**General hints**

**A. Surfacing requirements**
This piece of equipment is intended for children to play with, rather than on, and therefore has no intended body support. No free height of fall is thereby stipulated.

**B. Foundations**
Please see detailed instructions at the end of this document, especially depths of foundations for steel feet.

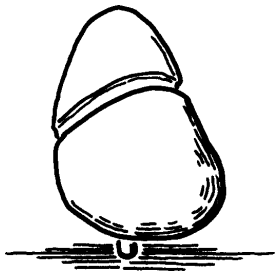
**C. Attention**
Only use textile slings to lift the stone. Using steel cables will damage the stone.
**Do not lift the stone on its support foot or anchor plate!**

**Special information**
Tested by TÜV Product Service GmbH.

Please do not alter any parts of the equipment or the construction itself since this may affect the safety standards and your guarantee.

We reserve the right to make technical alterations!
For further information please call your local agent.

**Turning Stone**
**Order no. 10.91500**



Graubner Play Stations for developing the senses

**Data for shipment:**

Number of parts: 2

1 complete equipment with support foot
1 foundation anchor

**Weight:** 1500 - 5000 kg
**Size:** 1.5 to 2.5 m x 1 to 1.5 m

**Required space including operational space**
Ø 400 cm

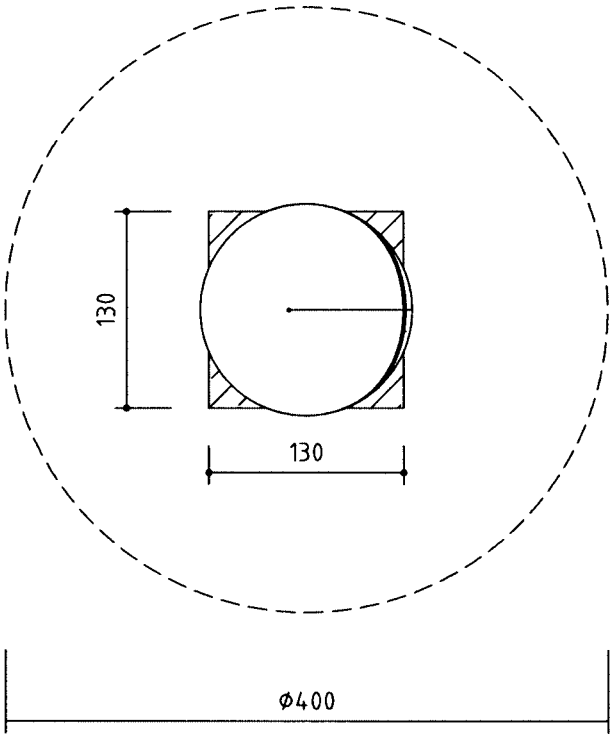
**Ground elevation**
Scale 1:50
all dimensions in cm

**Foundation block**
Quality of concrete C 25/30

1 piece 130 x 130 x 70 cm
reinforced

blinding layer
1 piece 130 x 130 x 5 cm

Overall excavation depth 95 cm







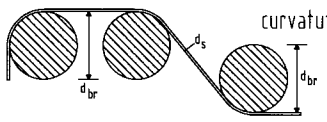

RICHTER SPIELGERÄTE GMBH · D-83112 FRASDORF · TELEFON +49-8052/17980 · FAX 4180

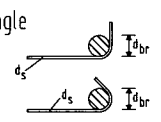
**Recommended assembly tools:**
Mobile crane
Slings
Lashing straps, nylon ropes
Silicone based sealing
Set of spanners
Set of ratchets
Strips of sheet metal for underpinning

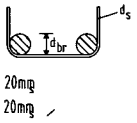
**Attention!**
During the assembly period (including the setting of the concrete) it is not allowed to play on or put any weight on the equipment in order to secure stability during use after the assembly. Standard concrete requires at least 2 weeks to set.

**reinforcement plan**

Bending and installation instructions




$d_{br}$=4d for $_s$d < 20mm
$d_{br}$=7d for $_s$d > 20mm

| diameter of rod $d_s$ in mm | | |
|---|---|---|
| | 6, 8, 10, 12 | min d $_{br}$150mm |
| | 14, 16 | min d $_{br}$240mm |
| | 20, 25, 28 | min d $_{br}$375mm |

| diameter of rod $d_s$ in mm | | |
|---|---|---|
| | 6, 8, 10, 12 | min d $_{br}$40mm |
| | 14, 16 | min d $_{br}$64mm |
| | 20, 25, 28 | min d $_{br}$175mm |

special requirements

Strength class of concrete: C20/25

Strengh class of reinf. steel: BSt 500S, BSt 500M

All measures are external dimensions.

last steel rod position (3)

last steel mesh position [-]

Minimum concrete cover $c_{min}$
Nominal dim. $c_{nom}$
lead dim. $c_\Delta$
installed dim. $c_v$

$c_{min} + \Delta c = c_{nom}$
$c_v \geq c_{nom}$

List of reinforcement steel: BST 500 SA

| Pos. | no.of | dia | length | D10 |
|---|---|---|---|---|
| 1 | 5 | 10 | 5.08 | 25.40 |
| 2 | 18 | 10 | 2.29 | 41.22 |
| 3 | 18 | 10 | 1.99 | 35.82 |

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Total length 102.44
kg / m D10 0.617
kg / d 63.205

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Total weight (kg) 63.205

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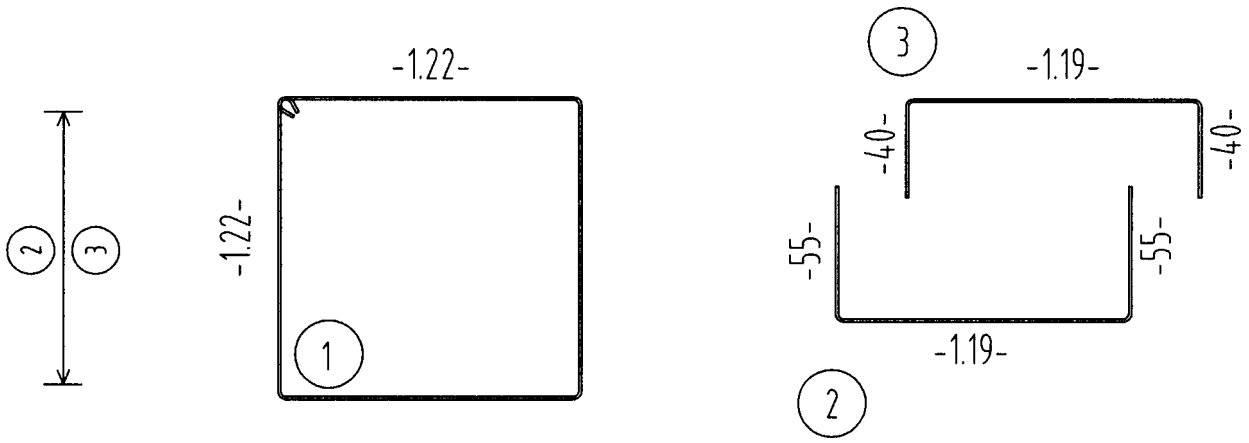
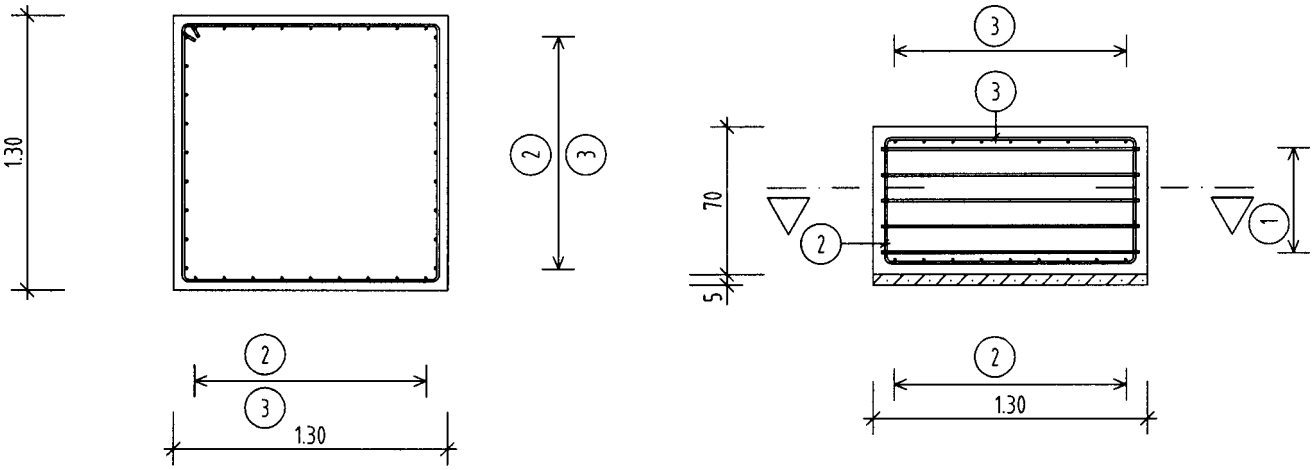
Volume of concrete 1,18 m3

bending instructions



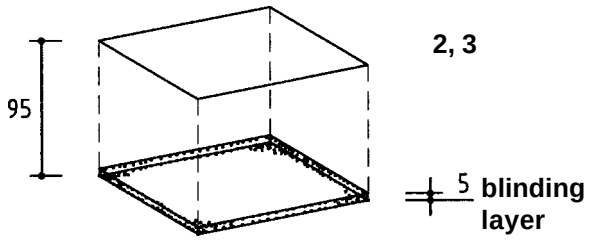

sectional view

side view



**Sequence of assembly operations:**

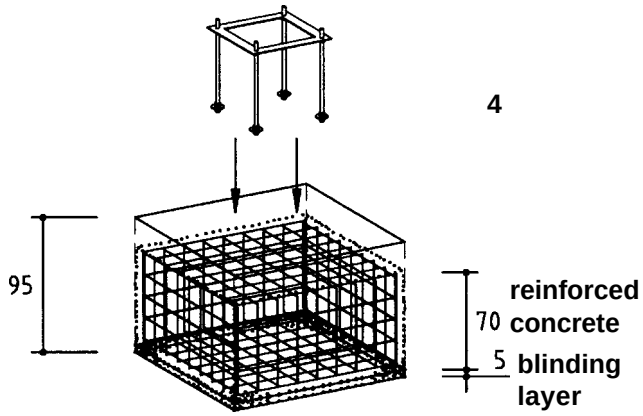
1. Locate the site and take into account the space required, including the safety distances, according to the ground elevation on page 1.




2. Dig out the foundation hole.

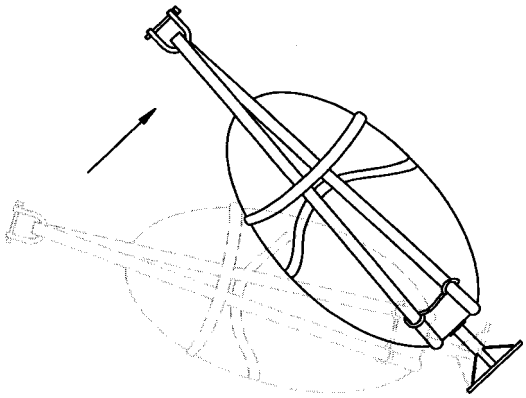
3. Make blinding layer and let the concrete set.

4. Fill the foundation hole with concrete, insert reinforcement and foundation anchor and tamp.
   **Please take into account the special sheet: Notes on the construction of foundations**.
   Let the concrete set.




5. Remove the transport lashing from the stone. Attach the slings to hoist the stone, secure them against slipping off with lashing straps and nylon ropes.

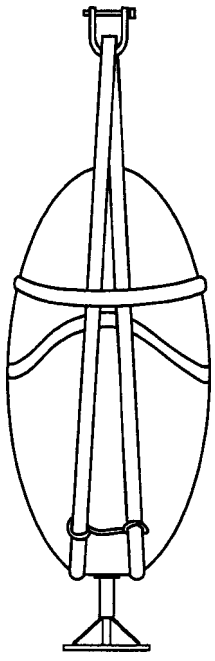
   **Attention: Do not lift the Stone on its support foot or anchor plate!**



6. Remove nuts and washers from stud bolts of foundation anchor.

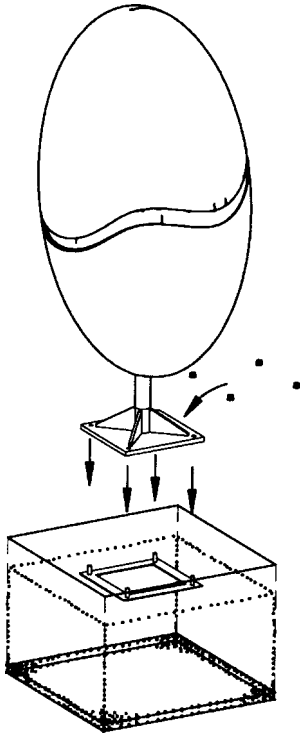
7. Apply silicone sealing to the outer edges of the foundation anchor to seal a possible gap between anchor plate and support plate of the stone.

8. Lift the stone by carefully tilting over one edge of the anchor plate, again check the positioning of the slings for safety.



9. Place the stone onto the stud bolts of the foundation anchor, apply silicone sealing around the holes of the anchor plate.

10. Screw the equipment onto the foundation. Before fastening the screws align exactly vertically. If necessary, adjust by inserting strips of sheet metal.



11. Cover the foundation up to ground level with surfacing material.

12. Repair minor damages caused during assembly or transportation.

13. Please ensure that all assembly aids, e. g. excess bolts, assembly instructions, distance battens or tape are removed entirely from the play equipment and the playground after work is finished.