



'Watertight by Design'



Castle Park View Development, Bristol

Case Study

On the site of a former ambulance station adjacent to Castle Park, the largest urban green space in Bristol, this development is designed to provide 375 new homes, with a mixture of build-to-rent and affordable. It comprises a new 26-storey tower, which will be the tallest building in Bristol, together with a 10-storey block, plus a third central building connecting the two, and providing a business centre and leisure facilities for the residents, as well as direct access to the park.

The architects designed wide structural expansion joints to accommodate the anticipated levels of movement between the different building structures, as well as in and between the main reinforced concrete floor slabs and the structural frame of the building. They also wanted to reduce any noise transmission through the joints and to ensure that the designated levels of fire protection were maintained, which meant that the joints had to be treated to provide 2-hours fire resistance. To meet all these demands, the answer was a single solution using Emshield DFR-2 (horizontal floor joints) / WFR-2 (for vertical wall joints) systems. These produce a watertight joint, that can accommodate high movement up to 100% (+/- 50%), greatly reduce sound transmission (STC 62; OITC 52), and which are CE Marked to EN-1366-4 for up to 4 hrs fire resistance.

Client:
Bristol City Council

Consultant:
Chapman Taylor Architects
Arup Design

Main Contractor:
Bouygues UK

Specialist Contractor
Optimum Dry Wall Systems

Main Products Used:
Emshield DFR-2 Systems

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NCC Movement Joint Systems