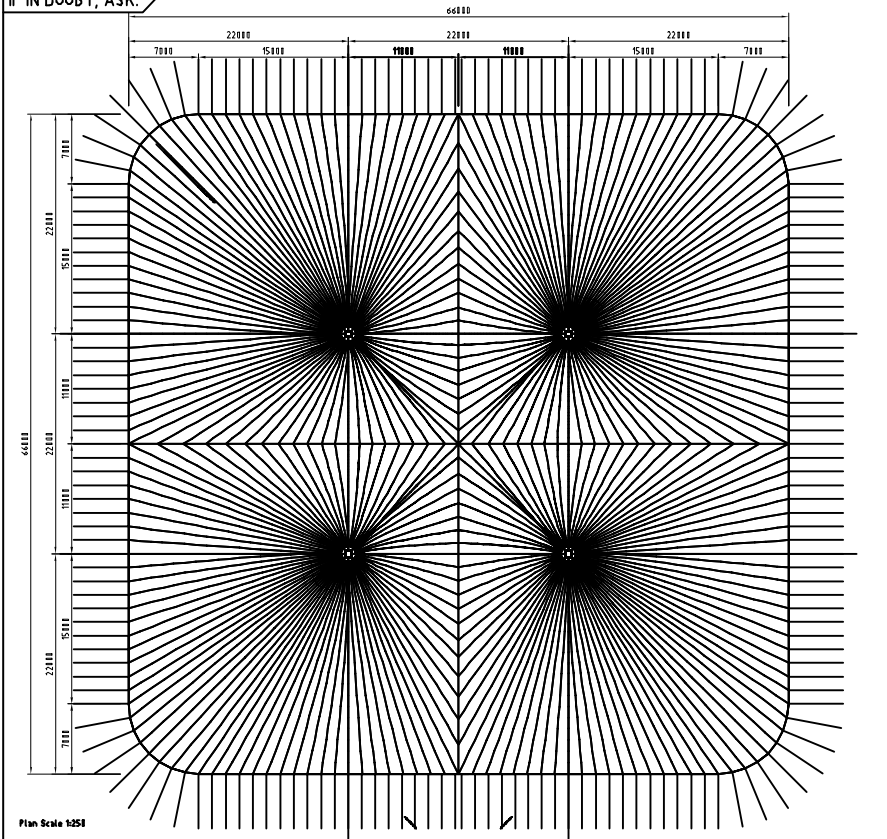
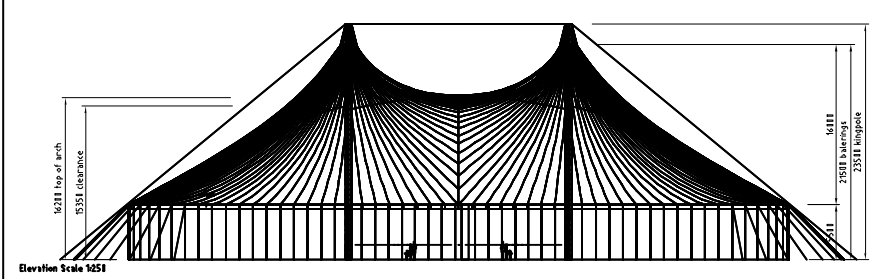


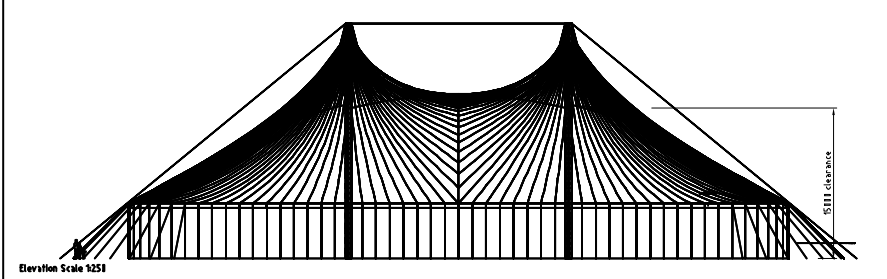
IF IN DOUBT, ASK.



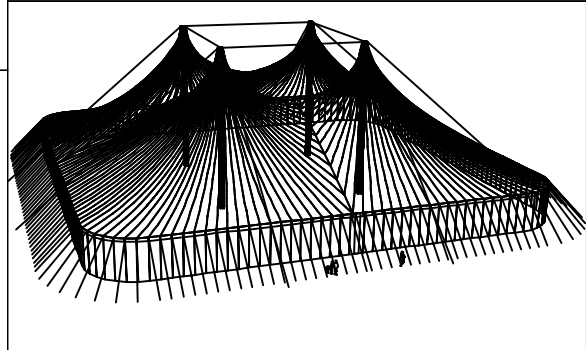
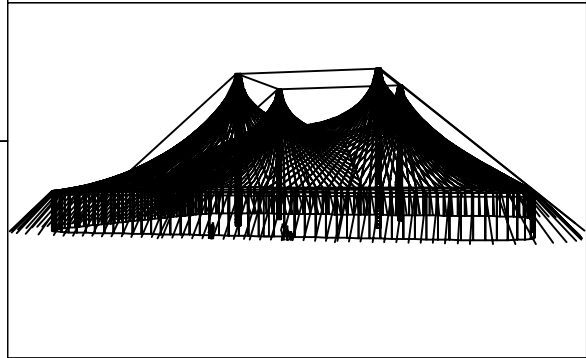
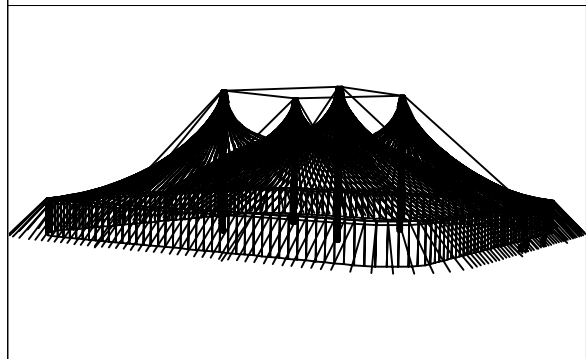
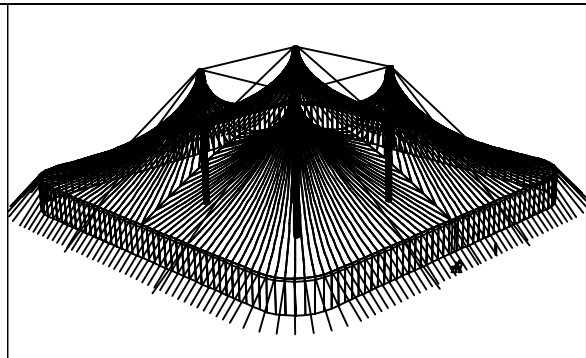
Plan Scale 1:250



Elevation Scale 1:250



Elevation Scale 1:250



Design copyright © 2012 MoonBurst Structures Ltd. Do not scale from this drawing. All dimensions in millimetres unless otherwise stated. Modelling and fabrication to be undertaken in accordance with the relevant standards specifications. Refer to specification with Table 1 Appendix Table 2.

DESIGN PARAMETERS - MT66 - 2

Performance Criteria

The structure is designed for the following applied loads;

Wind load in accordance with British Standard - CP3 Chapter V Part 2 1972. Taking due account of period of exposure.

Wind speed = 42 m/s.
Wind load = 15.5 kN/m²

No snow load has been calculated for this structure.

Large distributed and point loads can be suspended within the structure. Dominant openings are not allowed for. This is a fixed Eave Design E719 S75722.

Ground conditions may require extra staking, raveling, or anchorages.

All wind loadings in this example are based upon British Standard - CP3: chapter V: part 2: 1972 and a basic wind speed of 42 m/s (REF fig 1 page 21. This wind speed is factored to give a design wind speed factored as follows (clause 5 pages 9 and 11)

1/ Factor S1 - A topography factor to account for cliffs and escarpments, the effects of hills and the sheltering in valleys - nominally 1.3.

2/ Factor S2 - A factor to account for ground roughness, building height and size.

A factor of 1.65 is used for open countryside with scattered wind breaks, on a structure more than 50m in width or length. (Sp 3 Table 3. Factor 42, p 11).

3/ Factor S3 - A statistical factor. This is taken as 1.37 which is based on the structure being temporary and subject to a wind likely to occur every 2 years. (Sp 3 Fig 2. Factor 43, p 12).

BS 4155 - The Structural Use of Aluminium
BS 5958 - Part 1: 1995 Structural Steelwork
BS 5426 - Parts 2 & 3 - Flame Retardancy

Fabric Technical data - Specification of Fabric Used:

FR 711 Universal - PVC coated polyester fabric.

1. Base fabric of High Tenacity Branded Polyester. (DN 48 111)
2. PVC coated on both sides
3. High gloss lacquer surface
4. Diff resistant
5. Easy to clean
6. Dimensionally stable
7. Resistant to cold up to -30 degree Celsius (DN 53 341)
8. Flame retardant (see below)
9. Mildew inhibitor biocidally treated
10. Weather resistant
11. Good resistance against ultra-violet rays
12. Light fast colours (DN 54 314)

ENGINEERED STRUCTURAL FABRIC

Fabrics used for engineering application are usually polyester or glass fibre coated with a variety of chemical compounds. The woven base cloth carries most of the tensile forces while the coating protects the cloth against external environmental effects or ultra-violet and pollution. An additional coating of clear lacquer is also applied for additional protection. These lacquers can be acrylic, PVDF (fluorine as in non stick frying pans), or Tedlar.

There are many different combinations of base cloth/coating/lacquer. The correct specification is chosen from experience, and technical and commercial considerations.

TYPE 1 STRUCTURAL FABRIC

Support cloth	DN 48111	PE4
Ends/picks	DN 53551	2/2
Yarn	DN 53431	1111
Weave	DN 41110	L1/1
Grey cloth weight	DN 53454	211
Type of coating	PVC	
Tensile weight	DN 53552	211
Tensile strength warp/weft	DN 53554	3411/3411
Tear resistance warp/weft	DN 53453	311/351
Adhesion	DN 53451	111

Typical Flame retardancy

British	BS5447 TYPE B	
Italian	Class 2	
French	Classification M 2	
German	DN 112 S1	
US	MPPA 711 small and large scale	

Cold crack -40 degree Celsius (DN 53341)

Flexing strength no cracking after at 100,000 flexes (DN 53351)

Widths: feet various

COLOR

Most prime colours are available as standard. Special colours are subject to minimum ordering quantities.

LACQUER

Various lacquers are available for different applications, such as PVDF, PTFE, Acrylic, Silicon.

Blackout cloths are available to special order.

The above data are averages from production. Fine certificates for most countries available. Product descriptions and suggested uses are general and subject to trial for the intended end use. Production is subject to change. E&OE

Rev	Description	Date
1	mbs-ms-001a-mt66-2-PnE.dwg	

Title 1	Title 2	Drawn by	Date	Drawn by
Mobile Stadiums MT66-2	General Layout	Chris	08-11-02	001a
		Project	Scale	
		1p-043	1:250	