

# Pluto – 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.

### Pluto – at a glance.

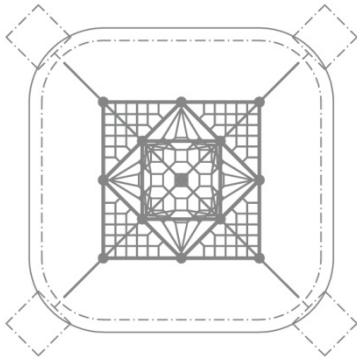
Product Family:	<b>Univers</b>	Number of Foundations:	<b>9 pc.</b>
Item Number:	<b>90.100.145</b>	Concrete Volume C20/C25:	<b>5.0m<sup>3</sup> (176.6 ft<sup>3</sup>)</b>
Children's Age:	<b>5+</b>	Number of skilled installers required:	<b>3</b>
Fall Height (DIN EN 1176):	<b>1.49 m (4'-11")</b>	Installation Time without foundation:	<b>8 hours</b>
Length x Width x Height:	<b>6.2 m x 6.2 m x 4.5 m (20'-4" x 20'-4" x 14'-9")</b>	Dimensions of largest part:	<b>ø 0.1 m x 4.7 m (ø 0'-4" x 15'-5")</b>
Protective Surfacing Area (DIN EN 1176):	<b>7.4 m x 7.4 m</b>	Weight of heaviest part:	<b>110 kg (242.5 lbs)</b>
Protective Surfacing Area (ASTM 1487):	<b>8.1 m x 8.1 m (26'-5" x 26'-5")</b>	Shipping Volume:	<b>5.5 m<sup>3</sup> (194.2 ft<sup>3</sup>)</b>
Minimum space required DIN EN 1176:	<b>52.1 m<sup>2</sup></b>	Spare part guarantee:	<b>Lifelong</b>
Minimum space required ASTM 1487:	<b>61.2 m<sup>2</sup> (658.8 sf)</b>	Certificate according to DIN EN 1176:	<b>No.: Z2 16 01 10256 241 TÜV Product Service</b>

  
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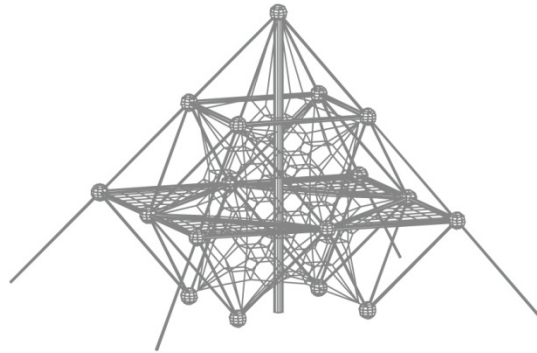
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 Revision: March 2016

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## Technical Data.

The following text can also be used for tenders.

### Central mast:

Steel post 133 mm (5 1/4"), wall thickness 5 mm (3/16"), anti-corrosion treatment and color finish: sandblasting and solvent-free zinc-/ epoxy-/ polyester-process

### Tube framework:

Framework-steel tubes, Ø 60.3 mm (2 3/8"); anti-corrosion treatment and color finish: sandblasting and solvent-free zinc-/ epoxy-/ polyester-process

### Nodes:

Framework-aluminum ball connectors; Ø 250 mm (9-13/16"); anti-corrosion treatment and color finish: sandblasting and solvent-free zinc-/ epoxy-/ polyester-process; incorporating an ASTEM TT net tensioning system; securely closed with durable EPDM- caps

### Ropes:

U-Rope®-round strand ropes with galvanized and covered wires: external strands with non-abrasive UV-resistant Polyester-yarn (no Polypropylene); rope-diameter Ø 16 mm (5/8")

### Spatial netting:

Rope crossing points are localized with durable, forged aluminum-alloy cloverleaf rings and forged aluminum-alloy ballknots (no plastic connections); in situ-replaceable rope strands (no special tools required)

### Planar nets:

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



  
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