

# CombiNation

Metropolis.02 Product Specifications


















Published: June 2022

## Den Haag

Berliner Seilfabrik offers an endless variety of play systems. Since all play systems consist of the same basic modules, the various play systems can easily be combined with each other, i.e. a Univers Net Structure can be combined with a Trii and then connected to a Terranos netscape via a suspension bridge.

At Metropolis.02 the path across a suspension bridge leads from a tree house Trii2 directly into the second storey of DNA Tower L.04. Anyone making it to the very top of the netting is confronted by a steep descent, but the curving tunnel slide offers a quick exit. Meanwhile, down at ground level, a further attraction awaits in the shape of the Duck Jibe.

## 90.180.519

 Product Family	<b>CombiNation</b>
 Length x Width x Height (m) Length x Width x Height ("'-")	<b>8,9 x 12,6 x 7,2</b> <b>29-2 x 41-2 x 23-6</b>
 Protective Surfacing Area acc. to DIN EN 1176 (m) Protective Surfacing Area acc. to ASTM/CSA (m) Protective Surfacing Area acc. to ASTM/CSA ("'-")	<b>13,0 x 15,6</b> <b>13,3 x 16,3</b> <b>43-4 x 53-3</b>
 Fall Height acc. to EN 1176 (m) Fall Height acc. to ASTM/CSA ("'-")	<b>1,99</b> <b>6-6</b>
 Age	<b>5</b>
 Minimum Space required acc. to DIN EN 1176 (m²) Minimum Space required acc. to ASTM 1487 (ft²)	<b>90,54</b> <b>On request</b>
 Number of Foundations	<b>13</b>
 Concrete Volume C20/C25 (m³)	<b>7,3</b>
 Number of skilled Installers required	<b>3</b>
 Installation Time without Foundation	<b>30 hours</b>
 Dimensions of largest Part (m)	<b>8,0 x 1,5 x 1,3</b>
 Weight of heaviest Part (kg)	<b>600</b>
 Shipping Volume (m³)	<b>30</b>
 Total Weight (kg)	<b>2.970</b>
 Spare Part Guarantee	<b>Lifelong</b>

The dimensions of the equipment and protective surfacing area have been rounded up to one decimal digit.

### Technical Data

Technical changes are reserved. The following text can also be used for tenders.

#### Included Products

- DNA Tower L.04
- Duck Jibe
- Suspension Bridge
- Tube Slide
- Trii2
- Access Net
- Sliding Pole

#### Posts:

The bent steel posts with a diameter of  $\varnothing$  133 mm (5 1/4") are thermally galvanised to protect against corrosion and powder-coated in colour using a solvent-free epoxy-polyester-process. In addition, they are sealed watertight with rounded aluminium caps or aluminium balls.

#### Tubes:

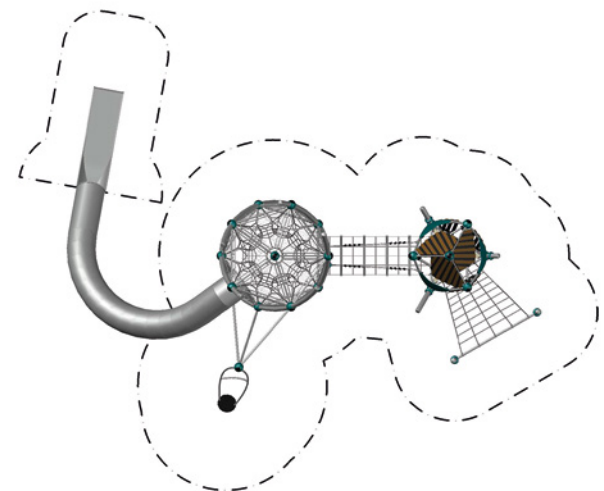
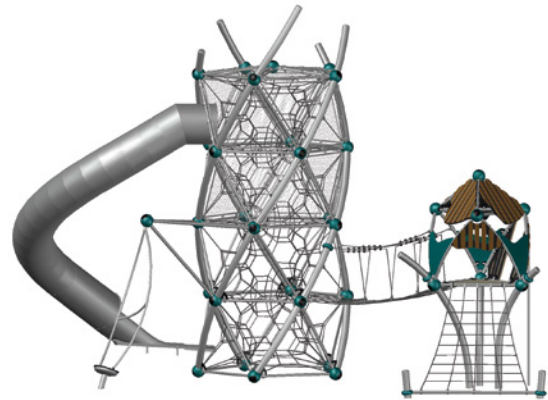
Framework<sup>®</sup> stainless steel tubes with a diameter of  $\varnothing$  60,3 mm (2 3/8") and Steeltubes with  $\varnothing$  48,3 mm (1 7/8"). The latter are sandblasted and powder-coated solvent-free to protect against corrosion. They are connected mainly by Framework<sup>®</sup> aluminium balls.

#### Balls:

The Framework<sup>®</sup> aluminium balls with a diameter of  $\varnothing$  250 mm (9 13/16") are sandblasted and powder-coated solvent-free to protect against corrosion. In combination with spatial nets, they are also equipped with the internal, patented clamping system AstemTT<sup>®</sup>. They are securely sealed with durable EPDM lenses.

#### Terranos Clamp:

The two-part Terranos<sup>®</sup> aluminium clamps are used in conjunction with the Frox connection for the height-adjustable connection of the ropes to the steel posts. When connecting stainless steel chains and steel posts, the clamps with Chrox connection are used.



#### Ropes:

U-Rope<sup>®</sup>-round strand ropes with galvanised steel cores and diameters of  $\varnothing$  16 mm (5/8") and  $\varnothing$  18 mm (1 1/16"). The external strands are covered with high abrasion-resistant and highly UV-resistant polyester-yarn (no Polypropylene).

#### Spatial Net & Planar Nets:

The net structures are fixed at the rope crossing points by durable aluminium parts such as cloverleaf ring, forged ball knot, T-connectors and barrel-ferrule (no plastic). Spatial nets are low in follow-up costs due to individually replaceable rope strands.

#### Access Net & Suspension Bridge:

The planar nets with a rope diameter of  $\varnothing$  16 mm (5/8") and a mesh size of at least 250 x 250 mm (9 13/16" x 9 13/16") are attached to the pipes by Framework<sup>®</sup> aluminium clamps. The rope crossing points are fixed by durable aluminium ball knots (no plastic). The rungs of the bridge are made of stainless steel profiles with aluminium end caps.

#### Safety Net Frames:

Stainless steel tube frame with  $\varnothing$  26,9 mm (1 1/16") and a thickness of 2 mm (1/16"), filled with stainless steel safety nets made of steel rope with  $\varnothing$  1,5 mm (1/16") and a mesh size of 40 x 75 mm (1 9/16" x 2 13/16"). The frame is fastened with cast aluminium clamps to the respective tubes in the main frame.



#### HDPE Roof and Wall Panels:

Dyed HDPE panels with a thickness of 19 mm ( $\frac{3}{4}$ " ) for the roofs and straight, 2-coloured walls and 10 mm ( $\frac{3}{8}$ " ) for the bent side walls. The surface is grained and all edges are rounded. The attachment is made by cast aluminium pipe clamps to the tubes in the main frame.

#### Bamboo Panels:

Bamboo strips 90 mm ( $3\frac{1}{2}$ " ) mounted on HDPE-panels with 19 mm ( $\frac{3}{4}$ " ) thickness and rounded edges, attached to the tubes of the framework with aluminium plate clamps.

#### Sliding Pole:

A Framework<sup>x</sup> stainless steel tube with a diameter of  $\varnothing$  40 mm ( $1\frac{5}{16}$ " ) and a wall thickness of 5 mm ( $\frac{3}{16}$ " ) is connected to the main unit by a Framework<sup>x</sup> aluminium ball ( $\varnothing$  250 mm ( $9\frac{13}{16}$ " )) and a bent part of a Framework<sup>x</sup> stainless steel tube ( $\varnothing$  60,3 mm ( $2\frac{3}{8}$ " ))).



#### Duck Jibe:

The Framework<sup>x</sup> stainless steel tubes are connected at the top to the main framework by lubricated, antifriction reciprocal bearings and an aluminium Ball connector. The standing platform is comprised of grained HDPE and the bearing construction to the ground consists of a steel pipe retainer.

#### Tube Slide:

Tubular slide made of stainless steel. The side walls are welded with stainless steel tubes, ground and polished, fastened with cast aluminium plate clamps to the respective tube in the main frame.