

Univers

Lunia M Product Specifications


















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Lunia M

Big dreams, big freedom – our new Lunia makes climbing wishes come true. It is available in two different sizes, when it comes to the spheres volume. The spatial net inside can be reached via different ascent possibilities, such as Climbing Plates or Rope Ladders. For even more fun in the three-dimensional climbing net, Flubber or Pendulum Seats can be added. Despite the large play volume, the play structure has a small footprint.

The textile membrane is dirt-repellent, 100 % recyclable and resistant to UV light. In addition, it protects the little climbers from the sun. Lunia can be used as a hot air balloon with basket or without a basket with the design of your choice. The membrane of the balloon is protected from vandalism by a safety grid surrounding the three-dimensional netting.

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 Product Family	Univers
 Length x Width x Height (m) Length x Width x Height ("-")	4,7 × 4,7 × 9,0 15-3 × 15-3 × 29-7
 Protective Surfacing Area acc. to DIN EN 1176 (m) Protective Surfacing Area acc. to ASTM/CSA (m) Protective Surfacing Area acc. to ASTM/CSA ("-")	7,9 × 7,9 6,7 × 6,7 21-10 × 21-10
 Fall Height acc. to EN 1176 (m) Fall Height acc. to ASTM/CSA ("-")	2,89 9-6
 Age	5-12
 Minimum Space required acc. to DIN EN 1176 (m ²) Minimum Space required acc. to ASTM 1487 (ft ²)	48.2 374.4
 Number of Foundations	1
 Concrete Volume C20/C25 (ft ³)	74.2*
 Number of skilled Installers required	3
 Installation Time without Foundation	24 hours
 Dimensions of largest Part ("-")	2-0 x 2-0 x 21-0
 Weight of heaviest Part (lbs)	1,874
 Shipping Volume (ft ³)	On request
 Total Weight (lbs)	On request
 Spare Part Guarantee	Lifelong

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

*The foundation size refers to a project in wind zone 3 according to EN 1991-1-4.

Technical Data

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

Central Mast:

A steel post with a diameter of Ø 10 3/4" and a wall thickness of 13/16".

Tubes:

A combination of Frameworkx® steel tubes with diameters of Ø 2 3/8", Ø 1 7/8" and Ø 1 1/2" are used in the entrance area, ascent and balloon.

Support Structure:

Hollow steel profiles measuring 3 1/2" x 3 1/2" and steel sheets with a thickness of 3/8" form the support structure.

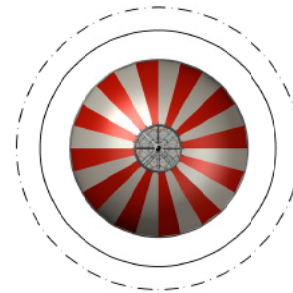
Balloon Rings:

The three balloon rings for tensioning the membrane are made of stainless-steel tubing with diameters of Ø 2 3/8" and Ø 1 7/8".

Balls:

The Frameworkx®-aluminum ball connectors with a diameter of Ø 9 13/16" are in combination with spatial nets equipped with the internal, patented AstemTT® tensioning system. They are all securely closed with durable EPDM caps.

The mast, tubes, support structure and balls are color powder-coated in a solvent-free epoxy-polyester stoving process and partially thermally galvanized.



Ropes:

U-Rope®-round strand ropes with galvanized steel cores and diameters of Ø 5/8", Ø 1 1/8", and Ø 1 3/8". The external strands are covered with high abrasion-resistant and UV-resistant polyester-yarn (no Polypropylene).

Spatial Net:

The net structures are fixed at the rope crossing points by durable aluminum 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.

Planar Nets:

The narrow- and wide-mesh planar nets are permanently fixed at the rope crossing points by durable, drop-forged aluminum ball knots (no plastic) and fastened to the main structure with aluminum pipe clamps.

HPL:

HPL panels with a thickness of 1 1/8" and anti-slip surface are used in the access and ascent areas. They are attached with aluminum panel clamps.



Safety Nets & Grid Frames:

The stainless-steel safety nets in the access area are made of steel cable with $\varnothing 1/16"$ and mesh size of $1 1/16" \times 2 1/16"$. They are connected to the corresponding tubes by wrapping. The stainless-steel wire of the mesh frames in the balloon area has a thickness of $3/16"$ and mesh size of $1 1/16" \times 1 1/16"$. They are fixed with cast aluminum pipe clamps.

GRP Rods:

Round rods made of glass-fibre reinforced plastic are used to brace the balloon skin. The diameter is $\varnothing 3/8"$.

Textile Membrane:

UV light and wind load resistant membrane fabric made of high technology mesh fabric – printable, stain resistant and recyclable.

Rope Ladder:

Ropes with a diameter of $\varnothing 3/8"$ and black rungs made of durable polyamide round material with $\varnothing 1 1/16"$.

Climbing Rope:

Rope with a diameter of $\varnothing 1 1/16"$ is equipped with climbing knots made of durable hard rubber (not plastic). These are fixed with aluminum press clamps.