

Phoenix.02 – Product Specification



Univers – Classics among rope playground equipment

Net structures offer hours of fun and adventure on several levels – climbing and swinging, up and down, horizontally and vertically – space on earth.

The original spatial nets: Born over 40 years ago as a play concept, continuously further developed in form and detail, still popular even after several generations.

At a glance.

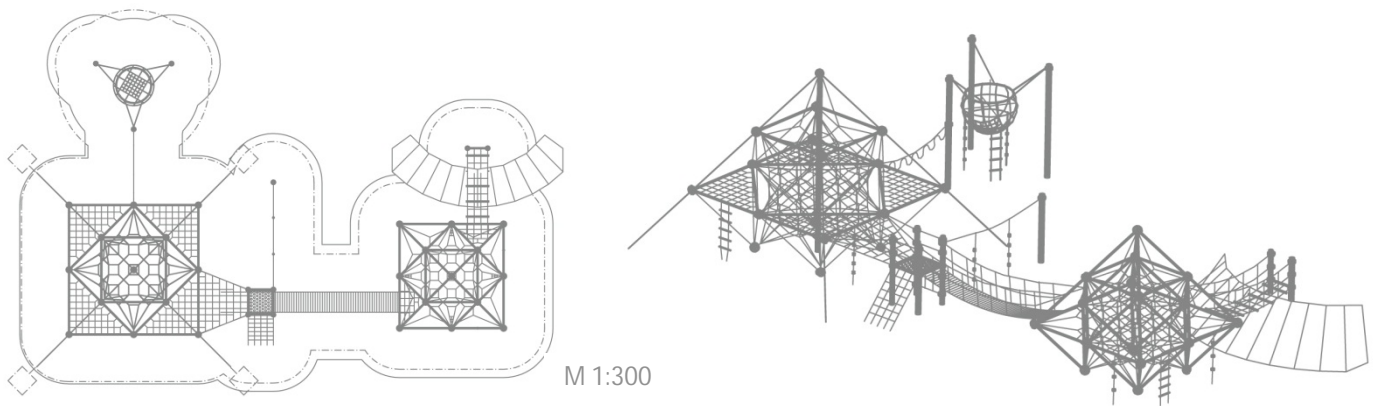
Product Family:	Univers	Number of Foundations:	21 pc.
Item Number:	90.140.921	Concrete Volume C20/C25:	11.7 m³ (413.3 ft³)
Children's Age:	5+	Number of skilled installers required:	3
Fall Height (DIN EN 1176):	2.50 m (8'-3")	Installation Time without foundation:	16 hours
Length x Width x Height:	18.6 m x 12.1 m x 5.6 m (61'-1" x 39'-9" x 18'-3")	Dimensions of largest part:	Ø 0.1 m x 5.8 m (Ø 0'-4" x 19'-0")
Protective Surfacing Area (DIN EN 1176):	20.7 m x 14.7 m	Weight of heaviest part:	160 kg (353 lbs)
Protective Surfacing Area (ASTM 1487):	21.1 m x 14.9 m (69'-4" x 48'-11")	Shipping Volume:	4.1 m³ (145.0 ft³)
Minimum space required DIN EN 1176:		Spare part guarantee:	Lifelong
Minimum space required ASTM 1487:	217.4 m² (2,340.1 sf)		


Berliner
 Berliner Seilfabrik GmbH & Co.
 Lengeder Straße 2/4
 D-13407 Berlin

Tel. +49.(0)30.41 47 24-0
 Fax +49.(0)30.41 47 24-33

info@berliner-seilfabrik.com
 www.berliner-seilfabrik.com

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Technical Data.

The following text can also be used for tenders.

- Phoenix
- Jupiter
- Suspension bridge
- Rubber bridge, platform with access net
- Hand over hand loop rope
- Wasps´ nest
- Rope ladders & climbing ropes

Phoenix.02 (18.6 m x 12.1 m x 5.6 m / 61'-1" x 39'-9" x 18'-3") with 10-years warranty-certificate consists of the following elements:

Central mast:

Steel post 5 1/4" x 1/4" (133 x 7.1mm), anticorrosion treatment and color finish: sandblasting and epoxy-/ polyester-powdercoating.

Framework:

Framework-steel tubes, Ø 2 3/8" (60.3 mm); anticorrosion treatment and color finish: sandblasting and epoxy-/polyester-powdercoating.

Nodes:

Framework-aluminum ball connectors, Ø 250mm (9-13/16"); anticorrosion treatment and color finish: sandblasting and epoxy-/polyester-powdercoating; incorporating the unique Astem TT net tensioning system, securely closed with durable ebonite caps.

Ropes:

U-Rope-round strand ropes with galvanized steel cores, Ø 5/8" (16mm); external strands are covered with high abrasion resistant and UV-resistant polyester-yarn.

External bracing cables:

U-Rope-round strand ropes with galvanized steel cores, Ø 1" (25mm); maximum breaking load 115kN; external strands are covered with high abrasion resistant and UV-resistant polyester-yarn.

Spatial nettings:

Rope crossing points localized by durable, drop forged aluminum-cloverleaf rings; in situ-replaceable rope lines (no special tools required).

Planar nettings:

Rope crossing points localized by durable, drop forged aluminum-ballknots (no plastic)


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Revision: March 2016

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Suspension bridge:

Net bridge with in situ-replaceable square rungs; rungs comprised of stainless steel profile AISI304 with aluminum end caps; width and railing height 31 1/2" (800mm), ends fixed with cast aluminum Terranos clamps (outer tread cables and railing net connected to steel support) or with 600kg-shackles (to net structure and inner tread cables connected to steel support).

Rope ladder:

Width 11-7/16" (290mm), distance between rungs 9-13/16" to 11-13/16" (250-300mm), rungs comprised of Nylon 6.6, connected to horizontal member of net structure with cast aluminum rope clamps, fixed to the ground with a galvanized anchor plate.

Hand over hand loop rope:

All ropes \varnothing 13/16" (20 mm); length per loop approx. 4 5/16 (110 mm) clear diameter; loops durable fixed to a horizontal rope with aluminum ferrules

Climbing rope:

All ropes \varnothing 13/16" (21mm), vertical ropes with worked-in ebonite cylinders, distance between cylinders 9-13/16" to 11-13/16" (250-300mm)

Rubber bridge:

Rubber comprised of durable, vandal-resistant conveyor belt material; rope \varnothing 5/8" (16 mm)

Platform:

HPL-platform; thickness 3/4" (19 mm); connected to steel pipes with cast aluminum panel clamps

Access net:

Rope \varnothing 5/8" (16 mm); mesh size minimum 9-4/5" (250 x 250 mm); rope crossing points localized by durable, drop forged aluminum ballknots (no plastic)

Wasps' nest:

Circumferential cables are round strand ropes with spring steel core, \varnothing 5/8" (16 mm); ball-shaped net connected to steel ring \varnothing 5'- 1/4" (1530 mm) and pipe diameter 1' 7/8" (48.3 mm) with cast aluminum rope clamps; steel ring suspended from cables to three steel posts




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