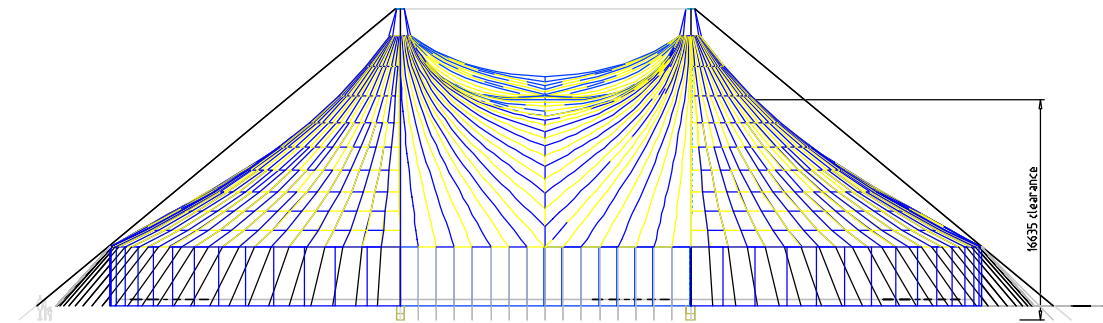
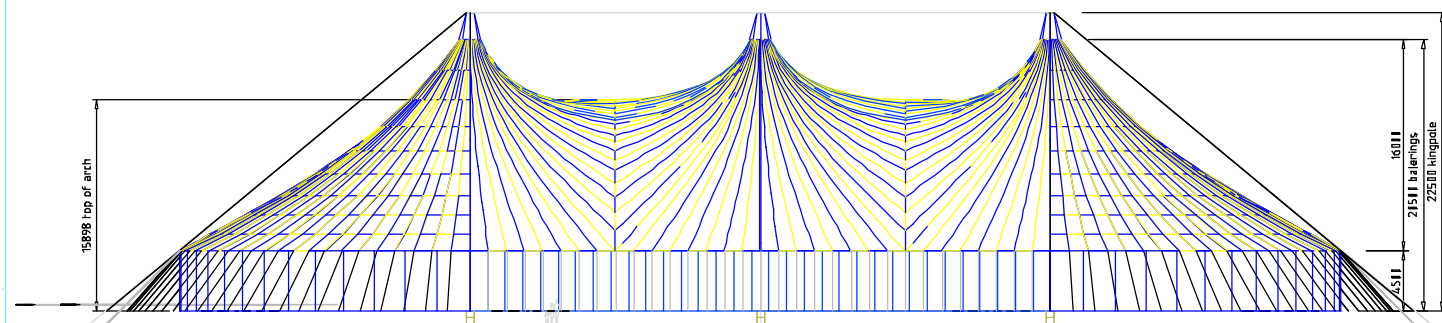
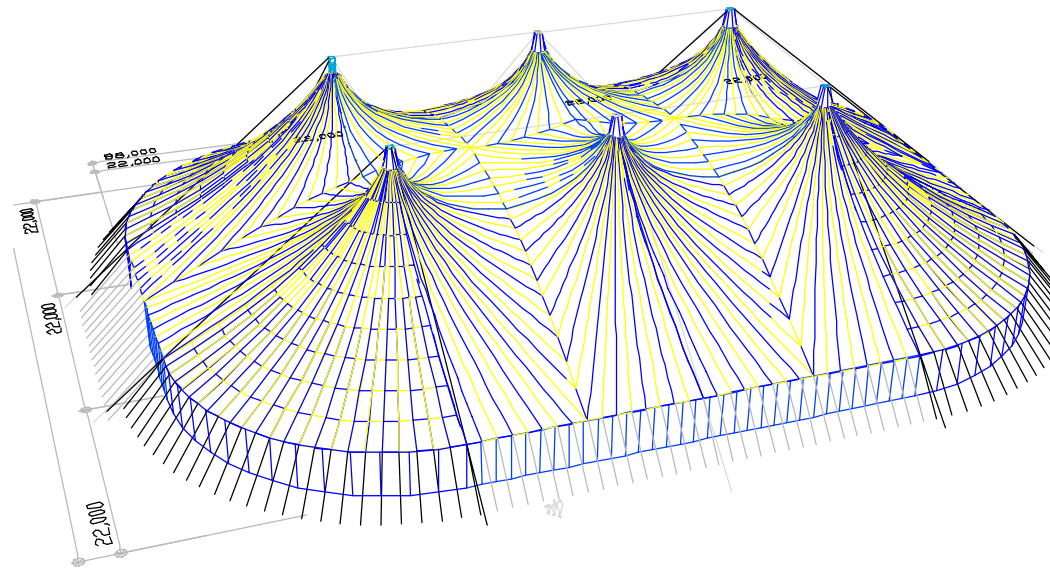
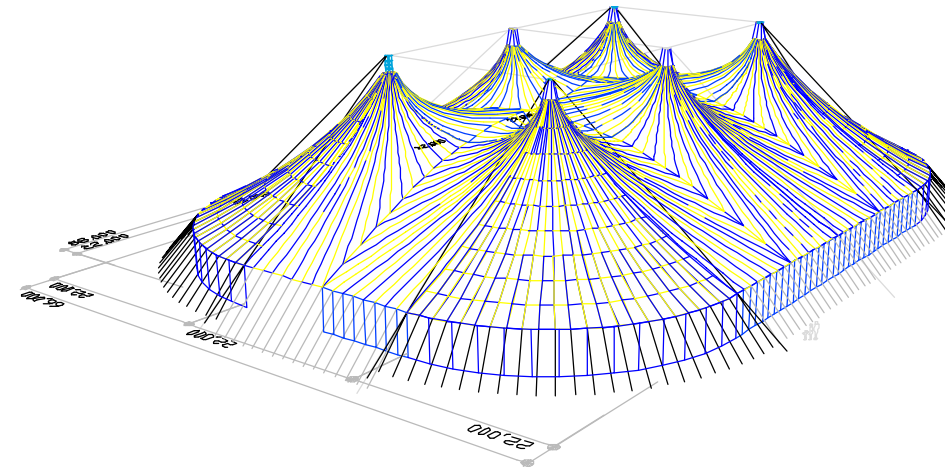
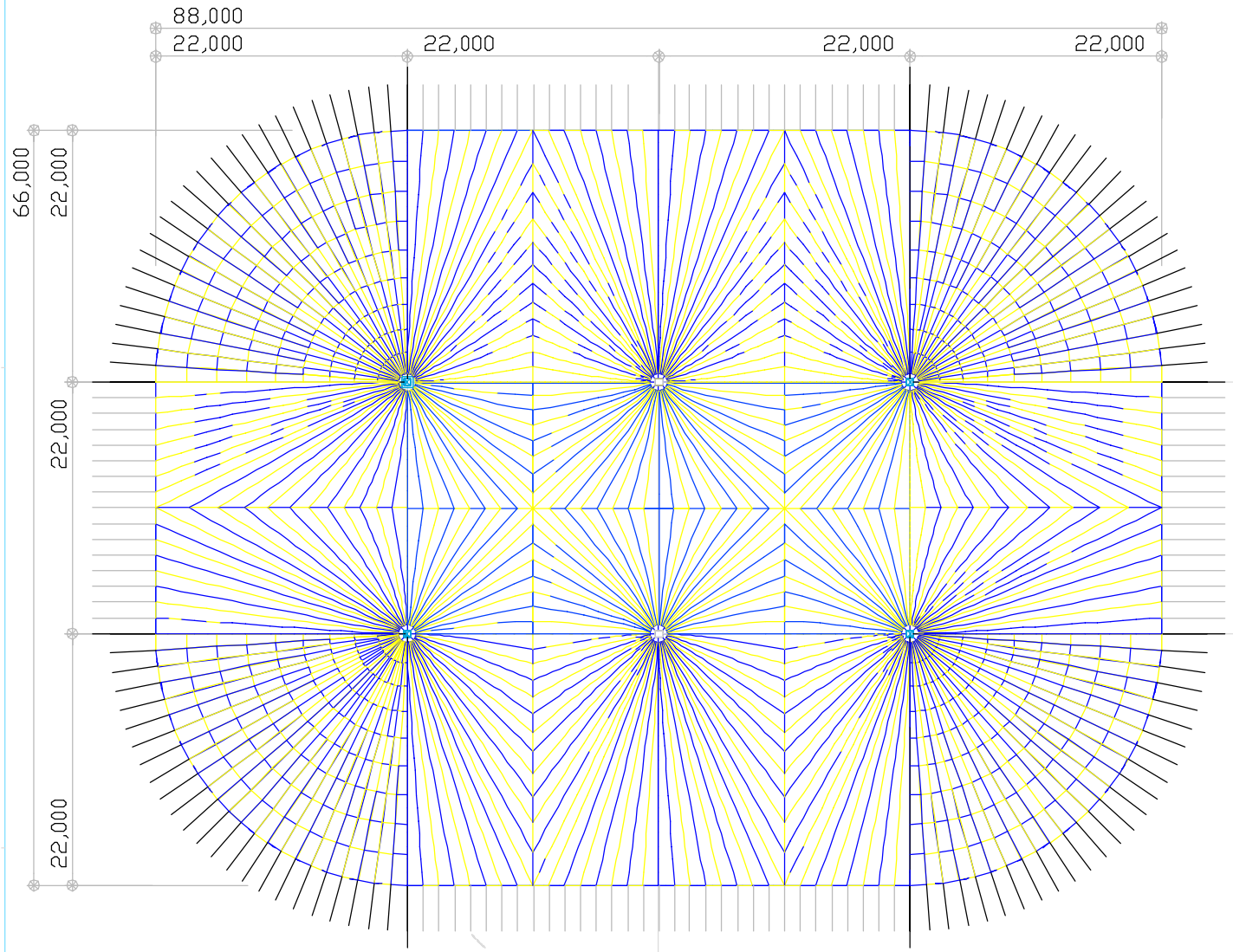


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 Testing in accordance with Table 1 Acceptance Table 2.- heights of structure roof depend upon installation variables - do not scale from drawing



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 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.
 Refer to Rudi Enos Design 1179 510729.
 Ground conditions may require extra staking, raftering or anchoring.

All wind loadings in this scope are based upon British Standard - CP3 Chapter V part 2, 1972 and a basic wind speed of 42 m/s (REF fig 1 page 8). This wind speed is factored to give a design wind speed factored as follows (clause 5 pages 9 and 10)

- 1/ Factor S1 - A topography factor to account for cliffs and escarpments, the effects of hills and the sheltering in valleys - normally 1.1.
- 2/ Factor S2 - A factor to account for ground roughness, building height and size. A factor of 1.63 is used for open countryside with scattered wind breaks, on a structure more than 50m in width or length. (CP3 Table 3, factor S2, p.111).
- 3/ Factor S3 - A statistical factor. This is taken as 1.77 which is based on the structure being temporary and subject to a wind likely to occur every 2 years. (CP3 Fig 2, factor S3, p.121).

BS 4130 - The Structural Use of Aluminium
 BS 5456 Part 1: 1985 Structural Steelwork
 BS 5456 Part 2 & 3: Flame Retardancy

Fabric Technical data - Specification of Fabric Used:
 FR 788 Universal - PVC coated polyester fabric.

1. Base fabric of High Tenacity Branded Polyester. (DN 48 081)
2. PVC coated on both sides
3. High gloss lacquer finish
4. 30% tear strength
5. Easy to clean
6. Dimensionally stable
7. Resistant to cold up to -38 degrees Celsius (DN 53 M4)
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 56 184)

ENGINEERED STRUCTURAL FABRICS

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 of 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 ren stick fraying sand, 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 48 081	PES
Endo/pack	DN 53 053	9/9
Yarn	DN 53 081	110
Weave	DN 61 018	LV1
Grey cloth weight	DN 58 054	210
Type of coating	PVC	
Telco weight	DN 53 053	100
Tensile strength warp/weft	DN 53 054	3400/3400
Tear resistance warp/weft	DN 53 063	310/350
Adhesion	DN 53 063	100

Typical Flame referency ----

British	BS5867 TYPE B
Italian	Class 2
French	Classification M2
German	DN 412 01
US	NFPA 701 small and large scale

Cold crack ----- -18 degrees Celsius (DN 53 061)
Flaming strength ---- no cracking after of 10,000 flexes (DN 53 053)
WRT the test ----- varbus

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, Silican.

Blackout cloths are available to special order.

The above data are averages from production. Fire certification 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. EMOE

Welding and fabrication to be undertaken in accordance with the national steelwork specification.

Rev	Description	Date

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Mobile Structures

Mobile Stadiums

World Leaders in
 Stage Hires Tented Seating
 Big Top Hires

161 164

Filename: Mobile Stadiums MT66 66m x 88m round

Title 1	Title 2: layout and views	Drawn by: RE	Date: 01-08-08	Drawing No.:
		Project: 027	Scale: nts	027

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