

Mounting instructions for climbing equipment „astrum 1“

Item-No. 51 6520 401

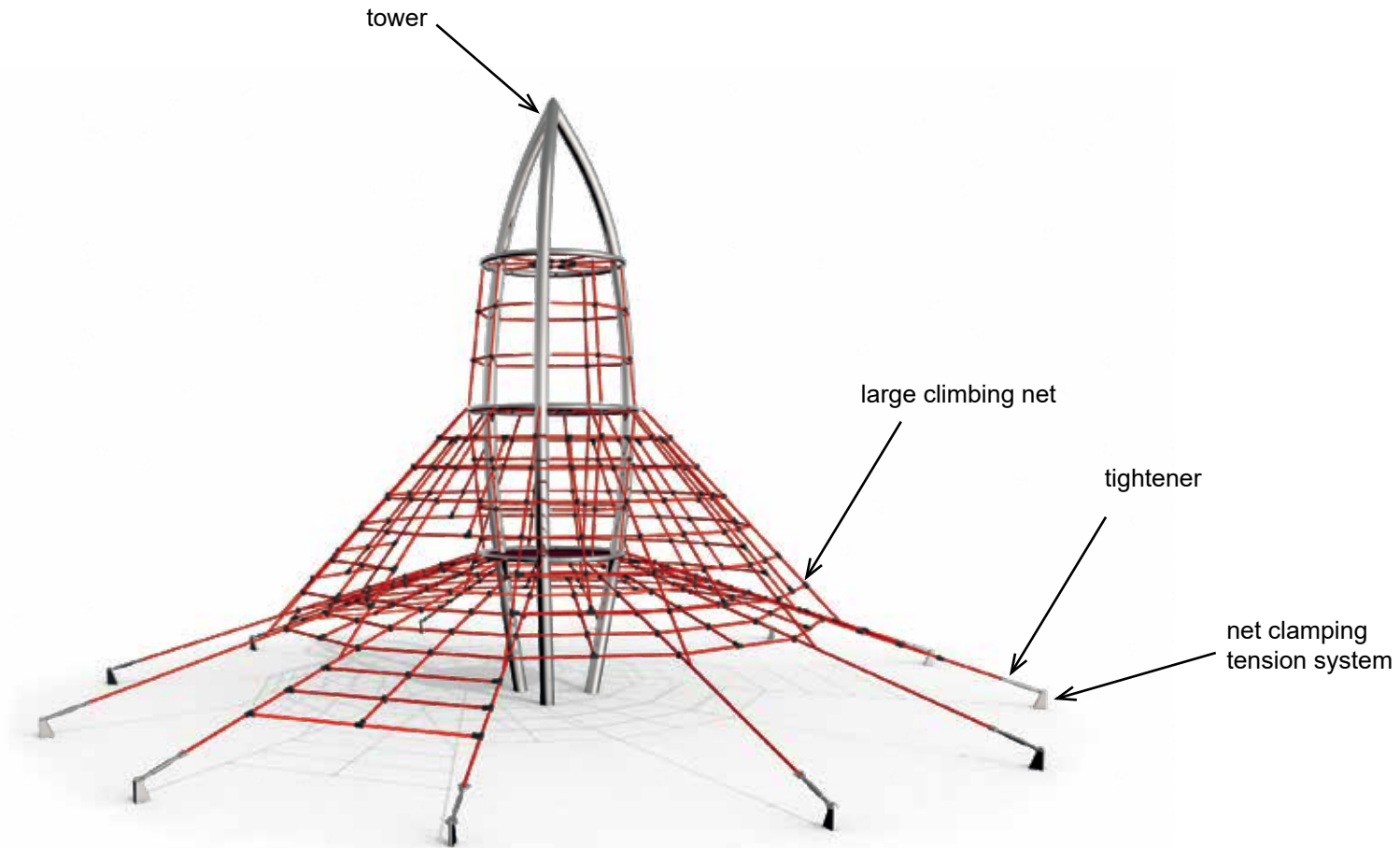
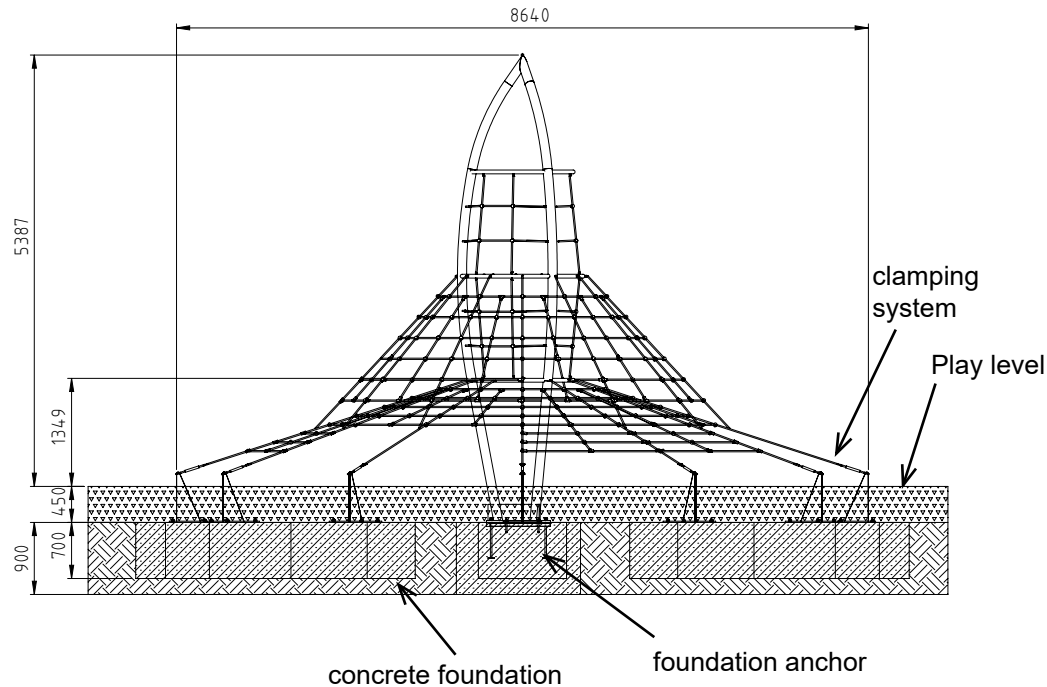


Diagram 1: Overall view of the play equipment

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Legende




-  stoßdämpfender Boden
shock-absorbing floor
-  Beton
concrete
-  gewachsenes Erdreich
natural ground

Diagram 2a: Foundation plan

1. Select the location of the play equipment taking into account the required minimum space (see diagram 3).
2. Carry out excavation work for foundations as shown in diagram 2a and 2b. After excavation compress the foundation floor.
Note: The climbing equipment is only available in the installation depth of 450mm. The climbing equipment is installed at play level. Pay attention to items marked „play level“ at play equipment!
3. Setup the 12 foundations in a circle and the main foundation in the middle acc. to the dimensions indicated in diagram 2a and 2b with horizontal reinforcement. Pour the supplied foundation anchor in the foundation so that the upper angle frame is horizontal and flush with the foundation surface.
Attention: Take care that the outer edges of the foundation anchor in the main foundation are parallel to the outer edges of four outer foundations (see diagram 2b).

Reinforcement plan:

Concrete foundation with reinforcement

Main foundation: BSt 500S

Mesh wire Q257A above and below

Stirrups Ø 8 mm lengthwise and cross

Concrete cover $h' = 5$ cm

Concrete quality class C 25/30

4. After a setting period of 10 – 14 days, depending on weather conditions and foundation size, fill up and compress the holes between the foundation and the foundation hole with excavation.

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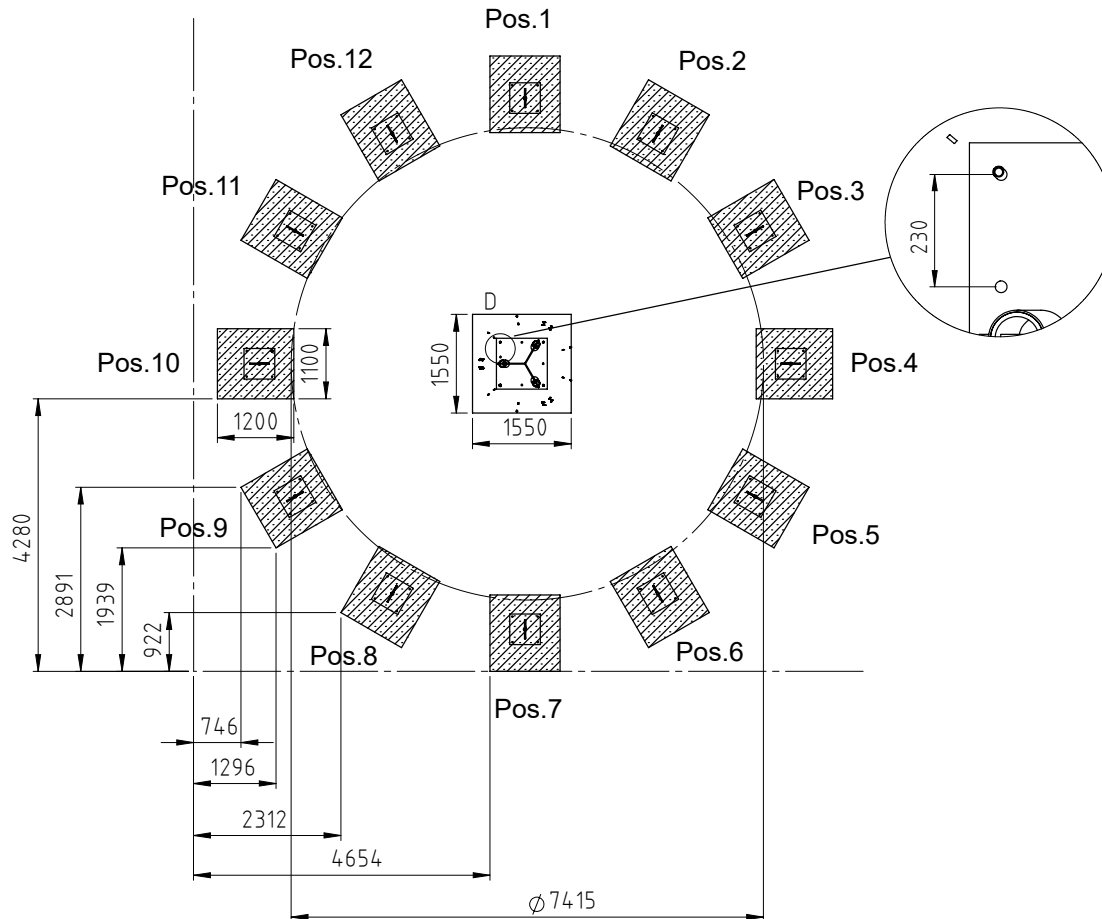


Diagram 2b: Top view foundations

5. Clean the surface of the foundations and start with the installation of the climbing equipment.
6. Lay the large climbing net around the main foundation. Make sure that the star-shaped long struts are below. (check diagram 1 and 2a).
7. Place the tower on the main foundation and align it according to the foundation anchor and screw it with the nuts included in the delivery.
Note: Take care that the tower is rectified horizontally onto the foundation. A subsequent alignment with the ropes is not possible.
8. Mount the large climbing net with shackles at the intended locations at the tower.
9. Pull the large climbing net in a star shape outwards. Note the exact alignment of the net strands to the foundations.
Note: The net connections should run parallel to the respective lug connection to avoid lateral tension.
10. Place the net clamping tension systems on each foundation and attach the 12 net ends with the tightener.
Note: The tightener should be slack to enable subsequent tensioning.
11. Fix the first tension system (see diagram 2b, Pos. 1) in the middle of the foundation in such a way that sagging of the net strand is avoided but not too much tension is built up yet. Fasten with the included heavy-duty dowels.

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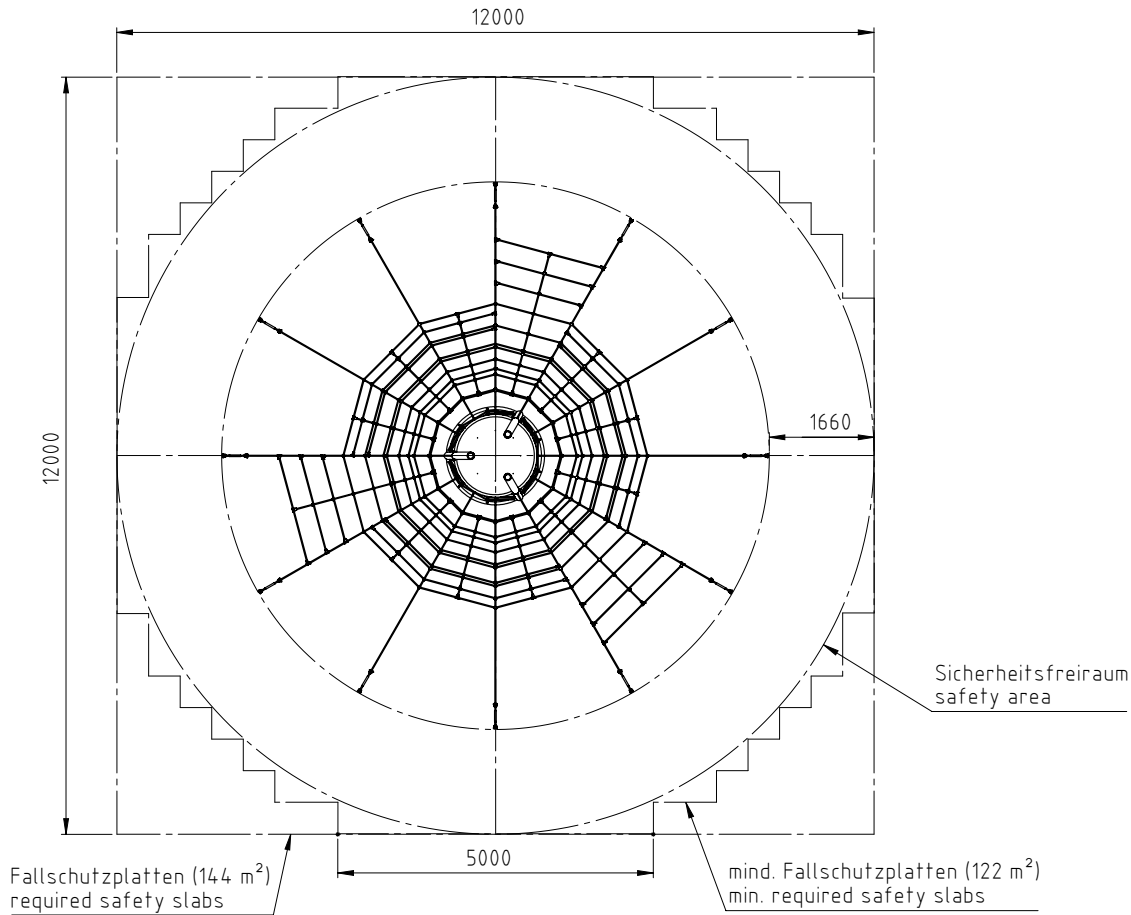


Diagram 3: Top view

12. Establish the tension with three ropes which are arranged in a triangle (see diagram 2b, Pos.1, Pos.5 and Pos.9). Avoid sagging of the ropes, but make sure that the tower is still upright. Fasten with the included heavy-duty dowels.
13. Establish the same tension with three ropes which are arranged in a triangle (see diagram 2b, Pos.3, Pos.7 and Pos.11). Avoid sagging of the ropes, but still make sure that the tower is still upright. Fasten with the included heavy-duty dowels.
14. Mount all the net clamping tension systems in between and fasten with the included heavy-duty dowels.
15. After complete fastening in the foundations retighten the ropes with the tightener as described above.
16. Cover the entire impact area with fall protection according to the required drop height in accordance with EN 1176-1.
Critical drop height: 800 mm.
Recommended surface material: sand, wood chip, gravel, synth. impact protection.
17. Do not allow children to use the equipment before the installation has been finished.
18. During the first days of usage, it is possible that the rope elongates. A few days after the first use, check the ropes and if necessary re-stress the rope.

Note: We recommend to elongate the ropes a little during the winter months when temperatures drop below freezing to prevent excessive tensile forces on the uprights and the foundations.

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Attention: If the play equipment has been incompletely installed or partly dismantled when carrying out maintenance and repair work, this may lead to particular risks of injury for the user. For this reason, make clearly visible that the equipment shall not be used in such cases.

NOTE: Play equipment, which contain components made of stainless steel should not come with „normal“ steel parts in contact. Those steel parts may rub off and leave small steel particles in combination with moisture brown rust stains. If such corrosion occur on stainless steel parts, they are fine with an abrasive (240 grit) to remove.

Please take care when transporting and setting up the fact that the components are made of stainless steel with no „normal“ steel parts in contact.

In order to preserve a good visual appearance of your stilum playground equipment over a long period one should take care of maintenance of the stainless surface even despite of their corrosion resistance.

Especially areas, which can not be reached by rainfall should be frequently cleaned from dirt and deposits due to air pollution and dirt caused by the atmosphere. Light soiling can easily be removed by using a high pressure cleaner.

For persistent deposits use a clean cloth moistened with a special liquid cleaner (e.g. on phosphoric acid) and rinse off with clear water after a short application time. During cleaning with mild abrasive components, only wipe over stainless steel surface in polishing direction.

For heavily soiled surfaces, polishes can be used (e.g. for cleaning chrome on cars) or for greasy and oily dirt alcoholic cleaning agents and solvents (e.g. ethyl alcohol, isopropyl alcohol or acetone).

However, it should be noted that the dissolved soiling is not spread over the surface again.

Do not use any chlorid or hydrochloric containing cleaning products nor scouring powder, bleaching - or silver polish cleaner. Cleaning intervals depend on type and degree of soiling as well as on demands made on optical characteristics. Therefore cleaning is advisable at intervals of six to twelve months – whereby in the case of strong soiling it is appropriate to clean the playground equipment at intervals of three to six months.