

### **1.6. Different Loading Configurations.**

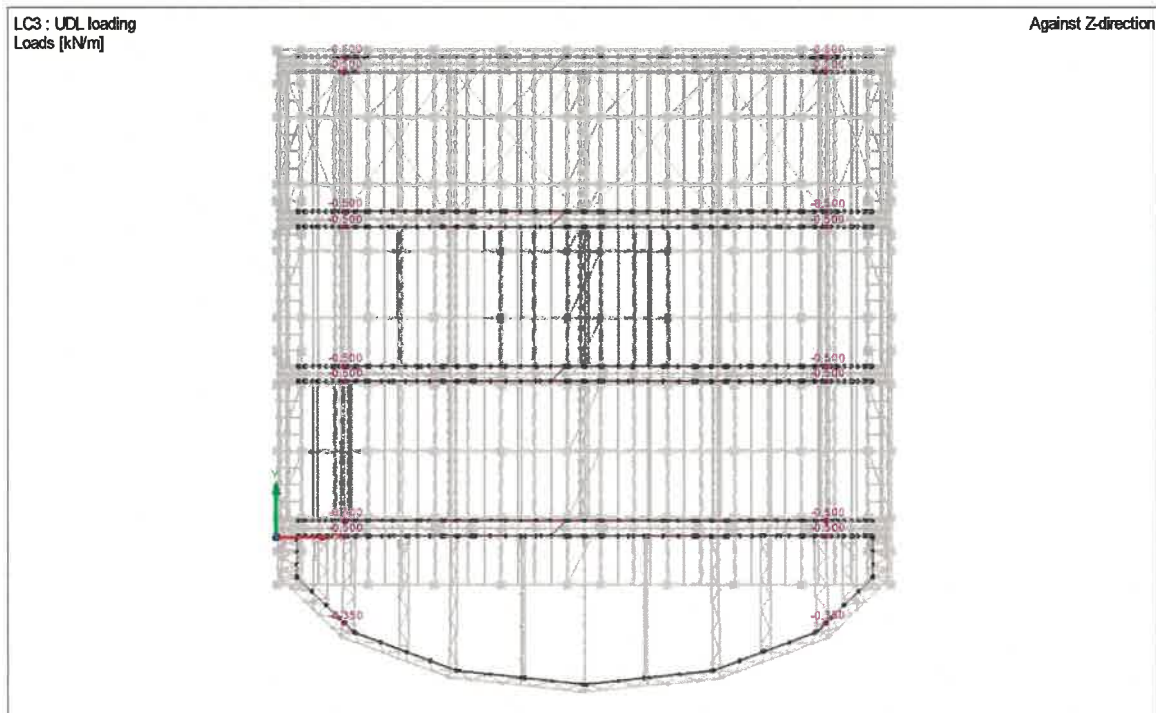
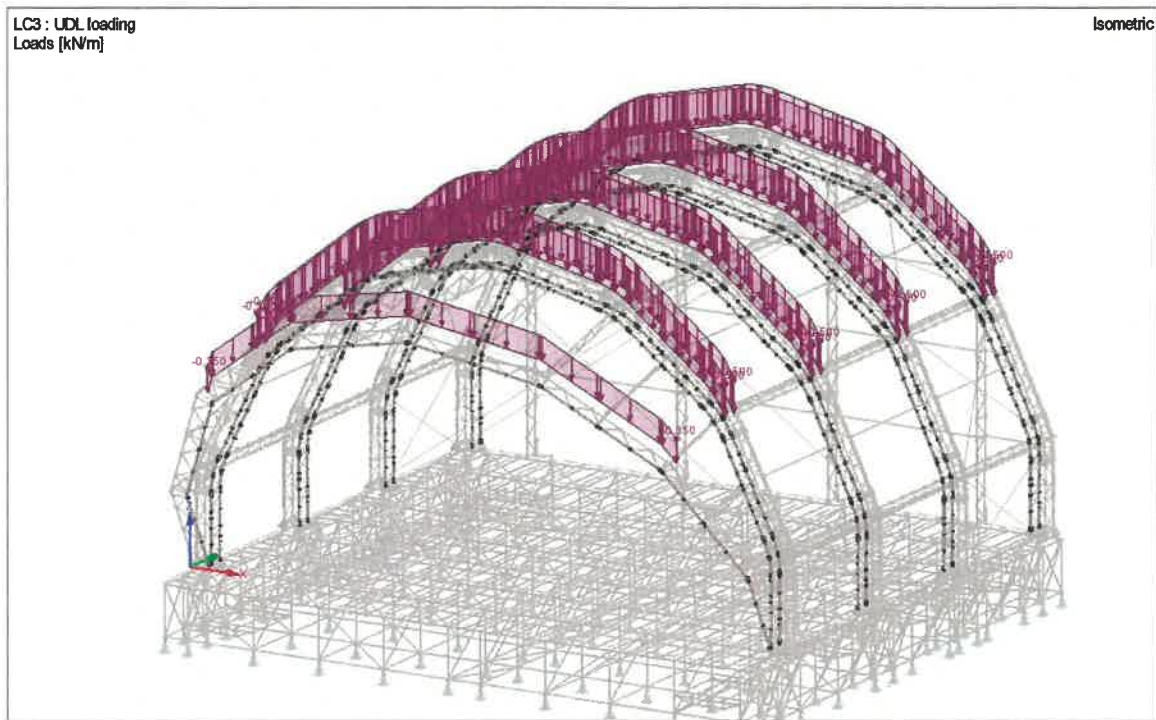
The calculation of the roof system has been done with 4 different rigging loading scenarios.

- Uniform distributed load
- Centre point load
- 2x point loads.
- 5x point loads.

In the Out-service situation big scenery objects with large wind surfaces need to be derigged from the roof, the loading of lighting trusses in the main roof can stay.

In the next paragraph the different loading scenarios of the roof systems are presented.

### 1.6.1. UDL Loading setup.



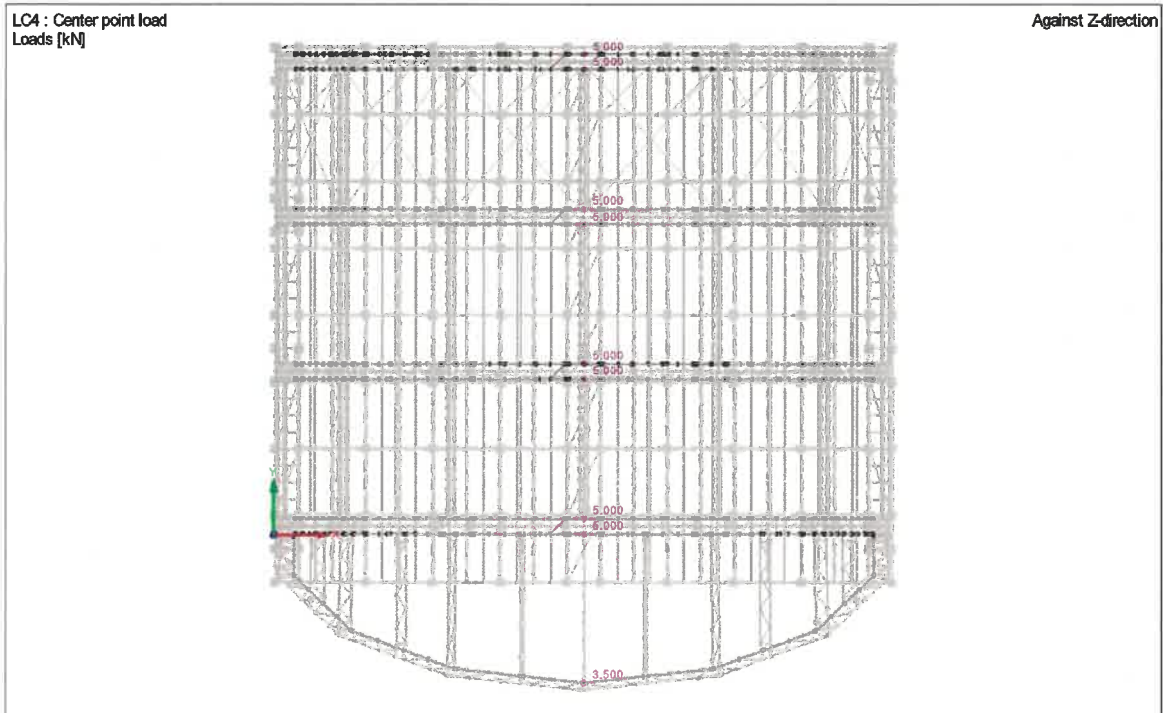
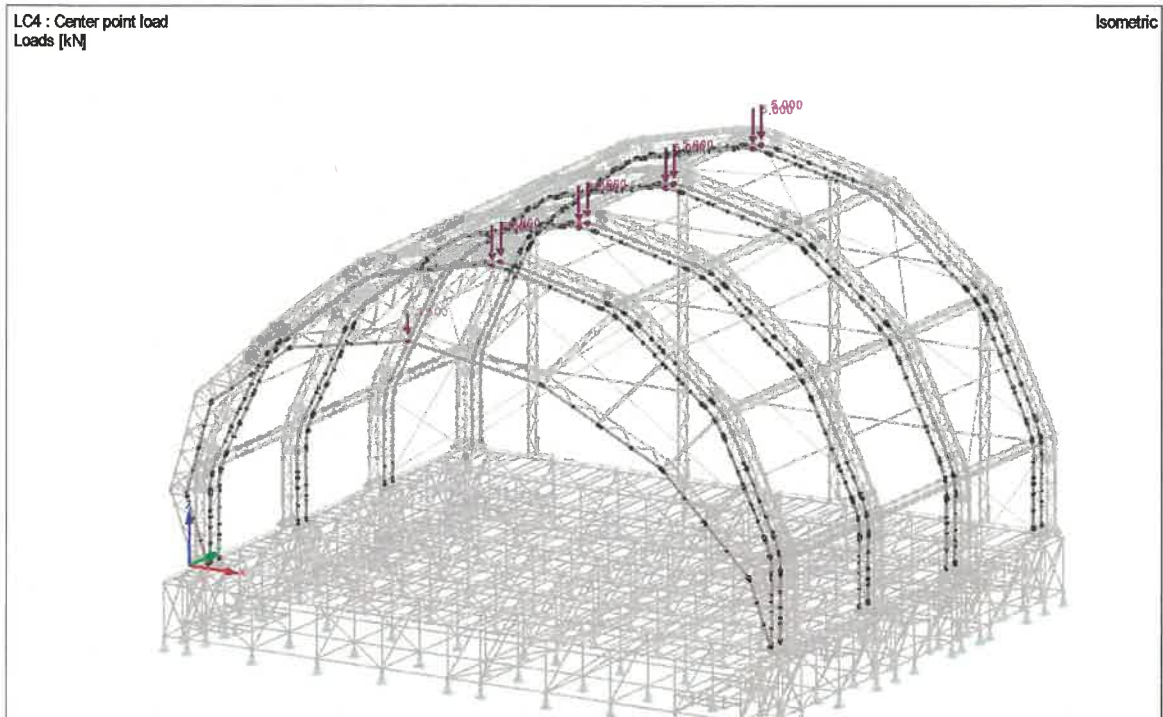
The loading which is taken into account in the UDL Loading setup are:

Arche Truss = 100 kg/m

Cantilever Truss = 35 kg/m

The total load on the main system is ~ 7700 Kg

**1.6.2. Centre point load setup.**



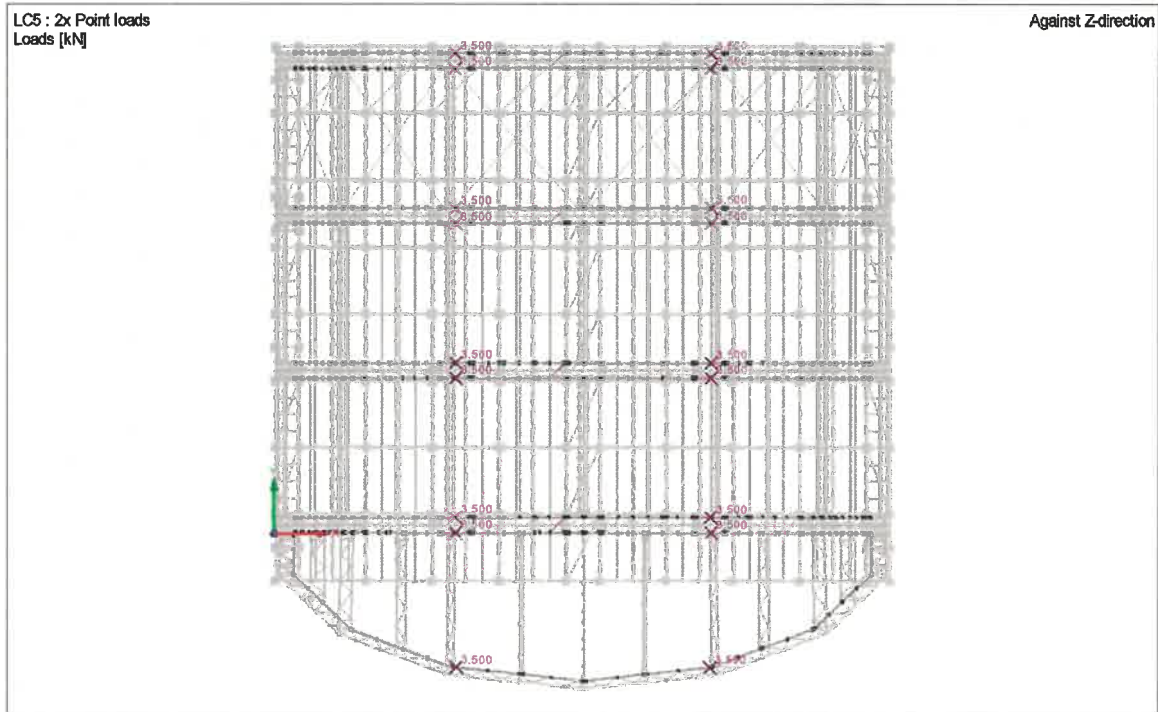
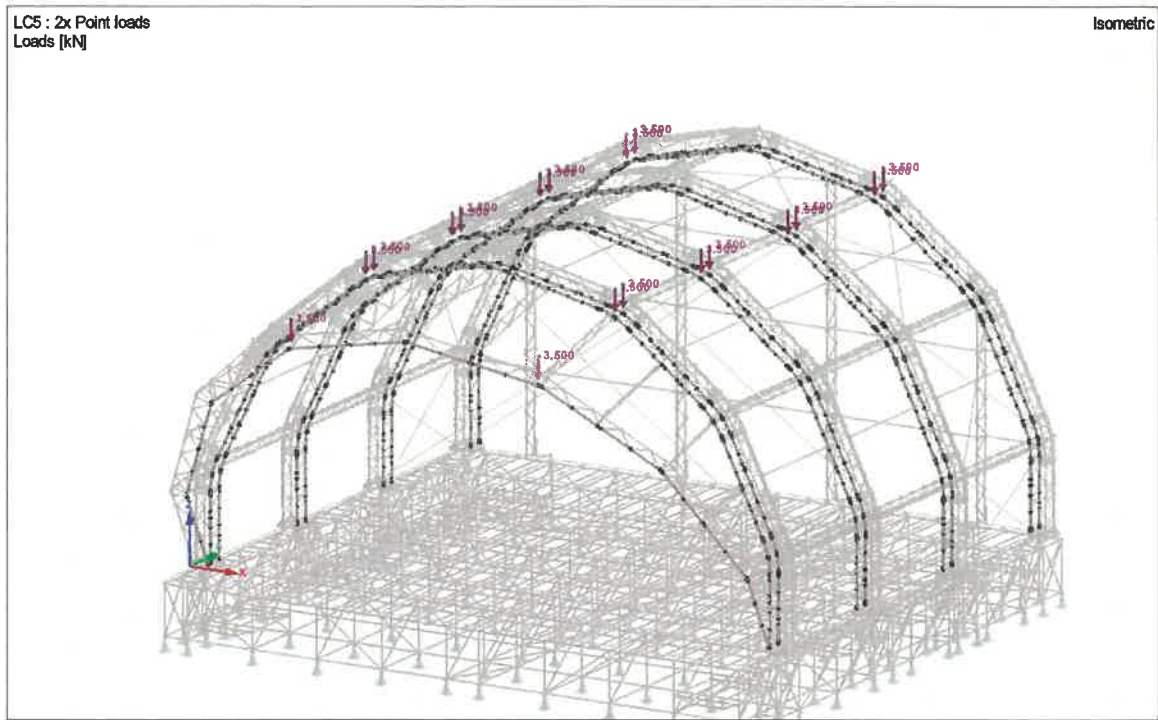
The loading which is taken into account in the Centre point Load setup are:

Arche Truss = 1x 1000 kg

Cantilever Truss = 1x 350 kg

The total load on the main system is ~ 4350 Kg

### 1.6.3. 2x Point loads setup.



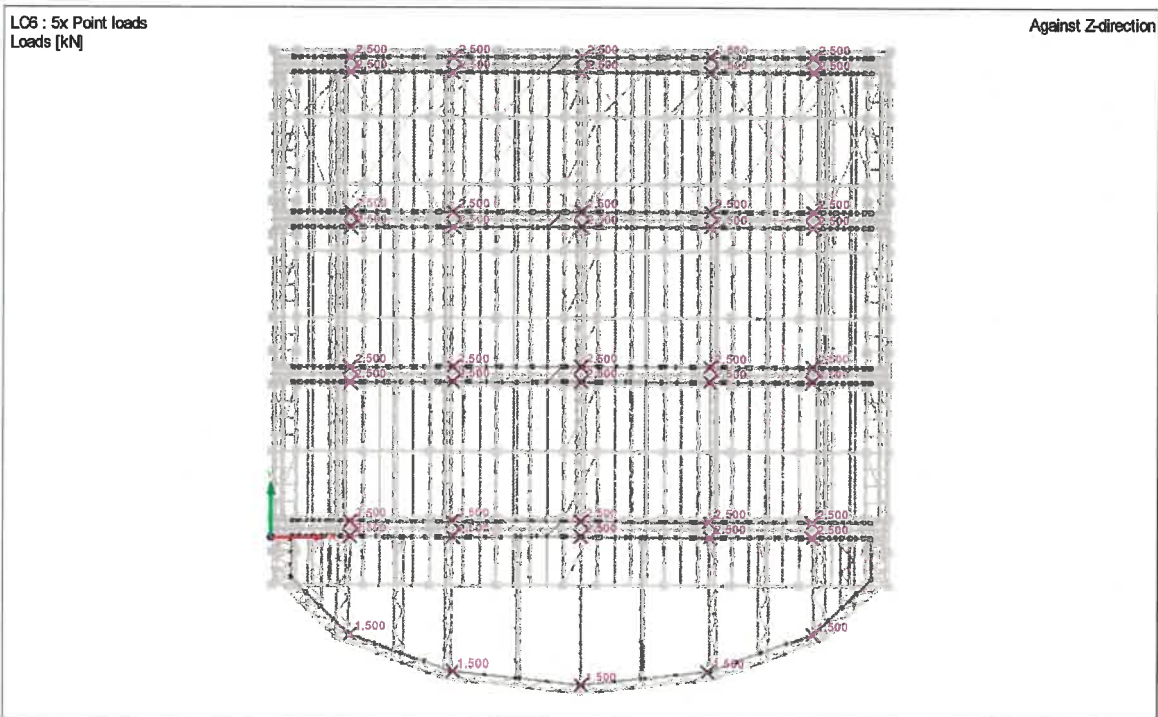
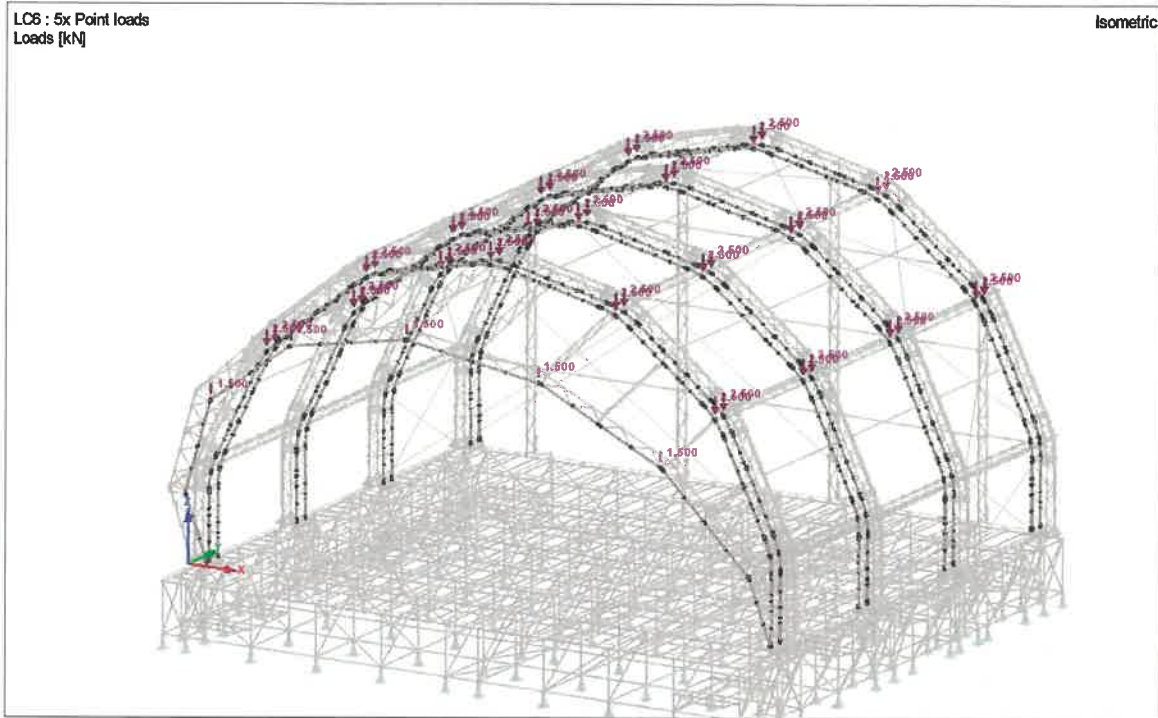
The loading which is taken into account in the 2x Point loads setup are:

Arche Truss = 2x 700 kg

Cantilever Truss = 2x 350 kg

The total load on the main system is ~ 6300 Kg

**1.6.4. 5x Point loads setup.**



The loading which is taken into account in the 5x Point loads setup are:  
 Arche Truss = 5x 500 kg  
 Cantilever Truss = 5x 150 kg

The total load on the main system is ~ 10750 Kg

