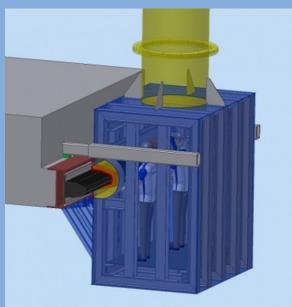
Civil Engineering & Infra

Field of expertise: Hydraulic Engineering
Client: Strukton Immersion Projects







Habitat to repair a GINA profile, South Korea

Project description

During the realization of an immersion tunnel in South Korea, a GINA profile got damaged. To guarantee a waterpoof sealing of the tunnel elements, repair of the raptured rubber was necessary. This repair had to be executed in a dry environment, however the damaged GINA profile was located 12 metres below the water surface. Because of that, MH Poly had designed a waterproof habitat. This habitat is a dry environment, large enough for two persons, that can be slide/shift around the GINA profile, so that the repair could be executed. For the design of the habitat.

MH Poly considered the following items:

- Optimum size of the habitat: large enough for two persons. A largers environment also results in more buoyancy;
- Prevent of new damages: during the installation and removal of the habitat no new damages may occur.

Project activities

- FEM analysis of the raptures in the GINA profile;
- Strength calculations of the habitat;
- Shop drawings of the habitat;
- Flowchart for the execution of the installation and removal of the habitat.