

Infantry Floating Footbridge

Bridging System Overview

There is often a requirement of rapid crossing of rivers and canals. To meet this requirement, a floating foot bridge has been developed by R&DE(E) to negotiate such obstacles. The bridge is made in modules with dimensions of 2250 mm x 1000 mm x 240 mm weighing about 55 kg each, which can be carried by 2 men. Panels are made of aluminium alloys filled with polyurethane foam (PUF). Modules are provided with ball and socket arrangement for quick coupling. Each module can take a load of 2 persons. The bridge panels can be transported using standard trucks / HMTs. The bridge can be deployed up to 100m span and water current upto 1.5 knot (without hyacinth/water plant flow) using steel wire rope (SWR) and anchoring at upstream. Developed floating footbridge will be useful for quickly launching in situations like low water current application where water current is upto 1.5 knot.

Features

- Span up to 100 m, width 1.0 m
- Dimension of each floating panel / module 2250 mm x 1000 mm x 240 mm (approx.)
- Clear pathway minimum 800 mm
- Single module approx. 55 kg in weight, can be carried by 2 men
- Water current up to 1.5 knot
- Max. of 40 personnel (Max. wt. 120 kg each) at a time on bridge with a spacing of 2.5m
- Modular construction facilitates launching in shorter span
- Made of aluminium alloy 6061- T6 tubular frame embedded in polyurethane foam and enclosed in box
- Harness provided for easy portability
- Quick and easy joining of modules by a ball and socket arrangement



Floating Footbridge