



December 2018



The Executive committee wish all our members and their families a very happy Christmas and a prosperous New year

Winchester new leisure centre



Winchester City Council has handed Willmott Dixon a £38m contract to build a new sports and leisure centre at Bar End. The new sports centre has been designed by Stride Treglown. Subject to planning permission, Willmott Dixon will build a new complex to replace the old River Park Leisure Centre, which was built in the 1970s.

The new facility will include a 50-metre swimming pool, a separate teaching pool with movable floor, an eight-court sports hall, four squash courts, a 200-station gym, two large studios and a spin studio.

There will also be a hydrotherapy suite and eight treatment rooms.

“Appointing early allows us to hit the ground running once planning consent is granted and work can get started,” said Councillor Lisa Griffiths, who chairs Winchester City Council’s health and wellbeing committee. “The council has selected this contractor to ensure we can deliver the project on time and to budget when we have the planning green light.”

Willmott Dixon is working with architect Stride Treglown and, subject to planning consent, aims to start construction in spring 2019 with completion in early 2021.

Robot is doing away with Bricklayers

A three-bedroomed house has been built by an Australian robot, Hadrian X in less than three days. It was the robot’s first full-home structure and was completed in a total elapsed time of less than three days. This achieves a milestone set by the company, Fastbrick Robotics (FBR), in 2015.

The house has an area of 180 m² and includes two bathrooms as well as the three bedrooms. Construction followed factory acceptance testing (FAT) at FBR’s test facility, where the Hadrian X was put through its paces on three key tasks: a two-course structure with a full combination of brick sizes, cuts and laying configurations;





- an 11-course pillar structure to demonstrate the Hadrian X's ability to build from slab to cap height;
- a two-room structure demonstrating the Hadrian X's ability to build a larger structure on a slab from a 3D CAD model with the required accuracy.

Hadrian X then started work on its first full home structure. After completion, the structure was verified as meeting the relevant building standards by a civil and structural engineering consultancy group.

Counter Terrorism Blocks

Tarmac has produced a new building block that is claimed to have unrivalled blast protection qualities. **A pair of BBX blocks** BBX is a construction system that provides dual protection against blast and ballistic threat, uniquely achieving C15 blast resistance and BR7 ballistic resistance.



The BBX block system is similar to concrete blocks, composed of cement and fine aggregates, but with a difference, using bespoke materials instead of stone aggregate as part of the mix. This material provides the block with substantial tensile capacity and

vastly increased shear modulus, allowing the product to flex under force and dissipate the energy of a bullet and blast overpressure and preventing internal spalling.

When compared to reinforced concrete and other equivalent blast or ballistic related materials, the BBX blocks are the same weight as a normal solid dense concrete block, and can be installed using traditional methods, incorporating their thin joint system.

Tarmac Building Products head of new product development Paul Beswick added: "BBX means for the first time we are able to use a single solution to terrorism and other armed threats. The system uses standard construction methods – this means building design is not negatively impacted and constructions costs can be kept down because the installation is both straightforward and time-efficient."

Pictured below is a BBX wall after being fired at with 30mm Rarden cannon shells fired from a Warrior IFV F510. The photograph shows the three rounds fired into each of the three target areas at the wall, with no penetration.



Fees

Please note any member who has not yet paid 2018 fee will be expelled under Rule 3 (d) anyone found still using the letters after their name Rule 7 (b) & (d) action will be taken

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