

Holt Weir, River Severn, U.K.

Contractor—A.W.G.

Owner—British Waterways

2003

As part of an extensive network wide renovation scheme, British Waterways surveyed their traditional stonework weir structures and found that many had suffered from erosion over time.

Holt Weir was repaired in 2003, Limcombe weir further upstream was repaired in 2002 both of these projects, amongst others, made use of the **Fabriform** system

To prevent further erosion of the upstream slope and toe, a 200 mm thick constant thickness mattress CT200 was used.

The upstream slope and toe was excavated and profiled by barge mounted excavator. The mattress was laid and filled by divers working in areas boarded off from the river flow.

Micro concrete was supplied by ready mix and pumped long distances out to the weirs.

After filling, reinforcing bars were pushed into the end of the mattress concrete, to tie into the insitu crest construction,. The bottom part of the mattress was covered with the excavated river gravel to return the upstream slope to the pre-works profile typically 1:4.

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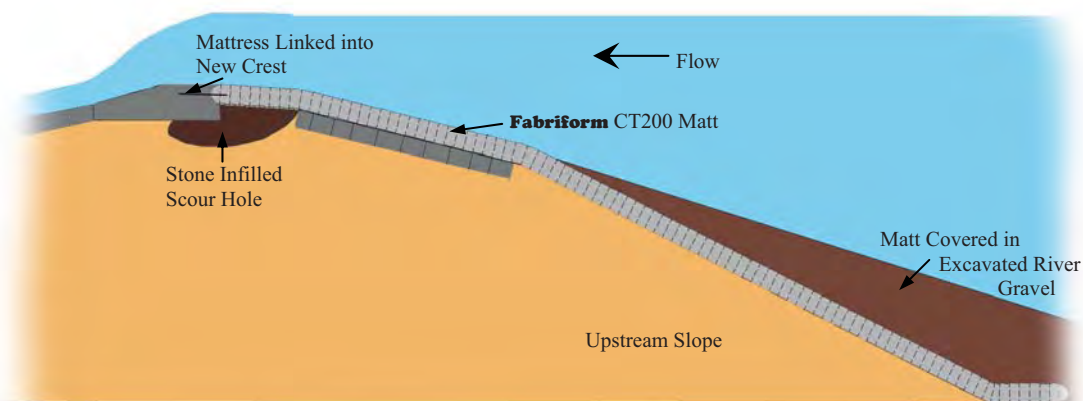
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Fabriform



**Mattress Construction
Progressing Across Weir**



Typical Cross Section