# Twin span bridge, Whiteley Meadows, Hampshire

## Project case study

Hanson
HEIDELBERGCEMENTGroup

**Product**
Hanson Easyflow high quality free-flowing, self-compacting concrete

**Volume**
80 cubic metres

**Client**
Hope & Clay Construction

### Overview

Hanson worked with Hope & Clay to design a concrete solution incorporating Easyflow to create a 60-metre twin span bridge at a new housing development in Hampshire.

### Project description

As part of the section 38 works for the new Bovis Homes development at Whiteley Meadows, Hampshire, Hope & Clay was required to construct a 60-metre twin span bridge.

The design of the bridge incorporated a high density of steel reinforcement, as well as service pipework, through the head beam causing concern about the ability to pour and compact traditional concrete.

Hanson worked with Hope & Clay, consulting engineers Stantec and Hampshire County Council to design and develop a solution. This included agreeing the performance characteristics of the concrete as well as determining a testing regime to ensure the mix would perform as required when poured.

The solution incorporated Hanson Easyflow self-compacting concrete, which, as well as being quick and easy to place, moves easily through intricate or congested reinforcement.

This was the first time Hampshire County Council has used a self-compacting concrete mix so the testing regime required to confirm compliance was rigorous. Hanson provided a team of technicians at its Southampton batching plant to test the loads according to various British Standards to confirm that the requirements for appearance, flowability, viscosity, passing ability and segregation were met. As well as the testing at the plant, Hanson provided technical representation on site to ensure full support.

James Hope, managing director at Hope & Clay, said: "The technical support and planning that went into this specialist pour by Hanson together with the support, provided a first class service."

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