

# Datasheet Buried ropeway Art. - No. 4581



1. Space required incl. safety distance: 4,00 x 36,00 m

Surface material	Description	Minimum thickness	Maximum height og drop
	mm	of layer	mm
Grass, topsoil			<= 1000*
<b>Chipped bark</b>	<b>20 to 80 grain size</b>	<b>400</b>	<b>&lt;= 3000</b>
<b>Wood chippings</b>	<b>5 to 30 grain size</b>	<b>400</b>	<b>&lt;= 3000</b>
<b>Sand</b>	<b>0,2 to 2 grain size</b>	<b>400</b>	<b>&lt;= 3000</b>
<b>Gravel</b>	<b>2 to 8 grain size</b>	<b>400</b>	<b>&lt;= 3000</b>
<b>other surface materials</b>	<b>as tested in accordance with HIC</b>		<b>critical drop height as tested</b>

\* in Germany is grass, up to 1,50 m is permissible

3. Name and overall dimension of the largest item of equipment: Steel post (2 piece), 4,71 m long  
Ø 159 mm, with anchor

4. Name and weight of the heaviest item of equipment: 1 PK Steel post , approx. 430 kg

5. Designed for age group: from 3 years upwards

**6. Attention! No concrete**

Size of foundations: The foundation hole is 1,30 - 1,40 m deep an has a width of 0,75 m, + drainage layer of 10 cm.

7. Assembly time, after installation of the basic equipment: approx. 3 hours  
Assistance needed: 2 - 3 people

8. Any spare parts which may be needed can be obtained directly from your supplier or from manufacturer.

Manufacturer: Huck Seiltechnik GmbH  
Dillerberg 4  
35614 Asslar-Berghausen  
Tel. (0 64 43) 83 11 0  
Fax. (0 64 43) 83 11 79  
Germany

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

## ASSEMBLY INSTRUCTION

20.07.01

1/3

### Buried ropeway Art.No. 4581 to dig in

**Package contents:**

- 2 steel post hot-galvanized,  $\phi$  159mm, 4.71m long
- 1 steel rope  $\phi$  10mm approx. 35m long
- 1 coil spring brake 3m long with installed buffer stops and 2 installed wire rope clip (objective position)
- 1 coil spring brake 1m long with installed buffer stops and 2 installed wire rope clip (start position)
- 1 trolley (with hung up plastic-lamina)
- 1 pendulum seat
- 2 tension jack M16
- 4 plastic sleeve + adhesive tape (or stick together the rope ends, protect for fan out )
- 1 packet of small items: 4 wire rope clips  $\phi$  10
  - 1 annular thimble, ring size 10
  - 2 threaded rod M16 with nuts and blue flag

**Required assembly space incl. Safety area:** 4.00 x 36.00 m

**Recommended ground surface:** In Germany we recommended for public places grass.  
In Europe and on public places it has to be at least sand, gravel etc.

### Required devices:

- excavator approx. 600M of lifting height  
( if possible for rope installation suitable )
- ladder about 600cm long
- land level
- spirit – level
- different spanner
- vibrator; not a vibrator plat !!
- rope lifting

### Assembly instruction for Buried ropeway Art. No. 4581 to dig in

1. Measure out the assembly space including required safety area
- 2a. For flat grounds dig the objective post 1.20m deep and the start post 1.20m deep (+ 10m rubble drain bed). You get a slope of 60cm if you hang up the rope in the upper drill of the start post or lowest drill of the objective post respectively (in accordance of the foundation plan).
- 2b. For crooked grounds level the height different out. As a rule you can adapt with the 3 hang-up-points (in accordance of the foundation plan B).

3. Appropriate to the rope length (post distance) dig out the foundation holes; for the posts (example: by 30m rope length is the distance of the foundation hole max. 28,80m)  
The foundation size includes 2.30m of length and 1.00m bread for workarea. The foundation hole is 1.20m deep + approx. 10cm rubble drain bed = 1.30m, which you have to include and to subtract vertical (in accordance of the enclosed foundation plan). Put the diged heaps on side.

Put in the steel mast and bring them in vertical line ( the tensible force should be at the back/outside). Doing this is important that the diged geaps you apply in 30cm levels and condense it careful. **Compress it with a vibrator and not with a vibrator plate.**

4. Around the start post area deposit and compress a heap ( see foundation plan A )

**Instructions for the rope:**

Lay the rope between the two posts straight out. The end with the compressed thimble shows on the start post direction. The "open" side of the rope shows in direction of the objective post.

- a) The 1m coil lift in direction of the start post:  
Place the buffer stops in rope centre. Secure the spring with the installed rope clip against the wire rope clip on the rope.
- b) Pull the trolley until the start. **Attention!** Put on the rope entry and rope leaving the plastic-lamina ( terminal protection) and tie it up on the objective post.
- c) The objective spring ( 3m length ): Pull the buffer-stop on the rope centre and with the installed rope clip pull it in direction of the objective.

Screw off both tension jacks until the end. Install one tension jack on the pressed rope (start post) . The whole already installed steel rope ( see above; a, b, c ) is laying down on the ground.

Bind the installed tension jack on the start post with a rope, belt or something similar.

On the objective post side install the tension jack with annular thimble. Thereupon install the wire rope clip slackly before the annular thimble, put round the steel rope. The straight pulled rope (incl. tension jacks) should fix right between the 2 posts.

Install the tension jack on the start post through the upper drilling of the bracket.

Hang up the steel rope with tension jack on the designate drillings (objective post).

Stretch the steel rope with a rope lifting or something similar so that there arise a slack.

Fix one wire rope clip tight and behind the annular thimble of the rope end. Disconnect rope end from the rope lifting and the other three wire rope clips install in gaps of 5cm (see sketch; altogether they are 4 wire rope clips).

**Attention!** There should be exist a stick out part of 30cm length, measured behind the last wire rope clip and this end wrap round with adhesive tape and fix it with 4 plastic sleeves.

Control the slack in the centre so, if you load the pendulum seat (with 130kg) there is still a distance of 40cm over the ground. **Should it be less as 40cm – short the chain of the pendulum seat !!**

**Note:** The slack of the rope and the gaps of ground/rope, ground/handle and ground/seat is depending on the temperature.

The measure are valid by a temperature of 15°C during the installation. By lowest temperature raise the gap with loading of 50cm.

Keep the 2m gaps from objective post until the start of the coil spring brake (in direction of the rope centre; see sketch).

The margin of safety is 2m from objective post to pendulum seat because of the swing out area of 60° ( see sketch ).

**Before you allow the driving of the Buried ropeway, it should be tested by adults. After that tight up the wire rope clips and the clips of the brake spring !**

Depending on the use you should tight up the rope clips after 2 – 3 days.

5. Fix the enclosed threaded rod M16 with nuts and blue flag on the post end.

### **Tips for maintenance**

Check regular the play equipment of damage.

Every 3 years check the primary structures of corrosion.

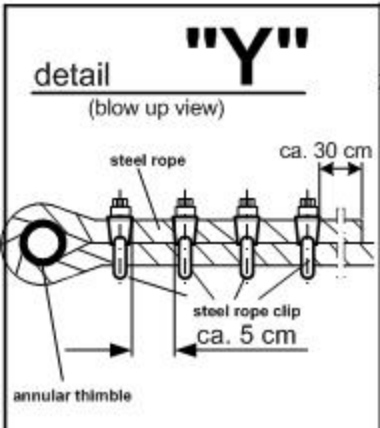
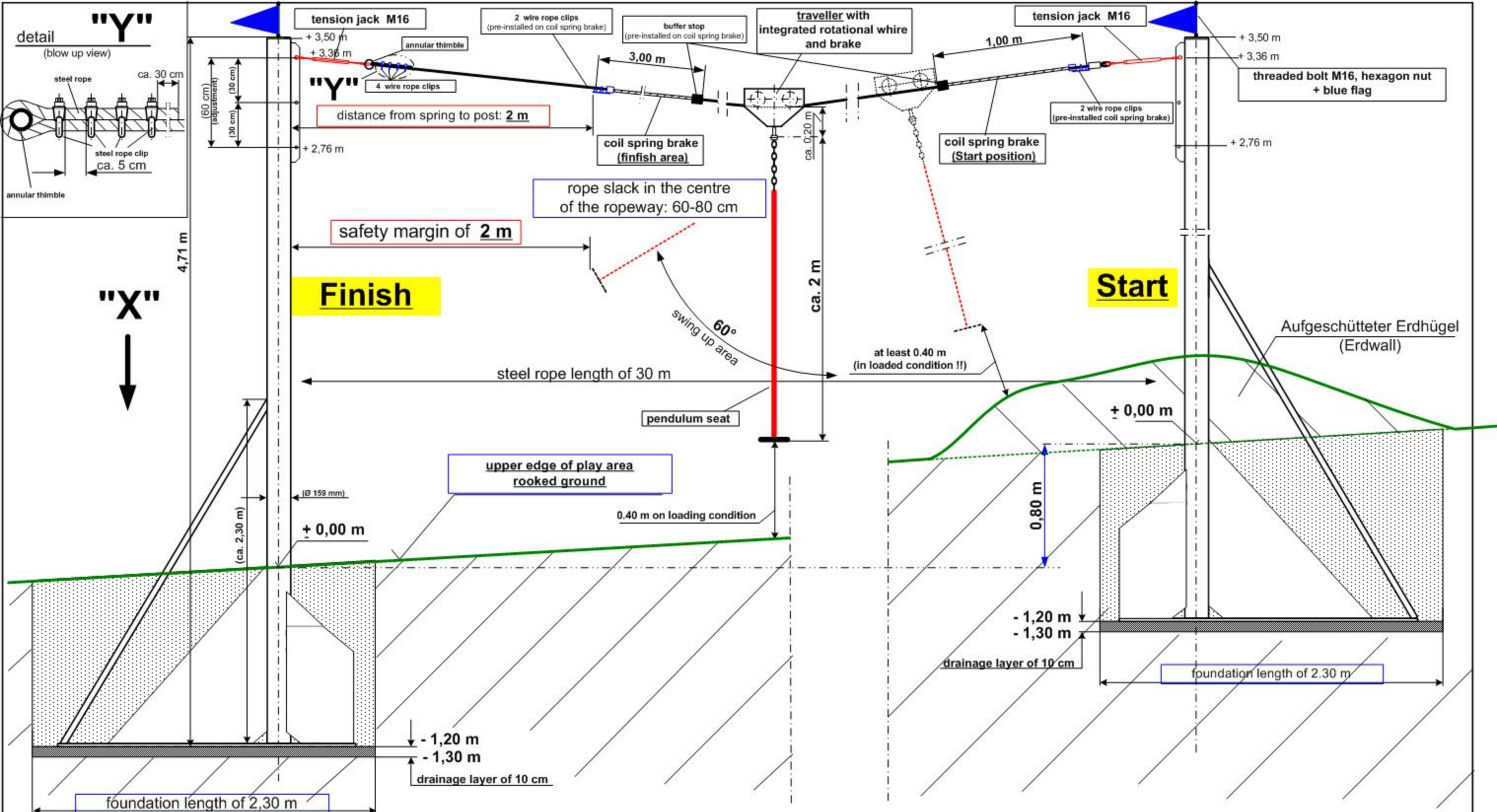
Spray the sleeves regular with clear varnish to protect corrosion !

We would like to point out that you should maintain and check the play equipment by an intensive use.

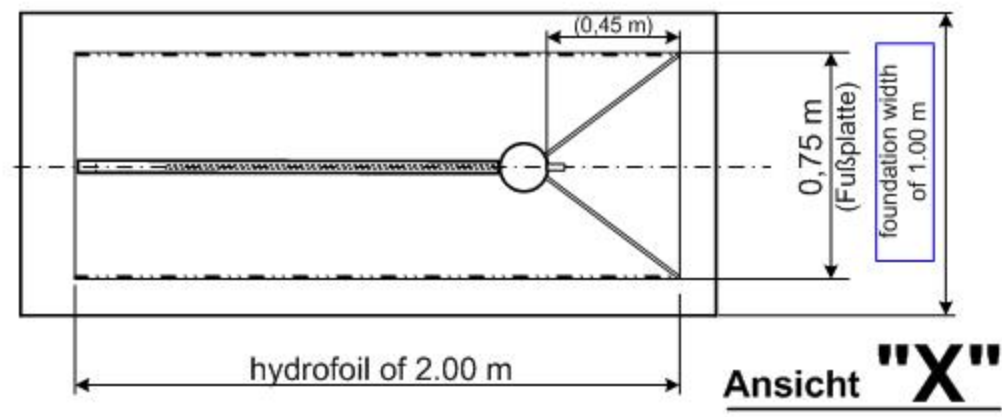
Besides you have to pay attention by an incompleted installation, dismantle or by repair to block off the area.

If there is any assembly difficulties or if you have any further questions call us.

Phone: 0049 (0)6443 83 11 – 68/71



**"X"**  
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Diese Zeichnung darf ohne unsere schriftliche Ermächtigung nicht verwertet, nicht vervielfältigt, auch nicht Dritten mitgeteilt oder zugänglich gemacht werden. Zuwiderhandlungen werden zivil- und strafrechtlich verfolgt und verpflichten zu Schadenersatz.



Maßstab 1:25

Art.-No. 4581

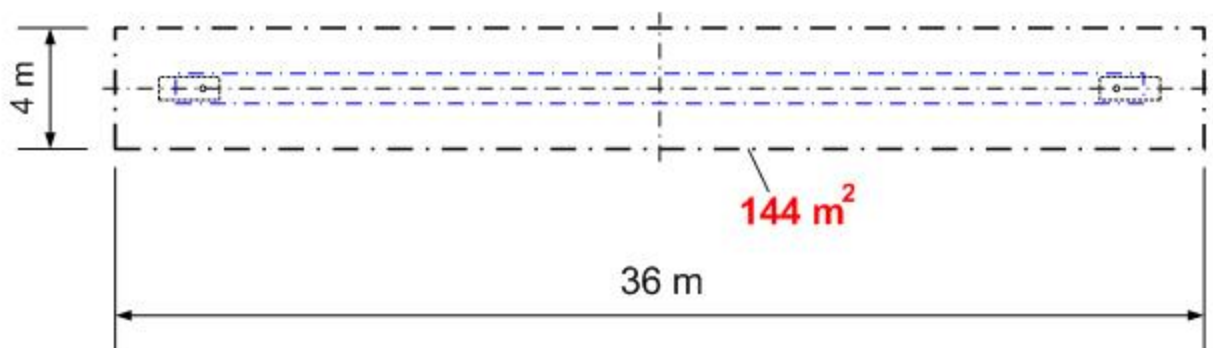
**Buried ropeway**

**Plan B**  
(rooked ground)

Datum	Name
Bearb. 13.12.00	Pfaff
Gepf.	

Huck Seiltechnik GmbH & Co. KG  
 Netz- und Seilspielgeräte  
 Dillerberg 4 D-35614 Aßlar-Berghausen  
 Postfach 1206 D-35608 Aßlar-Berghausen  
 Telefon (06443) 8311-0, Telefax (06443) 83 11-79

Index	Änderung	Datum	Name



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**HUCK**

Art.-No.: 4581

Datum

Name

**Buried ropeway  
(to dig in)**

Bearb.

13.05.04

Pf

Gep.

**Space required incl.  
Safety distance**

Huck Seiltechnik GmbH & Co. KG  
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M:\Huck\Englisch\4581E\ Draufsicht mit Sicherheitsbereich.vsd

Index	Änderung	Datum	Name

## **Maintenance Record**

Day of Inspection	Inspector's Name	Equipment is			Faults	Faults rectified by	Date
		OK	Useable	Out of order			

# Maintenance Instructions

## Single Ropeway to dig in, Art.-No. 4581

w = weekly      m = monthly      y = yearly

w      m      1/4y      1/2y

1. Check the area where persons using the equipment might fall or slip for hard objects or foundations which have worn free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Check stability of the uprights.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Check all connection components and fittings for wear and see that they fit firmly; tighten up if necessary. Exchange damaged parts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Check moving metal parts for easy movement and wear; exchange if necessary. There is no need to lubricate joints since only maintenance-free joints are used.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Check all attachments, such as chains, ropes, nets, etc. for damage and renew if necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Check rubber parts, sleeves, etc. for wear or damage and exchange if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Check the surface quality of plastic and metal components for damage and exchange if necessary.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Check the surface quality of wooden parts for damage caused by weathering or other external factors and rectify, exchanging if necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

It is recommended that the checking and maintenance work is carried out at the intervals shown, since wear and tear, which reduces safety and the equipment's ability to function properly, will be caused by normal play use, the effects of the weather and also by malicious damage.

Where faults adversely affect safety, urgent action is required either by immediate repair work or by dismantling the equipment or taking it out of use.

Those faults which affect the way the equipment functions reduce its play value and incite malicious damage, possibly rendering it unsafe. Here, too, immediate repairs should be undertaken.

Maintenance and repairs should only be carried out by trained personnel.

**General:** Any item of play equipment which is regularly checked cannot become so damaged as to be dangerous. This presumes, of course, that regular checks are followed, where necessary, by repair work.