



Annual Review 2019

Director's Message



British Precast helps members by promoting the use of British made precast concrete. We support members in raising the bar of the industry thereby raising their own reputation. We protect the interests of members in technical standards and industry guidance. We deliver information and support to members operating their businesses. This annual review provides an overview of this activity which is undertaken with the support of members and in collaboration with partner bodies.

Although it is impossible to see into the future, I predict that 2019 will be remembered for Brexit. However, whatever the political landscape, the UK precast sector and the broader construction sector will continue to evolve. The short-listed entrants to our Best Practice awards, which are published in this review, showcase examples of investments made by members to improve their processes and products. In the project category we can appreciate how precast concrete products are helping clients to achieve their development ambitions.

As a trade association we have made progress in the last twelve months on matters of collective interest. These interests are grouped under the headings of Health and Safety, Sustainability, Technical and Marketing, and in the space available in this review, a flavour of our output is presented.

For interests that are specific to certain precast products, such as standards, we have our product groups and for interests that are common to all precast concrete, such as CE marking and standards for constituent materials, we have British Precast. Working with MPA, British Precast also covers end-use design, concrete performance and sustainability. British Precast is a dynamic and active player in the MPA family, which champions the benefits of concrete and our products to the wider industry and government. The views of British Precast and its members add real value to the development of the industry and relationships with key stakeholders.

All of this activity benefits from the input of our members, without whom we could not operate so effectively. On behalf of all the British Precast team we thank members for their input and look forward to working with you in the coming year.

On a personal note this is my first year as Director of British Precast. I hope to welcome many of you to our 2019 dinner. It will be an evening to catch up with old friends, hopefully make some new ones, and (dare I say it) discuss Brexit into the early hours.

Nick Gorst
Director | British Precast

Contents

Health & Safety	1	Outstanding Contribution to Health & Safety	13
Sustainability	3	Product Associations	14
H & S Charter and Sustainability Charter	4	British Precast Architectural & Structural	14
Technical	5	British Precast Drainage Association	15
Environmental Product Declarations (EPDs)	5	Aircrete Products Association & Concrete Block Association	16
Marketing	6	Interpave & Precast Flooring Federation	17
Best Practice Awards 2019	8	Affiliates	18
Project Award Shortlist	8	Interlay	18
Innovation Award Shortlist	10	Modern Masonry	19
Digital Transformation Award Shortlist	11	Mineral Products Association, BIBM, CPA	20
Health & Safety > 250 Employees Award Shortlist	12	Full & Associate Members	21
Health & Safety < 250 Employees Award Shortlist	12		

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Health & Safety

The importance of this topic to British Precast is made clear by it being a condition of membership to be a signatory to the Health and Safety Charter. It is part of our overarching “Raising the Bar” philosophy which seeks to encourage and enable best practice in precast concrete manufacturing.

To achieve best practice there are many initiatives that have been progressed in the last year under the oversight of the British Precast Health and Safety Steering Group. All members are welcome to attend or be corresponding participants of this group. We are grateful for the Health and Safety Executive's ongoing contribution to the meetings of the H&S Steering Group.

Since the introduction of new sentencing guidelines UK industry has seen a significant increase in the size of fines following successful prosecutions under the Health & Safety at Work etc Act. It is evident that involvement in a trade association's health and safety scheme is a good start in minimising any fines to which a manufacturer might be subject.

SAFER BY SHARING

Members are encouraged to share their own initiatives as well as incidents and near misses to promote collective learning. This sharing occurs at meetings of the Health and Safety Steering Group, product associations and annual awards. Use is also made of incident alerts which anonymously report incidents, including near misses, and the corresponding key learnings. These incident alerts are available through safeprecast.com, the British Precast website and British Precast newsletters.

SAFETY AND HEALTH AWARENESS DAYS (SHADs)

Recent site-based SHAD days for operatives and supervisors were hosted by FP McCann (March 2016) and Forterra (March 2017). We welcomed over 100 delegates to each of these events where groups of twenty participated in activities at five different stations. We are grateful to FP McCann and Forterra for hosting these events and running many of the training activities. This year we plan to run the Operative SHAD in the second half of the year with a focus on the MPA's 'Fatal 6'.

Leadership SHADs are also held in the second half of the year. The majority of members send senior representatives to this event to obtain the latest updates from industry and the HSE. The focus of the most recent Leadership SHAD was the movement and storage of goods on site together with the safe transportation of goods.

SAFER BY COMPETENCE

The HSE has made clear that a competent workforce is a safe workforce and British Precast has an initiative called 'Safer by Competence'. Competency is not achieved only through training, and in fact might not require any training whatsoever. Competency is understanding and application of knowledge. The Safer by Competence scheme is about employers having a competent workforce and being able to demonstrate this. We are working with external training providers and providers of competency assessors to increase provision.

RESPIRABLE CRYSTALLINE SILICA

Respirable Crystalline Silica (RCS) is the subject of the European wide NePSi work which British Precast administers on behalf of members. In early 2020 British Precast will oversee the two-yearly NePSi reporting process. Information about the control of dust and RCS can be found at safeprecast.com.



Health and Safety Continued...

SAFE TRANSPORT

Guidance on safe transport has been developed over recent years with us serving members' interests on the Building Products Delivery Working Group (BPDWG) whose guidance for palletised products was approved in December 2016. The format of this guidance is simple and pictorial. During 2016 MPA produced a Driver's Handbook, which is a very detailed and comprehensive document. British Precast is now looking to develop guidance on the safe transport of non-palletised products, such as drainage products, flooring and stairs in collaboration with BPDWG.

CODES OF PRACTICE

Stressing: All members of the Precast Flooring Federation (PFF) are required to have an annual audit for compliance with our stressing Code of Practice at each factory with stressing operations. A significant improvement in practice and operations has been observed. The PFF in conjunction with other stakeholders is currently revising the British Precast Code of Practice for safe stressing and hopes to publish a revised document during 2019.

Installation: The PFF completed the revision of its installation code of practice during 2017 and is now promoting the publication. In addition, a new audit protocol has been devised so that PFF members who install flooring can be assessed for compliance against the updated code of practice. BPAS is currently authoring an equivalent document.

Process: Precast/Cast Stone has particular production processes and these will be addressed in a new code of practice currently being authored.

CHARGE – HSE COMMITTEE FOR MANUFACTURING SECTORS INCLUDING GLASS, CERAMICS AND CONCRETE

The HSE CHARGE strategy for the manufacturing sector of which we are a part, includes statistical data collection, sharing of incidents and the concept of Safer by Sharing. The only one of these not covered above is statistical data. Our statistical data collection for 2018 shows a fall in the 12-month rolling LTIFR over a 5-year period from slightly over 12 to less than 6 across all of British Precast.

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Sustainability

A new look Precast Sustainability Charter and KPI Scheme is being prepared for a 2020 launch.

Since the Precast Sustainability Charter was first launched in 2007, member companies have been able to reduce their environmental impacts significantly. In the last 12 years, manufacturing carbon emissions fell by 28 per cent, mains water consumption was reduced by 30 per cent, and factory waste sent to landfill declined by well over 96 per cent. Over 65 per cent of our sector's production tonnage is now covered by accurate, third-party verified Environmental Product Declarations (EPDs) and Carbon Footprints. Over three quarters of precast concrete produced by members of the Charter Scheme is now responsibly sourced and certified to BES 6001. We are making progress with all our 2020 targets and, in 2017, already achieved two of those targets: 90% of precast production is now covered by processes compliant to ISO 9001 and ISO 14001 (quality & environmental management systems) and waste sent to landfill has fallen well below the 0.5 kg/tonne target.

Our annual environmental auditing of members' manufacturing sites is providing real value. Based on the feedback we received in these audits, a one day environmental legislation course was organised last year for member company HSEQ managers. Feedback from the audits was also used in preparing a number of internal guidance and protocol documents designed specifically to help all precast manufacturers

achieve best practice: two guidance documents on waste legislation and management of recycled concrete waste will be made available to all member companies in the first half of 2019. A customised precast Emergency and Preparedness Protocol and an updated Sector Water Policy will also be published later this year. British Precast also continues to issue quarterly sustainability & environmental legislation briefings to member companies.

British Precast is also engaged in a number of industry initiatives and projects to ensure that our sector continues to lead on sustainable construction:

- We continue to be fully involved in the development of EN 15804 and EN 15978. These two standards are essential for the precast industry as many tools and initiatives (EPDs, RIBA/ RICS Whole Life Carbon Statement, BREEAM, CEEQUAL, etc.) are directly affected by them.
- We are also monitoring several initiatives, including UK GBC's 'Zero Carbon definition and circular economy' initiatives, GCB's definition of 'zero avoidable waste', the imminent revision of BES 6001 and Government plans for a new low-carbon standard for new homes.
- British Precast, and The Concrete Centre, will also continue to respond to and challenge misleading and inaccurate statements, relating to the environmental performance of concrete and other construction materials, in industry media and trade press.

SUSTAINABLE CONCRETE STRATEGY BEYOND 2020

The Precast Sustainability Charter is part of a wider Sustainable Concrete Strategy initiative which is currently undergoing a review prior to re-launch in 2020. This year, we will work on new objectives and targets beyond 2020. We plan to incorporate a wide range of social and ethical indicators into our Charter, addressing pressing issues such as modern slavery, gender & age inequality, and corporate social responsibility (CSR) policies. Our current Resource Efficiency Action Plan (REAP) is also being updated to enable the wider construction industry to address the need for a Circular Economy. Links to established, and internationally recognised, reporting frameworks and targets, such as Global Reporting Initiative (GRI) and UN Sustainable Development Goals (SDG), are also being explored. We hope to involve all our members in this process throughout the next 12 months and will also consult with a number of contractors, developers and other supply chain partners through the Sustainable Concrete Forum (SCF) and the REAP.



Health & Safety Charter

All members of British Precast are signatories of our Health & Safety Charter. Members pledge to reduce accidents, both in terms of number and severity, to improve the overall health and safety of all those involved in our industry and to work towards the long-term aim of causing zero harm.

Charter commitments include:

- An expectation of 'ZERO HARM' to all.
- Continuous improvement in accident severity ratio.
- Development, implementation or maintenance of a strategy for Health and Safety initiatives and related training, and to manage our Health and Safety needs with competent staff appropriate to the needs of the organisation.
- Implementation of maintenance of structured, inclusive Health and Safety meetings, with effective and appropriate consultation in line with our organisational needs.
- Submission of quarterly statistics to British Precast.



Our procurement guide promotes the benefits of using British Precast members as suppliers, and this includes the important role of our Charter schemes.

Sustainability Charter

The British Precast Sustainability Charter is a mandatory requirement of membership of British Precast. Member companies of British Precast commit to go beyond legislation and take voluntary actions to make their products and operations more sustainable.

A set of sustainability principles has been developed based on the key sustainability issues facing the precast industry. Member companies' sites are audited annually to ensure that all the principles are being adhered to.

The scheme was first launched in 2007 with 17 companies taking part. The number of companies participating continued to grow until 2014 when the Charter and Auditing programme became a mandatory requirement of British Precast membership as part of British Precast's Raising the Bar initiative.

Signatories of the Sustainability Charter commit to the following principles:

- Develop products that improve the quality and sustainability of the built environment.
- Measure, report and improve performance on sustainability issues.
- Manage all waste streams effectively and minimise waste disposal to landfill.
- Minimise pollution and emissions associated with production and production and transportation.
- Use energy more efficiently and minimise demand on mains water supplies.

- Use primary materials more efficiently and promote the use of secondary materials.
- Use water more efficiently and minimise demand on mains water supplies.
- Operate in a responsible manner to protect employees, contractors and visitors.
- Operate in an efficient and financially sustainable manner without comprising legal, quality or sustainability principles.
- Operate to the highest ethical standards necessary to develop a skilled and competent workforce.
- Operate to the highest quality standards necessary to satisfy customers and consumers.
- Protect and enhance the natural environment adjacent to or satisfy customers and consumers.
- Liaise effectively with local communities to foster mutual understanding and respect.
- Recognise that competition encourages the development of more sustainable products and practices.
- Work constructively with other organisations to deliver sustainable policies and practices.

Technical

British Precast is the recognised trade association representing the precast concrete product manufacturing industry in the UK. We maintain a unique position representing our members and their interests on a wide range of committees, working groups and input to consultations, as well as placing members' representatives into committees and work groups where important collaborative technical and standards' development work can be undertaken.

With the continuing uncertainty that surrounded leaving the European Union, our links with BIBM, the Europe-wide Trade Association for precast concrete, and the work through British Standards mirror committees feeding into European standards' committees strengthens our ability to influence changes to both European and British standards, as well as keeping members informed of the developing situation and providing updates on proposed regulations.

Technical work on product groups and industry sectors are directly addressed by their product associations, with overarching issues for all precast concrete product production such as the impact of standards for constituent materials being dealt with by British Precast. This work mainly revolves round British and European standards and building regulations – all of which British Precast is a stakeholder in by mandate.

We supported our members over the past year developing product specific generic Environmental Product Declarations Standards (EPDs), an area which will heavily impact on the future environmental competitiveness of our products.

British Precast continue to support our members by responding to technical enquiries and maintaining an understanding of competitor materials' offerings to enable appropriate responses such as government lobbying, influencing standards' committees or by targeted marketing. Our work in this area is further enhanced by ensuring our work dovetails with that of The Concrete Centre on concrete performance and design, with the Mineral Products Association on constituent materials and with the Construction Products Association for changes to building regulations to ensure members are fully represented at all key stages in supply chain specification.

Technical input to standards and regulations continue to feature heavily in the near future particularly as the UK exits the European Union, with additional requirements to standards resulting from European Commission instructions on Regulated Dangerous Substances (RDS) as well as Environmental and Sustainability specific changes expected and the implementation of new and amended UK Regulations. These changes will need to be communicated to members and their direct and indirect customers and member involvement will ensure changes are accommodated at the appropriate time.

We thank all our members who have helped with our technical work over the past year and for their continued support.

Environmental Product Declarations (EPDs)

British Precast has developed a set of Environmental Product Declarations (EPDs) to the recognised EN 15804 standard for a range of precast products. These generic product EPDs include aggregate and aircrete blocks, concrete pipes, single-leaf cladding, ground beams, hollowcore flooring and paving products. 2019 will see British Precast publish additional EPDs for products such as T-Beams, brick faced cladding, crosswall and a range of different density aggregate blocks.

It is also important that members are aware of the opportunities to produce company specific EPDs and PAS2050 declarations to capitalise on access to British Precast's streamlined concrete specific, third party verified EPD tool.



Marketing

The marketing activity of British Precast dovetails with that of The Concrete Centre and the product groups and affiliates, whose activity is also explained in this Annual Review. Within this community, the primary role of British Precast is to promote the reasons to choose British Precast members as suppliers.

The excellent performances in health and safety, sustainability and technical matters are all presented as being fundamental benefits that our clients reap from choosing British Precast members. We use our Health and Safety charter and Sustainability charter to help communicate the efforts and credentials of our members. Our annual supplement in Construction News, most recently published in March 2019, was titled "Fit for the Future" and communicated how collectively and as companies this is being achieved. This included a hardcopy version of our buyers guide that provides a route for potential customers to find members. Our Annual Awards provide a showcase of best practice from our members across five categories – health and safety, sustainability, innovation, digital transformation and projects. We also present our annual Creativity in Concrete Award to raise the profile of British Precast and its members to specifiers – both engineers and architects.

British Precast are also championing the following initiatives:

Promoting precast as a means of mitigating the risks of offsite construction is a campaign launched in 2016. This has also been communicated at various events through The Concrete Centre. It is a nuanced campaign. It does not simply promote offsite construction and promote precast as the best option but rather highlights how precast is the best option if you want to go offsite, by demonstrating the risks of timber and steel solutions. It therefore also implicitly, and perhaps overtly, promotes traditional masonry construction over timber.

Promoting the benefits of precast concrete and masonry as a resilient, long lasting, local and low carbon product.

The main vehicles for doing this are The Concrete Centre, Modern Masonry and our product associations, but British Precast also directly communicates these messages. In raising the profile of British Precast and these messages, the This is Concrete campaign has also been used in a case study focussed advertising campaign with British Precast branding.

Promoting "Buy British Precast" to protect our members from alternative materials that are imported as products or made from imported constituents, such as timber, steel and plastic drainage products made from imported resin.



British Precast Construction News Supplement, 2019.



British Precast was delighted to present Robert Bray with the 2018 Creativity in Concrete Award, in recognition of his innovative work combining SuDS with hard landscape.

Annually, we hold the following major events:

- **PRECAST2019 – 16th May 2019**
A full day exhibition giving suppliers to the industry a fantastic chance to market their products and services to manufacturers, and for manufacturers to get key briefings and supplier updates.
- **CONSTRUCTION INDUSTRY GOLF DAY – 12th June 2019**
Open to all within the construction industry, this event, hosted by British Precast in aid of CRASH, offers a great opportunity to entertain and to communicate to these clients the benefits of choosing our members as their suppliers.
- **ANNUAL DINNER – 27th June 2019**
A black tie event offering the opportunity to network and celebrate the success of the industry. Our Best Practice Award winners are announced during the evening.

For further information please visit our website
www.britishprecast.org

Eliminating risks of offsite construction



Overcoming Risks

Adopting offsite exposes designers and clients to risk.
Precast concrete overcomes these concerns.

Precast concrete is a local product with strong sustainability and performance credentials backed up by many years of experience. Typical risks of offsite construction are addressed.

Product Standards

Precast concrete has long established standards for products through BSI and many of these are harmonised across Europe through CEN. Therefore many precast products are CE marked as normal practice. This enables designers and project teams to specify their offsite products with greater confidence.

Design Codes

The Eurocode suite of design codes by CEN with UK National Annexes by BSI, have now replaced the British codes. Designers can use these Eurocodes with offsite precast products.

A Robust Supply Chain

The membership of British Precast is extensive with many members producing a wide range of products. This is beneficial at tender stage and reassuring so that the project is not reliant on any one possible supplier.

Local Supply

The majority of precast used in the UK is made in the UK from materials sourced in the UK. This

reduces the risk to exchange rate fluctuation, transport problems, communication problems and difficulties in inspecting products prior to leaving the factory.

A Responsible Supply Chain

With the BRE BES 6001 scheme, the British Precast Charters for Sustainability and Health and Safety, clients can fully address risk by choosing from the British Precast supply chain, with members providing responsibly sourced products.

Durability/Robustness During Construction

Concrete does not require the same protection from weather and impacts as lightweight solutions do. It is a durable and robust solution.

Longevity During Operation

The precast concrete properties of durability and robustness also deliver a low maintenance long lasting offsite solution reducing risks during operation.

Fire Resistance During Construction

The HSE view is clear - timber frame solutions pose higher risks and the HSE advises that there is a duty of care to reduce risk through design. This can most effectively be done by choosing concrete and avoiding unnecessary fire load.

Fire Resistance During Occupation

Government statistics state timber frame solutions have a higher risk of more extensive fires. Non-combustible solutions reduce these risks.

Overheating Resilience

Responsible developers and informed building owners such as Housing Associations are increasingly aware of the major risk of future overheating. With the right design the inherent thermal mass of precast concrete is ideally suited to absorb heat to reduce peak temperatures.

Addressing Long Lead-in Periods

Offsite solutions have the disadvantage of requiring a longer lead in period. During this lead in period, onsite insitu concrete works can be carried out; for example, foundations and the ground floor. Insitu concrete and precast concrete can be designed and constructed together seamlessly: same design codes, same material properties and same jointing principles.

Non-Repetitive Elements

With precast concrete offsite solutions, the one-offs can be cost effectively created with onsite insitu concrete as it is wholly compatible.

2019 Awards

Project Award: 2019 Shortlist

The seven shortlisted entries are:

1 Cornish Concrete Products – Neptune Wharf, Project Lanterna

Neptune Wharf is a striking black concrete clad building in a mixed-use development at Fish Island, Hackney Wick. The concrete's colour was achieved using fine and coarse black basalt aggregate and a black powder dye in the mix. Full 3D-modelling of the façade ensured the intricate herringbone pattern was aligned across panels guaranteeing that the architect's design intent was not lost in the panelisation of the structure.

2 Cornish Concrete Products – New UCL Student Centre

The main internal feature of the building is a large central atrium which takes advantage of all the inherent thermal mass of concrete. Cornish Concrete Products supplied giant stringer beams, to the project, forming the external envelope of the central staircase. The front façade comprises acid-etched columns and spandrel panels along with three storey, 12.5metre high, precast brick faced columns set with handmade Petersen Kolomba bricks.

3 Creagh Concrete Products – Arena Central

Arena Central is a two-block, 40 million pound, 323-apartment build-to-rent residential scheme. Dandara Living turned to Creagh Concrete to use their innovative offsite fastrack build system 'Rapidres' for the build. The frame consists of exposed aggregate external sandwich panels, crosswalls, staircores and hollowcore flooring. Creagh maximised the size of components to reduce the number of lifts and to help with the overall construction programme.

4 Decomo UK – BBC Wales Headquarters

The BBC Wales Headquarters project brings together a wide variety of studio, administration and support spaces in a single building. Precast concrete is utilised for the Wood Street and Marland Street elevations. Precast panels were chosen due to their ability to be cast in large single span units and allowed the design team flexibility on complex geometry such as curved panels with the BBC corner panel measuring 3775mm by 7285mm.

5 Decomo UK – 119 Farringdon Road

119 Farringdon Road is a high-profile scheme once home to one of the UK's leading daily newspapers. The scheme was designed as a multi-use space of offices, affordable workspace, hospitality and retail. The design of the precast elements was a combined acid-etched and brick-faced scheme which involved several brick types to create a contrasting façade. The precast solution also provided McLaren, the main contractor on the project, with the opportunity to achieve a programme that simply would not have been possible utilising traditional handset brickwork.

6 Decomo UK – One the Square

One the Square is a six-storey building providing 129,295 net sq ft of Grade A office accommodation. The scheme comprises a high-performance façade in order to reduce carbon dioxide emissions throughout the life of the building. Precast stone was chosen due to its versatility to create the façade profiles and detailing in the design which gave the building a natural, solid look. Anti-graffiti protection is applied to all the ground pieces to enhance the materials durability against vandalism in high-impact areas.

7 Thorp Precast – Buckingham Green

Buckingham Green is a remodelling of a central Westminster retail and office space. Thorp Precast supplied 315 precast panels for main contractor BAM on Block B. The unique projecting diamond-pattern brick-faced precast panels were primarily a traditional construction of spandrels and mullions fixing to the steel frame. Thorp Precast also supplied parapet panels at roof levels, internal panels, loggia and balcony areas manufactured using Ultra High-Performance Concrete (UHPC).

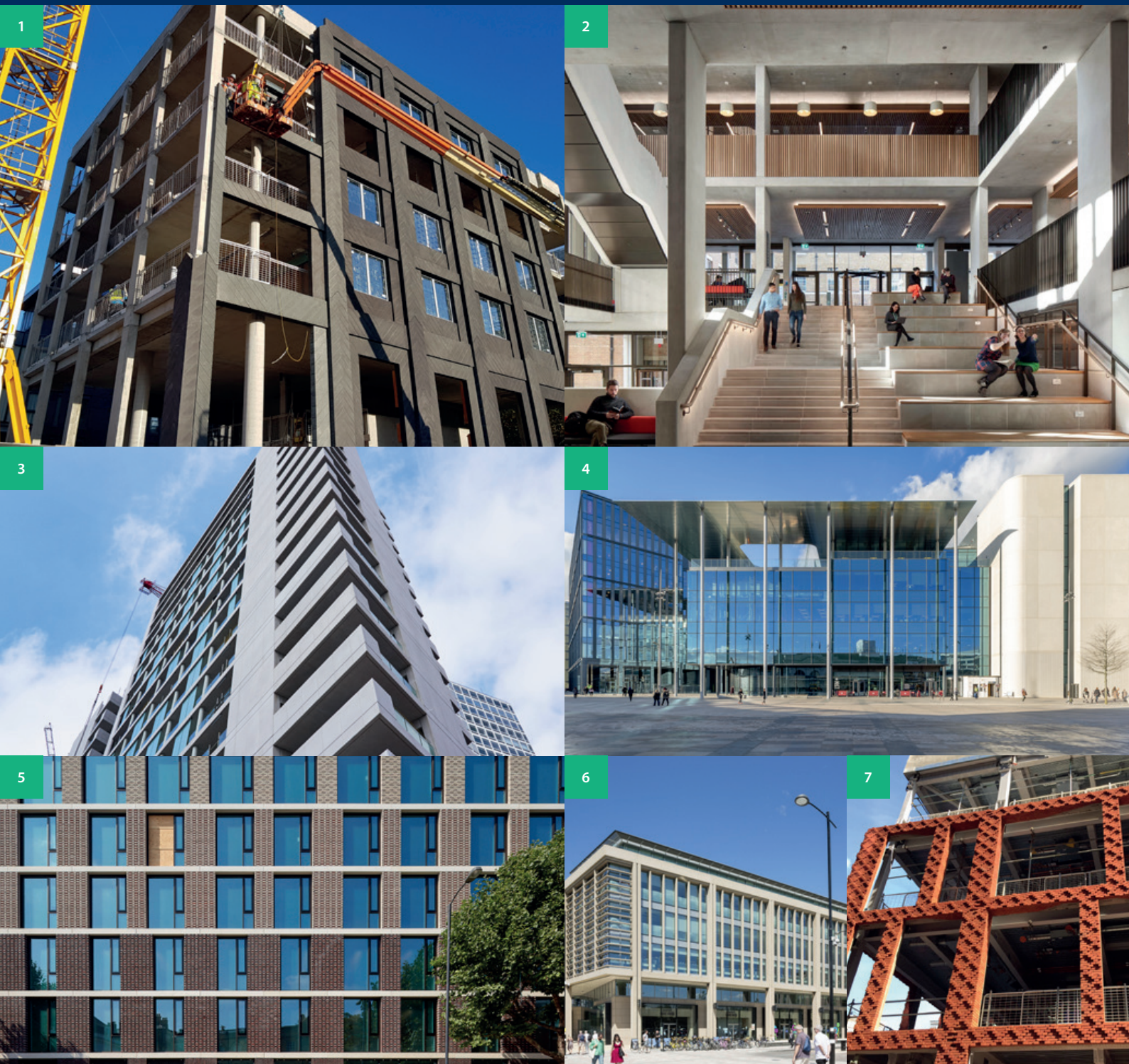


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UK CARES

Precast concrete is being used in some of the nation's most impressive infrastructure projects, as well as in some of the country's most innovative and sustainable residential and commercial buildings.

This is demonstrated in the shortlist for the 2019 Project Award, sponsored by UK CARES.

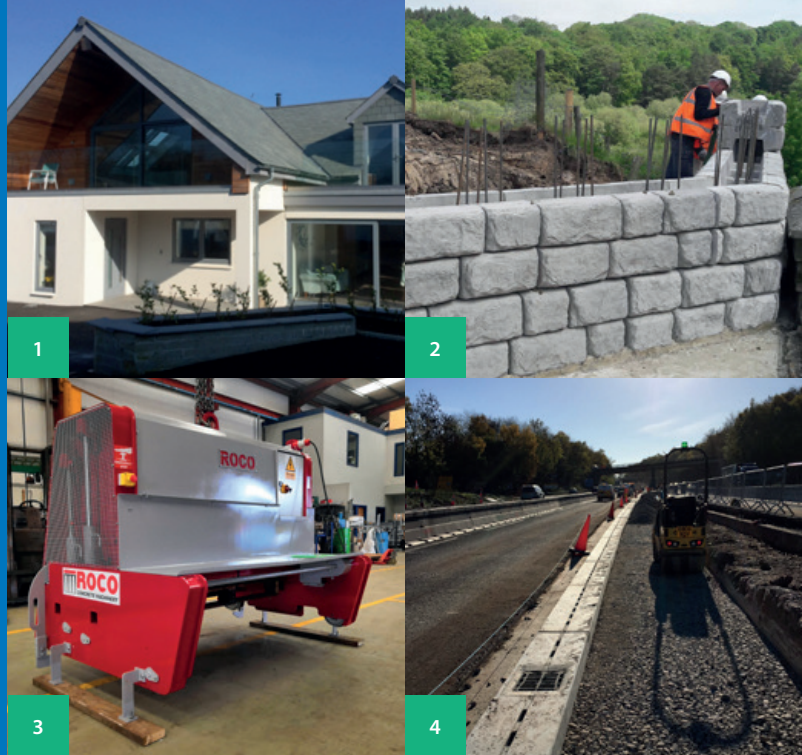
The seven shortlisted entries demonstrate how the products and expertise of British Precast members have been instrumental in delivering, and exceeding, the brief detailed by their client.



Innovation Award: 2019 shortlist

The construction industry is undergoing a technological and digital revolution which will improve the productivity of the sector. This kind of change is fuelled by innovation, and it is important that we celebrate this within our sector to inspire others.

The short-listed entries for the 2019 Innovation Best Practice Award, sponsored by Chryso UK, include innovations in: housing delivery, flood protection, production machinery and highways construction.



The four shortlisted entries are:

1 Cornish Concrete – House in 2 days

The structural frame of a four bedroom detached property was installed in a mere two days by Cornish Concrete. The frame was built using conventional crosswall construction techniques and ‘Slim Crete’ technology for a thinner more cost-effective solution. Structural skin depth of 100mm instead of the 150mm normally associated with crosswall construction generates increased floor area as well as inherently great thermal and acoustic performance.

2 Marshalls CPM – Redi-Rock Flood Walls

Redi-Rock Flood Walls are an engineered watertight structure which gives flexibility in design and is double sided, so looks great from any angle. While traditional flood barriers have their place in the market, they have height restrictions and do not fit in with their surroundings, whereas Redi-Rock Walls quickly become part of the local environment. The individual Redi-Rock blocks are nearly indistinguishable and therefore give the impression of a natural, random stone wall that protects from flooding.

3 ROCO Concrete Machinery – T-Beam Lifter / Demoulder

Often, precast elements such as T-beams are lifted from moulds by hand or with equipment not designed for the task. Lifting and movement of elements in this fashion poses many risks. The T-Beam Lifter / Demoulder runs directly on the mould, lifting elements by hooking under the prestress wires, with different attachments for different wire patterns. Deployment of the Demoulder means that risks around incorrect lifting procedures are minimised.

4 Stanton Bonna – M6 Smart Motorway Construction

Stanton Bonna’s Aqua Slot Drain system was developed as a precast solution to overcome issues created when using a cast in situ alternative. The trapezoidal shape allows larger pieces of detritus to be pulled into the channel and creates excellent flow characteristics. In a live highway environment where in situ concrete use can be delayed by the weather, the Aqua Slot Drain units can be laid out in advance and installed by a small team in most weather conditions. The rapid installation of the system can achieve in excess of 150m per day per three-person gang.

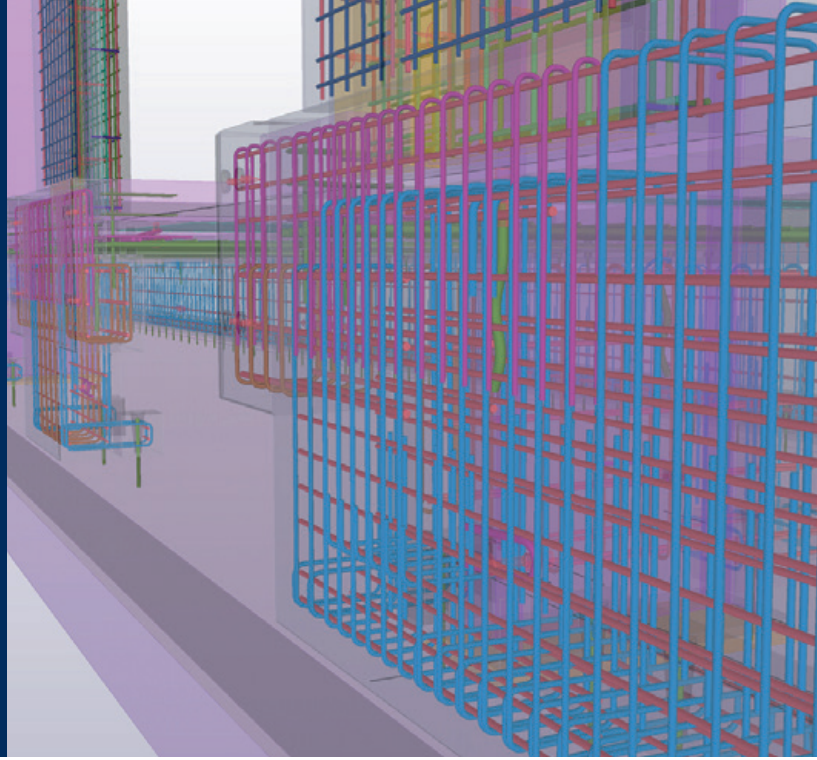


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Digital Transformation Award: 2019 shortlist

This award, new for 2019, recognises projects that involve outstanding digital transformation from business processes and digital automation in production to digital design and Building Information Modelling (BIM).

The importance of digitalisation in the construction sector should not be underestimated and the precast sector is a part of the supply chain that can add real value through digital design and factory production. The inaugural shortlist includes delivery to BIM level 2, digitalisation of a range of business and design systems as well as state of the art robotics.



The six shortlisted entries are:

1 FP McCann – Embracing Digital Technologies

FP McCann's integration of design software alongside Tekla BIM has provided much-improved internal processes, resulting in a 'complete' data flow from design to manufacturing. As a Tier 2 Supplier, FP McCann has recognised the drivers and its responsibilities for meeting and exceeding BIM Level 2 criteria. On the back of the improvements, FP McCann completed their first Level 2 BIM project on a distribution hub in Daventry. Here they were able to accelerate the design and manufacturing process for bespoke precast concrete units.

2 Litecast – From Excel to Elsie

Recognising their need to digitalise, Litecast commissioned Elsie which is a bespoke software package developed by Techtoniq Ltd. Elsie is a ground up, business-wide technology system, which has enabled Litecast to successfully cross the digital divide, transforming their business processes. Elsie has retired historical Excel worksheets and Auto Cad technologies to make way for integrated web-based applications with the incorporation of automated Revit software.

3 Quinn Building Products – Quinn Safety Hub

Quinn Safety Hub is a new state of the art digital health and safety management solution. The system provides a cloud-based, centralised health and safety management solution for all of Quinn Precast's operations. The project required significant financial and resource investment, collaboration with stakeholders in other Quinn divisions, and involvement of many external contractors.

4 Simply Precast Accessories – Simply Certificates

Simply Certificates is an online portal which allows customers to access and store their Certificates of Thorough Inspection. Certificates of Thorough Inspection are required for all lifting devices, such as pin anchor shackles and threaded lifting loops. Normally, when a shipment of said items is delivered to a customer, these certificates are emailed at the same time. There are several inefficiencies with this method, and customers often struggle to store and keep track of the certificates. The Simply Certificates system streamlines the process, providing all this information in an online portal.

5 Stanton Bonna – Automated Cutting Robot

Faced with a process involving long production lead times for its innovative manhole base, Stanton Bonna invested in a digital technology solution that facilitated a transformation in process, design, speed and quality to meet individual customer needs. Using state of the art technology, Stanton Bonna's Poly Robot ensures the base channel design and pipe entry positions are honed to a precise poly former profile in around 45 minutes. This process used to take between five and seven days from external suppliers. Upon receiving customer details about the required manhole base, the software creates automated instructions for the milling robot.

6 Stanton Bonna – Project Data Management

Stanton Bonna recognised a need for a transparent, audited, single system to communicate their technical documentation throughout the business. This ensures that accurate, reliable, and up to date information is collated. The software provides a complete digital audit trail of every document "version" and the history of who did what at each stage of the workflow, negating the need for files to be saved as a marked-up revision.



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Trimble Solutions

Health & Safety Award

>250 employees Award: 2019 shortlist

1 Aggregate Industries – Suppressing the Enemy

Aggregate Industries identified several parts of their block manufacturing process, principally the Block Rumbler, that generated silica dust. Through collaboration across the group a mist air system was trialled. The system uses a very small amount of clean potable water which is then turned into a dry fog, capturing airborne dust particles. The system resulted in significant reductions in dust exposure for operators of the Block Rumbler to well below the workplace exposure limits.

2 Bison Precast: a Forterra Brand – HAVWEAR Implementation

Many vibratory tools are in use on site at Bison Precast, and with only paper logging of tool time as a control measure. The solution for Bison was to invest in a highly sophisticated piece of technology, HAVWEAR, that enabled a reduction in vibration exposure. The tech is very user friendly, easy to wear and doesn't get in the way of the task being performed.

3 Bison Precast: a Forterra Brand – Tilt Table Safety Improvements

Tilt Table Safety Improvements at Bison's Somercotes facility meant that several access and enclosure issues needed to be addressed. The measures installed include secure and adequate leading-edge protection, a walkway gantry and safe access steps. The project also includes allowing safe trailer access to the roller shutter door near the tilt tables.

4 Creagh Concrete Products – Safe Erection of Precast Panels

Creagh Concrete identified that due to transportation/haulage restrictions large precast panels must be delivered in the horizontal orientation. This involves an unnecessary operation and working at heights where the panels require the attachment of lifting accessories. To do this requires someone to operate a MEWP. To devise a new mechanical solution to this, an internal multidisciplinary team was established which included design engineers, the health and safety department, potential operators and project managers. The resulting vertical pitching table means that the operative can complete the pitching process from a safe distance outside the exclusion zone.

5 FP McCann – LEV Upgrade Employee Safety

FP McCann embarked on a project to upgrade their Local Exhaust Ventilation (LEV) systems at two of their manufacturing facilities. The project saw the installation of an upgraded Air Plants filter system which allowed enhanced LEV linked to their Rip Saw, U & O Planer, Band Saws, Sanding Wheels and X Cut Saw. The £20,000 upgrade will prevent all employees working in the area from being exposed to airborne dust when the equipment is being operated in the wood shops.

6 Marshalls – Mortar POD Truck Cleaning Project

Marshalls looked for a safe and efficient way to clean the interior of the Mortar POD truck delivery vehicles. Preventative cleaning using high pressure water hoses to remove "splattered" mortar from the compartment walls post filling eliminated the need for percussive cleaning and physical access. In the event of a need to enter the vehicles, employees will have use of a Davit Arm and rescue system. Confined space training was also carried out at key sites.

<250 employees Award: 2019 shortlist

1 Brilliant Ideas – The Safety Net Rescue System

After a tragedy on a construction site, Brilliant Ideas recognised a very serious deficiency in site safety plans relating to safety nets. If someone has fallen into a safety net and is unable to retrieve themselves, then recovery from the safety net is a slow, perilous procedure. Brilliant Ideas' system includes a lightweight inflatable airbag which can inflate to a recovery height of two and a half metres in less than two minutes.

2 Quinn Precast – Bed Saw Health and Safety Enhancement Project

Quinn Precast identified a range of risks including potential exposure to noise levels up to 100 dB, water mist/dust containing Respirable Crystalline Silica (as well as possible exposure to moving blades and other risks associated with contact with moving machinery). Having identified these risks, Quinn made several improvements, including a fully-enclosed safety cab to house the saw operator. The operator cabin isolates the operator from both physical injury and health risks associated with noise and RCS.

3 ROCO Concrete Machinery – T-Beam/Lintel Wire Cutter

The cutting of products and prestressed wires using angle grinders or plasma cutters creates a dusty, often hazardous working environment. The T-Beam/Lintel Wire Cutter has been developed by ROCO Machinery to eliminate the risks around exposure to blades or plasma cutters along with dust and the potential for long-term respiratory, noise and vibration problems that accompany them.

4 Stanton Bonna – New RAPID Batching Plant and Concrete Delivery System. Total Access / Egress & Access Safety Feature

After identifying health and safety concerns as part of their existing 'WINGLET' Large Diameter (LDP) batching plant, Stanton Bonna set about designing a new batching plant that designed out risks such as access to the mixers and working from height. Any access to machinery is now via interlocking gates, while vertical ladders have been replaced with stairs with landings. The new batching plant provides a safer, more efficient environment for employees.

5 Stanton Bonna – 'Gully Grab' Lifting Accessory

Prior to the creation of Stanton Bonna's 'Gully Grab' lifting accessory, the methods for offloading gullies carried significant risks such as working at height, manual handling of heavy objects and the interaction between pedestrians and vehicles. The gully grab combined with the gull hook gives a safer, often much quicker, concrete road gully handling solution from offloading to installation.

2018 Award Winners

Outstanding Contribution to Health and Safety

This award is presented to individuals or teams and recognises leadership, special efforts, or significant contributions to improvements in health and safety in the business or along the supply chain.

Andy Smith – Brett Landscaping

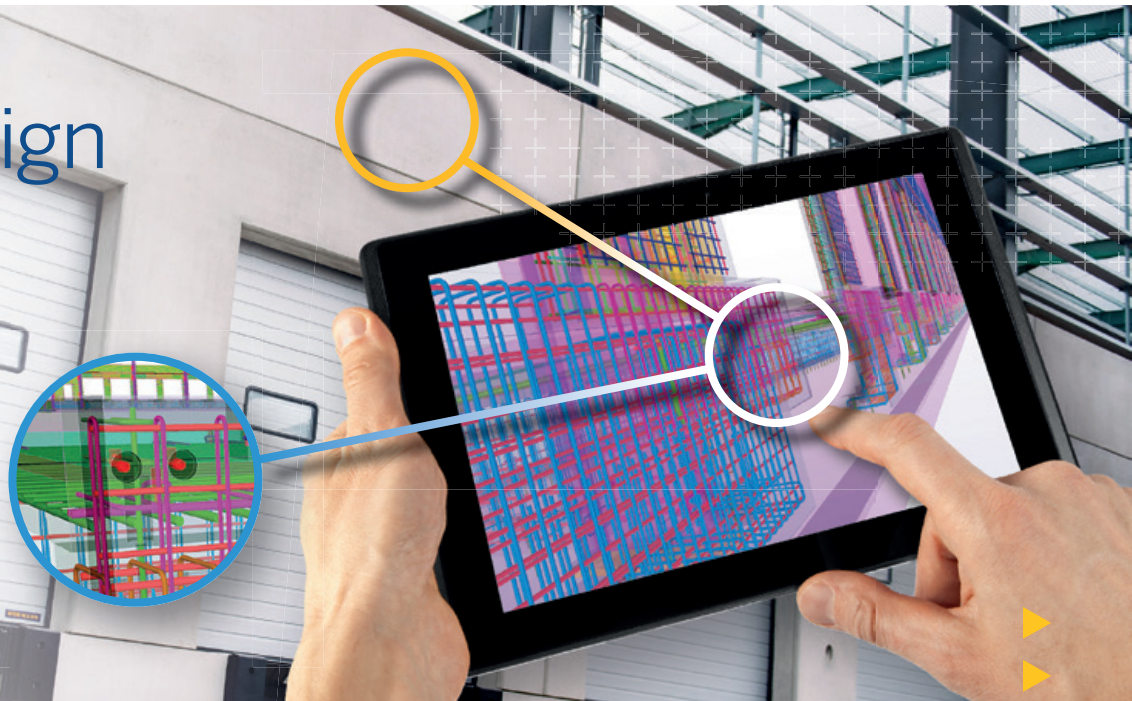
Andy Smith was a mature apprentice at Brett Landscaping and Building Products. As part of his first year's work Andy undertook a project to solve a high level access problem. The project was shortlisted separately in the 2018 Health and Safety awards.

Trief and Kassel Production Team – Brett Landscaping

The T&K team experienced zero harm injuries throughout 2016 and 2017, the only Barrow department to achieve this. In addition, during this time the T&K team worked together with site management to significantly improve their workplace.



From design to reality



Tekla Structures is intelligent 3D modelling software designed to help you deliver all types of precast concrete elements at the right time to the right place. Integrating design and detailing with manufacture, project management and efficient information sharing Tekla Structures can do it all.

Together we are shaping a smarter future for construction.

www.tekla.com/uk/solutions



Product Associations

British Precast members are eligible to join relevant product associations which provide a forum to address issues for a product or range of products. Their activities over the last year are reviewed in the following pages.

BRITISH PRECAST ARCHITECTURAL & STRUCTURAL



British Precast Architectural & Structural (BPAS) has been working on a number of initiatives over the last 12 months: These include those associated with marketing, health & safety, standards and product specific technical/sustainability activity.

The association was rebranded in late 2017 and changed its name from the Architectural & Structural Precast Association to British Precast Architectural & Structural (or BPAS). 2018 saw the launch of our new association website which provides a platform to promote member case studies and technical information for offsite precast concrete.

On the back of the rebrand, 2018 saw a step change in the marketing output from the group. The flagship activity was the newsletter which published all four quarterly editions with issues focusing on topics ranging from brick-faced cladding to digitalisation.

Adverts and articles from BPAS continue to feature in publications such as Architects Journal and Construction News and BPAS was a strong part of the British Precast presence at Futurebuild 2019 located in the offsite zone. BPAS has also been active in meeting architects and specifiers this year, taking part in the Concrete Centre Café Concrete event. This brought together architects from across the country to discuss both

the technical and visual benefits of concrete, including some stunning examples from BPAS members.

2018 saw the launch of a dedicated H&S subgroup within BPAS. The group has initially worked on delivering the code of practice for safe installation and in 2019 will work with the BPDWG on the safe transport of non-palletised concrete products. The Architectural & Structural Precast Code of Practice for Safe Installation is now completed and will be published in 2019. The document is currently undergoing review for approval by the Health and Safety Executive (HSE).

Recent years have seen BPAS contribute to standards like BS8297, information on which can be found on the association website. The next major technical issue to consider will be the revision of Eurocodes standards. BPAS will also play an important role in making precast concrete synonymous with offsite and design for manufacture and assembly (DfMA) which are important parts of the government industrial strategy.

On sustainability, BPAS has published two Environmental Product Declarations (EPDs) covering architectural white concrete cladding and a precast concrete ground beam. The sustainability team has been working on two further EPDs, one for brick-faced cladding and one for crosswall panels. These EPDs will be published and available during 2019.

In the wake of the Grenfell disaster, members of BPAS continue to engage with industry and reassure users and owners of current or future high-rise structures that precast cladding has and will always be the safe option due to its inherent fire resistance. BPAS members have previously completed three desktop studies covering 3 different types of insulation, the results of which are available on the BPAS website.



BRITISH PRECAST DRAINAGE ASSOCIATION



The British Precast Drainage Association (BPDA) has undergone a number of changes following its formation in 2017. BPDA now represents a wider range of precast drainage products which include concrete pipes and manholes, box culvert systems, precast concrete tanks, and a number of other drainage products. The Association elected Colin Richardson (Stanton Bonna Concrete Ltd) as its new Chairman in December 2018.

BPDA is becoming more involved in a number of SuDS-related initiatives. BPDA has recently contributed to CIRIA's Construction of SuDS Guidance (C768). BPDA are also members of several forums addressing the implementation of SuDS, such as British Water's SuWM and CIRIA's Susdrain's PSG. All members of BPDA offer precast products which can form part of sustainable drainage solutions.

The BPDA Technical Guide, which was launched in 2017, was further updated to account for Eurocodes' compliant load tables for concrete pipelines. A new chapter on box culverts was also added with guidance on structural and hydraulic design advice. Further work is expected in the second half of 2019 where major changes to the structural design of pipelines, introduced through the new BS 9295, will also be incorporated into the Technical Guide. These changes are also expected to affect our current online materials and cost calculators.

BPDA is also about to publish the first of a range of pocket guides designed to help with practical issues associated with the specification and effective installation of different precast drainage products. The first pocket guide will address concrete manholes.

BPDA's CPD seminars continue to be on high demand. Two new CPD seminars will be introduced this year. A CPD on Box Culvert use, design and installation is expected to be launched later this year, followed by another CPD on *"Safe handling and installation of precast drainage products"*. All our seminars are CPD UK accredited.

We expect all members of BPDA, and the vast majority of products manufactured by this sector, to be covered under ISO 14001, environmental management system, compliant processes this year. BPDA also plans to build on the work carried out on carbon footprinting in 2017 and 2018 by publishing a revised study on the performance of concrete pipeline products in comparison with pipeline systems developed using alternative materials later this year.

As part of new changes within BPDA, the newsletter will be re-launched as a quarterly publication. The content is expected to change into a combination of case studies and technically-oriented articles.

BPDA will also continue to work on a number of other projects in 2019. These include the update of the BPDA website with more up to date content and the expansion of its current FAQ section to include more issues crucial for the industry.



Product Associations Continued...

AIRCRETE PRODUCTS ASSOCIATION



Health and Safety has continued to develop for the Aircrete Products Association (APA) over the last year. Following improvement of “Lost Time Injury Frequency Rate”, the Working Group is now focused on producing a clear output in the form of a “What good looks like” guide on four key areas specific to Aircrete Products working alongside the broader British Precast Health and Safety initiatives:

1. Isolation
2. Load security
3. Working at height on vehicles
4. Safety at customer sites.

This Working Group reports to the APA Principal's Meeting, as do the Technical and Marketing Committees.

The APA Technical Committee is active in protecting the interests of UK aircrete producers in product, sustainability and design standards. Recent progress includes a specialised course with the University of Derby and involvement with the review of Building Regulations Part B and more specifically Part L / SAP10 with consultation starting in July 2019.

It has been confirmed that BSI will remain part of CEN so Brexit will not impact product or test Standards. Work is also being continued alongside the European Autoclaved Aerated Concrete Association (EAACA).

The APA Marketing Committee works with Modern Masonry (MM) to promote masonry solutions. Most recently, the APA was represented via MM at Futurebuild 2019 and the NHBC Building for Tomorrow events. 2019 Housing Conference will be back at the Building Centre in October hosted by MM, TCC and the Brick Development Association with the purpose to reach beyond our membership. Technical guidance is available via the APA website alongside production insight and case studies and to further enhance exposure of Aircrete's credentials – attempting to show it is more than just a grey block. Infographics are being developed, aiming to be website and social media friendly.

CONCRETE BLOCK ASSOCIATION



The CBA continues to develop utilising the Marketing Committee, the Technical Committee and continued involvement with Modern Masonry. CBA Marketing continues to develop the PR and Advertising campaigns alongside Modern Masonry focusing specifically on digital advertising and social media.

The CBA installation at the National Self Build and Renovation Centre will be updated in 2019 to ensure that it is up to modern standards and design and is relevant for years to come. This installation will feature key messaging, highlighting the benefits of Masonry while offering advice on U-values and SAP. (The website includes 20 datasheets and a very popular U-Value Calculator.)

CBA supported Modern Masonry at Futurebuild 2019 with the aim to deliver the core messages and strengths of Masonry such as Whole-life Resilience.

With support from CBA, MM attended five NHBC Building for Tomorrow events in 2019 - Preparing for Quality Homes.

Proposed events include the Housing Conference 2019 alongside MM, TCC and the Brick Development Association.

The CBA Technical Committee has direct marketing involvement to continue to develop output while maintaining the extensive technical information available through the website. A helpline is provided by CBA with a rotation of members handling enquiries.

Gerry Pettit provides leadership to the Technical Committee with ongoing work including:

- Aggressive soils
- Eurocode6.org
- Thermal bridge modelling
- RDS leaching tests
- Wall panel testing
- Part B
- Freeze-thaw tests.

As a member of the SAPIF committee CBA lobby for thermal mass to be taken into better consideration in future versions of SAP alongside the review of Building Regulations Part L.

INTERPAVE



Interpave is the Precast Concrete Paving and Kerb Association, promoting and developing concrete block paving, paving flags and kerbs – ranging from domestic uses to heavy duty industrial applications, such as ports and harbours.

Many digital publications continue to be produced by Interpave in support of concrete block permeable paving, government guidelines and changes to legislation aimed at using Sustainable Drainage Systems (SuDS) to help prevent flooding. As part of its continued commitment to supporting the wider paving industry, Interpave produces regular e-bulletins to ensure that the latest information is available and publicised alongside its website, which has a wide range of technical, advisory and supportive marketing information. A community of approximately 1000 receives the e-bulletins. Interpave exhibited at Futurebuild in London from 5th March to 7th March 2019 with a display discussing the Australia Road scheme, which was 'Winner of Winners' for the Landscape Institute awards in 2017.

The association was actively engaged in helping to create the pervious pavements chapter for the second edition of CIRIA's document The SuDS Manual (2015). In December 2018 Interpave completed the revision of its own document Design and Construction of Concrete Block Permeable Paving so that this document is aligned with The SuDS Manual. Recently Interpave published a worked example for the design of a typical permeable pavement scheme.

The association is currently working on further development of paving design and installation standards with BSI to ensure usability for both specifiers and installers alike. Additionally, Interpave is busy in Europe looking at the revision of European standards for concrete paving blocks, flags and kerb units.

Being fully committed to the effective training of installers and improving the quality of installation of their products, Interpave members contributed to the development of the National Highways Sector Scheme for paving, NHSS 30 – The Quality Management of the Installation, Maintenance and Repair of Modular Paving. This scheme is supported and promoted by Interpave.



PRECAST FLOORING FEDERATION



PFF promotes flooring products across all building sectors, focusing on key benefits such as precast flooring's excellent performance characteristics in terms of acoustics, fire, thermal mass and robustness, as well as speed of construction. In addition, PFF members provide health and safety, quality and sustainability benefits to their clients.

Members commit to comply with the Codes of Practice for both safe stressing and the safe installation of precast concrete flooring and associated components. This commitment provides a positive differentiator for PFF members working in a marketplace that increasingly recognises the importance of health and safety. In 2017 the PFF completed its update of the Code of Practice for safe installation and it hopes to complete a revision of the British Precast Code of Practice for safe stressing in 2019.

Technical work underpins much of the marketing activity but also addresses issues in product standards; building regulations; queries from designers, contractors, clients and building control; and guidance for designers.

The two specific areas for marketing activity are upper floors in housing and flooring on steel framed structures. At Futurebuild 2019 PFF promoted the benefits of precast flooring in housing and apartments, i.e., squeak-free flooring which is fire resistant and offers both thermal mass and acoustic separation.

The speed of installation and thermal mass benefits of precast floors on steel frames continue to be the basis for a compelling case in other sectors. Three technical articles were published in The Structural Engineer magazine during the Spring and Summer of 2018.



Affiliates

British Precast hosts affiliated groups who have a common interest in particular markets or aspects of installation.

INTERLAY

Interlay, the Association of Paving Installers, is the only independent trade association for precast concrete modular paving installation contractors in the UK.

Ongoing work at Interlay, in cooperation with other industry installer schemes, aims to further raise awareness of the Association.

Interlay provides regular support on health and safety issues relevant to the paving industry, technical matters, updates on changes to rules and regulations, as well as other industry news through newsletters and members' meetings. The Association continues to embrace new technologies with their multi-platform website supporting mobile and tablet technologies and has an active Twitter feed – follow us @Interlay1.

Interlay staff and members have over the past year, contributed to the development of the National Highways Sector Scheme (NHSS) 30. The scheme aims to continually improve the installation, maintenance and repair quality of modular paving constructions. A dedicated

internet hub detailing the training and support available to installers is hosted and maintained by Interlay (www.interlay.org.uk/nhss30) and Highways England require the use of registered installers ahead of non-registered ones wherever available.

The National Highways Sector Scheme 30, 'The Quality Management of the Installation, Maintenance and Repair of Modular Paving', seeks to improve the installed quality of all types of modular paving including concrete blocks, flags, kerbs and ancillary products used in road construction. The Scheme aims to provide an industry benchmark, ensuring project processes are planned well and use properly trained and competent installers, verified by vocational qualifications and supported by the introduction of a CSCS card provided by the LISS industry skills scheme. Focusing on continuous improvement, quality of installation and reduced ongoing costs for both clients and suppliers, the scheme was developed by a dedicated technical advisory committee. This includes representatives from across the paving sector – including clients, contractors, manufacturers, suppliers, trade associations, training organisations and certification bodies, with Interlay providing the Secretariat and logistical support.



MODERN MASONRY

Modern Masonry (MM) is a body that seeks to ensure developers and designers, customers and occupants understand the benefits of Masonry solutions.

MM provides guidance on the design of Masonry and furnishes government and influencing organisations with the evidence of how Masonry can contribute to a sustainable built environment.

It is supported by the Aircrete Products Association, Concrete Block Association and Mortar Industry Association, and continues to work closely with the Brick Development Association.

Members and their respective product groups seek to maximise the use of Masonry, focusing on new build housing:

- Whole life resilience
- Reduced overheating risk
- Low fire risk
- Flood resilience.

Masonry construction is the tried and tested method representing most new UK house builds.

MM helps and informs self-builders, developers, architects, students and merchants to achieve their best build based on speed, cost, sustainability and performance.

On the back of the 2018 Consumer Survey, MM has evidence that reveals UK homemakers value the benefits that Masonry construction can provide such as security, fire safety, robustness, resilience and durability.

Target Market

A major part of the MM strategy is to reach our intended audience at all levels. This is done through publications, media and events which MM continues to develop.

NSBRC

MM led a well-attended one-day event in June 2018 attracting visitors from all over the country. This has led to a joint seminar between MM, The Concrete Centre and The Basement Information Centre scheduled for 14th June, 2019.

The Masonry installation at NSBRC will be updated in 2019 to ensure that it reflects modern standards and design and will be relevant for years to come. An architect has been appointed with the design internally approved. The installation will feature key messaging while offering advice on U-values and SAP.

NHBC Building for Tomorrow

With support from CBA and APA, MM attended five NHBC Building for Tomorrow events in 2019. This was essential due to the agenda of "preparing for quality homes" covering the changing political, economic and market landscape and what that means for house building in the future, e.g., factors such as Brexit, the skills shortage, the supply chain and market challenges), as well as changes to the strategic and regulatory landscape.

A strong feature of the seminars schedule was addressing the increasing use of modern methods of construction (MMC); MM aims to exhibit and have a seminar speaker slot in 2020.

Futurebuild 2019

Futurebuild 2019 was held 5th – 7th March with the aim of delivering the core messages and strengths of Masonry.

MM exhibited with the assistance of the supporting associations: APA, CBA, MIA and BDA. Included on the stand were three pre-built, physical builds constructed using the four main arms of MM – aggregate concrete

blocks, aircrete blocks and bricks all traditionally held together with mortar. Supporting literature was also on hand.

Chris Stanley, Tom de Saulles and Guy Thompson delivered a seminar and two further talks on thermal mass and tips for energy efficient design.

Visitors included existing developers, self-builders and students. A frequent topic raised, especially from students was the subject of sustainability. MM's whole-life messaging gave an insight into the longevity of Masonry construction together with it being a UK manufactured product.

Reactions were very positive towards Masonry as the preferred building method in the UK.

Housing Conference 2019

The major annual event over recent years has been the Housing Conference. It was held in 2018 at UK Construction Week – NEC.

In 2017 the event was held at the Building Centre with an attendance of over 120 delegates comprising architects, engineers, developers and technical representatives.

Following a review, the 2019 Housing Conference will be back at the Building Centre on 15th October hosted by MM, TCC and the BDA with the purpose of reaching out beyond our membership.

Easy Guides

There are many in the design and construction sector who are less aware of Masonry than they should be. This prompted production of a series of easy guides. These aid the understanding of the solution and demonstrate the benefits of Masonry.

Current Easy Guides: Blocks, Cavity Walls and Beam and Block Floors.

MM is creating further guides for bricks, mortar and ancillaries in collaboration with the BDA and MIA that ensure content is appropriate.

Influence

MM seeks to influence government policy and other influencing bodies.

In 2018 MM was active in relation to energy efficiency, overheating, sustainability, offsite, timber first and the response to Hackitt with some notable wins. The Masonry perspective, to Westminster and devolved administrations, is communicated in the Modern Masonry name and/or through British Precast, TCC and the Minerals Products Association.

Recent and continuing actions include:

- Consulting on the review of Building Regulations Approved Document B – Fire Safety.
- Consulting on the review of Building Regulations Approved Document L – Conservation of fuel and power.
- Continuing liaison with the Environment Audit Committee (EAC) and the Ministry of Housing, Communities and Local Government (MHCLG) including submission of a response to the enquiry into MMC.
- Ongoing membership of the Good Homes Alliance provides technical feedback on the treatment of thermal mass in the draft overheating risk assessment tool.
- Alongside BP, MM is assisting with the development of the Recycling & Environmental Action Planning Society (REAPS).
- Submission of a response to a call for evidence regarding the Proposal for a New Approach to Building (pro MMC) issued by the Infrastructure and Projects Authority.
- Continued work alongside the House Builders Federation and the NHBC with the assistance of the MM Technical Committee and MM Principals agenda.

Mineral Products Association

Since its formation in 2009, the Mineral Products Association (MPA) has established itself as the sectoral voice of the mineral products and quarrying industry, with a growing membership of 520 companies throughout the UK including 9 major international and global businesses. This 'family' of common interests relies on close working relationships with MPA's affiliated members in MPA Northern Ireland, MPA Scotland, British Precast, the British Association of Reinforcement, the Cementitious Slag Makers Association, the UK Quality Ash Association and Eurobitume UK.

A strength of the MPA model is the union of thinking and dialogue which enables a common approach to strategic issues to be taken, whilst accommodating local approaches within the devolved administrations. Key issues such as Health & Safety, Resource use, Legislation and Regulation, Taxation, Technical Standards, Carbon Reduction and Biodiversity require a common response if the industry is to be recognised as being coherent, competent and contemporary.

As we are the construction industry's biggest supplier it is important that we are well organised, engaged and delivering. As we improve our understanding of the significance of our sector, we have to communicate that message effectively to key stakeholders using conventional publications, advocacy and social media.

Ensuring that we are evidence based and able to provide reliable and quality data and information covering all of our key issues is vital. Passionate assertion has a role to play in 'catching attention', but without hard evidence there is no opportunity to significantly influence public policy. There is strong evidence to suggest that the role and significance of the sector is being recognised, but the process is not made any easier with so much change and loss of expertise within and across the face of Government and its agencies. MPA data

and evidence becomes ever more important as funding for many of the traditional sources of data is cut. We are therefore increasing our capacity and capabilities to ensure that we are well-placed to protect members' interests as best we can.

MPA has developed its ambitions and vision for 2025 as part of the publication of its Charter. This will be the vehicle that helps shape how the industry wants to be perceived and do justice to a great industry which needs to be attractive to the brightest and best of the current and next generation of young people looking to invest their careers. We are living in an era where skills shortages are becoming increasingly evident and the presumption is that all work is inside and electronically based! This is an important agenda which affects all members to some degree across the UK, particularly once we have left the EU. As the largest production industry in the UK involving 'all the talents' and 'all the sciences' we have so much to offer. Being ubiquitous, local, and covering so many disciplines, how can we not be attractive!

As MPA has grown it has developed a clear and shared agenda to protect its members' interests with an unambiguous, aligned and stronger voice. British Precast is a dynamic and active player in the MPA family and the views of its members add real value to the development of the industry and its relationships with key stakeholders. The union we are privileged to work with reflects the inherent diversity of its membership which, when harnessed for the common good, is a powerful force.



BIBM

British Precast's membership of BIBM, the pan-European precast federation, allows us to liaise on legislative and policy issues common to the wider cement and concrete industry with the other member countries and members of the European Concrete Platform. British Precast are active in the BIBM technical and sustainability commission and keep a close eye on activities of the marketing commission.



CONSTRUCTION PRODUCTS ASSOCIATION

All members, both Full and Associate, are able to access full membership benefits from the CPA with their own login details for the CPA website. These include emailed weekly notes, economic and industry updates, construction forecasts and priority bookings for CPA lunches and other events. Two current workstreams, in which British Precast are very active, are the two working groups on Building Information Modelling and post-Hackitt.



Full Members List

ABM Precast Solutions Limited	Delta Bloc UK Limited	Patersons of Greenoakhill Ltd
ACP (Concrete) Limited	E & JW Glendinning Limited	Plasmor Limited
Aggregate Industries (UK) Limited	Elite Precast Concrete Limited	Quinn Building Products Limited
Amber Precast Limited	Evans by Shay Murtagh Precast	Robeslee Concrete Company Limited
Anderton Concrete Ltd	F P McCann Limited	S Morris Limited
Banagher Precast Concrete Ltd	Forterra Building Products Ltd	Sellite Blocks Limited
Barcon Systems Limited	Forticrete Limited	Skene Group Construction Services Ltd
Besblock Limited	H+H UK Limited	Specialist Precast Products
Bison Precast	Hillhouse Quarry Group Ltd	Stanton Bonna Concrete Limited
Breedon Northern Ltd	Ibstock Concrete	Sterling Services Limited
Brett Landscaping & Building Products	Interfuse Limited	Stocks Blocks Limited
Broome Bros (Doncaster) Limited	Jordan Concrete Ltd	Supreme Concrete Limited
Castle Construction Products Ltd	Laird Bros (Forfar) Ltd	Tarmac Building Products Ltd
CEMEX	Lignacite (Brandon) Ltd	Techrete Limited
Charcon Construction Solutions	Litecast Limited	Thakeham Tiles Limited
CCP Building Products Ltd	Longley Concrete Ltd	Thomas Armstrong Group
Collier & Henry Concrete (Floors) Limited	Mansfield Sand Company (Brick Division)	Thorp Precast Limited
Cornish Concrete Products Limited	Marshalls CPM	Topflight Precast
Craven Concrete	Marshalls plc	Townscape Products Limited
Creagh Concrete Products Limited	Mona Precast (Anglesey) Limited	TT Concrete Products Limited
Cross Concrete Flooring Ltd	Naylor Concrete Products Limited	WDL (Concrete Products) Ltd
Decomo UK Limited	Newlay Concrete	William Rainford (Holdings) Limited

Associate Members List

Adomast Manufacturing Ltd	Euro Accessories Limited	Pemat UK
Arcelor Mittal Sheffield Ltd	Fosroc Limited	Peikko UK Ltd
B&B Attachments Ltd	GCP Applied Technologies Ltd	PERI Ltd
BASF Construction Chemicals	Graceland Fixing Ltd	Polarmatic Oy
BDS Marketing Research Ltd	Guard Industry	Precast Concrete Structures Limited
Beresford's Flooring Ltd	Halfen Limited	Precast Construction Technology Ltd
Besser Company	Hanson Cement Limited	Precast New Zealand Incorporated
Bianchi Casseforme SRL	Hendriks Precon B.V	Precast/Prestressed Concrete Institute
Beton Machinery Sales Ltd	Hickman & Love (Tipton) Ltd	Probst Handling Equipment
BRE	Huntsman Pigments	Procter Johnson
Breedon Cement Ltd	Inform UK Ltd	Progress Group
Builders Merchants Federation	Inter-Minerals	PUK Ltd
Cambrian Services Limited	Invisible Connections	Resiblock Ltd
Canadian Precast Institute	Isedio Ltd	RFA-Tech Ltd
Carbon8 Aggregates Ltd	J & P Building Systems Limited	Roche Manufacturing Ltd
Caswick Ltd	Kingston University	S and B EPS Ltd
Cathay Industries (UK) Ltd	KVM Industrimaskiner A/S	Schöck Ltd
CDS Curing T/A Ceramic Drying Systems Ltd	Lanxess Ltd	Sicoma S.V.R.
Cement and Concrete Association of New Zealand	Larsen Building Products	SIKA Ltd
Cenin Limited	Leading Edge Management	Simply Precast Accessories Ltd
Christeys UK Ltd	Leca Danmark A/S	Spiroll Precast Services Ltd
Chryso UK Ltd	Leeds Oil + Grease Co. Ltd (LOGCO)	Strusoft UK
ClarkeConsult	Longrake Spar Co Ltd	Styrene Packaging & Insulation Ltd
Command Alkon UK Ltd	Loughborough University	T3
Concrete Manufacturers Association - South Africa	Low & Bonar Hull Ltd	Tarmac Cement & Lime Limited
Concrete Technology Ltd	Lytag Ltd	Tarmac Trading Limited
Conspare Ltd	Mapei UK Ltd	The CPD Certification Service
Construction Fixing Systems Ltd	Martek Industries Ltd	Trelleborg Pipe Seals
Construx	Max Frank Ltd	Trimble Solutions (UK) Ltd
Coote Engineering Ltd	Megasteel Ltd	UK Certification authority for Reinforcing Steels (Cares)
Cordek Limited	Mentor Training Solutions Ltd	University College London
CPI Worldwide	Miers Construction Products Ltd	University of Brighton
CSM Thermomass	Moulded Foams Ltd	University of Dundee
Doncaster College	N R Richards Associates Ltd	University of Nottingham
Dundee College	National Precast Concrete Association Australia	University of Sheffield
Dywidag-Systems International	National Precast Concrete Association USA	University of Surrey
E3 Recruitment	Net-Temps Ltd	University of Teesside
Ecocem Ireland Ltd	nVent	University of the West of England
Ecoratio Ltd	Parex	University of the West of Scotland
EKC Systems Ltd	Patterns and Moulds Ltd	Wincanton
Elematic Oyj	PCE Limited	Yara UK Ltd
Elkem Materials Ltd		



Visitors to our PRECAST event utilising the expertise and insight of exhibitors.

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British Precast is the trade association for precast concrete manufacturers and members of the supply chain.

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