

## New Fast Patrol Boat (FPB (MTB))

Development program

Client: Naval Material Command Norway

Test section for internal missile launch (missile integration)

- Structural design
- Selection of materials
- Fabrication and deliverance of complete test section (Mock-up)
- Development of hull integrated missile platform incl. blast protection and blast exhaust channel in FRP
- Establishing design criteria (Strength and stiffness requirements for missile integration) in GRP hull
- Strength analysis of blast exhaust channel
- Design and documentation of hatches and safety mechanisms for missile integration in GRP hull
- Inspection and QA/QC during construction
- Participation during testing (instrumentation, observation, analysis of results)

Specification of the hull structure; B, C, D and E specification (Mil-Std-490) for the following areas

- Design criteria and relevant loads
- Structural design of composite hull
- Structural design of mast
- Light weight fire protection, spesification of requirements, design and verification (testing)
- Noise control
- Integrated electromagnetic shielding
- Radar signature control
- Development of lightweight radar absorbing materials; structurally integrated and as stand alone materials
- Documentation
- Drawing package
- Follow up of qualification and development activities
- Evaluation of technical documentation from tenderers

# Research



*From testing in arctic climates*



*Capable of +50 knots and the structural design is by FiReCo*

# Research



*FiReCo has calculated and measured structural responses during gun firing*