

- ASSEMBLY INSTRUCTIONS -

Multiple swing frame Art. No. 4577-2-200, made of douglas fir with a suspension height of 2.00m

Package contents:

- 2 pairs of wooden posts, Ø 16cm, 3,55m long, (incl. post shoes)
- 1 cross beam, Ø 18cm, 6.80m long,
- 1 carton of accessories:
- 4 cover caps, Ø 16cm, red + screws
- 2 cover caps, Ø 18cm, red + screws
- 4 bolts M16 x 360mm
- 4 washers for M16
- 4 stop nuts M16
- 4 cover caps for M16

Play equipment:

different play equipments (therefore see package contents and freight documents)

Required devices:

1 wood drilling machine, Ø 17 / 18 x 350mm

Required assembly space:

6.80 x 4.00m / 10.00 x 8.00m **incl. safety area**

Height of fall:

1.60m

Recommended ground surface:

Sand, gravel, chipped bark, etc.

Assembly instruction:

1.Measure out the assembly space including required safety area. Dig out the foundations in accordance to the foundation plan. Take care that rubble drain bed is 10cm (see sketch). **Attention!** Treat the wooden parts as described in the enclosed leaflet (maintenance tips for handling the douglas wood).

2.Lay the cross beam on the ground. (**Attention:** do not remove the steel belt!).

3.Lay the uprights on the ground and spread them in accordance to the diagram.

3.1 Before assembling the bolts at the connection of the pair of stand poles and the carriage bolts of the post shoes have to be retightened.

4. For stabilization during the installation, fit a temporary lath on the upper edge of the marking tape and nail it to the upper edge of the playing level! Length of the temporary lath is 2.60m (middle post to middle post).

5. Set down the two upright frames into the foundation.

6. Put on the top beam with a projecting end on both sides of 1.49m (fix them rectangular to the uprights posts; see sketch).

Attention! The drillings are \varnothing 17cm in vertical line! Go through the existing drillings of the wood post to set the drillings on the cross beam. To avoid that the wood tears out while drilling, you should hold a board against it, secure the cross beam with the 4 bolts M16 x 360, the washers, the lock nuts and cover caps. **Attention!** The lock nuts must be on the bottom!

7. Set in concrete C25/30 in accordance with the foundation plan, at least 40cm below ground level (see enclosed diagram).

8. After the setting time (at least 5 days) fix the swing bearing. Take care that bearing is fastened straight, so that you can attach the play equipment.

For the big Bird's Nest Art.No. 4650 (bearing on the inside) and for the Huck Honeycomb Art. No. 4550 (bearing on the outside) you always have to fit in the double joint bearing Art. No. 4608-1 (pay attention to the swing direction of the main bearing: upper axis shows opposite to the swing direction; lower axis shows in swing direction).

We recommend to use a jigsaw with a steel saw blade for the bolt length -adjusting of the joints. If an angle grinder is used, the surface of the wood can get dark because of chemical reaction by contact with flying sparks (no impairment to the safety ness and durability of the frame).

Install it with the enclosed safety chain. The safety chain is prepared so that you only have to fit in the eye bolts (turn direction shows to swing direction) which are installed in the drillings accordance to the foundation plan. Hang up the free end of the chain on the second link from the equipment chain (counted from the top) with the already installed shackle. It is not required for the safety swing seat Art. No. 4712!

ATTENTION! For the use of other hanging up-equipments (as bird's nest Art. No. 4650/ 4550) you can take the drillings distance for the bearing from the enclosed foundation plan.

9. For all swings you have to take care that there is at least a distance of 45cm measured from the bottom to the deepest point of the swing. Chains can be shortened if necessary.

10. Fix the enclosed cover caps with stainless steel- wood screws at the top of the wooden posts.

11. Fit all screwed connections additionally with the enclosed loctite.

12. Cover all left drillings (from above) with the plastic caps or wood dowl pins.

At the projecting ends (left and right side) of the top beam it is possible to install equipment like the pendulum seat, swing seat, rope ladder and other one-point-bearing equipment. Attention! You are only allowed to fix the one-point-bearing equipment on the exterior drillings. The fixing of a climbing net is possible.

Tips for maintenance

After 3 days check all bearings and suspension-connections. Retighten if **necessary**.
All bolts must be periodically tightened due to wood shrinking.

The bearings are maintenance-free, depending on the use-frequency. We recommend to check them regularly of wear and tear.

We recommend you to use a silicon spray for the plastic bearings occasionally.

From our years of experience, we recommend to check the complete item each week.

You must block off the complete item in case of incompleting installation, dismantling or during repair of the play equipment.

If you have any further questions, contact your supplier or the manufacturer.

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.

Datasheet: Douglas Fir Long Swing Frame suspension height 2,00 m (Art.-No. 4577-2-200) incl. post shoes

1. Space required: 6.80 m x 4.00 m, safety area: 10.00 m x 8.00 m
Height of fall 1.60 m

2.

Surface material	
Grass / topsoil	
Chipped bark	granular size 20 to 80
Wood chippings	granular size 5 to 30
Sand	granular size 0.2 to 2
Gravel	granular size 2 to 8
other surface materials	as tested in accordance with HIC

3. **Name and overall dimension of the largest item of equipment:**

1 Wooden post, Length 6,80 m, Ø 18 cm, (80 kg)

4. **Weight of the heaviest item of equipment:**

1 pack Douglas posts; 189kg (set of two scissor frames incl. Post shoes)

5. **Attention! System for concrete foundation !**

Concrete: C25/30

Concrete necessary: 1.26 m³

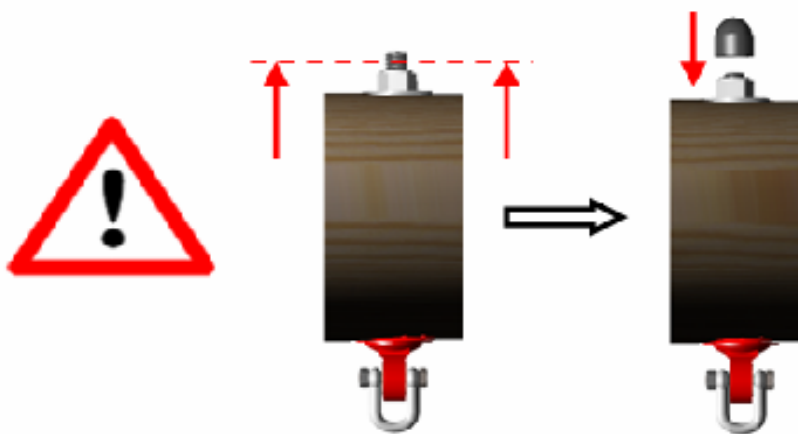
Round off foundation edges (min.R = 100 mm)! Sizes of foundations are "4-5" (natural ground). Soil class 4: soft to medium (with a maximum grain size of 63 mm) In case of sandy and soft soils, the surface measure of foundations have to be increased by 10%.

6. **Size of foundations:** depth 0.90m, width 70 cm x 100 cm (incl. Drainage layer of 0.10m height) concrete

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

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

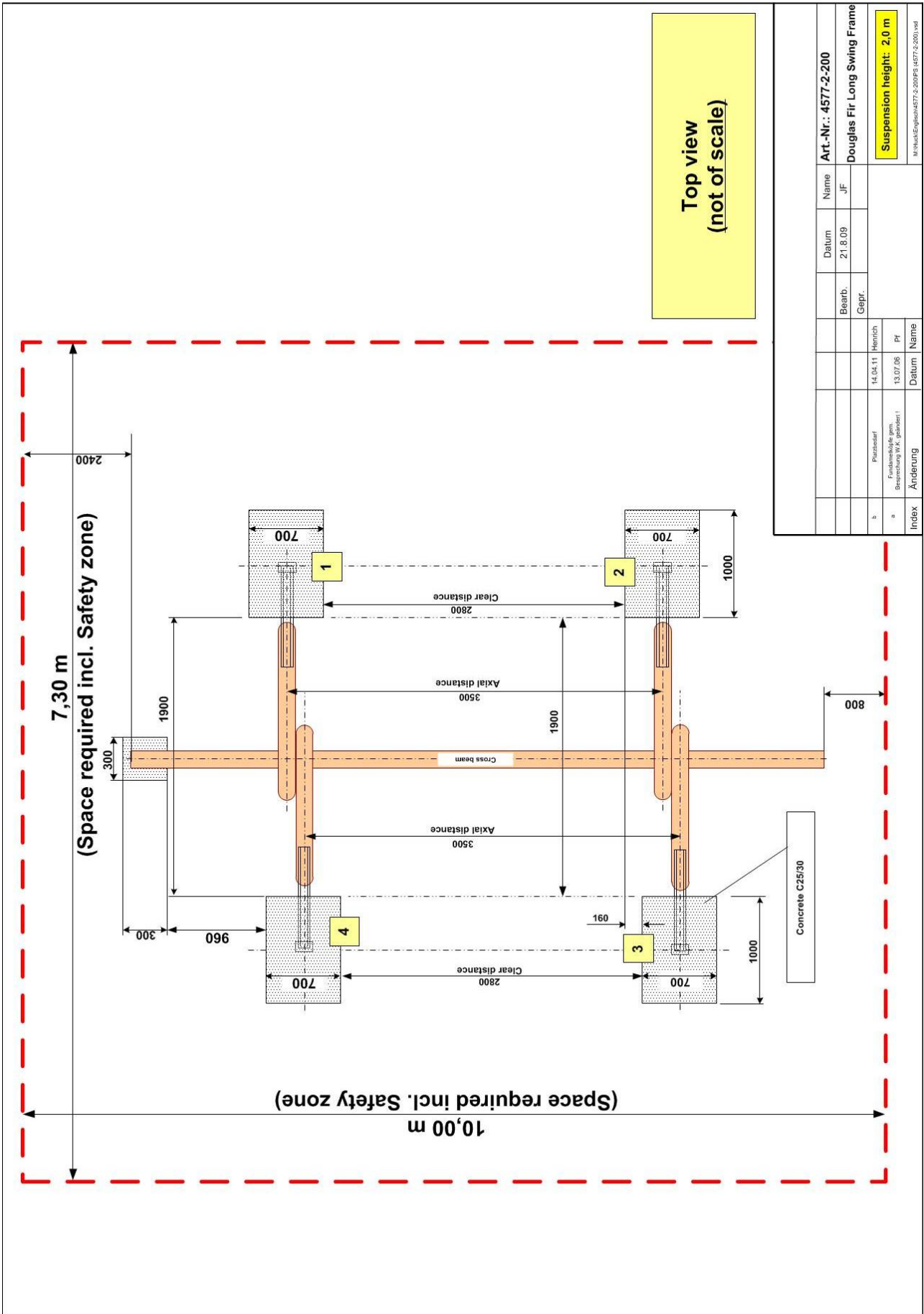
Because of the natural characteristics of wood it is normal that shrinking and swelling occur due to heat and moisture. For example a wood post with a \varnothing of 180mm can vary between 173mm and 183mm. In occurrence it is necessary that bolts and screws be retightened and eventually shortened!



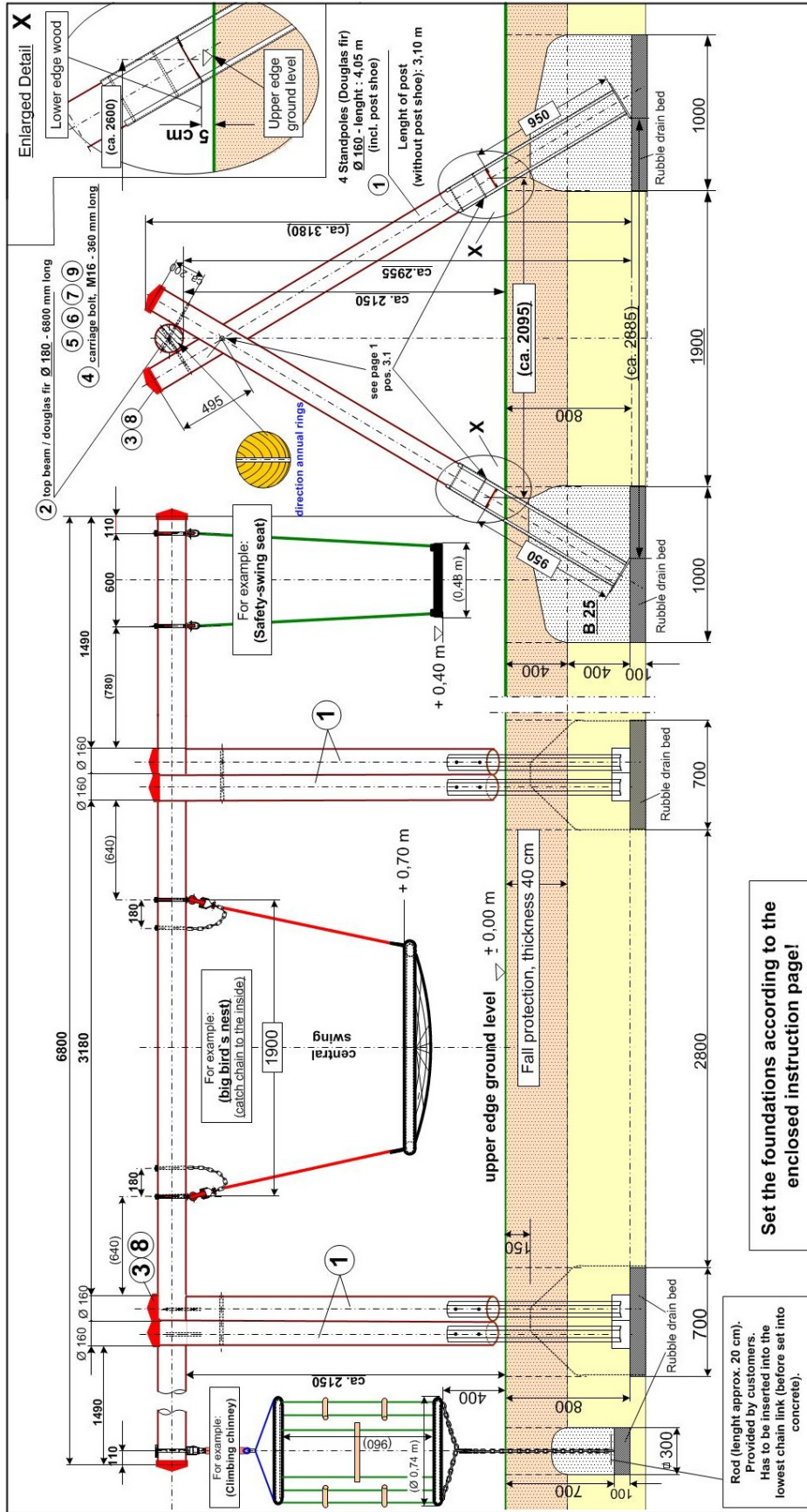
Securing bolts and nuts !

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





Name		JF	
Datum		21.8.09	
Bearb.		Geprf.	
Platzbedarf		14.04.11	
Fundamentgröße gem. Berechnung W.K. geändert		Pr	
Änderung		Datum	
Index		Name	
a		13.07.06	
b		Herrlich	
Art-Nr.: 4577-2-200			
Douglas Fir Long Swing Frame			
Suspension height: 2.0 m			
W:\Huck\Englisch\4577-2-200\PS_4577-2-200_v01			



Achtung nicht maßstabgetreu !

HUCK
 Seiltechnik

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Name	Date	Art.-No.
	21.09.04	4577-2-200
Bearb.		
PF		
Dieses Zeichnung darf ohne unsere schriftliche Genehmigung nicht weitergegeben werden. Änderungen sind nur durch eine schriftliche Genehmigung möglich. Die Zeichnung ist auch nicht Dritten mitgeteilt oder zugänglich gemacht werden. Zweckerhandlungen werden zeit- und straffrechtlich verfolgt und Vergütung zu Schadenersatz.		
c	Jährliche Kopfbauen u. siehe Seite 1.	10.10.11 Hen.
b	Aufhängehöhe 2,00 m	15.07.08 Hen.
a	Fallschutz 400 mm	13.05.08 Hen.

Douglas swing frame

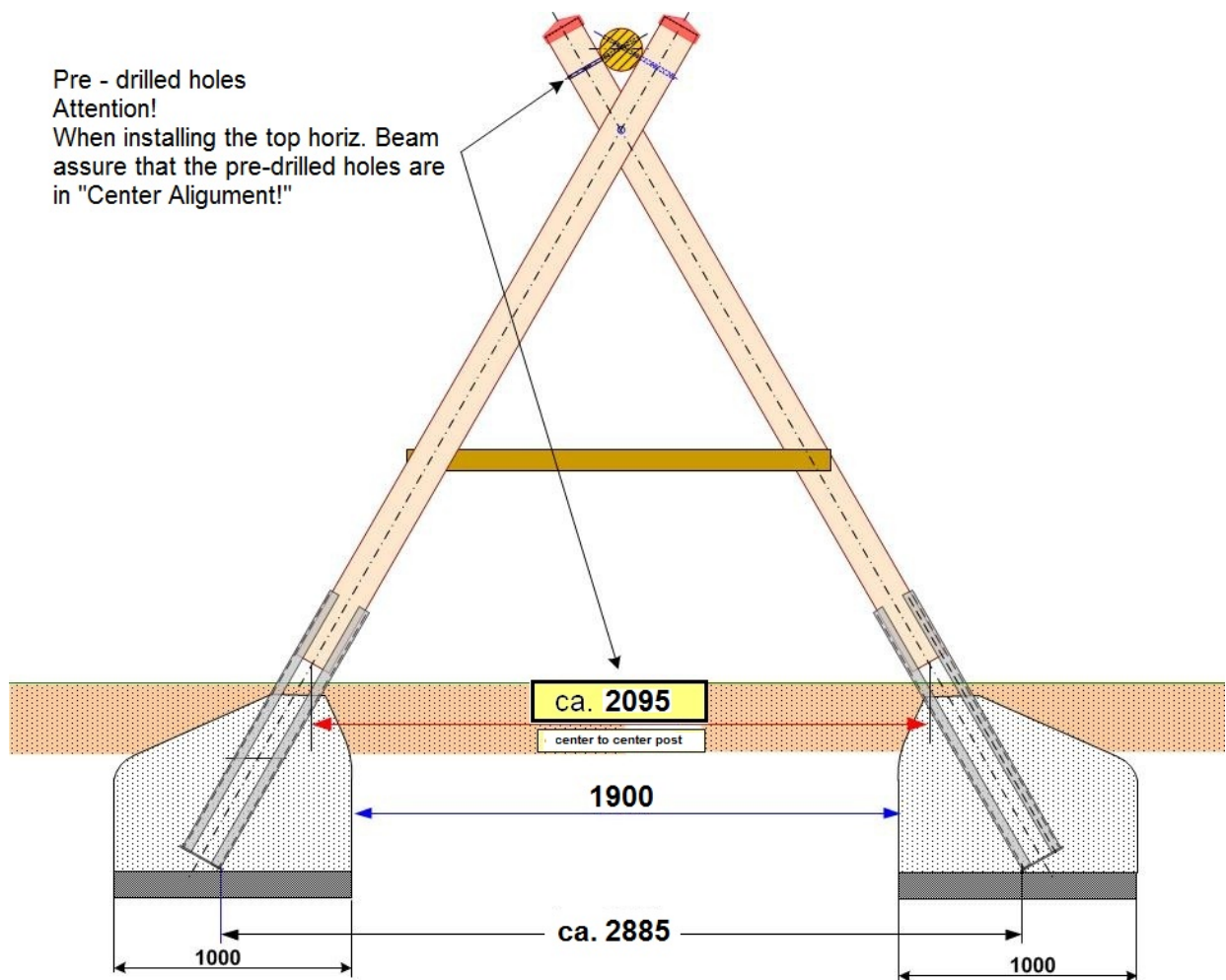
Suspension height: 2.00 m

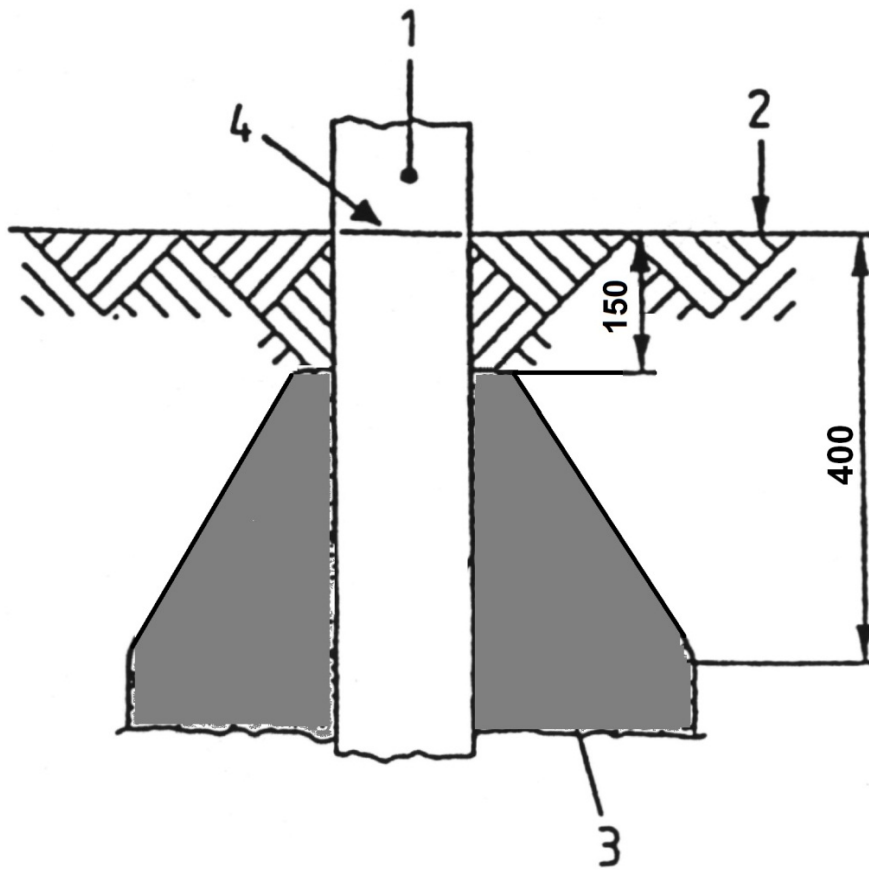
M: HuckEnglish4577-2-200langar Kopfbaue von

Set the foundations according to the enclosed instruction page!

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 %

Rod (length approx. 20 cm).
 Provided by customers.
 Has to be inserted into the lowest chain link (before set into concrete).





1. Post
2. Playing surface
3. Top of foundation
4. Basic level mark

If the playing surface is sand you have to make the top of foundation round (as you see in the upper sketch), if you let in the foundation 20 cm deep under the upper edge of the playing surface. In any case it is very important that you slop the top of foundation to prevent accumulation of water (danger of rotting).

Maintenance Instructions

douglas multiple swing frame Art.-No. 4577-2-200

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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" 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.

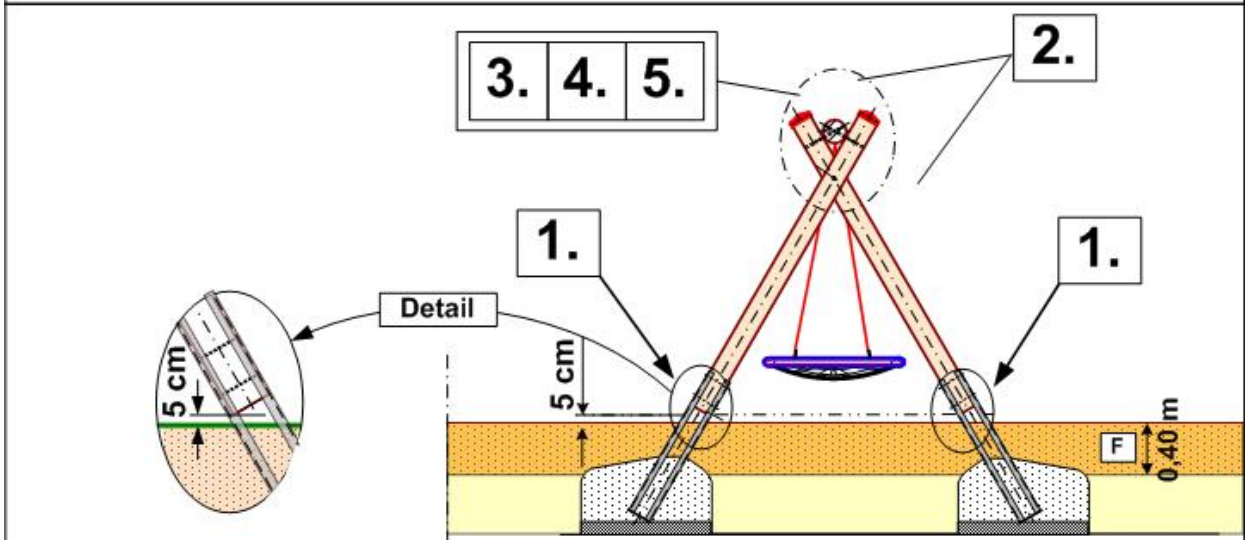
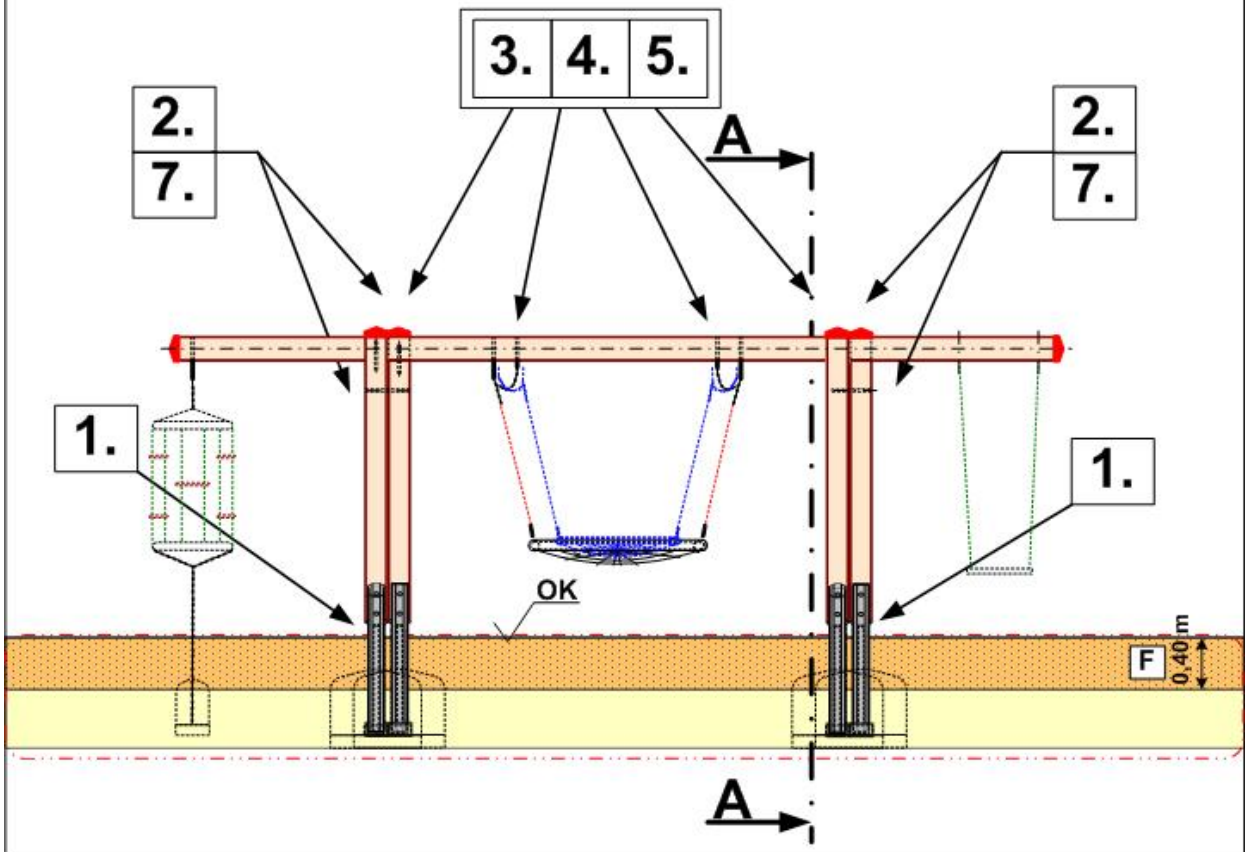
Those faults which affect the way the equipment functions reduce its play value and incite malicious damage, possibly rendering it unsafe. Here, too, immediate repairs should be undertaken.

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.

Maintenance Instructions

douglas multiple swing frame Art.-No. 4577-2-200



S: A : A

Maintenance Record

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

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.: 4577-2-200

Type of item: Douglas Fir Long Swing Frame

Serial number: _____

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