

For the final construction phase, Corestruc was also invited to extend the existing council chambers in line with later amendments made to the original design. Here, the scope of work entailed the installation of 18 additional precast concrete wall panels to lengthen the existing curved wall. Each 5.4 t panel is 9.7 m high, 1 m wide and 200 mm thick, and they are joined with Bartec-type couplers.

The wall panels were placed and the connections then grouted ahead of completion of the second-stage in situ concrete foundations.

"Once the panels were securely supported and attached to the existing structure, the 320 mm thick hollow-core roof slabs, with spans of 11.6 m, were installed in a day. A 100 mm thick reinforced in situ structural topping layer was then placed over the precast roof elements to complete the extension,"

Hobbs adds. 35

This highly efficient manner of building does away with the need for the installation of scaffolding and propping, as well as the assembly of shuttering and formwork

folding and propping, and the assembly

of shuttering and formwork, since

there are no in situ casting

requirements.