Ultra-fast track FIFA-standard stadium

A day before the opening, BAM International project manager Maged Fares (left) and stadiums manager Steven Wilbrenninck mow the pitch in the Hazza Bin Zayed Stadium in Abu Dhabi, United Arab Emirates. The operating company built the stadium in just sixteen months. Built to FIFA standards, the stadium covers an area of 45,000 m² with a capacity of 25,000 seats.

Among Hazza Bin Zayed Stadium’s many architectural and technological features are the external façade, which consists of fabric elements that create the impression of the trunk of a palm tree. Lighting of the elements is provided by LED lights in fifteen content modes. The palm bowl shaped roof provides pleasant conditions for both players and fans, even on hot days during the summer months. The design of the roof makes it possible for matches to be played in the shadow in the afternoon.

BAM International has executed the project with contributions from BAM Sports and BAM Contractors.

Beyond Zero Commitment Workshop

53 of BAM Contractors’ management team recently attended a two day seminar addressing Beyond Zero Safety Culture & Vision for BAM. This ‘Beyond Zero’ workshop involved a brainstorming session by senior management and safety managers as regards what safety means to each participant and how each can enhance the existing safety culture. Beyond Zero requires each individual to take responsibility for and to contribute to the making of change. Everyone is committed to ensuring that anyone who is impacted by the works goes home safely every day. The next step in the Beyond Zero journey is for ten trainers to be trained. The trainers will be taught how to facilitate workshops that will be attended by all stakeholders in the BAM Supply Chain.

Africa House: a beautiful restoration!

BAM Construct UK has completed the refurbishment of Africa House on behalf of Daean Investments (Grove Hall) Ltd. BAM’s work on Africa House involved the extension and refurbishment of the existing offices and includes the demolition of the roof and part of the rear external wall, and the addition of a new floor and roof. The Grade II-listed building was constructed in 1921 and has gone through a substantial refurbishment, upgrading it to BREEAM Excellent and increasing its gross floor area to 15,600 m².
Supplying renewable energy

The provision of renewable energy to some residential areas of Amstelveen (near Amsterdam) will be in the hands of BAM Techniek for the next thirty years. ‘It covers 450 homes’, says Sonja Dieterman, operations project manager at BAM Techniek - Energy Systems. ‘For the 243 apartments that are already occupied, a central heat pump supplies the energy. We are also the energy supplier. The remaining homes each have their own heat pumps, and these are connected to the source system in the central service area. For these homes, we supply the equipment via a lease contract and are responsible for maintaining it and sorting out problems.’

BAM Techniek and BAM Infratechniek built the central technical room, with its underground piping system.

The Netherlands

Homes for the homeless

In the Utrecht district of Overvecht, Heijigers has completed construction of the new building of the Parana housing-employment project, run by the Portaal housing corporation. It involves a five-storey building with 66 apartments and 1,800 m² of communal areas. 44 of the homes are intended for former homeless people who are temporarily unable to cope with living independently. They will be supported by the residents of the remaining 22 apartments.

Up the wall

5,500 plants form the largest ‘living’ advertising screen in the Netherlands, erected by Mostert De Winter at Nature’s Pride in Maasdijk, near The Hague. The Modulo green wall system at the new offices of this wholesaler in exotic fruit and vegetables was fitted by the subsidiary of BAM Wegen. It is a vertical garden, made up of plastic modules. The greenergy serves as a background to the stainless steel company logo.

BAM: highest ranked industrial company

For the second year Royal BAM Group is included in the Climate Disclosure Leadership Index (CDLI). The Index is prepared by CDP (formerly known as Carbon Disclosure Project). The announcement of the results of their annual research into climate change disclosure of the largest companies in the Benelux was released on line. BAM is ranked first in the category Industrials (2012: also first). In the overall ranking BAM climbed from third to second position with a score of 96 (out of 100; 2012: 93). As in last year, Philips achieved the highest score.

Solar roof for Amsterdam ArenA

A solar roof is being placed on the Amsterdam ArenA, covering around 7,000 m², for which some 4,200 PV panels will be fitted. It means that the ArenA will be able to supply ten percent of its energy requirements every year. The work is being carried out by energy company Nuon, BAM and Arcadis, with BAM Techniek being responsible for the cabling, linking the existing equipment, and central energy monitoring.

PPP

Handover Beveren Prison

Beveren prison, west of Antwerp (Belgium), has opened its doors. BAM PPP has finalized the construction phase of the DBFM-Contract for the ‘Poort van Beveren’, a prison complex which will house 312 inmates. Interbuild and Galère have realized the project in nineteen months. BAM FM (Facility Management) has to provide hard facilities maintenance for a period of 25 years and soft facilities management for a period of five years. The opening ceremony of the prison took place in the presence of Annemie Turtelboom (Minister of Justice), Servais Verherstraeten (State Secretary), Marc Van de Vijver (Mayor of Beveren) and Nico de Vries (CEO BAM).
Top-level performance at Manchester City

Only the very best will do for the team and the army of talent at Manchester City Football Club. Directly opposite the Etihad Stadium an eight five- hectare training and education complex unlike any other anywhere in the world is being built by BAM Construction.

The new Academy will consist of an education centre for up to four hundred young players aged eight to 21, and a 7,000- seater stadium and extensive training and care facilities for the club’s first team. This includes a completely covered full-size football pitch, with another fourteen and two half size pitches located around the buildings. A long footbridge links the complex to the vicinity of the Etihad Stadium.

Lee Bibby, one of the BAM Construction project managers, is focussed on the stadium at the heart of the complex, the Central Training Facility. Colleague Paul Harris is concentrating on the stadium to the south of the site. The third manager is Mick Donoghue, who is responsible for the pitches, complex site landscaping of the whole campus.

The Central Training Facility incorporates two full size pitches, one with artificial turf and a sixty- metre indoor running track housed under a roof providing a fifteen-metre clear height to its underside.

One team
Like Manchester City Football Club, BAM Construction attaches great importance to improving local employment opportunities. Almost three-quarters of the six hundred employees on the building site – and the number will rise to around eight hundred during the busiest period – come from the immediate area. Bibby: ‘We work closely with our subcontractors to make sure they share our views in delivering their best for the benefit of the project and our client. This focus on a common goal is reflected in the project motto which is also on all of our jackets and vests from the client to each operative – One Team.’

Heathrow tunnels contract
BAM Nuttall has been awarded a contract valued at more than £85 million by Heathrow Airport Ltd to undertake refurbishment work on the main and cargo access tunnels to the airport which are the key routes into the airport for public and freight vehicles. Keeping the tunnels open during the work is vital to avoid disruption to the UK’s hub airport which means work to refurbish and improve the tunnel ventilation systems and upgrading the fire detection, suppression and alarm systems will take place over night and during pre planned lane closures. BAM Nuttall will be working with specialist mechanical and electrical contractor VVB. Work has already started and completion date will be in February 2016.

Leisure centre in Bridlington

In January BAM Construction has started on the Leisure World facility in Bridlington on the east coast. The facility will include a six-lane, 25-metre swimming pool, a smaller learner pool, a freeform pool with water features, two water slides and swimming spectator seating for 150 and a café. It will also have a changing village, a health suite, a fitness studio, spaces for spinning, dance and yoga classes. Sports fans will benefit from a six-court sports hall, two squash courts and a feature climbing wall.

Crossrail project halfway point

Europe’s largest infrastructure project is now halfway through construction; five years after works began. (Pictured from left:) Crossrail Minister Stephen Hammond, Prime Minister David Cameron and Mayor of London Boris Johnson marked the occasion by visiting the £14.8 billion project, going 25 metres below ground to view progress of the tunnelling team of joint venture BFK (BAM/Ferrovial/Kier) at Crossrail’s Tottenham Court Road site. The station will be a key interchange with London Underground when trains run through central London from 2018.

Switzerland

Housing students Campus Zürich

On the Hönggerberg campus of ETH Zürich, BAM Swiss will construct three buildings that will provide accommodation for a total of 497 students. The client is ETH Zürich. The buildings will include both individual studios and spaces for living communities for six to ten students. A notable feature of the design by Architektick Tina Arndt & Daniel Fleischmann is the curved fronts, which will be decorated with ceramic elements. BAM Swiss expects to complete the project, with a value of €46 million, in the summer of 2016.

Worldwide

Playing with blocks

For the construction of a 320-metre long quay wall in Cameroon, BAM International and BAM Infraconsult have resurrected the building-block method. The technique was used around ten years ago for the construction of a block wall in the Ghanaian port of Tema, and is now being applied in the Limbe shipyard in Cameroon, where more than 1,300 of these 55-ton blocks are being prefabricated. They are being stacked in twelve to eighteen metres of water on a foundation of underwater concrete. BAM Ritchies is using a local quarry to supply the aggregate for the concrete. BAM expects to be able to transfer the project, which has a contract value of £29 million, to Cameroon Shipyard and Industrial Engineering in May.
Ireland

CPD Award from Engineers Ireland

BAM Contractors has been awarded the very prestigious CPD (Continuing Professional Development) ‘Accredited Employer’ standard by Engineers Ireland. Accepting the award at the recent CPD Employer of the Year Award Ceremony, Theo Cullinane, managing director of BAM Contractors, said: ‘This would not have been possible without the fantastic effort from all involved and in particular our CPD Forum. Our employees are our most important asset. The Engineers Ireland CPD Accreditation framework gives us an excellent structure to ensure that personal and professional development of employees is continually addressed and is at the top of our strategic agenda.’

Peter Sutherland School of Law

University College Dublin officially opened the first purpose-built university Law School in Ireland. Built by BAM Contractors and named after Peter Sutherland SC and former European Commissioner, the iconic facility, which measures over 5,100 m², is located on the edge of a newly designed and landscaped lakeside setting on the 133 hectare UCD Belfield campus. The state-of-the-art facility, designed by Moloney O’Beirne architects, includes a clinical legal education centre where students can develop their advocacy, dispute resolution, client counselling and negotiation skills in simulated courtroom and office settings. The largest theatre also serves as a ceremonial moot court.

Germany

Back to school

On the new Campus Derendorf in Düsseldorf, BAM Deutschland is constructing three new buildings for the University of Applied Sciences Düsseldorf. With seven thousand students, it is one of the largest in Germany. The buildings are different in size, but share the high quality aluminium panel wall cladding, in combination with solar blinds. Building 2 will house the canteen and kitchens, as well as offices. The other buildings will be used solely for education purposes, and include lecture halls, study areas, offices, and studios for the media technology department. They will be ready in the autumn.

Thanks to the efforts of Ways & Freytag Ingenieurbau the new campus will shortly have excellent links to the road network too. W&F Ingenieurbau is building connections to existing bridges over the railway for the new connecting road alongside the rail tracks.

Luxembourg

Viaduct de Lux(embourg)

A relief route that includes a 444-metre long viaduct is being built around the village of Junglinster, to the north-east of Luxembourg City, by BAM Lux (Galère Luxembourg’s new name), in a Felix Giorgetti and Victor Buyck joint venture. The latter is responsible for the five steel sections. ‘The concrete pillars vary from three to twenty metres in height, and are hollow to allow access to the tops of the pillars’, says project manager Michel Millet. ‘The sections of the viaduct are delivered as lattice trusses and placed on the pillars by two mobile cranes. Until the next section is installed, the construction is supported by an auxiliary steel pillar. We will start pouring the concrete deck in March, and the entire project will be ready in 2015.’

Belgium

Tour Paradis in Liége

In recent months the Tour Paradis, near the Liége Guillemins station, has risen by one storey a week to a height of ninety metres. Including the steel construction for the technical floors and the mast with its in-built lighting, the building will soon soar to 136 metres above the city.

Operating companies Galère and Interbuild are constructing the office tower in a joint venture with Duchêne. The building, including the four-storey low-rise wing, will accommodate the federal government’s Finance department from next autumn. ‘On the rear wall of the tower and on the roof of the low-rise wing, the companies are installing 900 m² of PV panels. It is thanks in part to the solar power that the building will receive a BREEAM Excellent certification’, explains Galère assistant project manager Thibaud Allard.

From left: Business development director Mike Jones, director general of Engineers Ireland John Power, HR and Payroll manager Adrienne Bryan, Theo Cullinane and project director Ger Moloney.

From left: Project manager Harold Schoeck, with site agents Holker Simon, Steffen Oberl and Eckhard Herbach in front of building 3. Building 2 can just be seen on the left.

Pouring the concrete deck of one of the viaducts.