

Belfast Harbour, Berth VT4

Ro Ro scour protection apron

- using concrete mattress

Designer : Royal Haskoning
Contractor: M^cLaughlin and Harvey
2011



Proserve Ltd.

80 Priory Road,
Kenilworth,
Warwickshire, CV8 1LQ,
England

UK: 01926 512222
Int: 00 44 1926 512222
office@proserveltd.co.uk
www.proserveltd.co.uk

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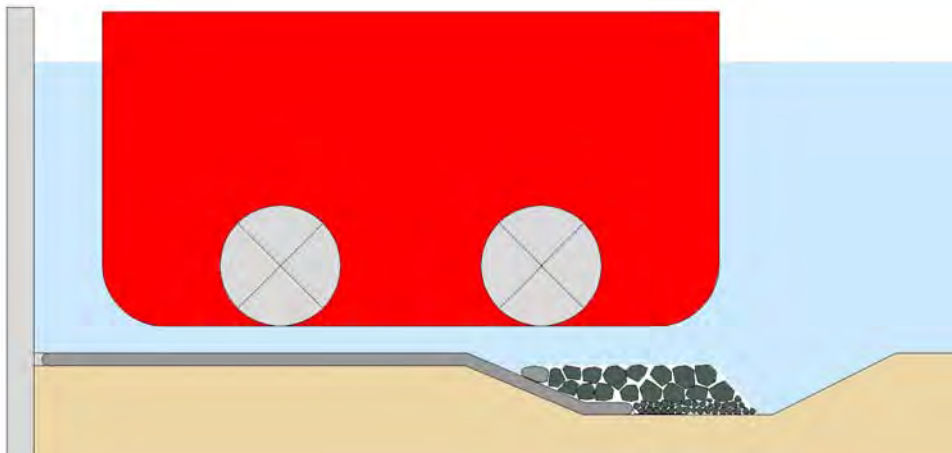


Stena Superfast

The Ro Ro berth is being extended to accommodate new 'Superfast' 203 m long conventional type ferry vessels.

Concrete mattress 480 mm thick was selected as berth scour protection to protect against propeller wash velocities up to 8.7 m/s and overcome limited clearance and wall span depth.

The scour protection design was undertaken by Proserve with provision of a rip rap falling apron stone edge toe detail. This accommodates scour to the design scour levels and allows suitable inspection and maintenance of this key detail.



Typical Section Berth VT4



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Mattress installation used a semi automated filling system which increased output and allowed installation between ferry movements to each 10 hour working day period.

A turning head was also constructed with concrete mattress protection used to the revetment slopes.