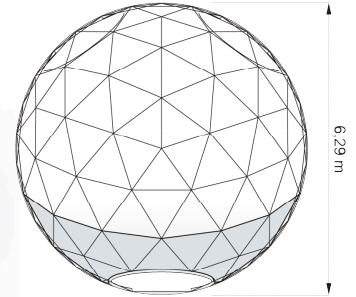
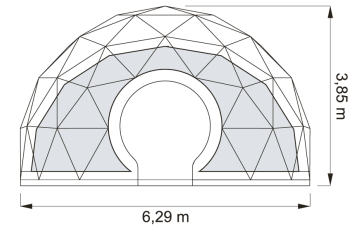


# Geodesic event dome structure: Freedom 30

## Technical Specification



### TECHNICAL DATA

Floor Area / Exhibition space	30 m <sup>2</sup>
Diameter	6,29 m
Ceiling Height	3,85 m
Membrane Surface	66 m <sup>2</sup>
Volume	70 m <sup>3</sup>

### MAX. CAPACITY

Standing	48 persons
Row Seating:	30 persons
Buffet Dinner:	23 persons
Stand up Tables:	23 persons

### ENTRANCES

Circular entry	1 / optional 3
Width (circular entry without door, measured at floor-level)	1,10 m
Width (circular entry without door, measured at the centre)	2,44 m
Heights of the circular-entry	2,38 m
Membrane-entrance	1 / optional 3
Door system (optional):	
Height of entrance with door	1,90 m
Width of entrance with door	1,00 m
Door-wings	1

### WINDOWS

Height of front bay panorama window	2,99 m
Top ventilation openings	5

### MATERIALS

Number of different struts / poles types	3
Min. length of struts	1040 mm
Max. length of struts	1254 mm
Diameter of struts	25 mm
Material thickness	2,0 mm
Number of structure feet	20
Membrane material	PVC Coated Polyester Fabrics
Membrane material thickness (standard type)	650/800 g/m <sup>2</sup>

### MATERIALS - ATTESTATION DETAILS

Dome structure constructed with steel struts / poles produced according to DIN 1616; 1984 standards

Material used for struts / poles production - EN1025: steel S235JR

Struts / poles endings are flattened and bolted together with M16, zinc-coated bolts, produced according to DIN933 standards

All steel elements are preserved by hot-dip galvanization with anti-corrosive coating, according to EN ISO 1461 DIN 50976 and are powder coated according to EN ISO 12944-5 standards

Membrane material has B1 and M2 classes of fire resistance, according to DIN 4102

### SAFETY

Windloads (dynamic pressure $q = \text{kN/m}^2$ according to DIN 4112)	0,8
Dynamic pressure	12 Beaufort / violent Storm
Extra Loads	300 – 400 kg
Number of extra loads contact points	6 – 16

### LOAD / TRANSPORTATION VOLUME

Structure	250 kg
Membrane	50 kg
Complete	300 kg
Frame package volume	1.5 x 0.6 x 0.3 m
Cover package volume	0.9 x 0.6 x 0.6 m

### CONSTRUCTION / DECONSTRUCTION

Construction time	3 – 5 h
Deconstruction time	2 – 3 h
Team size	2 – 3 persons
Coaching (days)	1
Mobile Crane: Height / Boom length	-

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 & colours, interconnected structures, flooring, interior accessories, air conditioning, branding, etc..)