



SPIRIT OF DOCKLANDS RIVER TAXI DUBLIN OSK File P475

Design of a vessel with outline specifications, lines, speed and wave prediction, stability and other aspects based on a fact-finding mission to Dublin in order to assess physical constraints for design and operation of a low profile river taxi on the River Liffey. The vessel is designed to be heavily ballasted down to enable it to pass under bridges at high tide at the same time giving full headroom in the passenger saloon. Built by Westers Mekaniska A/B, Sweden, and delivered to owners in July 2005.

Main Dimensions:

Length o.a.	20.96 m
Breadth of hull	4.80 m
Breadth incl. fender	5.12 m
Depth of hull	1.50 m
Draught	0.95 m
Air draught	1.45 m

Capacity:

• Design speed on shallow water, 2 - 6 m	7 - 9 knots
• Engines	2 x 72 kW Volvo
• Passengers	49 persons
• Crew	2 persons

The following work has been carried out by OSK-ShipTech A/S:

- Study of physical conditions/constraints on site
- Study of owner's requirements
- Meetings with the Irish Maritime Authorities
- Full scale mock-up trial of passage under bridges at high tide
- Design development and G.A.
- Lines plan
- Speed prediction on shallow water
- Damage stability/floatability calculations
- Visualisation and evaluation of view from the boat sailing in the river
- Design proposal for landing stations
- Tender procedure and evaluation
- Supervision during construction and trials



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