

Climbing Pyramid 300

Article-no.: 0100300

Installation and maintenance manual



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1. Bill of material

1 post of steel, hot dip
galvanized

L=3850 mm Ø88,9 mm

weight approx. 35 kg

Ø150 mm L=450 mm

1 plastic tube

weight approx. ca. 40 kg

1 net climbing pyramid 300

4 turnbuckles M 16

4 chains 1000x10mm long
version

4 anchor elements

4 shackles 12 mm

Not included in delivery but needed is 4 pcs. reinforcing steel
mat Q 131 800x800 mm to reinforce the anchor foundations.

2. Technical data and notes

- Impact surface (Ø): 7500 mm
- Maximum fall height: 2350 mm
- Fall area (ØxH): 6800x2350 mm
- Kind of usage : standing/climbing
- Required free space: radius 1000 mm around the device
- 1800 mm above the highest horizontal rope
- Device space (LxWxH): 6050x6050x3000 mm
- Dimensions shipping (LxWxH): xxxxxxxxxxxxxxxxxxxx
- Weight complete: 85 kg
- Age restriction: 3 years
- Intended age group: 3 to 10 years
- Number of user: 45
- For a maximum fall height of 2350 mm safety surface must be according to EN 1176-1:2017 4.2.8.5 table 4.
- spare parts for the climbing pyramid have to be purchased from the manufacturer only.
- Certificated: AfPS GS 2014:01 PAK
DIN EN 1176-1:2017
DIN EN 1176-11:2017

3. Installation instructions

Think about the deep of foundations 1000 mm under the play level (cable, pipes and so on).

3.1 Installation foundation

- In order to ensure safety, it is essential to adhere to all specified dimensions, also the foundation.
- Concrete of grade C20/25 must be used.
- The floor under the foundation needs a pressure of $\sigma_{zul} \geq 150 \text{ kN/m}^2$.

Establishing the foundation for the post

1. Dig pit 800x800x1000 mm
2. Fill in 150 mm concrete and let complete hardening.
3. Determine the centre of the area, vertically align the plastic tube (L=450, Ø150 mm) and fix in place.
4. Fill in another 450 mm of concrete, flush with the tube, and let concrete complete hardening.

Establishing the foundation for the anchors

1. Dig 4 pits (950x950x1000mm).
2. Fill in 550 mm of concrete.
3. Bring in reinforcing steel mat Q 131.
4. Bring in anchor element centre in the middle, take care of right position to the net. Think about the hole of the anchor. This has to be 20 to 40 mm above the foundation.
5. Fill in another 50 mm of concrete.
6. Let concrete complete hardening.

3.2 Mounting post

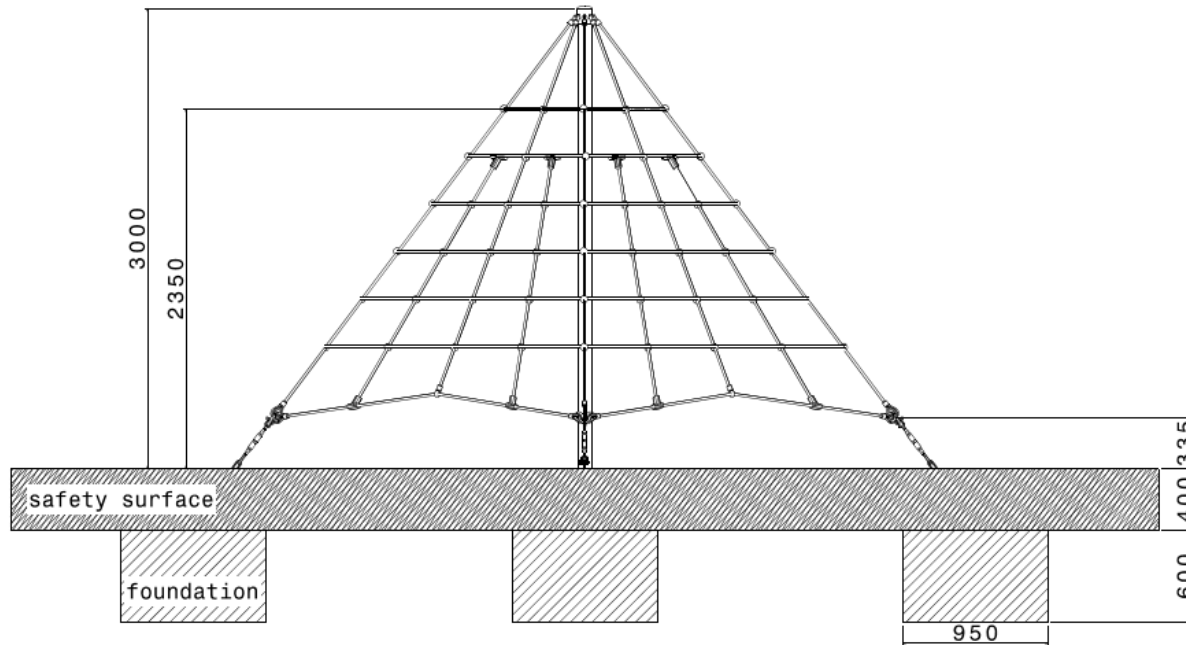
1. Place post in plastic tube and centre.
2. Align post vertically and fix it.
3. Fill remaining space with concrete.
4. Let concrete complete hardening.

3.3 Mounting net

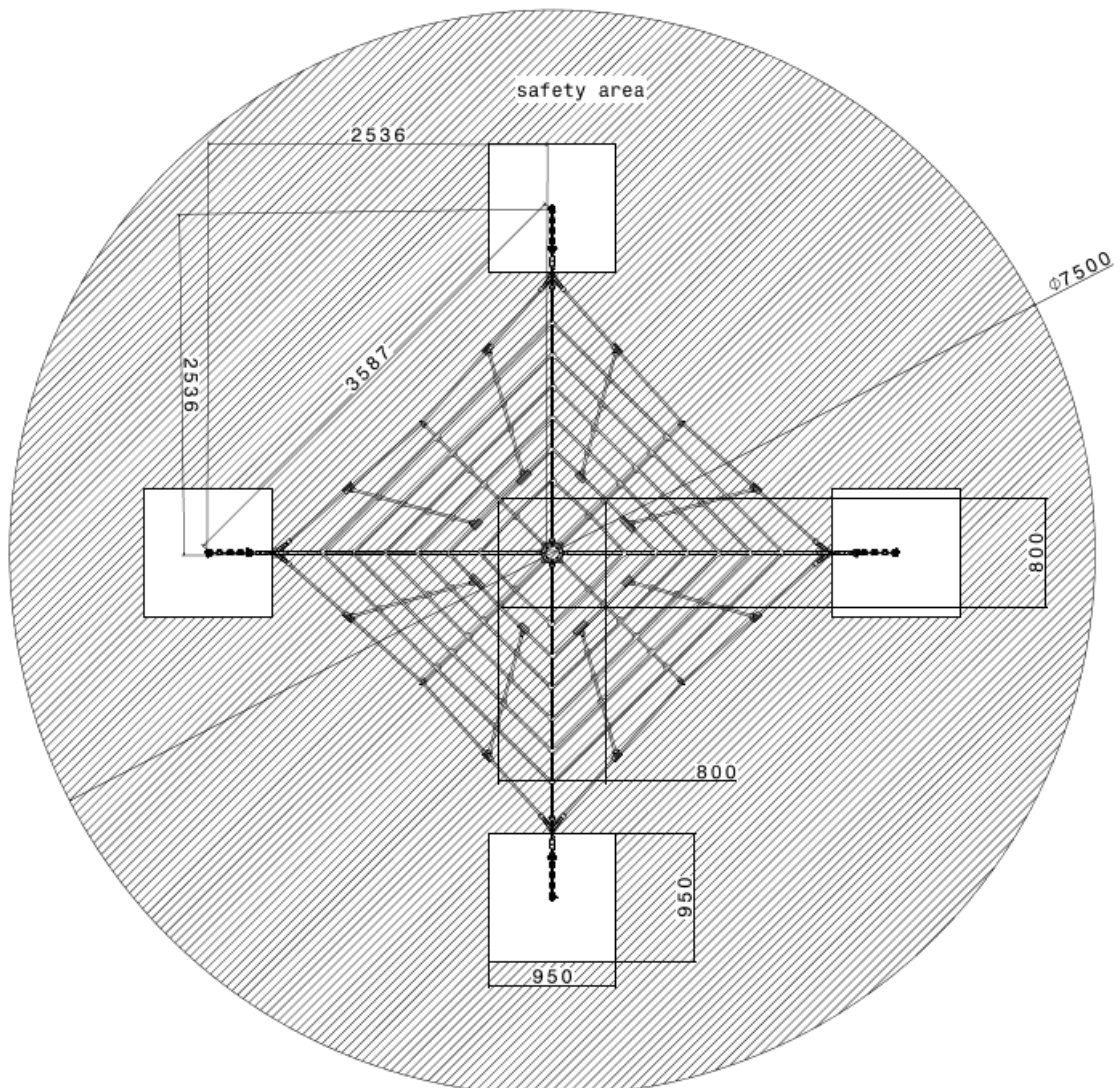
1. Open turnbuckles complete. Connect chain with 12 mm shackle to anchor. Connect on the other side of the chain the turnbuckle.
2. Set cap on post and align net. Connect turnbuckles to the rings at the bottom of the net.

3. Tension the turnbuckle until the ropes running to the cap are tight and give approx. 4 cm under pressure. Secure the turnbuckle with the lock nut to prevent it from being turned up.
4. If the clamping distance of the turnbuckle is not sufficient to bring enough tension on the 4 main support cables, these must be secured in their position, f. e. with a ratchet strap. Open the turnbuckles again and re-attach 1 to 3 chain links in the direction of the foundation. Then repeat point 3.
5. Fill in safety surface.

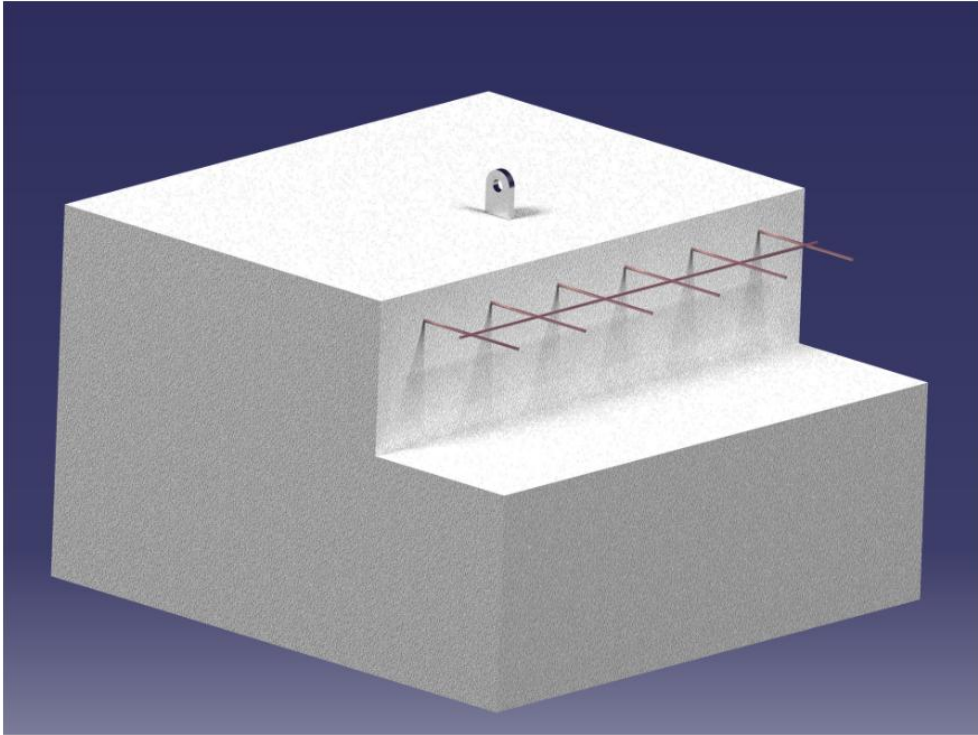
4. Dimensions



Drawing 1: Front view of installed Climbing Pyramid 300



Drawing 2: Top view of Climbing Pyramid 300



Picture 1: Cut through on anchor foundation

5. Safety and user information

- Open light or fire, burning cigarettes, etc., knives or other sharp-edged or long and sharp objects are prohibited when climbing!
- Do not wear high-heeled or sharp-edged shoes, stiletto-heeled shoes or rollerblades when climbing!
- Do not cut or set fire to ropes!
- Do not loosen screws or nuts on the shackles, turnbuckles or spherical- and T-connections!
- Do not saw into strands and/or loosen their screws!
- Do not climb onto the top cap!
- Do not jump of the pyramid or push other climbers!
- Do not eat or drink on the pyramid.

6. Changes

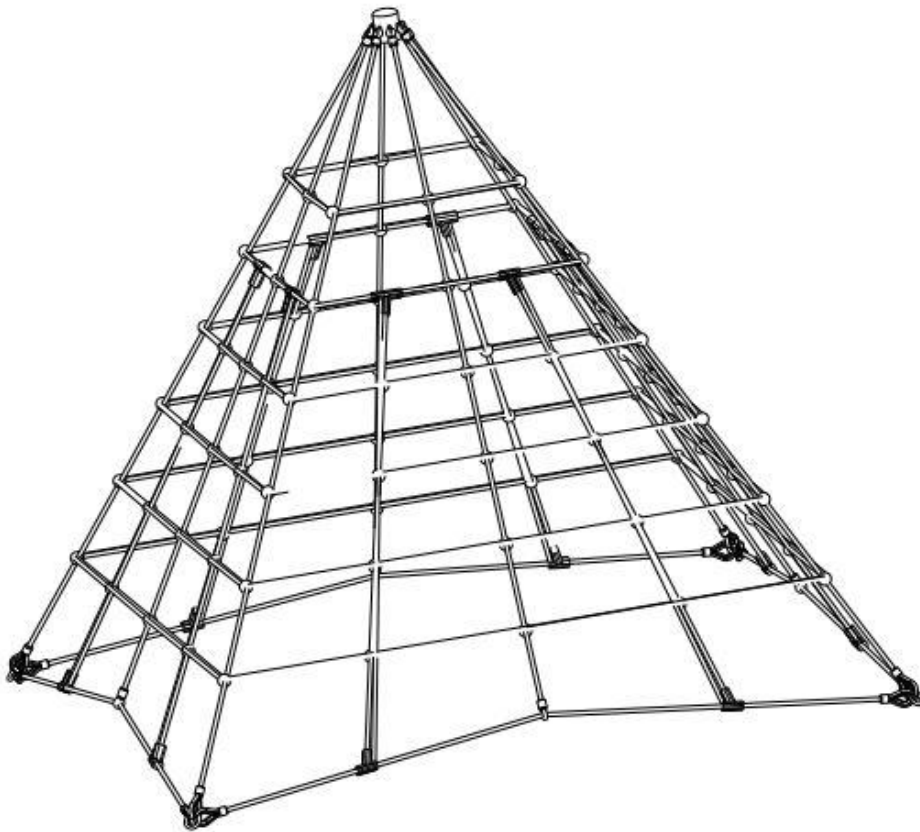
01.05.2009: Company's name
01.06.2009: EN 1176-1:2008 and EN 1176-11:2008
17.09.2009: 2. Preliminary Instructions: Safety surface
17.09.2009: 1. Parts list: Turnbuckles
30.04.2010: 3. Age group
15.10.2015: New layout
23.01.2018: New drawings

7. Parts

Net climbing pyramid 300

Article-no.: 0100300

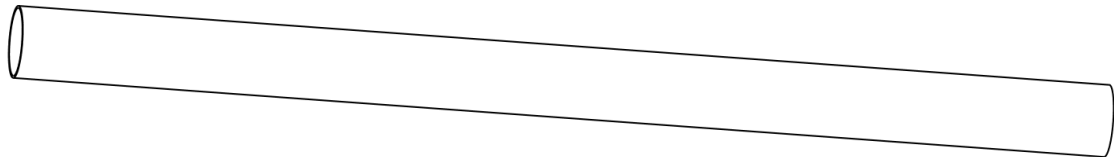
Illustration can deviate



Post for climbing pyramid

Article-no.: 863250

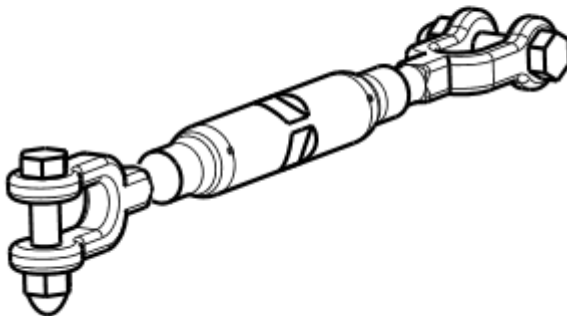
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Turnbuckle M16

Article-no.: 81416

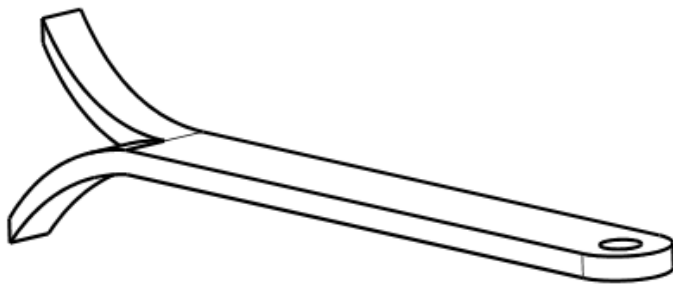
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Slat for foundation

Article-no.: 841300

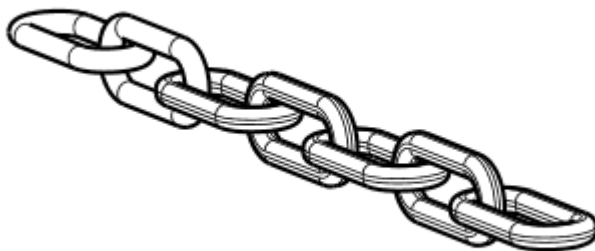
Illustration can deviate



Chain 10 mm

Article-no.:8560260

Illustration can deviate



Shackle M12

Article-no.:3083510

Illustration can deviate



8. Maintenance manual

Special Information:

- For heavily used or vandalized playgrounds, a daily inspection may be required.
- Control logs are to be kept.
- The checks must be carried out by knowledgeable staff.
- If safety-critical serious defects are detected during an inspection, they must be remedied immediately. If this is not possible, the system must be excluded from use, e.g. by decommissioning or dismantling.
- If a piece of equipment needs to be removed, e.g. for maintenance or repair, all anchors or foundations remaining in the ground should be removed or covered with covers. The device should be locked for use.
- It has been shown that one post items can pose higher risks to their stability; the stability test should therefore be carried out at least twice a year.
- The strength of the screw connection must be checked no later than 14 days after installation. Loose connections need to be tightened.

Maintenance manual

		1 to 3 weeks (visual inspection)	1 to 3 months (operational inspection)	1 time per year (main inspection)
<i>All steps could also be necessary more often depending on the location / external influences</i>				
Check for loss or vandalism.		X	X	X
Check the surfaces of metal and plastic for sharp-edged elements, scratches, cracks or similar and, if necessary, grind or renew.		X	X	X
Replace missing parts.		X	X	X
Remove dirt and other objects (stones, broken glass, etc.).		X	X	X
Check moving parts for easy operation.			X	X
Check the coverage of the foundations.			X	X
Check all fasteners and attachments for tightness and loss, tighten or replace.			X	X
Check screw connection and tighten if necessary.			X	X
Check ropes and rope connections for tightness and loss.			X	X

Maintenance manual

All steps could also be necessary more often depending on the location / external influences

	1 to 3 weeks (visual inspection)	1 to 3 months (operational inspection)	1 time per year (main inspection)
Testing the stability of the device.		X	X
Check for traps.		X	X
Testing the fall protection coating.		X	X
Expose stand posts to the top of the foundation and check for corrosion.		X	X
Clean complete game device.			X
Check chain links for abrasion (1/3 maximum permissible).		X	X
Check ground clearance.		X	X

Work documentation

Date	Kind of work	Name, Sign