

# VOLO Dome 150

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## Technical Data

|                |                             |
|----------------|-----------------------------|
| Floor Area:    | 1657 sq ft                  |
| Diameter       | 46 ft                       |
| Ceiling Height | 29 ft                       |
| Volume         | 24720 cubic ft <sup>3</sup> |

## Membrane options

|   |
|---|
| <b>Transparent front (1):</b> White, opaque PVC membrane with detachable, exchangeable clear, transparent front part, our most versatile solution     |
| <b>Blackout (2):</b> White, opaque PVC membrane with detachable, exchangeable white, opaque front part, ideal for darkening out the interior          |
| <b>Transparent membrane (3):</b> Completely transparent PVC cover, ideal for night events, giving you the possibility to create magical light effects |
| <b>Branded membrane (4):</b> Fully color printed membrane or printed detachable front part, ideal to put your brand's message across                  |
| <b>Open dome (5):</b> unique 2-in-1 solution that combines the classic dome shape with a completely innovative mobile stage system                    |
| * Opaque PVC membranes can be replaced with non-opaque, single layer cover, perfect for creative lighting effects visible from the outside            |

## Membrane material specification

|                    |  |
|--------------------|--|
| Surface area:      | 384 m <sup>2</sup> (total) / 39 m <sup>2</sup> (front part only)   |
| Membrane material: | PVC Coated Polyester Fabrics                                       |
| Thickness:         | 650 g/m <sup>2</sup> (non-opaque)<br>800 g/m <sup>2</sup> (opaque) |
| Certifications:    | Class B1 and M2 of fire resistance according to DIN 4102           |

## Steel framework

|                       |  |
|-----------------------|--|
| Structure material    | Steel S235JR   |
| Structure finish      | Hot-dip, double sided galvanized, powder coated white (other RAL colors available) |
| Strut details         | 450 struts / 30 mm diameter / 2.0 mm strut's wall thickness                        |
| Strut length          | 1387 min. - 1831 max.  |
| Connecting bolts      | M16 zinc-coated bolts  |
| Structure feet number | 25   |

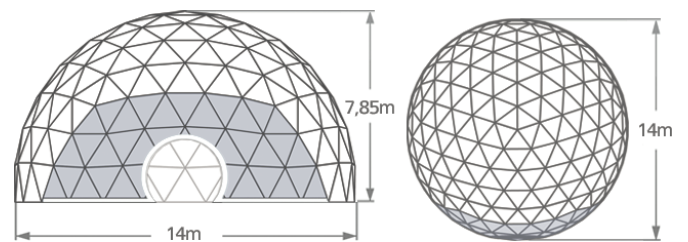
## Entrances / Doors / Openings

|  |   |
|--|---|
| Number of entrances                      | 1 (up to 3 optionally)  |
| Width of circular entrance               | 5 ft (at floor level) / 11 ft (at the center)                                   |
| Height of circular entrance              | 8 ft  |
| Membrane door:                           | 3x PVC membrane zip door (white or transparent)                                 |
| Aluminum-glass door:                     | Optional double wing aluminum-glass door with anti-panic system and safe glass. |
| Aluminum-glass door entrance dimensions: | Height: 5 ft / Width: 7 ft  |
| Ventilation                              | 5 ventilation openings at the top AC / Heating opening available on request     |
| Windows                                  | Circular or triangular transparent membrane windows available on request        |

## Membrane options



## Dimensions



## Safety

|                    |   |
|--------------------|---|
| Windloads          | 0.5 (dynamic pressure q = kN/m <sup>2</sup> ) |
| Dynamic pressure   | 11 Beaufort / violent storm                   |
| Extra load allowed | 1763 - 2810 lbs (suspended load)              |
| Extra load points  | Min.: 16 / Max.: 50                           |

## Load parameters

|                 |                                  |
|-----------------|----------------------------------|
| Steel framework | 2976 lbs / 2x 1.9 x 0.7 x 0.95 m |
| Membrane        | 462 lbs / 1.6 x 1.2 x 0.4 m      |

## Assembly / Dismantle

|                    |                          |
|--------------------|--------------------------|
| Assembly time      | 9 hours / 8 persons crew |
| Dismantle time     | 6 hours / 8 persons crew |
| Equipment required | 28t crane                |

All sizes, weights and volumes listed in this table are rounded approximations and may deviate due to varying materials or production processes.

All the information in this table refers to our standard configuration and materials. Please contact us if you have queries about dome customization (material types & colors, interconnected structures, flooring, interior accessories, air conditioning, branding, etc.)



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