

Structural design of 6, 8 and 9 meter high Barovanes

Three types of 6, 8 and 9 meter high wing-shaped deflectors in GRP to be towed from a vessel, acting as “paravanes” for the geotechnical equipment has been analysed and tested.

Client: Baro Mekaniske Verksted AS

- Interaction between steel and GRP deflector parts
- Material selection and manufacturing details
- Testing of prototypes, strain gauge measurements
- Linear and non-linear FE-analysis
- Laminate lay-up, and basis for design drawings
- Design report

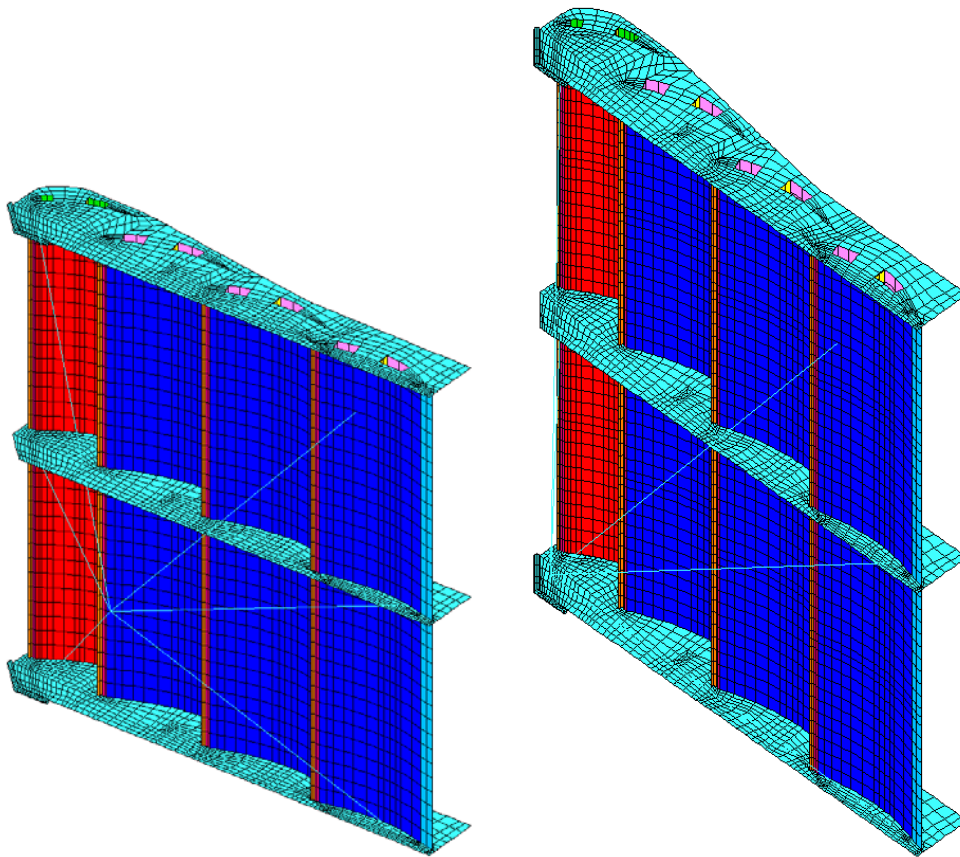


The Barovanes are towed from vessels with seismic equipment (Illustration from Baro Mek Verksted brochures, for more information look at <http://www.baro.no>)



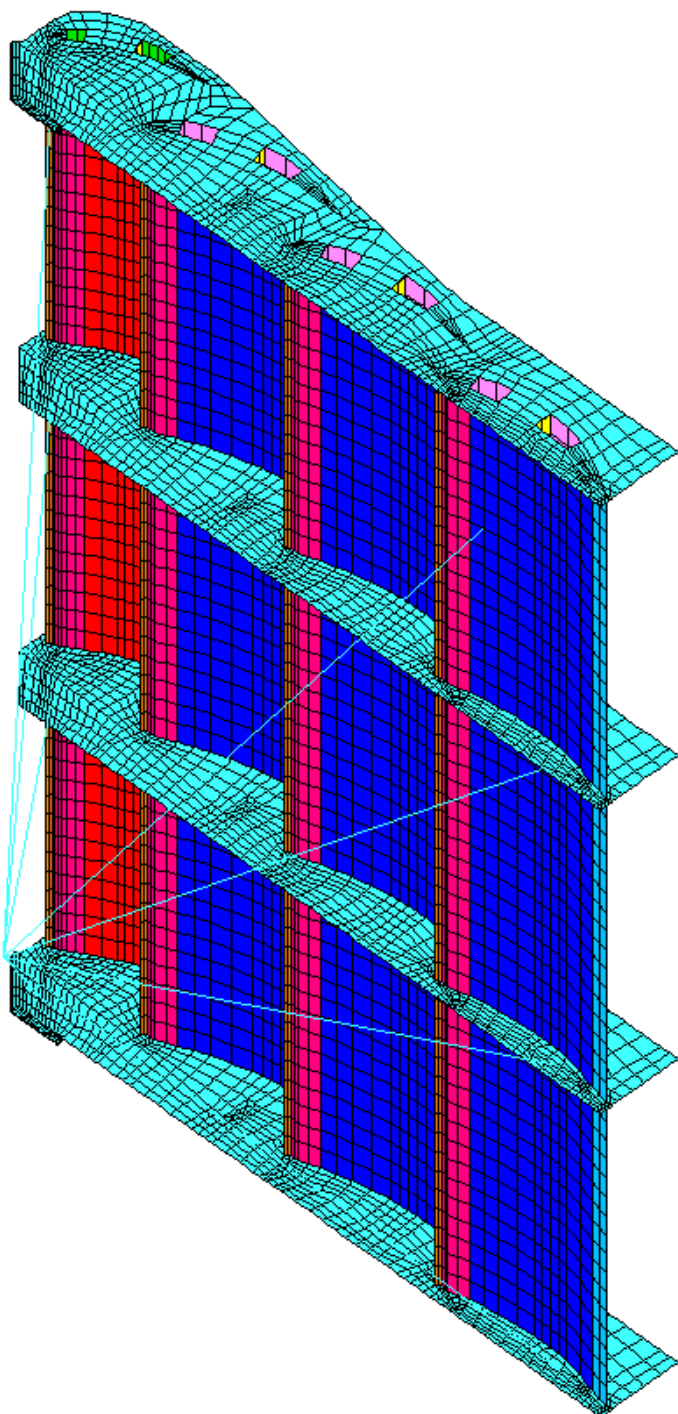
Strain gauges measurement from bending test – early prototype of bonded joint composite foil / steel flange

Marine Commercial



FEM models of 6 and 8 meter high Barovane 46 and Barovane 48 respectively

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FE model of the 9 meter version, Barovane 49