Technical Information

Carrantuohill
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Installation Instructions EN 1176-1
Maintenance Instructions EN 1176-1

10.10.14

General

The operations described are to be carried out by a specialist.

The climbing frame is fixed on a galvanised square tubular frame. Concreting is not necessary. It is easy to change the location without the bases having to be removed or remaining in the soil.

Dimensions

Effective space	2.99 x 2.99 m
Drop	1.55 m
Minimum space	6.09 x 6.09 m
Height	2.99 m

Age group

4 years upwards

Number of users

About 15 children

Maximum free drop height

1.57 m

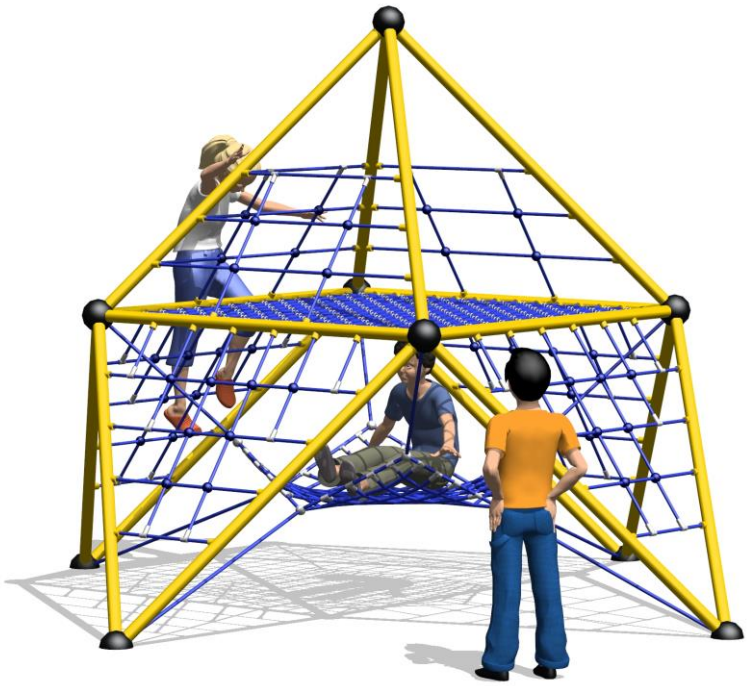

Figure 1 Type Carrantuohill

Ground quality

With regard to the type of ground in the play area, please refer to EN 1176-1. According to this, sand, wood chips, gravel and HIC tested synthetic protective coatings are allowed. We recommend a min. 400 mm thick layer of gravel (grain size 2 – 8 mm) or sand (grain size 0.2 - 2 mm). If you use a synthetic protective surface it must be sure that all relevant parts for the maintenance (see maintenance instruction on page 4) are every time accessibly. If necessary consult SMB.

Assembly tools

Tools supplied:

1 size 32 socket spanner with extension
1 size 10 Allen key
2 special bits for securing screws
1 size 27socket spanner

Additional tools required:

2 size 24 open-jawed spanners
1 electric screwdriver for special bits
1 double ladder, approx. 3 m long
normal assembly tools

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Assembling the anchoring frame

Screw down the galvanised square tubular frame with the plug-in system as shown in **figure 2**.

This frame must be placed in the soil at a depth of 470 mm below the play level **(figure 2)**, and must be level and square.

This framework ensures that the frame tubes and the hollow balls can be screwed in correctly.

1 Plug-in frame Part 1
2 Plug-in frame Part 2
3 Plug-in frame Part 3
4 Tube anchor

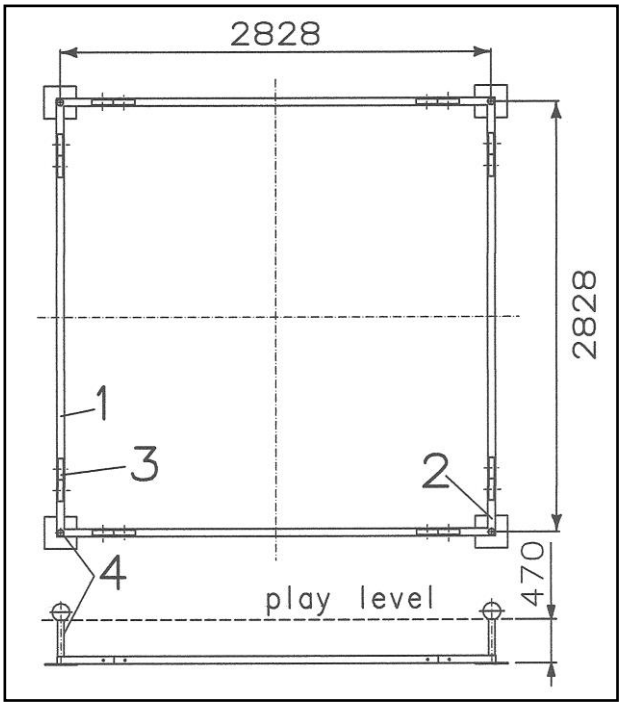

Figure 2 **Anchoring frame**

Assembling the frame

An approx. 3 m long double ladder will be required for assembly. The arrangement of the frame tubes and ball joints is shown in **figure 3**.

The reference number printed on the joints **(K4/K7)** always points to the top of the frame **(K1)**.

After completing the preassembly of the frame, but initially only partially tightening the screw connections, check the correct alignment of the ***ROWOCON*® - connections** regarding the adjustment of the nets **(see figure 4 and 5).** All the nuts can then be tightened with the extended socket spanner size 32.

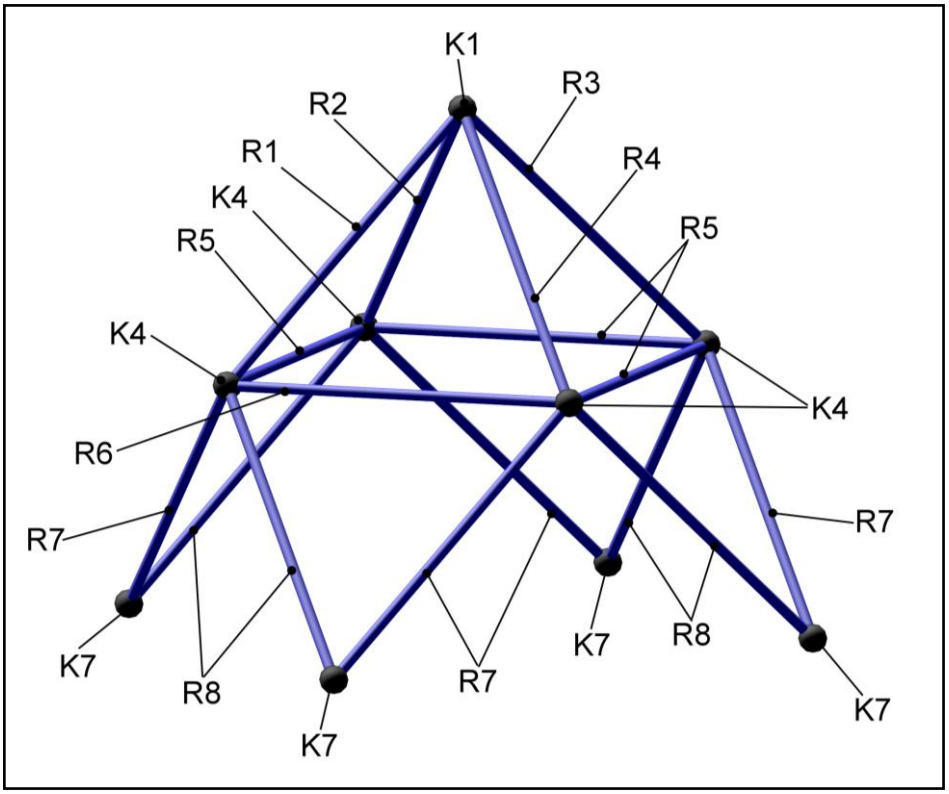

Figure 3 **Arrangement of the frame tubes and ball joints**

Ball joints		frame tubes			
1x	K1	1X	R1	3x	R5
4x	K4	1X	R2	1x	R6
4x	K7	1x	R3	4x	R7
		1x	R4	4x	R8

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Assembling the surface netting

The **horizontal net (NH)** should be fitted first. Insert the rope ends on the slide side into the ***ROWOCON***® **sleeves** as far as they will go and fasten them with the securing screws provided **(figure 5 and 6).** If individual rope ends should insert only with difficulty, you can help yourself with an injection of silicon or oil in the ***ROWOCON***® **sleeves.** In no case it is allowed to remove the end sleeve of the rope! Then fasten the opposite side, using the hemp rope to provisionally tighten the net, which will make threading and screwing down easier.

The two remaining sides of the net can then be screwed down.

The **four** lower **triangular nets (N3)** can then be fitted similarly, followed by the **three** upper **trapeze nets (N1 and N2).**

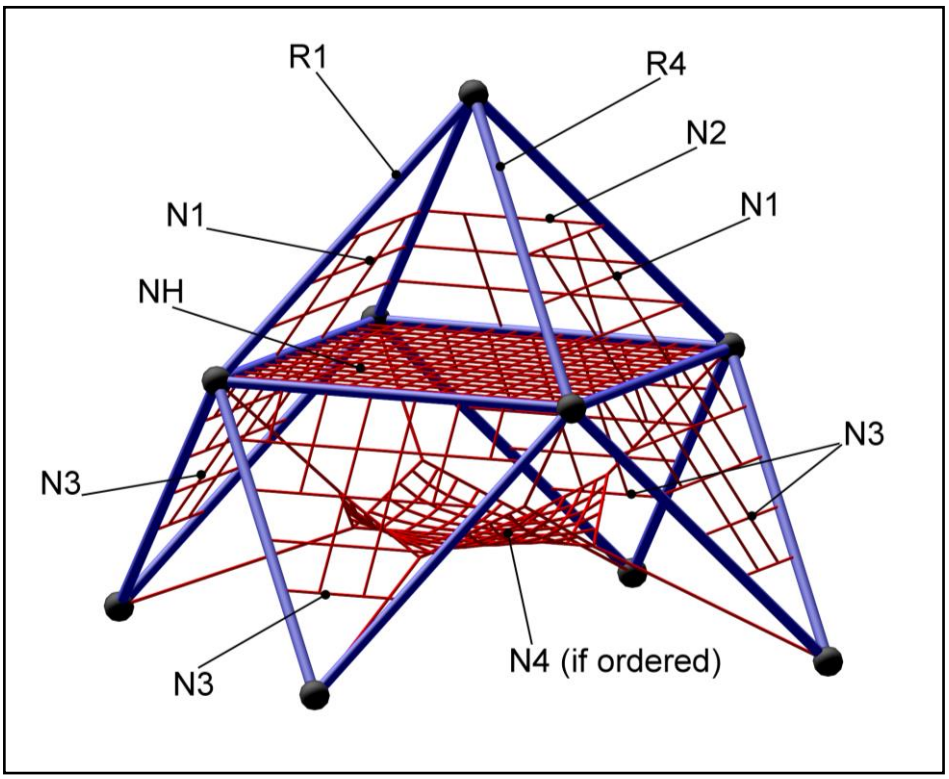

Figure 4 **Arrangement of the nets (Illustration with inside netting as additional element)**

2x N1 **1x N4 inside netting (if ordered)**
1x N2 **1x NH horizontal netting**
4x N3

Caution:
If you bring in the rope ends into the ROWOCON®-sleeves and the following screwing with the safety screw it must be sure that the rope ends are into the sleeves as far as they will go. The safety screw must not screw through the aluminium sleeve at the end of the rope (fig. 6). Otherwise the rope will be damaged.

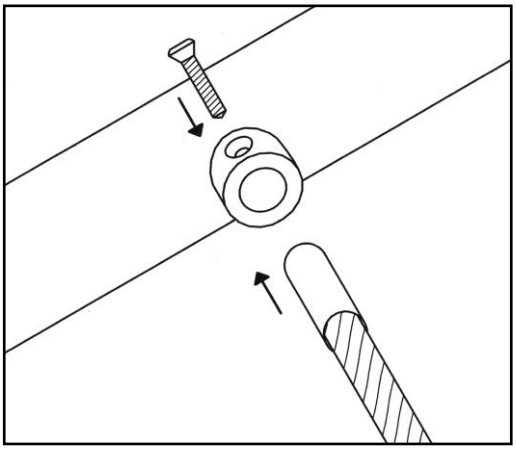

Figure 5 **Alignment and fastening of the *ROWOCON*® sleeves**

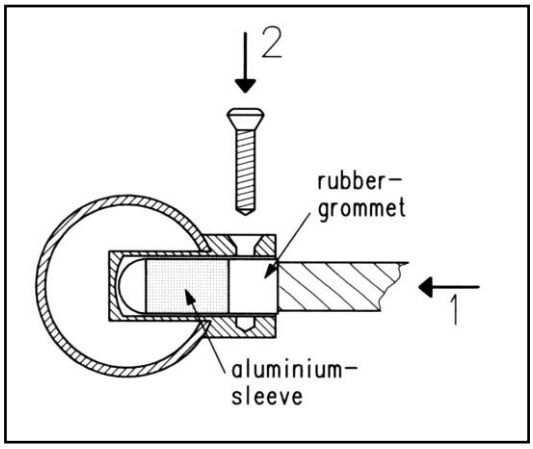

Figure 6 **bring in of the rope ends into the *ROWOCON*® sleeves**

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Assembling the additional element inside netting (if ordered)

With the hollow balls still open, pull the marked straining screws into the corresponding **hollow balls (K4 and K7)** via the tensioning sleeves (size 27), thereby tightening the inside netting. The lock nuts (size 24) on the straining screws can then be tightened **(figure 7).**

Closure of the open hollow balls with the prepared ball covers completes the assembly.

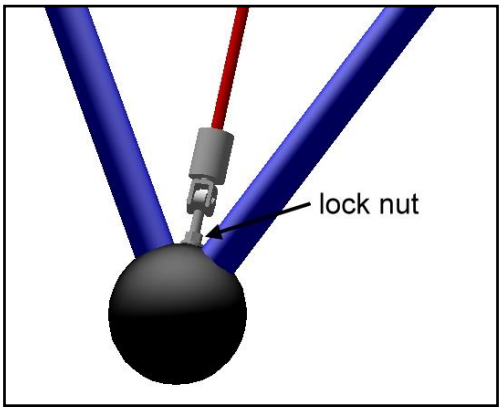

Figure 7 **lock nut at K7**

Locking the hollow balls

Lock the hollow balls with the prepared ball covers.

Maintenance instructions EN 1176-1

Visual routine inspection

Frequency will be based on local conditions (high/low use, vandalism, air pollution, effects of weather).

- The surface netting should be examined for damage, especially broken strands.
- The cover locks for the hollow balls should be checked.

Operational inspection (twice-yearly)

- The additional element inside netting **(if fitted)** should be checked for tautness. Retensioning is carried out at the tensioning point by removing the cover and increasing the tension on the tensioning sleeve (size 27). The lock nut (size 24) **(figure 7)** should first be loosened. Normally retensioning at the upper tensioning points will be sufficient **(K4)**

Main inspection (annual)

In addition to the checks in the visual and operational inspection:

- Check the anchor frame for excessive corrosion (every two years). At the corners the anchor frame should be exposed to the installation depth and checked for corrosion.
- Check that the tube screw fittings have a firm, crack-free connection to the hollow balls. If a screw fitting is loosened, it should be re-tightened inside the ball.
- Check that the lock nuts **(figure 7)** fit firmly on the hollow balls.