

NEWSLETTER – JULY 2013

Promoting construction offsite



*Richard Ogden
Chairman*

Sustainability the offsite way – the evidence

Inevitably any construction activity involves the use of materials and capital resources. Despite what some people might believe, a sustainable future for construction is not just about implementing more energy efficient construction processes or more energy efficient buildings. That is not to minimise the importance of these considerations it's just that other considerations are also relevant and need to be taken into account.

In search of a more sustainable future it is highly desirable that the resources used in construction should be at the minimum level consistent with achieving project objectives and the effective operation of the building or structure in use. I don't think that there would be much debate about this as a matter of principle but I'm certain that there would be a great deal of discussion about what this means in practice and the respective contributions to sustainability made by different construction techniques.

Intuitively I think that most of us would probably be prepared to go along with the proposition that, all other considerations being equal, construction projects assembled on site from a set of precision factory made components with the work carried out in accordance with a carefully crafted and logical plan are likely to represent a more sustainable approach to construction than the alternative offered by the use of traditional site based methods. This seems reasonable given the expectation that waste of materials is likely to be much less, that the

construction process is likely to be better planned and more efficient and that levels of productivity on site and build quality are likely to be much improved. As I never tire of pointing out this is how almost all other modern manufacturing industries operate and in principle there is no reason why the process of construction should be any different.

However, with construction becoming a more precise process, with the use of information modelling becoming increasing commonplace and with increased focus in most markets for building users to have a much better handle on operating costs – it really is time that we started to move away from intuition and started to examine the sustainability characteristics of offsite methods of construction from a more measured basis – to gather hard information and to see if we can move from intuition to a robust evidence based set of arguments in support of offsite construction as the clear way to a more sustainable future.

So this is precisely what we have done and after a very serious piece of work undertaken by Daniela Krug and supervised by Professor John Miles of Cambridge University and with support from other members of the Buildoffsite Executive Group we are now starting to get some initial answers. The findings of this ground-breaking piece of work:

Offsite Construction: sustainability characteristics is now available as a download from the Buildoffsite website:
www.buildoffsite.com.



The starting point to this review has been the definition of sustainability derived from the work of the World Business Council which defines sustainability in terms of the simultaneous pursuit of economic prosperity, environmental quality and social equity – the so called triple bottom line

approach. The Report has identified the main contributory factors and sets out to put some scale to the respective sustainability attributes of traditional construction methods compared with offsite methods. Where possible the drafting team have calculated accompanying financial benefits. Patently not all contributory factors are of equal financial significance and the Report recognises that the impact of some factors may well be so small as to have only modest or indeed no impact on decision taking. However, some factors can deliver sustainability benefits that are significant by any measure and the Report has put some scale on these. Ultimately however, clients will take their procurement decisions based on whatever criteria they deem most appropriate in the particular circumstances.

The approach taken in compiling the Report has been even-handed. Absolutely nothing has been slanted in favour of offsite solutions. The evidence that is available has been examined on its merits.

In terms of social considerations the key component is the opportunity for the increased use of offsite construction methods coupled with information modelling and a structured management approach to site assembly to improve the health and safety of the workforce. Of all the characteristics that the Report has examined this in my view is the most compelling test that the use of offsite construction methods must pass if it is to be relevant to the needs of a progressive industry. The Report sets out in very stark terms the statistics that define the challenge that we need to address.

I know full well that our best companies place an absolute priority on the health and safety imperative and are unstinting in their commitment to eliminate the risk of accidents of any description. However, the reality is that during 2012 according to HSE statistics almost 50 people were killed on construction sites, there were nearly 3000 cases of major injuries and almost 6000 cases of over 3 day injuries. The dry statistics mask the reality of the human cost and none of us can be comfortable that so much still needs to be done to make our industry a safe place in which to work. The Report notes that there is some significant evidence to suggest that the use of offsite construction methods can make a positive contribution to improved health and safety

and this alone in my view would be reason enough to press the case for the increased use of offsite solutions. For those who want to think about the above statistics in terms of the price that we collectively pay for getting things wrong the Report using Department for Transport figures estimates that the cost of not caring enough about health and safety is around £700 million a year. What a shocking figure and what an indictment of our industry. I hope that we would all agree that this is a price that we should simply not be prepared to pay. Any change that can help reduce and hopefully eliminate this waste needs to be progressed with great vigour.

The environmental considerations that have been addressed in the Report include the energy and environmental impacts of reduced traffic movement, reduced energy use on site attributable to a smaller work force, and substantial reductions in material waste and improved rates of recovery and recycling. There is also some evidence of savings in operational energy although it has to be said that the evidence base is quite limited and it is difficult to disengage the energy attributable to the building and the energy consumed in its day to day operational activities.

Finally the Report addresses economic and financial considerations resulting from the increased use of offsite solutions. Speed of construction on site is a commonly cited and well understood attribute and depending on the client's requirements the ability to deliver a project up to 60% faster through the use of offsite construction methods may be a really compelling factor that will sway the argument. Additional benefits including improved cash flow and reducing the need for and cost of snagging have also been identified.

Helpfully the Report includes a summary table which identifies for each of the sustainability factors the potential improvements that offsite construction methods offer compared to traditional forms of construction for each of the triple bottom line characteristics. This is a really useful overview – but let's be mindful that it is just a guide and the individual performance characteristics are likely to be different depending on the specifics of actual projects.

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This Report represents a first effort by Buildoffsite to undertake an evidence based review of the sustainability benefits of offsite solutions. We recognise that for some characteristics the evidence that is readily available is thin. However, in all cases there are clear indications that offsite solutions can deliver tangible benefits which to varying degrees will influence procurement decisions. What has been gathered so far represents the start of a process of evidence gathering and discussion. It also provides additional information that can be applied to encourage clients and customers to give serious consideration to the use of offsite solutions if they wish to look holistically at sustainability issues.

I am really grateful to the work that Daniella and John have carried out and I encourage everyone to get hold of a copy of the Report and to give serious thought to the simple messages that it contains to support project and business ambitions.

Delivering Homes the Offsite Way

Buildoffsite, in collaboration with the University of Salford, hosted an afternoon conference at the University on 19 June. The conference addressed the contribution that innovative offsite construction can make to the delivery of new homes.



The event attracted an audience of approximately 90 delegates and included a cluster of excellent Breakout Sessions to investigate key aspects impacting on the development of the offsite housing industry.

The background to the conference was the pressing need for a major increase in the number and speed of delivery of quality new homes being built in the UK to meet the needs of a growing population and a steep increase in the number of households being formed. Intuitively it would be reasonable to predict that an increasing proportion of these new homes would be assembled on site from a set of precision made components ensuring rapid construction, high standards of build quality, assured performance in use and making minimum impact on the environment. This is, of course, precisely how all other modern industries operate and the results in terms of rapid increases in product value for customers and economies of scale are plain to see. Curiously the house-building industry seems to be wedded to the practice of constructing new homes on site from a set of raw materials. Increases in performance come with a corresponding price tag.

The conference explored the challenges that the offsite industry needs to address in order to win a larger slice of the new build housing market.

Scene setting presentations were given by Professor Mohammed Arif of Salford University, Ian Perry of Your Housing Group, Steven Fyfe of the Association of Greater Manchester Authorities and Nigel Fraser of Buildoffsite.

Barry Dye and Andrew Shepherd of Laing O'Rourke provided the keynote presentation on the innovative solutions that Laing O'Rourke are bringing to house-building in the UK utilising the manufacturing excellence of their Explore manufacturing facility in Steetley to deliver quality new homes through 2D solutions and to build these homes at an unprecedented scale, pace and performance in use.

The Presentations from the conference may be accessed via the Buildoffsite website at: http://www.buildoffsite.com/downloads_events.htm.

Buildoffsite is developing a programme of additional events to promote the opportunities for offsite solutions of various types to make a much more substantial contribution to the delivery of new homes in the UK as a practical response to the recommendations of the Offsite Housing Review written by Professor John Miles and Professor Nick Whitehouse. A copy of their Report is downloadable from the CIC website: www.cic.org.uk.

Events

Buildoffsite Breakfast Briefing - Maximising R&D Tax Relief

30 October 2013 | Buildoffsite, Classic House, 174-180 Old Street, London EC1V 9BP

Time: 08:30-10:00 (registration and refreshments from 08:00)

We all know that the business environment at the present time is very challenging and the construction sector is under particular strain. In these circumstances no organisation can afford to waste money, or for that matter, miss out on opportunities to recover expenditure where tax credits are available. An obvious concern is that construction businesses should be taking maximum advantage of the opportunities for R&D Tax Relief. Companies involved in the development of offsite solutions and other forms of innovation will be investing money in Research and Development, but may not be maximising the benefits available under the UK Tax system. This is your opportunity to find out if you could be recovering more of your investment.

In support of its Members and Guests, Buildoffsite is pleased to host a special Business Breakfast Briefing on 'Maximising R&D Tax Relief', featuring Gareth Edwards of ela8.

Key Issues:

- Exchange up to 25% of your losses for cash
- Reclaim your corporation tax, or reduce future liability
- Immediately claim 100% of your capital spend against tax
- Claim for the last two years
- Significantly enhance your existing claims
- 'Above The Line' tax credits for Large Companies – from 1 April 2013 claim cash if loss-making
- Get tax relief on revenue due to patented technology

To find out more, why not join us at our Buildoffsite Business Breakfast.

Presented by: Gareth Edwards, ela8. Gareth is a life-long R&D professional and entrepreneur, with extensive experience of putting together and supporting R&D tax relief claims for a wide range of

companies, from multinationals to start-ups – gained whilst working as a Director for the award-winning Deloitte & Touche R&D Tax Services group. He has presented at numerous public forums on the benefits available and how to set about claiming. His deep interest and insight into technology means he can talk effectively with your technologists, quickly extracting the scope and basis for your claim and presenting this in a way that the tax authorities will understand and accept.

This workshop will feature:

- An introduction to R&D tax relief and the latest budget changes
- What activities and expenditure can be eligible
- Examples of eligible projects
- A question and answer session

A nominal charge of £50 + VAT is payable for each delegate place to cover administration costs. There is no charge for Members of Buildoffsite. To book a place:

Email: anna.whiting@buildoffsite.com

Call: 020 7549 3306

A video record of Buildoffsite events

Buildoffsite events are designed to achieve a number of objectives, including providing platforms to share knowledge, opportunities to bring the Membership together to share information on business activities and opportunities for collaboration, creating great networking opportunities and also serving as a mechanism to introduce prospective new Members to the organisation.

Our events work well for those who are able to attend and take part, but we recognise that busy diaries mean attendance is not always possible. It is a concern that the knowledge sharing is essentially ephemeral, and we have been looking at ways to capture the key learning points from our events and to make these available to the Membership as a permanent reference and a resource.

In collaboration with the IBX organisation www.ibxconstruction.com Buildoffsite has

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embarked on a trial to video a number of our events and to make these available to the Membership through the Members' area of our website.

The software used by IBX provides a simple means to view selected presentations and discussions, and at the same time to follow the presentation images. To date, three events have been recorded and uploaded onto the Membership Area comprising:

- The Discovering Offsite visit to TATA Steel's Sustainable Building Envelope Centre (SBEC)
- The Conference organised in collaboration with Mott MacDonald and hosted at the Institution of Civil Engineers earlier this year to review innovative offsite solutions in civil engineering, and
- The Conference on housing organised in collaboration with the Royal Institution of Chartered Surveyors which took place in March and which featured the first presentation of the Offsite Housing Report written for Government by Professor John Miles and Professor Nick Whitehouse, innovative collaborations between Kier and Kent County Council to deliver new housing and also the launch of the BOPAS Certification Scheme.



LOGIN / REGISTER

REGISTER WITH IBX

Free to Buildoffsite members - please login using details provided by Buildoffsite

First month membership to IBX Construction is FREE for all users subject to meeting the key criteria. Subsequent memberships are £100 (+ VAT) providing full 12 month access to all video content, white papers plus all the interactive discussion boards and more. Each application is vetted for relevant job title, seniority and type of business, or membership of partner industry organisations in order to maintain the integrity and quality of the private online community and subsequent networking opportunities. Registration will be approved within 24 hours.

required fields - please fill in all information

EXISTING USERS LOG IN

USERNAME	<input type="text"/>
PASSWORD	<input type="password"/>
<input type="checkbox"/> Remember me	
<input type="button" value="LOGIN"/>	

What we need to know is whether Members find it helpful to have access to a permanent record of our events in this way. Your feedback on your experience will help us to determine how Buildoffsite can best respond to the opportunity provided through developments in digital media that other industries are starting to embrace in support of improved communications, knowledge transfer and new ways of doing business. Comments should be emailed to Anna Whiting:

anna.whiting@buildoffsite.com. If you have any difficulties accessing the Buildoffsite Members Area, do contact Anna.

Patent Box



From 1 April 2013 the Government has introduced a scheme that reduces the Corporation Tax on profits a company makes, where such profits can be associated with qualifying intellectual property (IP). Mostly, this IP has to take the form of UK or European patents. The patents have to have been granted in order to make a claim, but back-claims (starting from 1 April 2013) can then be made for periods since the patent application went in. Historical patents are included. The effective rate of Corporation Tax can be as low as 10%.

What is the associated relevant profit?

In principle the idea is that the net profits due to the IP can be calculated by identifying revenue and costs, and separating out profit due to a normal return on expenditure and brand. The remainder is the relevant profit due to IP. There are simplification options where this is not straightforward.

Revenue might come from a royalty for a patent, but can also be for the sales of a product or service that utilises the IP in some way. The extent to which a piece of IP contributes to a product or service is open for debate, but the wording in the legislation is quite wide.

How might this apply to construction?

There are numerous scenarios where a patent might be associated with a revenue stream.

Examples might be:

- A particular construction process or technique is patented. A third party pays a royalty in order to use the technology
- Such a process or technique is used internally to provide construction services or create buildings. Calculations are made as outlined above

One aspect of Patent Box is that it may now be worth patenting construction processes, where previously this was seen as being ineffective in preventing others from using the technology, or unlikely that a royalty could be secured.

Further Information

ela8 are a specialist R&D tax consultancy, and can provide advice. Contact Gareth Edwards:

Email: gareth.edwards@ela8.co.uk

Call: 01869 346095

Visit: www.ela8.co.uk

Direct, relevant support and funding for manufacturers

Ready for some good news for a change?



If you are a manufacturing company, with fewer than 250 employees and a €50M turnover, you could be eligible for Government funded support, including matched funding for a variety of activities, via the Manufacturing Advisory Service (MAS).

What's the classification of a manufacturing company? Well, if you have any kind of raw material coming in and you are changing its state in some way before selling it on, you're a manufacturer. Even if you are just designing and selling products, but outsourcing all of the physical production, you are still a manufacturing company.

If you're a manufacturing company thinking about an improvement project that will help grow your business, then you definitely need to be speaking to the Manufacturing Advisory Service. MAS has been supporting manufacturers to grow and improve for more than 10 years, and we're bigger and better equipped to help than ever before.

MAS can support activity that will help your business grow, providing subsidised support (up to 50% and up to £3,000) for projects **with a consultant/supplier of your choice**, subject to MAS approval. Typical projects include:

- IPR strategy
- Patent search activities
- Product development consultancy
- Design for manufacture and assembly
- Rapid prototyping to support advanced manufacturing
- Subcontract cad design and drafting
- Material selection
- Product specific tooling costs
- Business strategy
- Marketing and ecommerce strategy
- Financial modelling, Finance Strategy, Business Planning
- Bespoke, In-house training
- Lean, 5S, continuous improvement
- Getting systems in place for ISO 9001, 14001 and other industry standards

MAS can provide matched funding towards your project of up to £300 per day – giving you affordable access to high quality expertise to help drive your business forward. Hundreds of manufacturing SMEs across the country have already taken advantage of the matched funding. Have a look at the website for some case studies: www.mymas.org/case-studies.

Your local MAS Advisor can help you work through your business issues and ambitions to identify the key improvement opportunities. From there, they can put together a programme of work to support you and bring in the most relevant specialist to help you, from over 3000 MAS registered consultants across England.

Regardless of who you choose, you'll have the added confidence and assurance that your project will be overseen by your impartial MAS Advisor. This means you'll have a single and personal, point of contact from the minute you start.

The MAS matched funding process is quick and easy to access for SMEs.

Interested in finding out more?

Your local MAS Advisor would welcome the opportunity to visit you at your convenience and discuss in more detail. Get **free** impartial advice on practical measures you can take to improve your business performance – including advice on **sources of support and funding to help you grow**.

Contact MAS now for your free manufacturing review. Contact the MAS Helpline
Email: advice@mymas.org
Call: 0845 658 9600
Email: www.mymas.org

News

Bryden Wood and Mace export BIM to Russia

Design and technology company Bryden Wood has been appointed to work on a major scheme in St Petersburg on a 20-year programme of development that will transform 9 districts,

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sub-divided into 22 city blocks over an area of 900 hectares. The first district to progress to full implementation is Gutenberg, which comprises approximately 15,000 dwellings plus retail and leisure uses, schools and healthcare. In total, the scheme will house some 22,500 people. Bryden Wood is the Chassis Designer, as well as the structural, mechanical, electrical and public health engineers across all plots, and the Plot Architects for approximately 20% of the individual buildings.

The chassis system uses a variety of materials including pre-stressed precast elements, steel columns and in-situ concrete. This is a continuation of Bryden Wood's long experience of optimising the use of materials to create low embodied energy, high quality products. The mass of the buildings is less than half that of a concrete alternative, bringing significant cost savings and huge benefits in terms of logistics, construction and programme.

BIM has been embraced on the project from the outset, with a library of data-rich components developed to allow cost, programme and logistics information to be extracted directly from the early design.



Images courtesy of Tovatt

For more information contact Jaimie Johnston, Director of Bryden Wood:

Email: jjohnston@brydenwood.co.uk

Call: 020 7253 4772

Visit: <http://www.construction-manager.co.uk/news/st-petersburg-appoints-bryden-wood-and-mace-build/>

Olympic structures designer joins the Accio team

Accio Group has added world class structural design expertise to its project team with the appointment of Adrian Parsons as Design Manager. Adrian spent the majority of 2012 designing and project managing temporary structure installations for the Olympic Games including the 10,000sq m equestrian platform at Greenwich Park,



Adrian Parsons

along with badminton and gymnastics tournament decks at Wembley – not to mention the transition platform for the triathlon in Hyde Park, which then became the finishing line and scene of a Team GB Gold and Silver for the Brownlee brothers.

Adrian's career spans senior roles in structural design practices, including work designing and creating a patented platform support system capable of holding multi-storey temporary structures. He has substantial retail experience as a lead designer and project manager on multi-million pound assignments for Tesco, and has worked internationally in UAE, Saudi Arabia, Uganda, Tanzania, Burundi, Senegal, Japan, Canada and France.

At Accio, Adrian will lead the design team working on the innovative demountable retail solutions for Sainsbury's and Tesco, who are pioneering the use of Buildoffsite design and construction processes as they move to accommodate the growth of internet shopping utilising urban stores for store-picking and fulfilment. Demountable structures can be installed in weeks and through the use of Adrian's patented platform system, allow for easy loading of raised delivery vehicles at the rear of these stores.

Commenting on the appointment, Accio's Managing Director Stephen Casey said: "Adrian brings a wealth of global design and engineering project management skills to our dedicated Structures team. Our work in the specialist field of demountable temporary structures for leading retailers is a critical strand of the business and we

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will use Adrian's skills to the full to develop innovative solutions." Adrian is equally delighted to be on board, adding: "This is a great move for me. I have worked with the Accio Structures team on a number of initiatives over recent years and I'm delighted to be joining the team at such an exciting time."

For more information contact Managing Director Stephen Casey:
Call: 01487 773905
Visit: www.acciogroup.com

UK'S biggest healthcare project to be built off site is craned into position

Yorkon, part of the Portakabin Group, has installed the UK's largest and most complex modular building project to be built in the health sector. The £17.9m contract for principal contractor Kier Construction is for a new Women and Children's Centre at North Middlesex University Hospital. Due to be handed over later this year, the project which was procured under the ProCure21+ framework, was manufactured off site at the Yorkon production centre in York.



152 steel-framed modules up to 18m long and weighing up to 18.5 tonnes were craned into position in just 28 days. A 500 tonne crane was used for this operation, which took place within the hospital grounds and in close proximity to existing facilities that remained in use throughout. The off-site approach has radically reduced disruption to patient care and the build programme to ensure the new facilities will be operational prior to seasonal winter pressures.

Kevin Howell, Director of Environment and Joint Project Director for the Barnet & Chase Farm and North Middlesex Hospitals, said: "Given the challenging timescales, we needed to look at innovative methods of procurement and construction. Off-site construction is giving us greater certainty and a substantial reduction in risk. The project is on time, and the partnership between Kier and Yorkon is working well; in particular the flexibility shown by Yorkon in the face of changing healthcare requirements." Clive Watson, Project Manager at Kier Construction, said: "Delivery and installation of the modules progressed seamlessly and I am pleased to report that all the units arrived on time." Simon Ambler, Director at Yorkon, said: "This is our largest ever contract and its complexities demonstrate just what is now achievable with an advanced off-site building system in a short timescale and on an extremely busy hospital site."



The scheme is targeted to achieve a BREEAM 'excellent' rating and has a number of sustainability features. Yorkon has an extensive track record in the healthcare sector, having completed a wide variety of bespoke off-site building projects including ward extensions, self-contained theatre blocks, emergency care units, haemodialysis centres, offices, community clinics, and complete hospitals, delivering all the advantages of off-site construction.

For further information about Yorkon off-site building solutions:

Email: info@yorkon.com

Call: 0845 2000 123

Visit: www.yorkon.info

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Yorkon wins education contracts worth in excess of £12M

Yorkon has been awarded contracts in the education sector worth in excess of £12m to help meet the national shortage of school places. A National Audit Office report has warned that 250,000 extra school places will be needed in England by 2014 to meet demand following the dramatic rise in birth rates. Yorkon has been working with Enfield Council and Barking & Dagenham Council, using off-site construction to speed up the build process and respond to the urgent need for additional teaching facilities.

By moving as much of the building work off site as possible, programme times are reduced by around 50 per cent, site safety is improved and there is much less disruption to teaching. The latest series of contracts include a new agreement with Enfield Council to expand capacity at seven schools in the first phase. Working in partnership with Cornerstone Property Assets and contractors Kier Construction and Wilmott Dixon, £6m of orders have already been placed with Yorkon under this agreement including a two-storey building at Worcesters Primary School, a 40-module scheme at Chesterfield School, a single storey building at Highfield Primary School, a three-storey scheme at Edmonton School and an extension to the George Spicer School campus.



Following completion of a new teaching block at Trinity School – a special school in Dagenham, Barking & Dagenham Council is also working with Yorkon to deliver a number of new projects. The largest is a £4.5m contract at City Farm School. The first phase of this project is to construct a three-form entry primary school, which will initially be adopted as a secondary school for two years, accommodating 360 pupils.

Phase two will convert the building for primary children and provide additional play areas, landscaping, car parking, a multi-use games area and flood-lit football pitch. The final phase will double the size of the building in preparation for a five-form entry primary school.

Yorkon will also build a two-storey sixth form centre at Woodbrook Vale High School in Loughborough, which will free up classroom space elsewhere in the school and facilitate its expansion to include years 10 and 11. This scheme will be finished in brickwork and red render and completed to a tight programme of just 16 weeks. It is the fourth academy project Yorkon has been awarded in the Midlands.

For further information:

Email: contact@yorkon.co.uk

Call: 0845 2000 123

Visit: www.yorkon.co.uk

Portakabin wins zero waste gold award - the highest accolade for sustainable waste management

Portakabin has received the highest accolade at the Zero Waste Awards in recognition of its achievements in sustainable waste management. Portakabin was awarded a prestigious Gold Award – only the 5th time this accolade has been presented since the awards began. The awards, organised by letsrecycle.com, recognise excellence in waste prevention and re-use, recycling and energy recovery, and are open to all organisations in both the public and private sectors.

Derek Carter, Chief Executive of the Portakabin Group, said: “We are delighted to receive this award which is a fantastic testament to our staff right across the business. We have seen significant reductions in waste over the past three years as a result of our strong commitment to re-using and recycling materials, and by engineering waste-generating operations out of the manufacturing process. National recognition for this work and our achievements gives customers, staff and suppliers even greater confidence in the sustainability of our approach and accommodation solutions.” Steve Eminton, editor of letsrecycle.com, said: “These awards could not be more current in the face of

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forthcoming legislative changes. We believe they will contribute to continual improvement and will to build a community of like-minded, innovative organisations who can come together to network and share best practice in minimising impact on the environment.”



Derek Carter

The Zero Waste Gold Award was presented to Portakabin for its many recycling initiatives and achievements which include:

- Succeeding in its objective of zero waste to landfill at the York manufacturing centre a year ahead of target
- Setting up 18 different waste streams for recycling materials
- Using new materials in the manufacture of Portakabin buildings that have a recycled content of 35 per cent
- Designing out the use of painted components, reducing airborne solvent emissions by 20 per cent
- Increasing awareness among staff of the importance of recycling and waste minimisation to instil the discipline to recycle
- The recovery of extracted air from the wood working unit and its re-use for heating
- Sawdust and chippings collected and bagged for direct re-use as animal bedding and chipboard production
- Plasterboard off-cuts re-used as soil conditioner
- Cooking oil waste to fuel food delivery vehicles
- The launch of the new Energy-Saver range to enable Portakabin customers to reduce energy usage by more than 60 per cent

For further information about modular buildings for permanent and interim applications:

Email: information@portakabin.co.uk

Call: 0845 401 0010

Visit: www.portanews.co.uk

New Members

AceCad Software



AceCad Software delivers advanced software products and services for the construction and building industry. BIMProject is a powerful BIM management software for procurement and construction teams to manage the tendering and procurement cycles with contractors and suppliers, using integrated BIM design content.

About BIMProject

BIMProject is an open BIM solution, delivered in a real-time collaborative environment, and can be used in conjunction with BIM design, project management and ERP software. BIMProject sets new standards in post-design project controls, supply and cost management, to deliver projects on time, in budget and with reduced risk to stakeholders. Architects, contractors, engineers, suppliers and construction teams can all utilize BIMProject to complement traditional work processes, with high value content, through integrated BIM design import and data processing capabilities into the tendering, procurement, QS, and construction phases of the project. To find out how BIMProject can benefit your role visit www.bim-project.com.



About BIMReview

BIMReview is a collaborative Building Information Modelling (BIM) project review tool for use across the construction project. It is a low cost, feature rich tool to import BIM models and associated data from multiple CAD authoring tools to consolidate effective review and visual communication. To find out how BIMReview can benefit your projects, visit www.bim-review.com.



Richard Brotherton

For more information, please contact Managing Director Richard Brotherton on:

Email: r.brotherton@acecadsoftware.com

Call: 01332 545800

Visit: www.acecadsoftware.com

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Anua



Anua is part of Bord na Móna, a highly successful organisation with over 20 years' experience in the provision of sustainable clean air and clean water solutions.

All of our solutions are manufactured and built at our 50,000 square feet, state-of-the-art manufacturing facility in Bridgwater and are distributed to a global market.

We are specialists in providing sustainable air and water solutions to the residential, commercial, industrial and utility markets which are efficient, yet low-cost to install and maintain.



*Platinum
Sewage
Treatment
Plant -
before and
after*

Key to our success is our ability to embrace the offsite concept, as well as creating close working partnerships with our clients and delivering a synergetic approach with Totex always at the forefront of our design philosophy.

Our product portfolio and service offers flexibility from initial design through to manufacture and supply, whether the requirement is for a private system or a large scale project.

For more information, please contact Business Development Manager Mark Murphy:
Email: mark.murphy@anua.co.uk
Call: 01278 439325
Visit: www.anua.co.uk

Geraghty Taylor Architects



DESIGN FOR INTELLIGENT CONSTRUCTION		
architecture	design for manufacture	interior design
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Quality and intelligent construction is at the heart of Geraghty Taylor Architects' approach to design.

Our mission is to produce design solutions for places, products and buildings that deliver innovation from across the construction industry.

Geraghty Taylor Architects will work with you to develop 'designed for manufacture' solutions that meet social, environmental and market expectations.



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w | www.gtarchitects.co.uk

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Sir Robert McAlpine Ltd



Sir Robert McAlpine Ltd is a leading UK building and civil engineering company. A family-owned business with a proud record of achievement accumulated over more than 140 years, the company's pioneering approach to construction and commitment to service have ensured its continued position at the forefront of the industry.

We work in partnership with clients, tailoring our extensive design, construction, technical and management capabilities to meet their evolving needs.

With a stable presence across all the major UK construction market sectors, one of our main strengths is the ability to manage large and complex multi-discipline contracts.

The company employs 1,500 staff with offices in Glasgow, Edinburgh, Newcastle, Leeds, Manchester, Birmingham, Hemel Hempstead, Bristol, Cardiff and London.

Recent projects include the Olympic Stadium, the O2 Arena, the M74 Completion, Exeter Forum, Manchester Metropolitan University's Business School and Student Hub, and De Vere Gardens in Kensington.

Our ongoing success is underpinned by our corporate stability, the quality and expertise of our staff, a collaborative approach to business and our skill at providing sustainable and cost-effective solutions to construction challenges.

For more information, please contact Project Manager Lee Hawkins:

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