www.buildoffsite.com / Autumn 16

buildoffsite

What does the future hold for the UK housing market? Buildoffsite Chairman, Richard Ogden shares his views on where we are headed for 2017 and the hurdles we need to overcome for future proofing our housing stock.

Yorkon completes new school project in just 18 weeks. The Portakabin Group expanded a primary school in Leeds to provide 200 additional places.

Trimble announces Tekla Global BIM Award Winners. Best infrastructure project for 2016 goes to Ordsall Chord in Manchester by the Northern Hub Alliance – part of Network Rails multi-billion pound North of England Programme to transform rail connectivity.

Offsite Construction Show 2016. See inside the full listings of Masterclasses and Seminars at the industry's leading offsite event.

New Members. Buildoffsite welcomed four new members this month and asked what role offsite plays within their organisations.

Welcome

For further information about Buildoffsite please contact:

Roisin Sweeney

roisin.sweeney@buildoffsite.com

Buildoffsite Head Office
Griffin Court, 15 Long Lane
London EC1A 9PN, UK

T: +44 (0)20 7549 3306

F: +44 (0)20 7549 3349

E: info@buildoffsite.com

To advertise with Buildoffsite please contact:

E: info@buildoffsite.com

T: +44 (0)20 7549 3306

Designed by Costello Palmer:

E: marie.grieve@costellopalmer.com

T: +44 (0)7743 091 165

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Buildoffsite embraces change and promotes innovation and transformations which benefits not only our members but the industry at large. Which is one of the reason why we have transformed our newsletter and created a new-look for Autumn 2016 and beyond.

This is to be my final newsletter as Buildoffsite Chairman as I will be stepping down from the role which I have enjoyed immensely for the past 12 years. My tenure runs to the end of the year when we will welcome Andy Dix as the new Buildoffsite Chairman.

In this Autumn edition I give my final message and offer my thoughts on how I see the role of offsite being utilised to its best advantage in 2017. We also acknowledge the great achievements of our members and thank them for their contribution.

Over the past few months we have welcomed new members; Build Insight, Cambridge University, coBuilder and ENCON and have included a little about what they have to say about how their organisations support offsite construction projects and practices.

Inside you'll also find details of our Offsite Construction Show and its masterclass and seminar programme listings.

I hope you enjoy reading our new newsletter and if you would like to contribute to our Winter edition please contact Roisin Sweeney on 0207 549 3306 or email roisin.sweeney@buildoffsite.com

R. Ogden

Richard Ogden
Buildoffsite Chairman

Contents

Chairman Message

Richard Ogden Chairman

"There is no doubt that the tide of client, industry and Government opinion is now running rapidly in favour of offsite solutions"

What does the future hold for the UK housing market?

In this newsletter I must say my fond farewells, as this is the final edition I shall contribute to as Buildoffsite's Chairman.

Those of you who know me well, will understand that over the years as Chairman, it has given me great pleasure to both speak and write about offsite solutions and introduce new approaches to our industry which can improve the delivery of construction projects both domestically and in international markets. I am grateful that this newsletter has provided me with such a platform so that I can regularly share my views and enthusiasm with thousands of like-minded people who are also looking to build a new future for our industry. My approach has always been to challenge current practices in order to encourage debate and knowledge exchange, and to keep asking: "Why not?"

Even though I am stepping down from the role of Chairman, nothing will diminish my commitment to do everything I can to make the case for offsite and to support the development of Buildoffsite as the unique voice for change within our industry. I leave Buildoffsite in great shape and with the capabilities to support our Members – and other Stakeholders – in positioning offsite solutions as the construction method of choice for the delivery of buildings and civil engineering structures in the UK.

The simple fact is that traditional methods of construction are incapable of delivering what we all want from a modern industry. With traditional forms of construction, levels of industry productivity are often poor with little, or no prospect of improvement. Build quality is uncertain, levels of waste are excessive and the performance in use of completed structures is unlikely to match client requirements. With such a track record, I have little time for arguments that seek to defend traditional construction as being somehow superior. There are very few 'no go' areas for offsite!

Vested interests and lack of knowledge will definitely create obstacles, but will not slow the pace of progress. That said, the offsite supply side needs to play a major part in making the project and business case, helping to promote awareness and find solutions to entirely legitimate questions about capacity, flexibility and value. The case for an offsite enabled approach to construction works in all environments, provided clients and suppliers are unwilling to accept the industry as it is and are prepared to ask those tough and sometimes unwelcome questions that challenge why things have to be done in a certain way.

We all know that traditional approaches to construction are the root cause of so much that is wrong with our industry. Needless separation of the design process from the construction process. A virtue which is getting in the way of sensible early discussions between clients, their representatives and suppliers. Working up designs to the point that decisions on the form of construction have already been taken before the skills and experience of the supply side can be tapped to identify more cost effective build solutions, creating needless complexity in construction processes that serve to set supplier against supplier, sub- contractor against main contractor and so on. These types of working methods sap the time, energy and enthusiasm of those trying to do a good job and who can readily see that there is a better way.

Of course there is a better way – the offsite way – and the route map to follow has been thrashed out over decades by other industries. It is incredible that so much of the construction industry has managed to carry on in the same old same old way for so long.

Tweaking at the margins and well intentioned undertakings to work more collaboratively have not worked and will not work. To move, on the industry needs to work differently with substantially simplified processes, turning into reality the implicit recognition that suppliers need to be involved at the outset of the project planning and minimising the amount of work that needs to be done on site – because to do otherwise makes no sense whatsoever. In short, a root and branch restructuring of construction processes is needed to position the onsite assembly of offsite manufactured components as the norm for all types of construction in the UK.

There is no doubt that the tide of client, industry and Government opinion is now running rapidly in favour of offsite solutions, and I was delighted to see the recent supportive announcements from Network Rail that we need more clients to set out a clear direction of travel which reflects their needs to reduce cost and to improve value.

No matter where you look the signs are there. Interest in offsite enabled design is growing as is the role of offsite enabled construction linked to the implementation of Building Information Modelling (BIM) and to the application of DFMA and Lean. The rapidly increasing enthusiasm of constructors of all types brings ever more innovative offsite solutions to the market and new found enthusiasm from the Professional Institutions.

Communication, networking and informed discussion is key and one of the most important things that Buildoffsite can do is to create opportunities for both advocates of offsite and also those who remain unconvinced or who simply want to know more, to come together to share views and to promote understanding. Opinions matter and honest and open discussion will help identify the ways in which the offsite industry needs to respond in order to meet opinions and perceptions head on.

One of the really great things about Buildoffsite is that so many people are prepared to give their time and expertise to share their hard won knowledge with others. It is this energy and professionalism that drives the inevitable rise of offsite solutions in all market sectors.

And so, as my final Newsletter contribution comes to a close. I would like to take this opportunity to express my thanks to everyone who has supported me in my role as Chairman of Buildoffsite. Your brilliant support has made my job much easier than it would otherwise have been. I'm sure that most of you know Andy Dix our Chairman Elect, will be taking the reins in the new year, and I'd like to ask you all to give your full support to Andy, we are fortunate to have him on board.

I have invited Andy (below) to share some of his initial thoughts on developing Buildoffsite before he takes his position as Chairman in January 2017.

Andy Dix

I would like to take this opportunity to firstly thank Richard for his service to Buildoffsite, as well as the generosity and cooperation he has shown throughout this transition period.

I have been involved with Buildoffsite for a number of years now as a representative of a Member company and can't stress enough the value of Membership. At Buildoffsite, we believe in supporting the development of businesses, being forward thinking and providing exceptional services to the construction market.

Undoubtedly, Richard is going to be a hard act to follow – his energy, passion and experience have been vital in establishing Buildoffsite as the leading UK organisation for the promotion of offsite construction, and his contribution has played an indispensable role in the positioning of the industry we see today.

It is encouraging to see the use of offsite solutions in almost all sectors of the market, with contractors and clients both recognising that offsite offers significant benefits. It is our role to further promote these benefits and to maximise the return on construction design and delivery. The key to success is information sharing, and Buildoffsite has played an incredibly important role in providing regular opportunities for knowledge transfer and the exchange of ideas and technical and commercial collaboration.

I plan to carry on the legacy which Richard has built, despite working through many years of uncertainty, and difficult times for the construction industry. However as we enter yet another a period of change, with the exit from the European Union, I intend to position myself as an advocate for our industry. An industry which embraces change and offers incredible opportunities.

As we move forward, I am convinced that we will not only continue to demonstrate the value of Buildoffsite as an organisation, but more importantly the value of offsite solutions as a conduit for success in our industry's future.

News

Update on BOPAS

The Buildoffsite Property Assurance Scheme (BOPAS) was principally established to facilitate ease of lending to the offsite construction sector. BLP and Lloyd's Register, the operators of the BOPAS Scheme, have reported a significant upsurge in the level of interest in the scheme from the offsite sector and this has been reflected in the number of offsite providers finalising contracts with a view to progressing the scheme.

The current BOPAS statistics are as follows:

- Fully accredited offsite providers – 11
- Offsite providers progressing the scheme – 12
- Offsite providers finalising contracts to progress the scheme – 23
- Manufacturers from outside the UK who are accredited or progressing the scheme – 7

For more information, visit: www.bopas.org

Research to establish the nature and extent of industry demand for offsite construction-related skills and training

Overview of the research:

Pye Tait Consulting is undertaking a piece of research on behalf of the Construction Industry Training Board (CITB), in respect to the current and future demand for offsite construction skills and training. The main aim of this work is to provide a robust evidence base of precise skills, knowledge, training, qualifications and CPD needs for a specified number of key functions in the offsite construction sector, and understanding of how these may evolve over the next five years. The insight will inform how the CITB can best support industry in this area.

A mixed methodology will span fieldwork with a sample of employers, manufacturers, trade federations, training providers and construction sector clients. A selected number of site visits will also allow observation of the key functions in a range of different contexts.

Key functions:

Initial investigation suggests that the research should focus on functions that may span job roles and have more consistent definitions across the industry, rather than on specific job titles which differ in functional scope and relevance. Six overarching core aspects of offsite construction have been identified:

- Design
- Planning
- Offsite construction
- On-site assembly
- Site management
- Project management

Using this approach, we believe it will be possible to map each aspect to a range of job roles that are pertinent to the offsite sector, as well as to 'traditional' job roles that may be affected, for example up-skilling or CPD needs and, as such, establish the range of skills, training, etc needs per function and how well they are provided for. We would welcome your views on this approach.

We are conducting fieldwork via phone interviews, face-to-face interviews and site visits until 4 November, so there is still a fair bit of time to participate. We ask interested employers and manufacturers to take part in a phone interview in the first instance, which takes around 45 minutes. Then, subject to their agreement/work commitments, we then ask those that have been interviewed if we can visit their factory/site to observe the skills needed actually being used.

The CITB has not yet made a decision as to whether the report will be published, but they will however definitely share the key findings with everyone who participates in the research.

"The main aim of this work is to provide a robust evidence base of precise skills, knowledge, training, qualifications and CPD needs"

To participate in the research or for more information, please contact Pye Tait Consulting's Associate Director, Jennifer Brennan, on tel: 01423 509433 or email: j.brennan@pyetait.com

Caledonian appointed to Southern Modular Building Framework

Southern Modular Building Framework
Modular solutions for your temporary & permanent building needs

Hampshire County Council has confirmed that Caledonian has successfully qualified for the delivery of permanent offsite buildings on Lots 3 and 4 of the Southern Modular Framework. Hampshire CC launched the Southern Modular Building Framework following an extensive evaluation process in accordance with the Public Contracts Regulations 2015.

The Framework offers public bodies in the south east, south west and London a vehicle capable of providing access to full turnkey building solutions, from design to occupation, including offsite manufacture, delivery, installation, construction, services connection and commissioning.'

Caledonian will carry out the role and responsibilities of Principal Contractor and Principal Designer, and can also provide professional design services for the two Lots of the Framework, as follows:

- Lot 3: Small/medium buildings of modular construction; permanent. Construction value band £100,000 to £3,000,000
- Lot 4: Large buildings of modular construction; permanent. Construction value in excess of £3,000,000

Schools and education buildings are the primary focus initially, but it is intended that the new Framework will be used as a means of procuring any type of accommodation; from Central Government to Emergency Service organisations and from Health Service providers to Housing Associations, modular construction lends itself to assisting authorities to meet their very specific requirements.

Commenting on the announcement, Paul Lang, CEO of Caledonian, said: "We're delighted to be part of this significant Framework. As the primary procurement route for the majority of public sector organisations in the south of England over the next four years, our successful appointment represents a key part of our medium-term business development strategy."

Clients with an interest in using the Framework should contact the Framework Management Team on 01962 845942

For more information, contact Phil Holmes, Head of Marketing on tel: 01636 821645, or visit www.caledonianmodular.com

Stewart Milne sees demand for factory tours increase

Stewart Milne Timber Systems has announced a series of factory tour dates after the success of a tour last month to their automated facility in Witney. In June, over 35 industry professionals attended the manufacturing centre for an introduction to offsite construction. The next two dates have now been announced as 14 September and 26 October, with further dates to be added for early 2017.

Attendees of the tour saw first-hand how factory-controlled processes and precision engineering contribute to high quality and performance standards. This comes at a time when there are Government ambitions to erect 1 million homes by 2020 and to reduce carbon emissions by 80% in time for 2050.

Hosted in partnership with membership body, the Structural Timber Association, guests listened to seminars, toured the

Witney factory and saw live demonstrations of offsite manufacture in action, as well as being introduced to some of Stewart Milne Timber Systems' latest product innovations.

Mike Perry, Sales Director at Stewart Milne Timber Systems, said: "We are always happy to welcome clients to our facility and opening our doors to the wider industry has given us the opportunity to demonstrate the real benefits of offsite construction. With a new series of tours now available, we can meet the growing interest in both timber frame and offsite construction that we're experiencing. A visit is a great first step to understanding what offsite offers, how it delivers high performance standards and how we work to value engineer projects to reduce cost. Our facility in Witney is unique, with the capacity to produce over 10,000 timber system units per year. Developers, architects, housebuilders and designers seeking to build cost-effectively, sustainably and profitably came to see the advantages offsite construction can offer over other on-site build solutions. By attending, they were able to understand the process step-by-step, ask our specialists questions and share knowledge and experience with like-minded people."

Register for the next tour by emailing tours@stewartmilne.com

More information is available on the Stewart Milne Timber Systems website at www.stewartmilne.com

News

Portakabin's four day response avoids disruption for school

"Being able to have all the children in one location has made a huge difference to the running of the school"

When the Royal High School of Edinburgh had to be closed for urgent remedial building works, Portakabin responded with 16 high quality classrooms to enable 480 children to resume their studies in just four days from the initial enquiry. The local Portakabin team provided the exceptionally fast response – sourcing and transporting the classrooms to the school, and putting in place external power connections to generators, emergency lighting, fire alarms and extinguishers, and access steps and ramps.

The Portakabin building solution allowed the school to re-open and, most importantly, with all children at the school on their original site. This avoided the need for any displacement, which would have been disruptive to the running of the school and the children's education.

Andrew Kerr, Chief Executive of the City of Edinburgh Council said: "I'm delighted that Portakabin was able to meet our requirements at such short notice, particularly given the scale of the project – getting 16 buildings ready for the pupils in just four days is no mean feat! It was great to see such collaboration, commitment and focus on the urgency of the project to ensure the school could re-open so quickly. We have received only positive feedback from the school about the quality of the classrooms and could not have asked for a better service."

Pauline Walker, Head Teacher at the Royal High School said: "We can't believe what was achieved in the timescale. The experience has completely changed our perception of interim modular buildings. The quality of the classrooms far exceeded our expectations and the teaching facilities are completely different to the temporary accommodation we had to endure as children. The site team could not have done more to get our school up and running again. Portakabin was on site within half an hour of the initial call and their performance was exceptional. We also have the impression that their team really enjoys a challenge! Being able to have all the children in one location has made a huge difference to the running of the school. This is a really good solution which has delivered robust, comfortable and secure classrooms. We would definitely recommend the approach to other schools in a similar situation."

Portakabin has also delivered a further project for the City of Edinburgh Council while remediation works and quality checks are completed at Gracemount High School. Eight buildings were installed over a weekend to provide welfare and classroom facilities for 260 children.

Portakabin's topping out ceremony celebrates construction milestone

A ceremony has taken place to celebrate the topping out of the £44 million Riverside Campus – the UK's largest free school and biggest ever off-site education project. The Portakabin Group is constructing the innovative three-school campus for the London Borough of Barking & Dagenham using a Yorkon off-site solution.

Topping out is a tradition in the construction industry to bestow good luck on the new building when a structure reaches an advanced stage. Portakabin has just craned the last of 387 modules into position on the Riverside site. To mark this important milestone in the project, a steel beam was signed by school children, construction workers and dignitaries, and will later be lifted and secured into the roof of the atrium. The occasion was also celebrated with the announcement of the winners of an art competition. Simon Ambler, Director of the Portakabin Group, presented four students with vouchers for art equipment and their stunning artwork will now be prepared for permanent display around the campus when the school opens. He said: "We have reached another important milestone in this fantastic project and are absolutely delighted with the progress since the ground breaking just a few months ago, which is a credit to everyone involved. We're on target, and looking forward to the completion of the primary and special educational needs schools in September, followed by the secondary school next year. This campus will provide an outstanding environment for children to flourish and enjoy their learning activities for many generations to come."

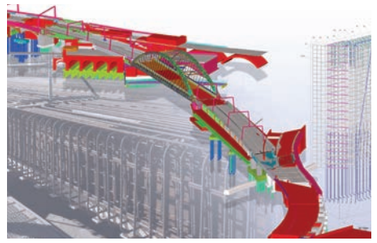
Councillor Evelyn Carpenter, Cabinet Member for Educational Attainment and School Improvement at the London Borough of Barking & Dagenham Council said: "New school places in areas where our youth population is growing is good news for the local community and the borough as a whole. I've been very impressed with the speed with which the project has progressed using an off-site solution and in barely six months, we've gone from ground breaking at the campus to seeing the last modules craned into place."

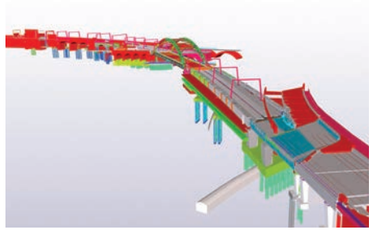
Designed by Surface to Air, the 23,000sqm Riverside Campus will accommodate 2,645 children aged from 0-19 years, integrating provision for nursery, primary, special needs, secondary and sixth form pupils. It will be operated by the multi-academy trust, Partnership Learning. The Portakabin Group is the main contractor for this pioneering educational project. The contract was procured and awarded by the London Borough of Barking & Dagenham via the Council's local education partnership, Thames Partnership for Learning. It is funded by the Department for Education. The scheme is the seventh contract awarded to Portakabin by the London Borough of Barking & Dagenham, and follows on from two earlier phases on the City Farm site near to the Riverside Campus, that are now in use. The £44 million Riverside scheme is one of the largest education developments now under construction n the UK and will create much needed additional places for one of the fastest growing school-age populations in the country.

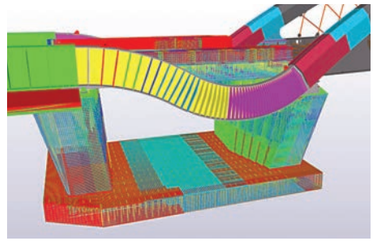
The use of a Yorkon off-site solution for the curriculum areas has significantly reduced the programme time for earlier completion of the campus, to the benefit of the local community. This innovative approach to construction allowed the structure to be manufactured in York at the same time as the major ground works were progressed on site.

News

Trimble announces Tekla global BIM award winners







At this year's Trimble Global BIM Awards, the Ordsall Chord project in Manchester won the Best Infrastructure Project and the Campus Thales Bordeaux in France won the best BIM project of the year. The Tekla Global BIM Awards recognises projects that are pushing the boundaries of BIM to create the world's most impressive structural designs. In total, 73 winners of local Tekla BIM Awards from around the world competed for the global prize, demonstrating the advancement of BIM and construction. A jury of industry experts chose seven category winners.

The 2016 Tekla Global BIM Awards categories and winners are:

Best Infrastructure Project:

Ordsall Chord, in Manchester, UK, by the Northern Hub Alliance. The entry, for the Northern Hub: Ordsall Chord, is part of Network Rail's multi-billion pound North of England Programme to transform rail connectivity in the north of England. The Orsdall Chord will for the first time directly link all five of Manchester's city centre railway stations, improving travel across the city.

To achieve this, a short length of the Chord will be supported on a new viaduct, and the existing Victorian brick arch railway viaducts that it connects will be extensively altered over a large part of their length. In total, 3.2km of existing railway track, almost entirely supported on viaduct, is to be upgraded. New structures will be built to accommodate 350m of new track, and a further 345m of existing viaduct will be widened.

To deliver the Ordsall Chord, the Northern Hub Alliance was formed, with Network Rail as the client/owner, and Siemens, Amey Sersa JV, and Skanska BAM JV as key participants. The civil engineering contractor, Skanska BAM JV, appointed their design team, a joint venture between AECOM and Mott MacDonald, at tender stage, and the steelwork subcontractor, Severfield, was also engaged at the early stages.

The team used point cloud data of the existing infrastructure as a basis for modelling. Later they created constructible structural models [both with steel and concrete] with higher LOD (level of development or design) in Tekla Structures. Involving key partners early allowed for a better process and design.

The Tekla model was presented in place of 2D drawings to assure the Technical Approval Authority that all design duties had been executed correctly and the models were available to contractors during construction planning and execution.

Adoption of Tekla for the higher-LOD modelling allowed the steelwork contractor to understand and influence the design at an early stage. It also reduced the likelihood of on-site issues fabricating, assembling and installing structural elements, which were of unusual geometric complexity. By facilitating closer working relationships between the design and construction teams, the BIM work allowed for key elements of the design to be delivered more quickly and efficiently. These relationships led to one structure, the River Irwell Footbridge, being designed and built without any of the normal 2d construction drawings.

Best BIM Project of 2016 and Best Commercial Project

Campus Thales Bordeaux, France, by GA group. Construction took only 18 months thanks to error-free information available at the right time. The office complex has room for 2500 Thales employees. The general contractor GA, who managed design, fabrication and construction, had a very streamlined process. They used the model from conceptual design to construction, and the model included an incredible amount of information.

Best Public Project:

JUST, a new social and healthcare centre in Järvenpää, Finland, by the JUST Alliance of nine project parties. In this multi-material project, all design disciplines used BIM for a wide range of activities including procurement inquiries; production, site, schedule and task planning; sectioning; cost estimating and quality assurance. The team classified and analysed the model content to suit different uses, and aimed to develop new processes for utilising BIM during the building lifecycle.

Best Industrial Project:

The Warehouse's SIDC Extension, outside Christchurch, New Zealand, by Holmes Consulting Group. The distribution centre extension added 15,000m2 to an existing building that had shifted during an earthquake in 2011. To match the structures and to ensure structural safety, the team used a point cloud and matched the model structures virtually. The construction workflow was smooth and the owner, The Warehouse, now has a wealth of useful information for maintenance and potential future extensions.

Best Sports & Recreation Project:

Sportcampus Zuiderpark in The Hague, the Netherlands, by Oostingh Staalbouw Katwijk. A team of 15 designers worked on this arena in three different locations, using Tekla Model Sharing. They used the model for estimation, purchasing, production planning and erection. For steel fabrication automation data flowed from the model to machinery. The team coordinated the precast hollow core floor and fireproofing information with the model. IFC was the main file format used for collaboration.

Best Small Project:

Euler canopy in Paris by Viry (Fayat Group). The canopy's T-shaped steel profile structure lacks vertical columns, which made the erection phase of the geometrically challenging structure difficult. Thanks to BIM the project was built with accuracy Euler building's location near the busy Champs Elysées posed an additional challenge to site management and logistics, as very punctual deliveries were required.

Best Student Project:

Model of Lodz City Gate, Poland, by students of Lodz University of Technology. The students of civil engineering, architecture and environmental engineering created an alternative version of the current gate: a three-part, glass-covered office building with public space. Their structural solution is also architectural. Communication and collaboration were central: The team shared ideas for easy problem solving and finding new solutions, and used Tekla BIMsight to discuss the project.

Special Recognition:

The fourth longest suspension bridge in the world has a central span of 1550 metres and total length of 2682 metres. The structure had extremely tight fabrication tolerances. The team used the Tekla Structures model for transportation and erection, as well as integrating the model for the steel fabrication, which provided a source of robotic welding and CNC data.

Public Vote Winner:

Eversendai's Midfield Terminal Complex. This project included piers, gatehouses and passenger bridges of the new Abu Dhabi airport terminal.

The Tekla Global BIM Award jury members consisted of:

Nadine Post, Editor-at-Large of ENR,

Adam Glema, Professor at Poznan University of Technology,

Ragnar Wessman, Director of Product Architecture at Trimble

Sampo Pilli-Sihvola, Director/Concrete at Trimble.

For more information on Tekla, visit: www.tekla.com

"By facilitating closer working relationships between the design and construction teams, the BIM work allowed for key elements of the design to be delivered more quickly and efficiently'

Hub Updates

The Hubs have been active again this quarter and there are several events planned into the next. Please refer to our events page of the Buildoffsite website to see the latest offerings. Please note that all events are limited to Buildoffsite members only, unless stated otherwise.

Water Hub

The Water Hub was happy to welcome Yorkshire Water as Buildoffsite members this month and we look forward to working with them. We had a successful Hub meeting hosted at Arup's Solihull office, followed by a very successful visit to the United Utilities Davyhulme Wastewater Treatment Works site on 22nd September. The day showcased the large scale site of which 70% of the project has been built offsite, how it was conceived and how it is being constructed. Laing O'Rourke and United Utilities hosted the day and shared insight and information about the offsite methods used on the site and how improvements and strategies changed and developed during construction, leading to greater efficiency and shared knowledge. Presentations included the DfMA context, standardisation, its benefits for both client and supplier, and the advantages of using BIM.

The advantages of using offsite to build Davyhulme have included an impressive safety record to date with no accidents during 750,000 hours worked on site, and have allowed for large scale construction on a space-restricted site. The build is also on target and has produced significant savings with regard to tender and administrative hours as well as hours spent on site. Because DfMA has allowed for a cheaper, faster, safer and better quality of build, United Utilities are now requiring DfMA as standard for all build projects. Feedback on the day was positive, with attendees commenting on the scale of the site, the speed of the construction and taking away insights into how offsite could help with their own projects.

There will be a Buildoffsite seminar on 'Developing Innovative Offsite Construction Solutions for the Water Industry' at the Offsite Construction Show 2016, Excel Centre, London, 12th October 2016, from 2.45pm – 4pm.

The next Hub site visit will be at Nomenca on 22nd November 2016 which will be showcasing Offsite Build and VR Engineering. During the day Nomenca will explain how they design and manufacture products for the water sector and will demonstrate how they integrate 3D models into the manufacture process with the use of virtual reality modelling as well as a tour of their outstanding facilities.

Housing Hub

The crisis in the supply of affordable homes is well understood and widely reported on. Politicians of all parties support a major sustained increase in the supply of new homes. To make a significant impact on the housing shortage the rate of build will need to double compared to current levels.

For some years it has been clear that the only way that the UK can build the number of homes needed will be to transform the construction process and to adopt offsite manufacturing at a scale not seen in the UK for decades to deliver quality homes at predictable cost and with certainty of performance and cost in use.

Over the last few months a great deal of work has been carried out behind the scenes by the Housing Hub to support Government and public bodies to better understand what it takes to get the best out of offsite solutions. Increasingly new providers including Housing Associations and Local Authorities are looking to become developers with some setting up manufacturing facilities. Over the next few months the Offsite Housing Hub will respond to investment announcements as they appear.

Housebuilders are increasingly applying offsite construction methods to deliver key elements of their build programmes where this can be justified on cost or other relevant considerations. The supply side need to be supported to engage more effectively with this effort.

There is clearly a lot of work to be done to support the offsite supply side to make the case for the use of offsite solutions in ways that connect with the business and operational requirements of clients and developers. The requirements of those involved in the provision of social housing or housing for private rent are unlikely to be the same as those that apply to housebuilders building for private sale.

The Buildoffsite Offsite Housing Hub is actively supporting the work to promote the increased take up of smart construction (including offsite methods) that is being undertaken by the Construction Leadership Council's Innovation in Building Workstream.

The Housing Hub are hosting the 'Innovation in Offsite Housing – Plan A is to go offsite, there is no Plan B' seminar at the Offsite Construction Show on 12th October 2016 in the Buildoffsite Theatre at the Excel Centre, London, from 10.30am – 11.45am.

Rail Hub

The Rail Hub has hit the ground running and already has an event date plugged in and been liaising with industry. They will be holding a Bridges and Viaducts DfMA Workshop at Enterprise Ireland's London offices on 30th September. A report will be available in our next newsletter. The objective is to explore how rail bridge and viaduct designs may be developed using examples as a basis for further DfMA analysis, including the potential for facilitating the integration of rail systems. Attendees include representatives of HS2, London Underground, Highways England and Network Rail. The workshop will be an exciting opportunity to explore and develop ideas with major stakeholders and suppliers.

The next event will be a project visit to the TfL/LUL Northern Line Extension Project, and will take place on the 23rd November 2016. The event will review how this project has been approached and consider how the next Central Line station project at Holborn may be developed. Places will be limited to 20, so please book early. You can reserve your place by emailing Julie Fraser at Julie.Fraser@buildoffsite.com.

Refurbishment Hub

The Refurbishment Hub has been engaging with sector stakeholders and will be hosting a B&Q project brief soon; details to be confirmed.

The Refurbishment Hub will be hosting the 'Offsite Enabled Refurbishment' seminar in the Buildoffsite Theatre at the Offsite Construction Show on 13th October 2016 at the Excel Centre, London from 12.00 – 13.15pm

Education Hub

The Education Hub hosted their first event in July with McAvoy showcasing the Goresbrook School project to a number of Buildoffsite members. The day was a great success and plans are underway for additional site visits.

The Education Hub will be hosting the 'Innovative Offsite Solutions for Quality Educational Buildings' seminar at the Offsite Construction Show on 13 October 2016 in the Buildoffsite Theatre at the Offsite Construction Show at the Excel Centre, London, from 10.30am – 11.45am.

Case Study

Yorkon project for Smurfit Kappa completed after 10 weeks on site

A new office complex has been delivered by the Portakabin Group after just 10 weeks on site following an investment of around £100 million in new paper manufacturing facilities at Smurfit Kappa's Townsend Hook paper mill in Kent. The scheme was constructed off site using a Yorkon building solution to bring the new facilities into use as fast as possible and allow the relocation of managers and engineers from a number of old brick buildings into a purpose-designed, modern and centralised office complex. Such a complex would normally take around six months to complete using site-based methods of construction.

"The single-storey building was manufactured and partially fitted out at the Portakabin Group's manufacturing centre in York and craned into position in just a few days over two phases'

Smurfit Kappa is one of the leading providers of paper-based packaging solutions in the world. It has around 45,000 employees on approximately 370 production sites located in 21 European countries and is the only large-scale pan-regional player in Latin America. It had revenue of €8.1 billion in 2015. Smurfit Kappa owns two paper mills in the UK – in Birmingham and Snodland. Its Townsend Hook site will produce close to 250,000 tonnes of quality recycled containerboard material per year.

Townsend Hook is an extremely busy manufacturing facility, so by using an off-site solution, Smurfit Kappa could radically reduce any disruption caused by the office construction. The single-storey building was manufactured and partially fitted out at the Portakabin Group's manufacturing centre in York and craned into position in just a few days over two phases. The site for the building is located on a water table and close to the River Medway. The Portakabin Group engineered the building design to elevate it above the flood line which meant installing the steel modules on to metre-high piers to mitigate the flood risk.

Malcolm Wright, UK Purchasing Manager for the Paper Division at Smurfit Kappa said: "Our CEO visited the Portakabin Group's manufacturing centre in York as part of the procurement process for this project and was impressed with the Yorkon building solutions. Off-site construction has proved to be very cost efficient and significantly reduced the lead time for occupation compared to site-based building methods. It was critical for us to have this facility up and running as fast as possible to support the new manufacturing plant, and as a number of older buildings had already been demolished as part of our major site redevelopment. The office complex has helped us to improve efficiency by accommodating managers and engineers under one roof rather than in several locations around the site. It provides a fantastic and comfortable working environment for our team, particularly in comparison with our previous brick buildings. The scheme was designed to suit our exact business needs and you would certainly never know this building had been manufactured in a factory. We worked very well with the Portakabin Group team and would definitely recommend the Yorkon approach to other manufacturers needing to expand or upgrade their site facilities."

The L-shaped building comprised 14 modules to create a total area of 618m² and the largest module was 15m long x 3.75m wide. The building provides both cellular and open plan offices, a canteen and staff welfare facilities such as showers and lockers.

Case Study

Portakabin constructs ‘pop up’ learning hub for UCL in just two days

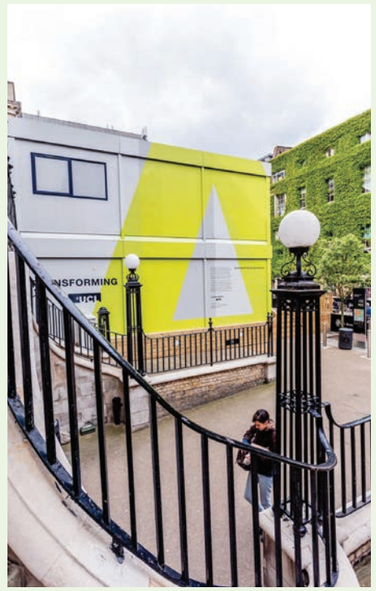
With the end of the recruitment cap on undergraduate numbers in England now taking effect, the requirement for upgrading and expanding learning facilities continues to rise to meet the increased demand for higher education. An extra 30,000 student places have been made available in England this year and the Russell Group has estimated that more than £9 billion is being spent on capital projects by its 24 world-class universities, with a large proportion going towards new high quality learning facilities.

One of the Russell Group of universities is University College London (UCL) where Portakabin constructed an innovative ‘pop up’ learning hub in central London in just nine weeks from receipt of order to handover. This was to help address the surge in student numbers and was achieved with no disruption to teaching. The two-storey modular building was operational from September 2015, and will be in use for two years until significant elements of UCL’s major capital programme to provide new permanent and refurbished teaching space is completed.

The new learning hub was installed in just two days ready for the start of the academic year. It would have taken many weeks had the building been constructed using site-based building methods. Commenting on the project, Sam Williams, Capital Projects Manager at UCL, said: “We’re really impressed with the performance of the Portakabin team. We needed facilities of the highest standard delivered in the shortest possible timescale. This was achieved and it’s an excellent, robust building which has been positively received and is being well used. The vinyl wrap has really enhanced the facility and internally we have varied room sizes to suit the type of learning – from large lectures to smaller seminar working groups. The project team was fast and responsive, which was key to the success of the project. We’re also very happy with the quality of finish and the additional elements which give the building a permanent feel and further improve the student experience.”

The learning hub accommodates a lecture theatre for up to 100 students and has three smaller seminar rooms. Portakabin supplied decking around the building, an access ramp, stairs up to the entrance, air conditioning, emergency lighting, and data communications. The building has a striking finish, created using a vinyl wrap with strong graphics that reflect and communicate UCL’s programme to transform its estate. The new Portakabin building is sited in a complex location within an enclosed courtyard. This required detailed logistical planning from the Portakabin hire team and great precision for the installation phase with only centimetres to spare. One of the walls also had to be fire rated to 60 minutes, due to the proximity to an adjacent brick building.

“The building has a striking finish, created using a vinyl wrap with strong graphics that reflect and communicate UCL’s programme to transform its estate”



Case Study

School building delivered by Yorkon after just 18 weeks on site

The Portakabin Group has expanded a PFI primary school in Leeds to provide more than 200 additional places, helping to meet the increasing demand for primary education in the city. The scheme at Asquith Primary School was delivered after just 18 weeks on site using a Yorkon off-site solution – reducing the programme by at least five months to the benefit of the school. The project was part of an ongoing, city-wide schools expansion programme.

Opened in 2002, the existing school was built under the Private Finance Initiative and is managed for Leeds City Council by Carillion. PFI projects have extremely complex contracts. When extending a PFI project, additional considerations need to be agreed and applied, such as different periods of liability, the effect on PFI deliverables and penalties, and ownership and maintenance of the new building.

Commenting on the project, Zoe Laidlaw, Senior Operations Manager for Carillion said: "Because this project was a PFI scheme, there was a very complex and challenging procurement process. The Portakabin team did everything possible to understand the issues and to push the project through to contract.

Their engagement and performance was really exceptional from the earliest stage. The building has a great design – a very open, spacious feel and excellent areas for outdoor learning. Use of a Yorkon off-site solution significantly reduced time on site by at least five months which was very important when working on a live school project. Children's education must come first, so the least disruption possible is a major advantage. Portakabin also involved the children in the construction process, which was a fantastic way for them to learn and everyone was blown away by seeing their new school building being assembled in the factory."

"Much of the two-storey building was fitted out off site at the Group's production centre in York to minimise any disruption to teaching and to radically reduce the programme time"

Gillian Austerfield, Head Teacher at Asquith Primary School, said: "We would highly recommend the Portakabin Group and the Yorkon solution to others in the education sector, and particularly for challenging PFI projects such as this. They were a fantastic contractor to work with. The whole process has been extremely quick, smooth and easy from start to finish. We love the design of the building. The rooms are light and airy, and the break-out space provides an excellent learning area. The large windows have created a bright and stimulating environment for children. We can't praise the Portakabin Group enough."

Much of the two-storey building was fitted out off site at the Group's production centre in York to minimise any disruption to teaching and to radically reduce the programme time. It was delivered to site with all M&E services, toilets, doors and partitions already pre-installed. The self-contained building provides eight purpose-designed classrooms, an IT hub, library and resource area, and break-out spaces to both the first and second floors. Externally, the facility is finished in white and grey with green rendered panels to add interest to the façades, white render and brickwork to the lower levels, and a double height glazed entrance. Large picture windows allow lots of natural light into the classrooms, creating a positive learning environment.

The location for the new facility was very constrained and a temporary road had to be constructed to make way for the crane and installation of the building modules. The cranage phase was carried out over a weekend to ensure no interruption to the running of the school.

For further information about Portakabin and Yorkon visit www.portakabin.co.uk email: information@portakabin.co.uk or call: 0845 401 0010

Views

Orla Corr
Executive Chairperson
of the McAvoy Group

Modernise, collaborate and innovate to position offsite construction in its rightful place

"We can deliver better and faster projects by positioning offsite front and centre of the broader construction industry.'

Offsite construction has been busy making waves – especially over the past five years.

However, according to Orla Corr, some traditionalists remain slow to recognise that its indisputable coming of age presents a great opportunity to adopt offsite construction principles of modernisation, collaboration and innovation.

If the construction industry is to meet the seemingly mammoth challenges of the next decade and beyond, it must radically rethink its future strategies and embrace the benefits of offsite construction. Yes, offsite construction is gaining traction, but more needs to be done by what I might call the 'traditional brigade' to embed its teachings in the earliest stages of architects' training.

The McAvoy Group has been driving the offsite example in recent years, pushing full steam ahead with our BIM Level 2 accreditation and determined to take a larger bite out of the UK's growing construction sector. Exemplary projects like the new £18m Goresbrook School in Dagenham, east London display our best-in-class, specialist type of offsite modular construction which combines our smart thinking and technologically-led approach. The success of projects like this provide a snapshot of our vision for the future of a construction industry.

McAvoy's commitment to embrace the latest technological advances – evidenced by our becoming the first offsite construction firm in the UK to secure BIM Level 2 accreditation – is a critical component in our long-term business strategy. As sectoral pioneers we plan to continue that journey as a means of ensuring that with our partners we can deliver better projects, faster, thereby positioning offsite front and centre of the broader construction industry.

But how can we further encourage clients to look to offsite construction as their preferred structure solution? For me, it starts right from the embryonic stages of a project with designers being encouraged to adopt Design for Manufacture and Assembly principles to consider offsite solutions. It's too late, post-design, to recognise that agreed plans would be better suited to the offsite model – too late both in terms of costs and timeframes. In that scenario, 'reverse engineering' has to take place, translating designs into offsite, incurring additional costs and time.

Sometimes the best way forward may be the marriage of the old with the new, the traditional with the offsite. For designers, architects and clients collective collaborations could and should be a legitimate and practical avenue to explore. Until we reach a time when offsite is fully integrated into the mainstream, I fully concur that much of the acknowledged resistance to it might merely be a knowledge gap. As a market leader in offsite I see it as our role, with others, to educate in order to fill that vacuum. Furthermore, we must show what offsite can deliver to an industry which is still struggling from poor levels of investment and a skills shortage. In terms of addressing the skills shortages within the sector we are recruiting apprentices and we have established our very own Smart Futures talent management project that provides a framework for our people to benefit from training and development so they can progress in our business.

We've also been proud to take a lead through our involvement within the leadership team of the Offsite Management School which was established to help suppliers meet the challenges facing the construction industry over the next five years.

Dialogue must be established with the QS world to convince them they should be considering overall value as opposed to a fixation on initial cost. Furthermore, we've got to show we can continually innovate as well as delivering faster, better projects if, as a sector, we are to successfully meet the needs of an education sector set to return to growth next year. That swift delivery is achieved not merely through bland and banal modular boxes, but with design-driven flair and innovation, providing imaginative solutions that can inspire. Our projects across all sectors serve to shatter the traditionalists' perceptions.

Given our strong credentials within the education sector we have worked tirelessly to embrace the vision of Construction 2025, the government-backed partnership based on the pillars of people, smart technology, sustainability, growth and leadership. This bold vision will provide the basis for the industry to exploit its strengths in the global market. We want to be a driving force within that market.

Whatever the sector, mainstream construction must accept the merits and value of offsite as part of construction delivery to meet increased demand from education and health, as well as for residential. The latter is a sector which McAvoy is set on turning its focus towards.

New Members

buildinsight
Regulation unravelled Expertise unrivalled

Dave Shaw

Build Insight Ltd operates as an Approved Inspector with experts in Building Regulations that find solutions to gain compliance.

Build Insight Consultancy Ltd is our sister company that 'wraps' key consultancy services around the requirements of Building Control.

At Build Insight, our promise is to add value to your projects by providing technical expertise alongside the experience and flexibility you expect from a multi-disciplined consultancy practice.

Working as your partner, Build Insight provides a solution-focused approach with an instinctive understanding of what matters to you and your clients. Like you, we know that quality and reliability are what produce outstanding results. By focusing on the needs of major developers, architects, contractors and their consultants nationally, we deliver high quality, consistent services that offer comprehensive expertise and a 'one-stop shop' solution.

Our motivated, experienced and highly professional team deliver a 'can do and will do' philosophy, guiding you through the legal requirements and providing you with specialist knowledge.

With over 40 years' experience in the industry and with hundreds of construction projects completed, this is why our clients come back time after time. We can work with you from conceptual and functional planning as well as preparation for design to ensure buildings are creative, fit for purpose and deliver truly sustainable solutions.

For more information, please contact:

Dave Shaw
Operations Director

T: 01508 535 327

E: daveshaw@build-insight.co.uk

Visit: www.build-insight.co.uk

UNIVERSITY OF CAMBRIDGE

Angus Stephen

Gavin Heaphy

The University of Cambridge is a collegiate public research university, founded in 1209, making it the second-oldest university in the English-speaking world and the world's fourth-oldest surviving university. Cambridge is consistently ranked as one of the world's best universities.

The University is formed from a variety of institutions which include 31 constituent colleges and over 100 academic departments organised into six schools. Last year, the University had an income of £1.6bn and, with the colleges, a combined endowment of around £5.9bn which is the largest of any university outside the United States.

The University has two main bodies involved with Buildoffsite:

- The Estate Management division at the University of Cambridge is a multi-disciplinary organisation responsible for the development, management and maintenance of the University estate, along with the provision of a variety of related services
- North West Cambridge Development (NWCD) is a vehicle set up to develop and deliver a £1.5bn, 150-hectare mixed-use estate providing some 3,000 homes, 2,000 student rooms, school, energy centre, supermarket, community centre, and infrastructure and facilities required to support such a major development. The development is the single largest capital investment that the University has made in its history

The University's operational estate, currently valued at £2.4bn, is broad and complex including 800-year-old buildings protected by English Heritage; highly sustainable, state-of-the-art and world leading research facilities; and a University farm. The Estate currently comprises 336 operational buildings with a total gross area of 640,000m2.

The investment pipeline is valued at around £3bn (excluding NWCD), while the current capital building programme is worth £1bn delivering a diverse portfolio of projects.

For more information, please contact:

Angus Stephen
Director of Operations, Estate Management Team

T: 01223 337774

E: Angus.Stephen@admin.cam.ac.uk

Gavin Heaphy
Construction Director, North West Cambridge Team

M: 01223 746661

E: Gavin.Heaphy@admin.cam.ac.uk

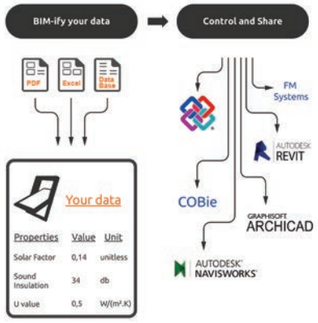
New Members

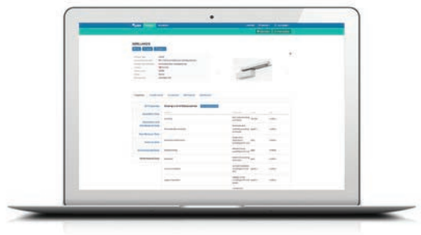
coBuilder

Pete Foster

"We've been looking for a comprehensive BIM data solution with multi-language capabilities that maps international and local standards, and that automatically updates data sheets, EPDs, BREEAM ratings, brochures, COBie exports, etc. We've found this solution with coBuilder."

Paul Surin,
Head of Built Environment at Wienerberger UK and Vice Chair of BIM4M2





coBuilder is an international company with more than 18 years' experience developing software solutions for the construction industry. coBuilder's mission is to facilitate collaboration between the different actors within the construction process, based on structured, accurate data. coBuilder offers BIM software products that enhance information and documentation management for construction products and hazardous chemicals, complying with both European legal requirements and green market requirements.

coBuilder's goBIM platform helps manufacturers digitise their product data by lifting it from the PDFs and turning it into digital BIM-ready data that can be exported in common data formats such as Revit, ArchiCAD, IFC, COBie, etc. Based on a cutting edge technology, goBIM offers a great competitive advantage for the manufacturer within an industry that is already on the path to digitalisation.

As part of its product portfolio, the company also offers a solution, comprehensively automating data collection and distribution throughout the whole building life cycle – ProductXchange. The platform has been designed to ensure easy collection of as-built data at every stage of the building process, allowing seamless control over the construction, whilst providing unprecedented accurate data for handover to clients and facility managers.

Currently, coBuilder employs over 80 specialists of various backgrounds including construction, architecture, electrical and software engineers, business development experts and marketing specialists, linguists, sales representatives and others.

You can also visit the following links for further information:

ProductXchange: http://productxchange.co.uk/?utm_source=offsite%20newsletter&utm_medium=email&utm_campaign=Offsite%20newsletter

coBuilder: http://cobuilder.co.uk/?utm_source=offsite%2newsletter&utm_medium=e-mail&utm_content=cobuilder&utm_campaign=Offsite%20newsletter

goBIM: http://gobim.com/?utm_source=offsite%20newsletter&utm_medium=email&utm_content=goBIM&utm_campaign=Offsite%20newsletter

For more information, please contact:

Peter K. Foster Jnr, Director of Manufacturers and Merchants

M: 07467 949976

E: foster@cobuilder.com

Twitter: @kantrellk

Visit: www.cobuilder.co.uk

See coBuilder's new video: https://www.youtube.com/watch?v=gDnyaDy5zak

encon

Chris Barlow

Encon Group is a specialist solution provider, able to meet all your performance criteria. With a national network of distribution depots, we have the ability to promptly supply service/products throughout the United Kingdom, and further if required.

Engaging with our customer and supplier partners, our technical staff are able to work with design teams and offer the most appropriate solution to meet the requirements for individual projects, tailored to the build programme.

As opposed to simply offering what we manufacture, we can offer a comprehensive range of products from all leading manufacturers, delivered straight to your onsite installation team to meet your production programme.

By working with the design team at an early stage we can arrange for bespoke and specific product sizes to be made and arrange for a full specification and guarantee, provided by the chosen manufacturer, including product installation training where required.

We are constantly updating our solution offering with all products and systems being assessed by our dedicated Product Development Director – Chris Barlow – prior to introduction within the business, ensuring that only fully compliant products are offered.

Our range of solutions include::

- High performance building boards.
- Insulation for thermal, acoustic and fire.
- Specialist insulation applications.
- Air sealing.
- Mechanical applied plasters.
- Penetration seals.
- Suspended and fixed ceilings.
- Partitions for interiors, compartmentation and blast proof.
- HVAC and Industrial.
- Marine products for flooring, acoustics, thermal and fire.
- Individual seals and baffles to suit all your requirements.

For more information, please visit:

www.encon.co.uk and

www.nevilllong.co.uk

Events

The Offsite Management School

Launch events: RIBA Plan of Work – Design for Manufacture and Assembly (DfMA)

Introducing the new DfMA Overlay to the RIBA Plan of Work

In recent years, we have seen a number of initiatives nudging us towards the next major transformation in how we construct buildings. These initiatives look at how we can maximise off-site fabrication and on-site assembly, minimising on-site construction. The successful implementation relies upon the architects and designers changing the way we design and embracing a process known as Design for Manufacture and Assembly.

This has significant impacts on the Plan of Work and as a result RIBA, in partnership with the Offsite Management School, has developed an Overlay to the Plan of Work focusing on DfMA that will help to identify the significant benefits that can be realised through its use.

The launch event at RIBA on 28 September gave the attendees a first look at the new DfMA Overlay. There were presentations from Dale Sinclair of AECOM, as well as Skanska and United Utilities about the importance of implementing DfMA processes in to their businesses. The launch event focused on how to:

- Identify the key client drivers for using DfMA
- Appreciate why DfMA is an essential current topic for Architects
- Understand typical DfMA processes
- Know where to get help and guidance

" I counsel every RIBA member to read this document and to consider how they can use the methods set out to help transform the way we design to make it faster, cheaper, safer and more environmentally friendly to build."

Jane Duncan RIBA President

Further regional launch events will be held, in the following locations:

Date:	**Monday 21 Nov. 2016**
Time:	14:00 - 16:00
Location:	United Utilities, Thirlmere House, Lingley Mere Business Park, Warrington, Cheshire WA5 3LP
Date:	**Monday 28 Nov. 2016**
Time:	10:00 - 12:00
Location:	Birmingham
Date:	**Friday 27 Jan. 2017**
Time:	09:30 - 16:00
Location:	Hamilton, Scotland

Offsite Supplier Day: Digital Libraries

The Offsite School's Digital Libraries supplier day will introduce you to new ways of helping your organisation become more efficient using this design standardisation process. The industry is increasingly using Digital Libraries to store BIM objects, which have been developed by design teams to help them reuse project information. The use of BIM Libraries creates efficiencies that will save time and increase productivity to help drive your organisation into a new era of standardisation.

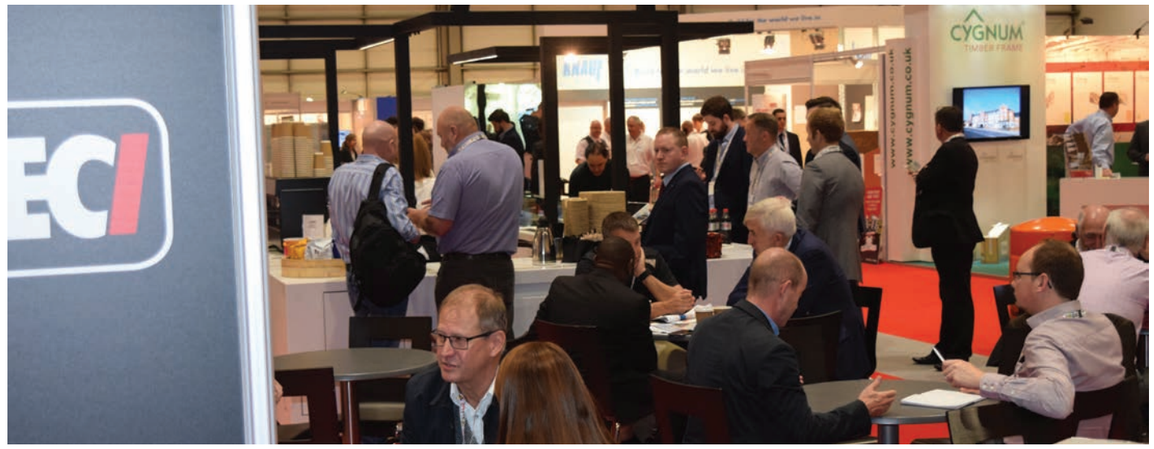
It will be essential for you to understand the range of design platforms and merits, and the Offsite School's Digital Libraries supplier day will provide you with the vital information that you need to utilise DfMA processes that will benefit your organisation. Taking part in this supplier day will enable you to:

- Learn how major contractors will be utilising Digital Libraries in the near future
- Understand how designers are currently drawing upon Digital Libraries
- Gain a clear insight into different types of Digital Library platforms
- Discuss with clients and contractors what they would like to see from you

Date:	**Wednesday 16 Nov.2016**
Time:	09:00 - 16:00
Location:	The Studio, Birmingham

For more information on the Offsite Management School, visit: https://www.offsiteschool.com/support/supplier-days.aspx
If you have any questions, please email: ursula@supplychainschool.co.uk, or call: 020 7697 1977

The Offsite Construction Show 2016



At last, the offsite construction industry has its very own productive and totally dedicated event, giving the industry its own platform, and providing a valuable resource of knowledge and advice. This is the biggest event of its kind in Europe, and is at a major venue in London and supported by key industry figures.

Department for Business, Energy & Industrial Strategy

Seminars and Masterclass Sessions – Supported by the Department for Business, Energy & Industrial Strategy

Buildoffsite, in collaboration with the Offsite Construction Show and with the support from the Department for Business, Energy & Industrial Strategy (BEIS) is delighted to host a programme of Seminars and Masterclasses at the Show. For the full programme, visit: https://offsiteconstructionshow.co.uk/seminar-program-bos-theatre/

The event is supported by Buildoffsite, the Modular & Portable Building Association, the Structural Timber Association and British Precast. Sales Director Paul Shelley said: "We live in an increasingly remote, digital age, so trade events are becoming more important, because there is simply no substitute for meeting people in person, and networking with peers, suppliers and customers."

The Show is supported by many Buildoffsite member companies including: Tekla, Howick, Shay Murtagh Precast, geoLOGIC Foundations, Ormandy Group, Modularize, Avatco Building Solutions, Portakabin Group, Elliott Group, Enterprise Ireland, Caledonian Modular and Nomenca. For the full list, visit https://offsiteconstructionshow.co.uk/exhibitor-list-2016/. We are working closely with the show sponsors Metsec, Ideal Lifts and AV Danzer.

This important, new event will be a must-visit for anyone seriously involved in any aspect of the construction industry. All our exhibitors and partners are working with us to bring together what is new in the market and hopefully show why offsite construction is the UK's emerging construction method, for certain sectors.

If you are involved in the offsite market, or need to know more about what it has to offer in terms of efficiency and cost savings, the Offsite Construction Show will save you weeks and months of research, legwork and money, with everything under one roof.

To visit this free to attend event, simply visit the Show website at: https://offsiteconstructionshow.co.uk/ and click on the registration link http://offsite2016.smart-reg.co.uk/Visitors

Events

The OFF SITE Construction Show

Day 1

Theatre Seminar Programme

12th October

10.30am – 11.45am

Innovation in Offsite Housing / RESIDENTIAL Delivery – Plan A is to go offsite, there is no Plan B

The Session will explore the contemporary use of offsite solutions to deliver quality home building in the key markets of Private Rental, Private Sale, Self- Build and Student Accommodation. With a growing housing shortage the capacity of the traditional housebuilding industry is at full stretch across much of the country. If the Government's target to effectively double the rate of housebuilding is to be achieved then we need to industrialise the UK housebuilding process and to transform the speed and value of construction in the same way as other modern industries have transformed themselves over recent decades. This is not a done deal - there are significant issues that clients and suppliers must address to facilitate such a transformation.

Chaired by
Nick Whitehouse and Dennis Seal, Buildoffsite

Speakers Include
Jamie Ratcliff, Greater London Authority

Simon Underwood, Elements Europe

Kieran White and Jim Williamson, Vision Modular Systems

12.00pm – 13.00pm

Keynote: The Opportunity for Offsite Solutions to Deliver a Revolution in Construction Performance

Construction has just about the lowest productivity of any modern industry. People work incredibly hard but not smart. The reality is that build quality is inconsistent, performance in use is often unpredictable, construction takes too long to deliver, increasingly costs too much and is unacceptably wasteful. So how might the intelligent use of offsite construction methods enable disruptive change in an industry that is so important in sustaining the UK economy?

Chaired by
Richard Ogden, Buildoffsite

Speakers Include
Kim Vernau, BLP Insurance

Robin Webb, Department for Business, Energy & Industrial Strategy

Steve Fozard, Costain

13.15pm – 14.30pm

Exemplar Projects

A quick fire overview of 5 projects that demonstrate the incredible benefits that the use of offsite construction can deliver when incorporated into the project planning from the outset. We need to ensure that the scene setting and the presentations make it absolutely clear why these projects are Exemplars.

Chaired by
Prof Nick Whitehouse, Oxford Brookes University

Speakers Include
Keith Patrick, Graham Construction

Kevin Jones, Portakabin

Graham Cleland, NG Bailey

Keith Broughton, Hochtief

Mike Rider, Sir Robert McAlpine

14.45pm – 16.00pm

Developing Innovative Offsite Construction Solutions for the Water Industry

The Regulator is challenging water businesses to deliver efficiencies in their capital investment programmes as well as delivering environmental and other benefits. There is increasing recognition of the opportunities to introduce greater standardisation of assets and for these standard solutions to be applied by all water businesses. Similarly the opportunities to assemble assets on site from quality offsite manufactured components is now widely recognised as an approach that can speed up the delivery of new assets and control costs as well as supporting improved and more predictable asset performance over time.

Chaired by
Dale Evans, Director of @One Alliance, Anglian Water

Speakers Include
Steve Wright, Yorkshire Water

Lindsey Taylor, Anglian Water

John Browne, United Utilities

Jaimie Johnston, Bryden Wood

Masterclass

12.00 – 13.00pm

Versatile uses for alkali-activated cementitious materials in precast concrete

Speakers
Stephen Davis, C-Probe Systems

Prof Paul Lambert, Mott MacDonald

1.15pm – 2.15pm

The Key to improved Productivity

Speaker
Ali Mafi, Lean Thinking Ltd

2.30pm – 3.30pm

Building Services – Cost or Opportunity?

Speaker
Brian Morris, BCM Consulting

3.45pm – 4.45pm

Comparator Update

Speaker
Bernard Williams, IFPI

Events

The OFF SITE Construction Show

Day 2

Theatre Seminar Programme

13th October

10.30am – 11.45am

Innovative Offsite Solutions for Quality Educational Buildings

The rapid increase in population is driving demand for additional school places. In turn this is driving an unprecedented increase in demand for extensions and additions to existing schools plus new schools. In order to maintain standards of education these additional facilities need to be delivered quickly but to exceptional standards to support excellence in education delivery for years to come. Collaboration with offsite solutions offers considerable opportunities to deliver rapidly and with minimum disruption to fit in with the contemporary educational requirements.

Chaired by
Anna Winstanley, Education Funding Agency

Speakers Include
Kevin Jones, Portakabin

Tim Carey, Willmott Dixon (sunesis)

Colin Sergeant, Elliott

Robert Colver, SIG Offsite

12.00 – 1.15pm

Offsite Fit Out and Refurbishment Hub - Establishing what the market wants, delivering a tangible solution that adds real value

Refurbishment is an important part of the UK construction industry. Access is almost always a limiting factor which has tended to make refurbishment projects dependent on onsite construction. However, increasingly there are offsite alternatives which if properly understood and exploited can deliver fantastic benefits for clients and customers in terms of rapid turnaround, high quality and flexible solutions, facilitating refurbishment as a practical alternative to demolition and new build, minimising waste and nuisance on site.

Refurbishment is likely to become increasingly important in extending the life of existing buildings and allowing for raid change of building form and function.

Chaired by
Lee Walker, CDS Group

Speakers Include
Andrew Lofty, B&Q

Andrew Mellor, PSP Architects

Tim Hall, Totalflow

In association with buildoffsite

13.30 – 14.30pm

Exemplar Projects

A quick fire overview of 4 projects that demonstrate the incredible benefits that the use of offsite construction can deliver when incorporated into the project planning from the outset. We need to ensure that the scene-setting and the presentations make it absolutely clear why these projects are Exemplars.

Chaired by
Andy Dix, Buildoffsite

Speakers Include
Daniel Leech, TDS Group

Liam McGovern, Shay Murtagh

Chris Moyes, Polypipe

David Harris, Premier Interlink

14.45pm – 15.45pm

Innovative Offsite Solutions for Rail

Rail infrastructure accounts for a significant slice of UK construction spending. Crossrail, Crossrail 2 and HS2 are the mega projects but Network Rail has a massive programme underway to upgrade assets that in many cases have lacked investment for decades. Expansion and refurbishment projects often involve highly complicated engineering, can be disruptive and often take an implausibly long time to complete. Infrastructure projects of all sorts are tailor made for a design and delivery approach based on the use of offsite components.

Chaired by
Nigel Fraser, Rail Hub lead, Buildoffsite

Speakers Include
Tomas Garcia, HS2

Ciaran Murtagh, Shay Murtagh

Masterclass

10.45am – 11.45am

Design by test and assessment - creating Innovative Solutions

Speaker
Geoff Edgell, Lucideon

12.00 – 13.00pm

BIM without the Bull

Speaker
Peter Foster, CoBuilder

13.15pm – 14.15pm

Laser Scanning Explained

Speakers
Enzo Lambrosciano and Jonathan Butler, Murphy Surveys

14.30pm – 15.30pm

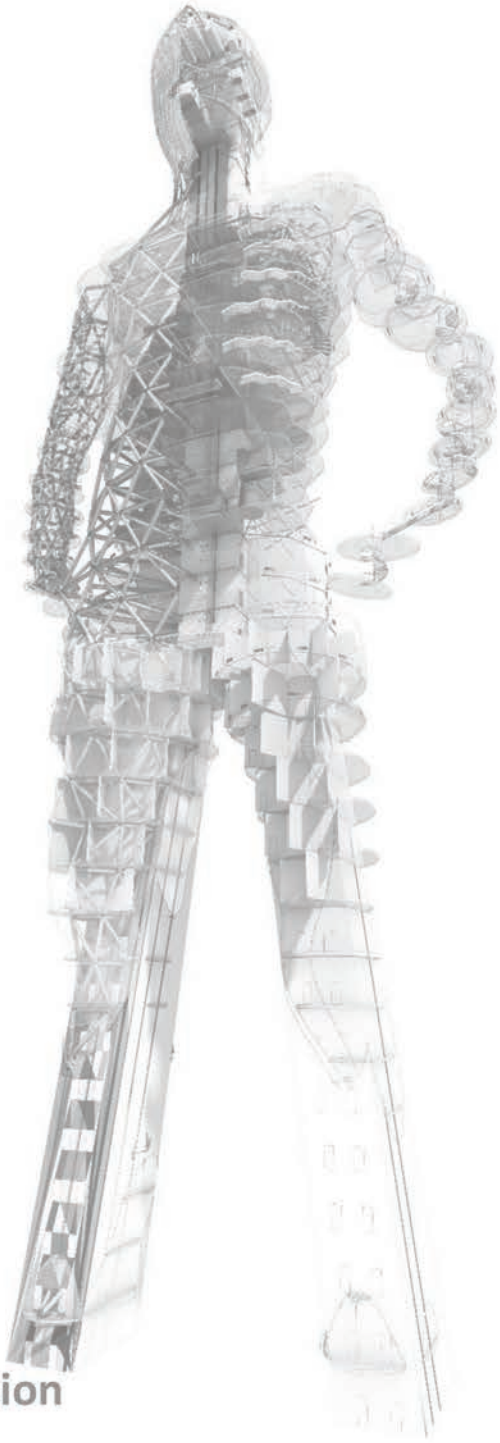
Value Misconceptions of Offsite

Speaker
Joshua Southern, KPMG

buildoffsite

Voice of UK Offsite Construction

- ✓ The Voice of Offsite
- ✓ B2B Network
- ✓ Think-tank
- ✓ Knowledge exchange
- ✓ Membership organisation



Let's work together!

Visit us on stand C50 at the Offsite Construction Show 2016

Buildoffsite and its membership supports the increased use of offsite construction to improve quality, productivity & client value.

www.buildoffsite.com info@buildoffsite.com @buildoffsite