

# JOB REPORT



## Gudrun tie in to Sleipner-CAP



<b>Year</b>	<b>: 2013</b>
<b>Project Name</b>	<b>: Gudrun tie in to Sleipner – CAP Module</b>
<b>Operator / Client</b>	<b>: Akers Solutions MMO AS</b>
<b>ATC project no.</b>	<b>: 2859</b>
<b>Size (L x W x H mm )</b>	<b>: 13,8 x 8,9 x 3,9 m</b>
<b>Weight (kg)</b>	<b>: Approx. 15,8 mT</b>
<b>Materials</b>	<b>: Aluminium</b>
<b>Certification</b>	<b>: NOROK standard N-001 Edition 8, 2012 Eurocode 9 EN 1999-1-1:2007 Design of Aluminium structures - General structural rules</b>

### Project Description / Challenges:

The Cap Module is constructed in Aluminium.

The structure is especially designed in parts/ sections that allow for ease of transportation, and assembly offshore. Each section does not exceed 1.5m in width, and have lifting points for installation purposes.

The module structure is built without a floor, and is designed with a sloping roof to avoid water pooling.

# JOB REPORT



The main frame consists of special aluminium profiles with the heaviest panel being approx. 340kg. From the floor level to a height of 1,5 m, the wall panels are insulated and covered with an aluminium plate. From a height of 1,5 m and upwards the panels are insulated with a perforated plate. The roof panels are also insulated and covered with perforated plates.

The module is equipped with lifting points for handling goods of up to 250kg. Starter brackets for pipe supports and Unistrut profiles are installed for fixing of cable trays. A number of pipe penetrations and MCT's are installed.

The module is equipped with a window and two sliding doors. The door frame is stainless steel and door leaf is aluminium.

The complete construction including insulation achieve a thermal U-value of 0.4 W /m<sup>2</sup>.°C.

## **Scope of Work:**

Trans Constructions scope of work included detail design, layout and construction drawings, structural calculations as well as lifting tests of lifting points and a leakage test.

