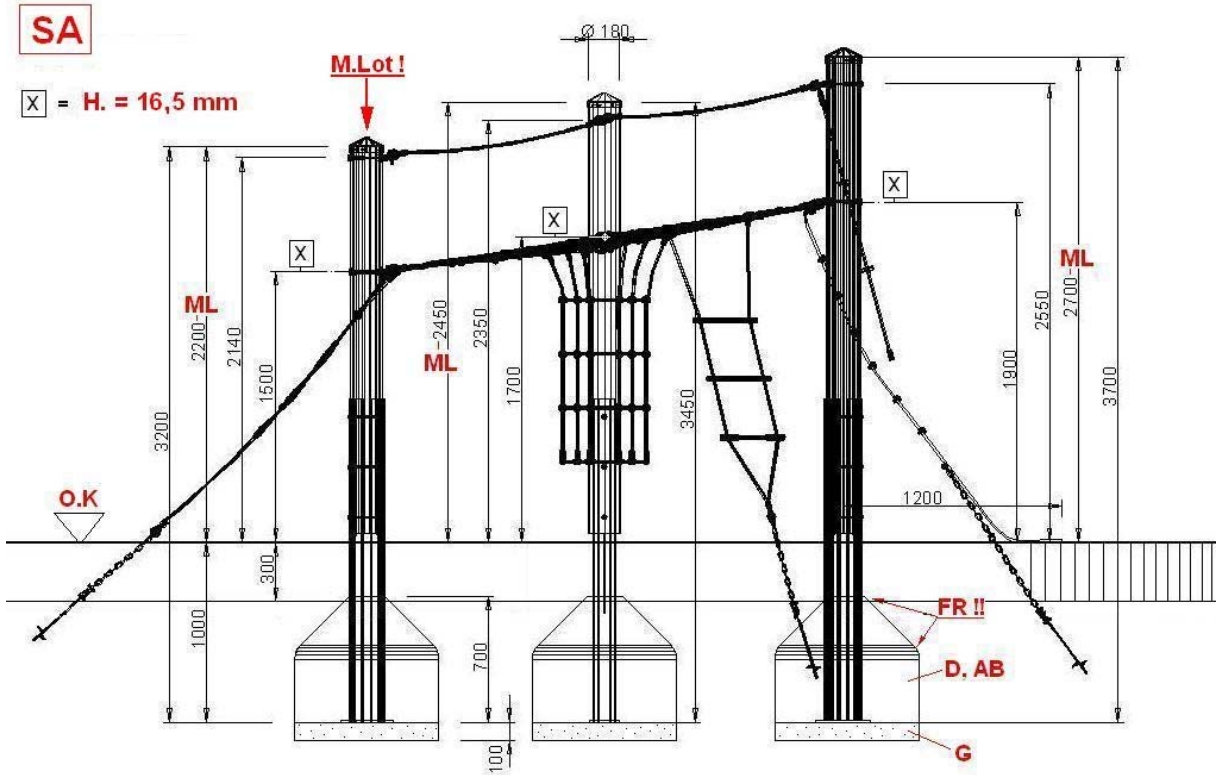
Assembly instruction

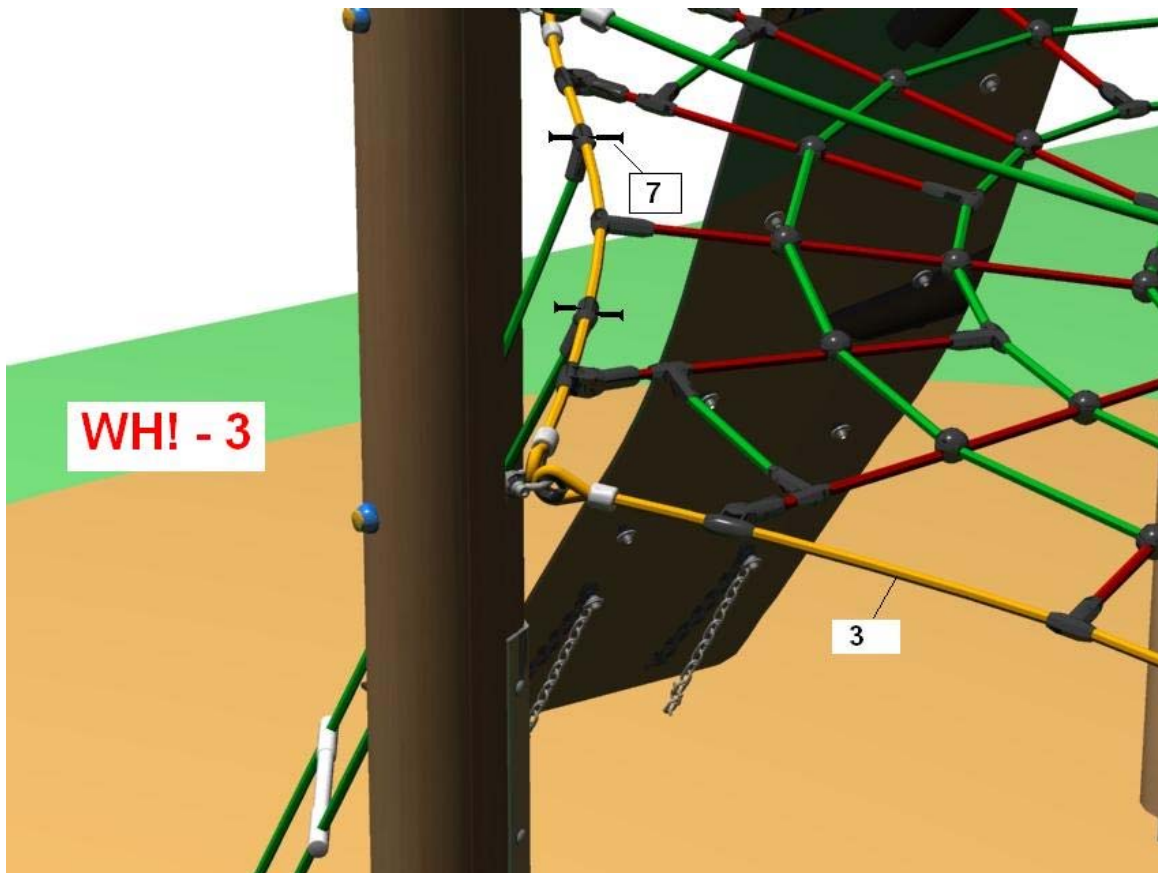
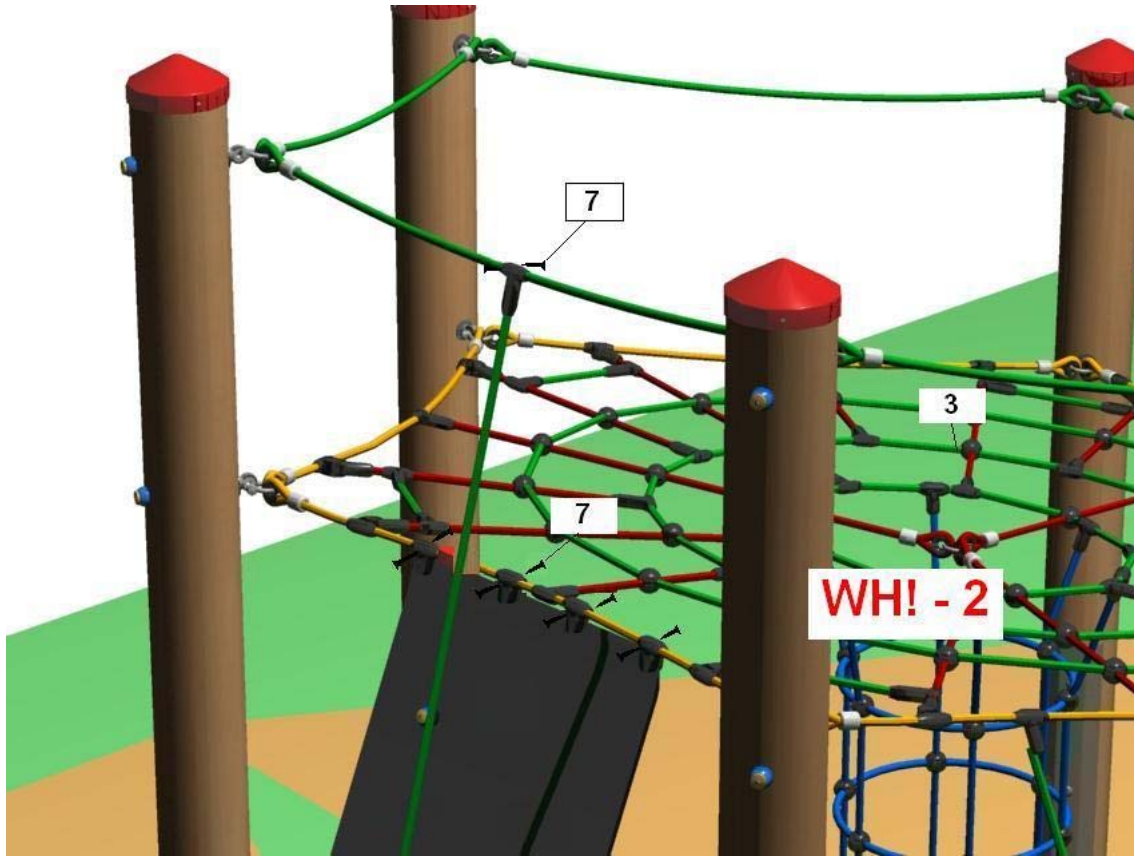













	<u>Abbreviations and signs:</u>
AB	Setting time for concrete C25/30 at least 7-8 days
AM	Dimension between axes (centre-centre) posts
D	Concrete C25/30 for foundation
DR	Top view
F	Fall protection
FR !	Radius of upper edges of concrete at least 10 cm
G	Percolation layer 10 cm
H. =	Bore diameter
M. Lot !	It is mandatory to erect mast/post perpendicular!
ML	Length of mast above play level
SA	Side view
O.K	O.K. play level
PS	Space required including safety area
RW	Regular maintenance
WH! - 1	<u>Important note 1!</u> Once the horizontal net (pos. 3) is assembled, the triangular climbing net (pre-assembled) is to be fastened with the Torx-screws.
WH! - 2	<u>Important note 2!</u> Once the horizontal net (pos. 3) is assembled, the rubber climber (pre-assembled) is to be fastened with the Torx-screws.
WH! - 3	<u>Important note 3!</u> Once the horizontal net (pos. 3) is assembled, the rope ladder (pre-assembled) is to be fastened with the Torx-screws.
	<u>Round off foundation edges (min. R = 100 mm)!</u> <u>Foundation sizes apply for regular soil classification 4-5 (grown surface).</u> <u>Soil classification 4: Light up to medium plasticity, inter-laced, with little sediment (proportion < 30 % larger than 63 mm grain size in diameter).</u> <u>Soil classification 5: Grounds of soil classification 3 and 4 with more sediment (proportion > 30 % larger than 63 mm grain size in diameter)</u> <u>In case of sandy and soft soils, the surface measure of foundations has to be enlarged for about 50%!</u>

See drawings

4 Examination after installation



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

4.1 Marking filling level

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

4.2 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.

4.3 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.

4.4 Details concerning inspection of the equipment prior to first use

- No acceptance test specifications apply prior to first use.

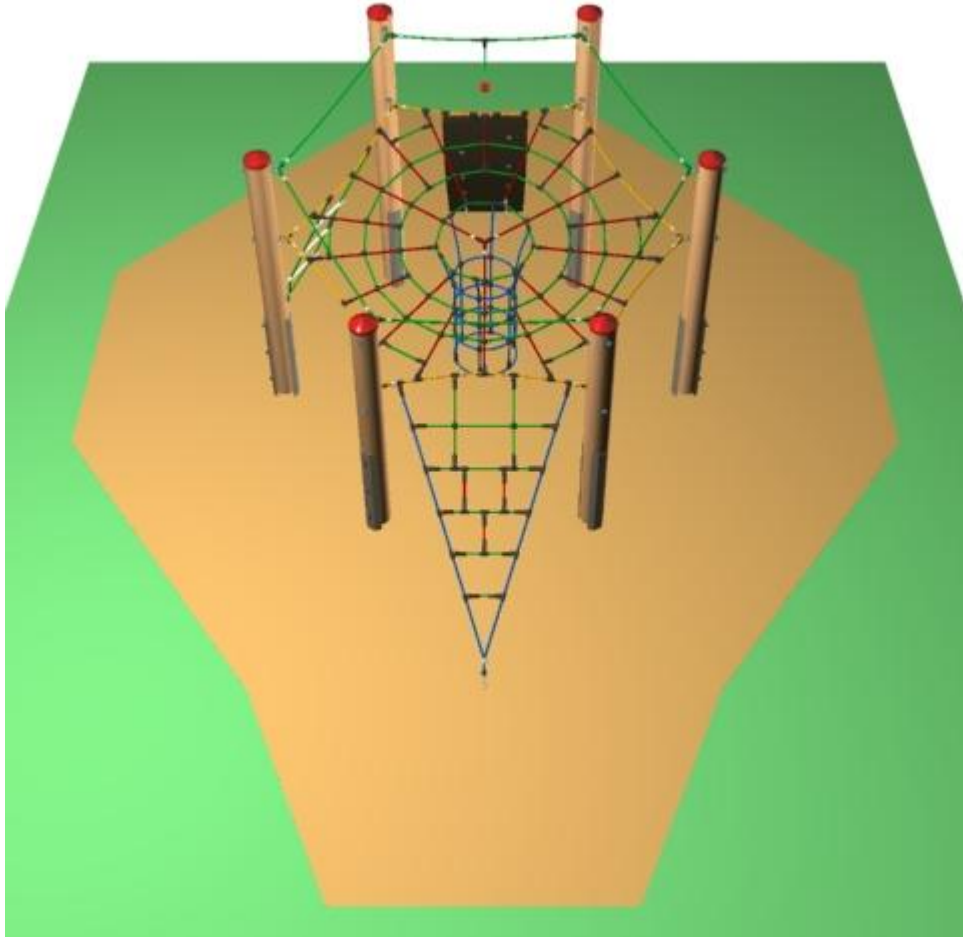
4.5 Retighten bolts

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

Maintenance Instructions

Funnel Web

Art-No. 4597-25



Revision history

Revision 0 – 2008-08-18
First released version

Maintenance instruction SP

Revision 1 –2011-02-07 SB 300 mm FH

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5 Introduction maintenance

5.1 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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Dillerberg 3
35614 Asslar/Berghausen
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Fax +49 (0)6443 / 8311-79



This equipment should only be assembled, maintained and repaired by **persons with the necessary expertise** who have to fill out the maintenance protocol (see next page to the last).

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”.

General maintenance information

5.2 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!

5.3 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!

5.4 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.

5.5 Spare parts

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

5.6 Identifying spare parts

All spare parts are listed in the parts list, which you can find in chapter 3.

5.7 Special instructions for the disposal of individual equipment components

No special instructions are necessary.

5.8 Special measures in the break-in period

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

5.9 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.

5.10 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.

5.11 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).

5.12 Preventing equipment use

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

5.13 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.

6 Maintenance timetable

6.1 Special advices

6.1.1 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.

6.1.2 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!!!

6.1.3 Faults that compromise safety



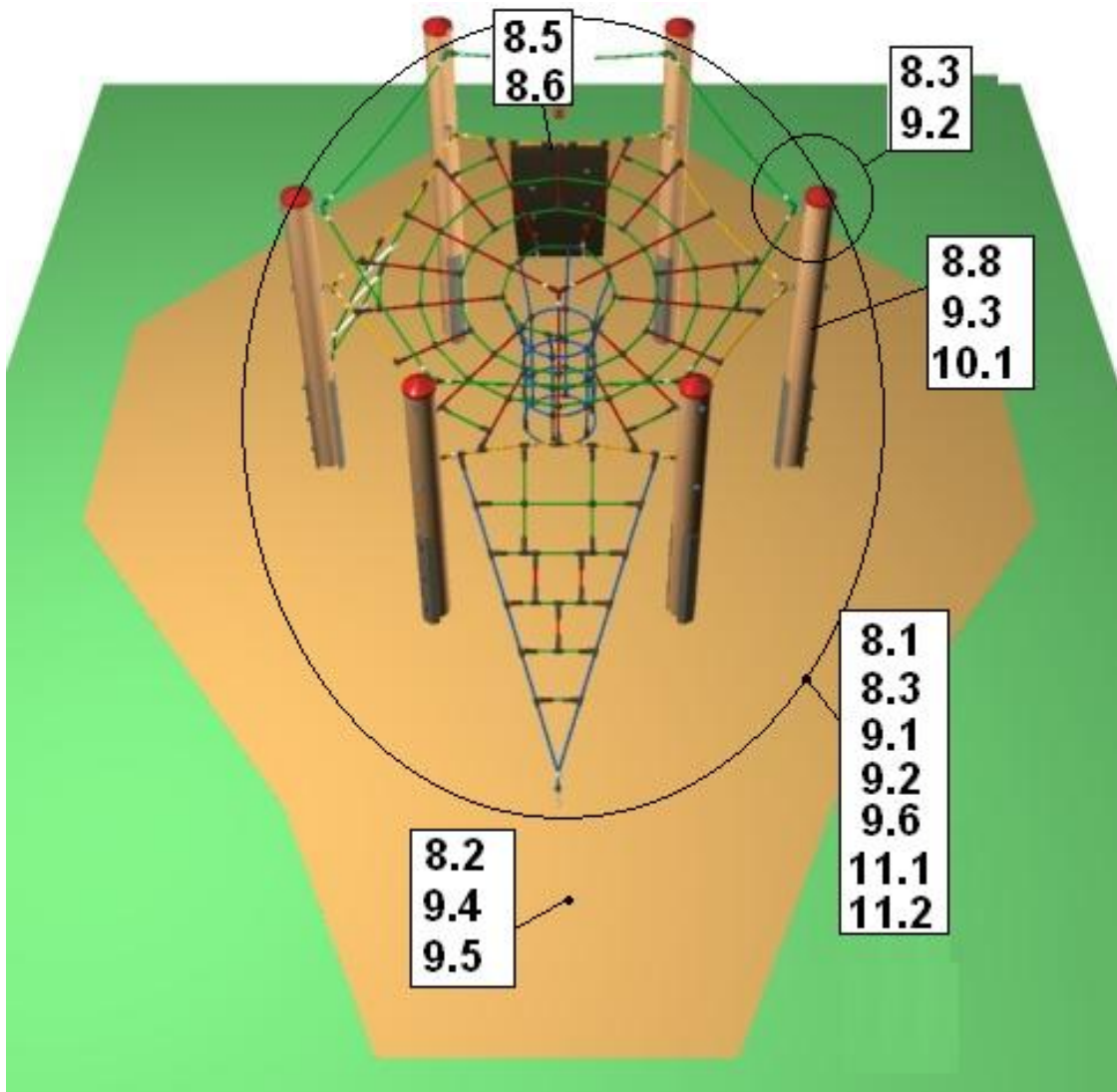
In the event of a fault that compromises safety, quick action must be taken. This may involve repairing it immediately or shutting down and dismantling the equipment.

6.1.4 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

Regular maintenance (image)



Regular maintenance (text)

7 Monthly maintenance

- **8.1** Check the spaces between the equipment and the ground (clearance resp. height of fall).
- **8.2** Check the ground surface in the area with fall protection for hard objects and loose foundations.
- **8.3** Check all connecting elements and fittings for wear and tear and tighten if necessary. Replace damaged or missing parts.
- **8.4** 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.
- **8.5** Check all attachments such as chains, ropes, nets, etc. for damage and replace if necessary.
- **8.6** Check rubber parts, sleeves, etc. for wear and tear or damage and replace if necessary.
- **8.7** Check the surface of wooden parts for damage caused by the weather or external influences and mould. Repair or replace if necessary.
- **8.8** Check the surface of plastic and metal parts, e.g. slides, for damage and replace if necessary.
-

8 Quarterly maintenance

- **9.1** Detailed inspection of the operation and stability of the equipment paying particular attention to any wear and tear.
- **9.2** Tighten all forms of attachment.
- **9.3** Repaint and retreat surfaces.
- **9.4** Maintenance of fall protection surfaces.
- **9.5** Check the height of the fall and fill up with loose filling material, if necessary. If the posts are marked, fill up correspondingly.
- **9.6** Retighten bolts.

9 Half-yearly maintenance

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



Annual main inspection

10 Annual main inspection

- **11.1** The complete play equipment as well as foundations and surfaces are to be checked if it is safe for operation.
- **11.2** 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!

11 Maintenance printout

Name of equipment: Funnel Web _____ / Part no. 4597-25 _____

Location: _____

Customer or operator: _____

(Town, municipal, kindergarden)

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.**



Attention

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!

12 Hand-over document

Part no.: 4597-25

Type of equipment: Funnel Web

Serial number: _____

Customer or operator (Town Council, Company, School, etc.):

Person in charge:

Installation Company (address):

Responsible assistant (assembler):

Complete assembly instructions, maintenance instructions and maintenance printout received,

(Signature operator)
(Stamp)

(Signature Installation Company)

Date: _____