

## Millennium Stadium, Cardiff, U.K.

Contractor—John Laing Construction Ltd.

Owner—Millennium Stadium P.L.C.

1998

The redevelopment of Cardiff Arms Park into the Millennium Stadium caused an encroachment into the River Taff. Sheet piles were installed to form a retaining wall between the river and the construction site. To limit the span height of the newly installed Sheet Piling, erosion protection was required to the river bed.

**proserve**  
MARINE CONSTRUCTION ENGINEERS

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### Fabriform



Stadium Construction



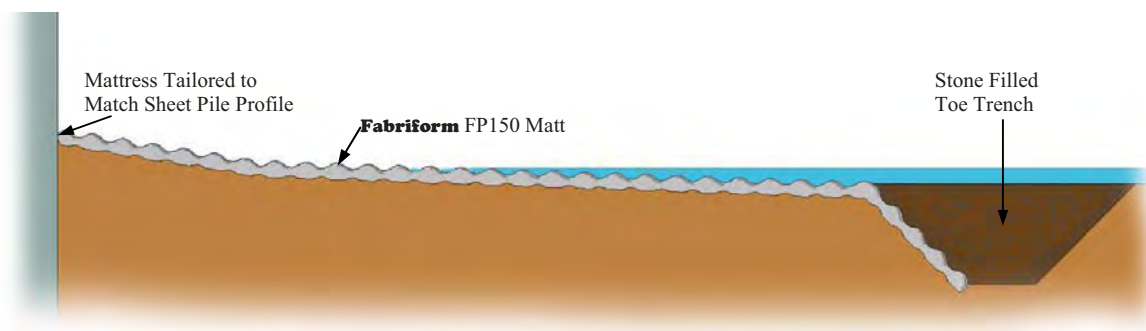
Mattress Filling

**Fabriform** Filter Point Mattress, FP150 was chosen as scour defence. Profiling of the bed and excavation of the edge toe protection trench was carried out by an excavator working in the river bed. Mattress was then laid and filled by a Dive Team in tidal conditions.

Against the Sheet Piling, the mattress was profiled to match the sheet piling pans in order to ensure complete scour protection was achieved. Micro concrete was supplied by Ready Mix and pumped down into the Mattress.



Laid Mattress and Bed Profiling



Typical Cross Section