

JOB REPORT



ACOUSTIC ENCLOSURE - GUDRUN



Year : 2011
Project Name : Gudrun Acoustic Enclosures for condensate pump
Operator / Client : Statoil
ATC project no. : 2650

Size (L x W x H mm) : 5100 x 2700 x 2600
Weight (kg) : 4580Kg
Materials : AISI 316, Stainless Steel.
Certification : Forskrift 522/544

Project Description / Challenges:

2 off custom made acoustic enclosures were supplied to the Gudrun platform in the Norwegian sector of the North Sea.

Both enclosures housed condensate export pumps.

The enclosures were insulated with non combustible mineral wool, which was then lined with 0,7 mm perforated stainless steel AISI 316 plates, giving a total wall thickness of approx 130 mm.

The containers were designed to withstand an explosion drag pressure of 0,3 barg.

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Scope of Work:

Trans Constructions scope of work included design development, layout and construction drawings, structural calculations, sound calculations and production of the containers.

Lighting was provided in the container and a fresh air ventilation system consisting of inlet and outlet louvers and 2 x 100% fans with capacity for 12 air changes per hour were also supplied.



The picture on the left shows the Eexd fans and motors installed on each side of the lighting fixture.

The perforated lining in the container is also clearly visible.

The completed container.

In addition to the inspection hatches shown, a large bolted hatch was also installed in the roof.

