

Stabilisation & Consolidation Monnow Bridge Monmouth

Client: Local Authority

Completed: 2012

Case Study No: 202

- Grade I Listed Repairs
- Cintec Anchoring
- Consolidation
- Stabilisation

The Project:

£91,000 government backed repair program to sole remaining, Grade I Listed, medieval fortified river bridge in the UK.



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Monnow Bridge - The Problem

Monnow Bridge is the sole remaining medieval fortified river bridge in the United Kingdom where the gate tower stands on the bridge itself.

The pedestrianised bridge built in the 13th Century crosses the River Monnow some 500m above its confluence with the River Wye. Monnow Bridge is a scheduled ancient monument and a Grade I Listed building.

Only priority work has taken place on the structure in recent years due to limited funding. Monmouthshire Council managed to secure £91,000 of Welsh Government and European Union funding, allowing the council to begin a 16-week repair and improvement project.



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Monnow Bridge - The Solution

Having extensive previous experience working with Cadw on listed buildings and ancient monuments, we were asked to provide a quotation for structural repairs based on an approved structural engineers design.

Taking a schedule from the engineer's drawings, our Structural Repairs Surveyor provided a quotation for a scheme of remedial repairs based upon the use of Cintec Anchors. Over 40 anchors ranging from 450mm in length up to 5.6 metres were required.

Once appointed, our directly employed structural repair technicians used specialist diamond drilling equipment to form voids into which the Cintec Anchors were installed. The anchor bodies included Cintec Multi Bar Anchors, Cintec Rebar Anchors and Cintec CHS Anchors all of which were grouted using Cintec non-shrink Prestec Grout.

The cores removed during the drilling process were set aside and were subsequently reinstalled in lime mortar for an almost invisible repair.



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