



**Rig Name:** Jack-Up built in Dunkirk, France.

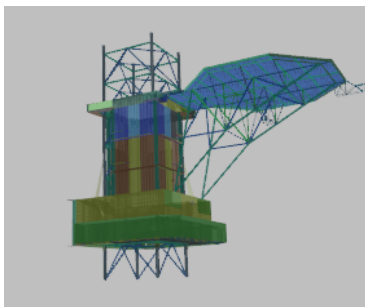
**Rig Type:** Jack-Up CFEM

**Classification Society:** DNV

**Pertinent code:** CAP437

**Code design:** ASD (WSD method)

[Click below to see model 3D!](#)

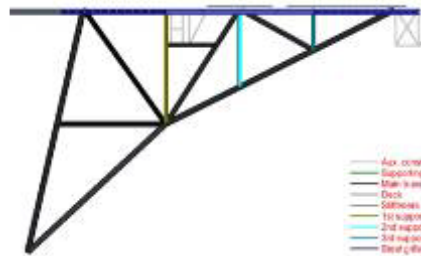


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To view 3D documents

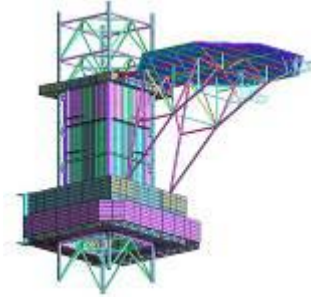


**Project description:** Rig Engineering (R.E.) was tasked by a leading drilling contractor to carry out strength verification of existing helideck located on jack-up drilling unit. The finding was used to guide the wall thickness gauging technician to do a thickness evaluation and assess the overall integrity of the helideck ahead of class inspection.

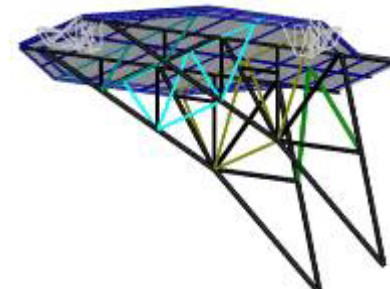
### FE Models



Side View

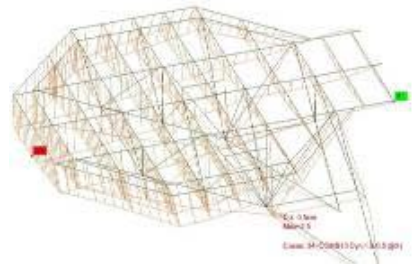


3D View

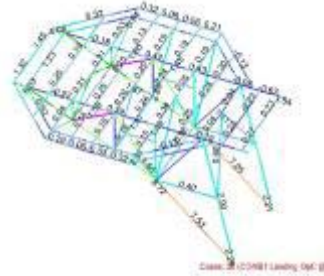


3D View

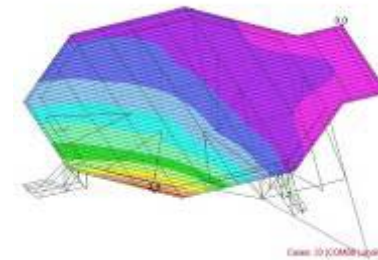
### Results



Deformation Plot



Stress Plot



Deformation Plot

### Photos



**R.E. scope of work**  
R.E. was tasked to perform the following engineering tasks:

Preparation of CAD layout looking at the physical effects of landing and takeoff and various aiming circle requirements etc. (for DNV and CAP 437)

- Conclusion of FEA model and do calibration run for current S61N set-up (for DNV). Re run analysis with new helicopter type using DNV class rule requirements.
- Re run analysis with new helicopter type using CAP 437 requirements.
- Re run on the final / agreed combination that would reflect operational requirements and some dispensation from either CAP 437 or DNV's requirements.

### Engagement Condition

Upload your problem to us and give us relevant input to allow us to resolve your problem we will need:

1. As built of structure to created 3D FE model.
2. Static and environmental loads of rig.
3. Details information about type of helicopters.