

Lerwick, Vertical Pile Jackets

Client: Lerwick Harbour Trust
Consultants: Arch Henderson
Contractor: Balvac
Diving Contractor: Connolly Diving
1997/98



Location Plan

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Fabriform

Vertical Piles

The piles were protected from further, accelerated low water corrosion, by encasement in micro concrete using the **Fabriform** pile jacket system.



Top Support

After through jet cleaning, PVC pipe spacers are first tied around the pile to control concrete thickness .

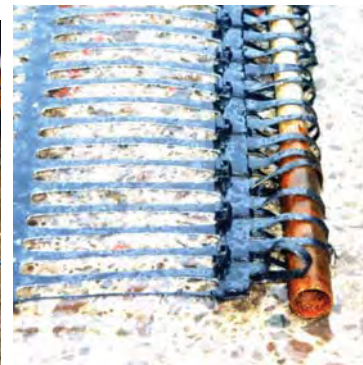
The fabric jacket is then fixed using the supports and zipped up around the pile.



PVC Spacers



Mesh Corset



Corset Detail

The re-useable mesh corset is then fixed which takes the pressure of micro concrete filling, up to heights of 13 m.

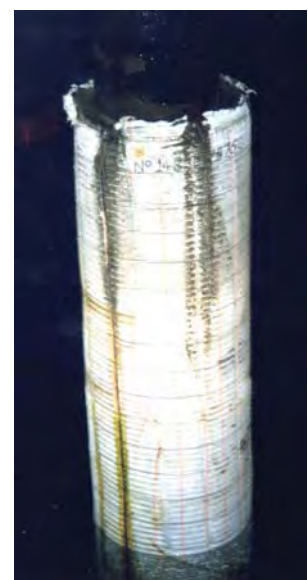


Micro Concrete Mixing and Pumping

The jacket is then pump filled with a micro concrete mix through filler sleeves that project through the gap between the metal corset bars. The micro concrete was a 2:1 sand: cement mix.

The system is regularly inspected and is performing very well.

The system is Diver friendly to install.



Completed Repair