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CASE STUDY

Fabrication

Mezzanine Deck Installation

Dales Marine Services Ltd were contracted to fabricate 2 no. ROV Mezzanine Decks for installation on two separate offshore support vessels. The client looked to increase available deck space along with solving an issue with high bulwarks and over boarding activities.



Procurement

- 43te (per assembly) of Universal Column, European Steel Beam Sections, PFC and Profiled Plates supplied
- IPE 500 sections supplied to meet client's specifications
- The mezzanine deck was floored out using GRP grating panels – approx. 460m² (per deck)

Fabrication

- Dales used their workshop in Grangemouth
- Mezzanine was designed for fabricating in six individual modules
- Total dimensions for completed mezzanine deck was 25.8m long x 18.2m wide
- Fabrication of the first vessel was completed and continued with second build
- All welding connections were full penetration with 50% UT Inspection required
- Full NDT inspection with load test of lift points

Paint

- Scope of work included preparation and painting of the modules prior delivery to vessel
- Highly skilled ship painters and qualified paint inspector painted the twelve modules on-site
- Steel was purchased pre-blasted and shop primed prior to fabrication
- Mechanically cleaned all weld areas, scars and damaged areas and proceeded with priming. Strip coated all welds and proceeded to paint to manufactures and clients specification
- All onsite connections were masked off and left primed to save preparation time onsite

Delivery

- Utilising three arctic trucks with wide load notification and police escort we shipped the first mezzanine deck assembly to our Leith base for mobilisation
- The second mezzanine deck had the same requirements but was sent to our Aberdeen facility to be mobilised during dry docking

