ARCHITECTURAL IRONMONGERY JOURNAL

SPRING 2022

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GAI Specification Awards shortlist | Interview with Cooke Brothers | Building Safety Bill

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ABLOY CREATES DIGITAL ACCESS SOLUTIONS ACADEMY

Abloy UK has launched a Digital Access Solutions Academy, a purpose-built facility to showcase, work with, install and test the company's range of products, with particular focus on new digital solutions and ecosystems.

Pip Courcoux, head of product, technical and digital transformation at Abloy UK, says the new academy is a key milestone in the ongoing development of the comprehensive training and CPD offering from Abloy. "Education has been a critical focus at Abloy UK since we first launched the Abloy Academy back in 2008, and we are now widely regarded as a centre of excellence for education within the industry.

"The Academy has continued to drive growth across our product portfolio, particularly with respect to compliance and electric locking, and with this comes the need to standardise and develop our training materials and processes.

"We recognised there was a need to create a new area of the Academy where we could focus on our expanding range of digital

UKCW FOCUSES ON CULTURE CHANGE

UK Construction Week takes place in London on 3-5 May at ExCeL London, and is set to deliver a programme of content on culture change in construction.

UKCW London features an exhibition and a seminar programme covering issues around quality, diversity, skills and sustainability. As well as the main stage there will be themed HUBs – topics include digital construction, offsite alliance, CPD, sustainability, regeneration and infrastructure. The exhibition features over 600 stands in 40,000m² of space. www.ukconstructionweek.com/welcome



access solutions, and have someone with the right knowledge and expertise at the helm to effectively manage operations."

The Academy will be lead by Ian Miller who brings with him experience from both the IT industry, where he implemented and conducted software solutions training and support, and the security industry, where he spent six years conducting access control hardware training for installers, distributors, and end users.

"Developing this important new area of digital access solutions is really exciting, and I am looking forward to welcoming our existing and new customers to the Academy soon," said Ian.

EVENT FOCUSES ON NEW TRENDS IN MENTAL HEALTH DESIGN

The Design in Mental Health Network (DiMHN) is holding a conference, exhibition and awards event on 8-9 June. The exhibition is a marketplace where manufacturers and providers can meet decision-makers and specifiers, make new contacts, generate leads and new product ideas in the mental health sector.

The conference aims to cover a wide range of topics within the design, build, management and maintenance of facilities for mental health. The event awards will include a Concept Product Innovation category.

DiMHN has been working with BRE for the past five years to develop product



Developing this important new area of digital access solutions is really exciting,

and I am looking forward to welcoming our existing and new customers to the Academy soon" Ian Miller, Abloy UK



testing for the mental health sector. Look out for more on this in the next issue of AIJ. https://dimhn.org

FIT SHOW BUILDS MOMENTUM

FIT Show is set to take place on 10-12 May at the NEC in BIRMINGHAM. A dedicated event for the window, door, flat glass, hardware and components industry, exhibitors include installers and fabricators through to architects and specifiers. Exhibitors already booked include Cooke Brothers, Bossy Windows, Exlabasa and for the first time, the GAI. The seminar programme includes a talk from the GAI on Ironmongery and Fire Safety. This presentation looks at legislation and guidance including post-handover, with a focus on risks to consider in respect of fire doors and the correct specification of ironmongery.

BARBICAN TO GET FACELIFT For 40th Birthday

This March the Barbican Centre in London turns 40. The Barbican Centre in the City of London opened in 1982, and has become one of the world's foremost cultural centres, renowned for its innovative, diverse programming across all the art forms. The complex, designed by architect Chamberlin, Powell & Bon, and built by John Laing, was part of a utopian vision to transform a part of London destroyed by bombing during the Second World War. It took more than 10 years to build and when it was opened in 1982 by the Queen, she declared it "one of the modern wonders of the world".

The City of London Corporation is now working towards revamping the 40-year-old building to preserve its architectural heritage while building it up to a standard that meets the needs of 21st century artists and audiences. In January 2022, a shortlist of five design teams for the project was announced: Adjaye Associates, Benedetti Architects, and PUP Architects; Allies and Morrison, and Asif Khan Studio; BIG – Bjarke Ingels Group, Avanti Architects, and POoR Collective; Diller Scofidio + Renfro, McCloy + Muchemwa, and Purcell; FCBStudios (Feilden Clegg Bradley), Bureau de Change, Schulze+Grassov, and Thinc. A design team is due to be appointed in April.

The iconic brutalist building will also be a new neighbour of the GAI as it moves to the Ironmongers Hall – the 16th century building that sits cheek by jowl with the Barbican. It is home to the Ironmongers' Company, one of the Great 12 livery companies with a 700 year history.

Barbican Centre, London



APPOINTMENTS

Forza Doors appoints new technical director Forza Doors Ltd, bespoke timber door and panel manufacturer, has appointed Jim White to the board of directors as its new technical director. White will steer

the technical, certification and product development areas of the business and will steadily expand the products fire, acoustic and structural performance certification capabilities. White has been with Forza for over eight years. His appointment follows the retirement of Philip Duckworth as technical director who will continue on in his role as chair/CEO.

GEZE UK welcomes back manager Matt Gregory has returned to work for GEZE UK as specification manager for the north.

Gregory will be responsible for assisting architects and specifiers with compliant solutions for all products in the GEZE range which includes automatic doors, window technology and manual overhead door controls. In addition, he will produce detailed and risk assessed NBS specifications which are supported with BIM objects and present GEZE's RIBA approved CPD to help architects and specifiers expand their knowledge. Gregory first joined

GEZE in 2017 and returns after a spell outside the industry.

Mul-T-Lock appoints former locksmith as regional sales manager Security specialist Mul-T-Lock has appointed Gavin Hough as regional sales manager for Midlands and North West regions.

Hough joins Mul-T-Lock with experience spanning 30 years as a trading locksmith in a family business.

Hough says he is thrilled to have secured his new role. "The transition from being a locksmith to working with a global brand that commits to a partnership approach, with high performance security solutions, is a really great opportunity. I can't wait to get involved."

New head of operations for Lorient Lorient has appointed Phil Woodrow, previously the director of operations at MB Aerospace, as its head of operations.





Designs for the 2022 Serpentine Pavilion in London, by Chicago-based artist Theaster Gates, have been revealed. Titled 'Black Chapel', the pavilion will be realised with the architectural support of Adjaye Associates.

Gates's concept for the pavilion – the annual architectural commission from the Serpentine Galleries – draws inspiration from the kilns of Stoke-on-Trent, paying homage to British craft and manufacturing traditions.

The design of the wooden pavilion seeks to recreate the meditative atmosphere of a small chapel, and light pouring through a rooftop oculus will contribute to a sanctuary-like and reflective environment. In function, the pavilion will also reflect the role of a chapel in a community. An operating bell, originating from a demolished church in Chicago's South Side, will be placed next to the entrance of the pavilion and will be used to call, signal and announce performances and activations in the space - with an emphasis on music and public engagement. The pavilion will be designed to minimise its carbon footprint and environmental impact. The predominantly timber structure will be lightweight and fully demountable, with a focus on reusable materials. After its summer stint outside the Serpentine Galleries, the pavilion will be re-sited to a permanent location for a second life.

The 2022 Serpentine Pavilion will be open to the public from 10 June to 16 October at the Serpentine Galleries, Kensington Gardens, London.

An artist render of the 2022 'Black Chapel'.

DORMAKABA LAUNCHES ONLINE HUB FOR ARCHITECTS AND SPECIFIERS

Access solutions provider dormakaba, has created a new online community hub for architects, designers and specifiers. The site provides professionals with the tools and resources to transform the way they work with support and technical materials accessible from one central source.

dormakaba has launched the new architectural website to provide one central source for product information, product documentation, certification, CAD drawings and BIM objects, as well as blog articles and case studies from around the world.

The dedicated website also features information and tools on industry-leading standards and best practice, and extends from product insight to professional development with access to the company's accredited CPD materials. This includes dormakaba's series of free RIBA accredited online webinars on industry best practice and specification requirements in the UK.

Tim Checketts, head of specification and development at dormakaba said: "When architects come to dormakaba, they know that they won't have to deal with multiple advisors, suppliers or third-party manufacturers. We pride ourselves on being a trusted solution partner, able to provide fully integrated access solutions from a single source."

He continued: "Our specification and planning specialists are on hand to support projects across all stages of design through to delivery, drawing upon their vast experience and professional knowledge of building standards, risk assessment and specialist expertise for every type of project, no matter how complex."

dormakaba plans to continue the global roll-out of its community hub throughout 2022.

planning.dormakaba.com





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STRAND ENDS FAMILY RUN HISTORY WITH NEW APPOINTMENT

Strand Hardware has appointed Steve Marshall as its new managing director. Marshall will also head up its two sister companies – Strand Technologies and AliMet Fabrications.

Marshall has taken the helm of the three Midlands companies following a 24year career at GEZE UK where, for the past two years he served as operations director, following roles in the service and commercial teams.

His appointment is a significant step change for Strand Hardware: it will be the first time that the company has seen day-to-day operations managed by someone outside the family-run firm. Strand was founded by Jonathan Franks in 1991 and his daughter, Catherine, took on the role of managing director in 2005. She will continue as chair of Strand Hardware.

Marshall called his appointment "an exciting challenge", adding, "They are three fairly different companies which at the same time complement each other. All three are really, really exciting, and I'm looking forward to working with the teams, helping them develop and achieve further growth."

Catherine Franks is to focus on special projects, strategy and investments. She said she



All three are really, really exciting, and I'm looking forward to working with the teams, helping them develop and achieve further growth" Steve Marshall

felt certain that Strand Hardware and its sister companies were in "a safe pair of hands".

"I would not move aside, if it were not for the certainty that Steve is absolutely the right person for the job," she said. "Managing three companies is not easy – each has its own unique demands – but Steve has huge amounts of experience. I feel confident that he will be able to support all three companies and help them grow."

HOPPE (UK) DONATES HOOKS TO CHARITY

HOPPE (UK) has donated 4,000 nylon coat hooks to Compton Care, a hospice and charity based in Wolverhampton that offers palliative care to people with incurable conditions.

The coat hooks donated were ARRONE® AR618 nylon coated which are available in 10 different colour finishes and are part of a range which extends from lever and pull operated door handles, to door closers and other accessories.

Andy Matthews, head of Sales for HOPPE (UK) commented: "We are happy to have made this donation and hope it helps to raise funds for Compton Care."



BSI IDENTIFY TO REVOLUTIONISE PRODUCT TRACEABILITY

The BSI has launched a digital identification service that it claims helps UK manufacturers to directly manage information about their products in the supply chain.

The Institute dubs BSI Identify as 'revolutionary' saying it will "help put an end to the confusion of multiple identifiers and of missing or out of date information – and to managing all the safety risks that come with ambiguity, unmanaged substitution and inappropriate application".

The system uses digital object identifier (DOI) technology and there are four steps to product identification and information: • Manufacturers receive a unique, digital object identifier called a BSI UPIN (Universal Persistent Identification Number) for every product that's specified and incorporated in a building structure.



• BSI Identify holds these UPINs in an accessible and searchable registry. The technology used ensures that the index cannot be broken.

• The manufacturer can then mark or tag their products with the UPIN. They can be included within QR codes, NFC or RFID tags.

• The BSI UPIN acts as a smart link that can signpost users to a page, controlled by the manufacturer, where they can quickly find all the most up-to-date information on a product – from specification, installation and maintenance, to replacement, CE and recall/safety information. All queries about the product can be routed back to the manufacturer.

For full details see https://identify. bsigroup.com/supply-chain

HOSPITAL CHOOSES DIGITAL LOCKS

Southmead Hospital, a new £430m NHS hospital in the northern suburbs of Bristol, has fitted the Securefast SBL365 Fire Rated Mechanical Digital Lock throughout the hospital. The hospital wanted a lever operated device that could cope with the high level of traffic that would use the doors on a regular basis.

The SBL365's have been fitted to some timber doors measuring 2.5 metres high on private rooms and storage cupboards.

The SBL365 Mechanical Digital Push Button Lock has been used with both tubular latches and mortice escape locks offering a non-sequential code with a choice of over 2,000 combinations and always allowing free egress from the inside.

Bristol hospital installed Securefast locks



FUTUREBUILD TACKLED CLIMATE CHALLENGE

Futurebuild, which took place in early March, explored the issues presented by the net zero challenge.

Alongside an exhibition where the GAI had a stand, the conference programme saw panels of industry experts share their experience and put forward proposals on 11 topics, including an action programme beyond COP26, the regulation of embodied carbon, resource efficiency, financial considerations, levelling up and retrofitting. futurebuild.co.uk

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GAI TALK...



Simon Forrester, GAI chief executive

With the Secretary of State, Michael Gove, expecting to

address leaseholder protection and shortfalls in cladding replacement, coupled with changes to the Defective Premises Act extending to buildings constructed in the past 30 years, does this indicate a willingness to hold those who mis-specify to account in the future? It would seem so, and the direction of travel of the Building Safety Bill supports this.

It has therefore never been more important to ensure the people you appoint to design and specify ironmongery are trained and competent to carry out the work. This creates reassurance, in the event of a change of product or design, that it will be overseen by a professional.

The Registered Architectural Ironmonger (RegAl) is the shorthand for competence in the specification of architectural hardware. Should something go wrong with a building you are responsible for, do you have the certainty that the work of the whole value chain has been carried out by professionals? Sadly, a straw poll of architects and contractors carried out last month shows this has not always been the case in recent times. And following a tragedy, regulators have long memories. So, what skeletons lurk in your filing cabinets?

We're heading towards a position where accountability and demonstration of competence will intertwine to catch out anyone taking short cuts or adapting specification to reduce cost without due consideration of the effect. "It's fine, a handle is a handle, right?" No.

This is why it is vital that you always consult a RegAl for every project.



GAI MOVES TO Ironmongers Hall

At the end of March, the GAI is relocating to an office within Ironmongers' Hall, the home of the Worshipful Company of Ironmongers.

One of the Great XII livery companies of the City of London and with its roots in the iron and ironmongery trades for over 700 years, the official history of the Ironmongers' Company dates to its royal charter of 1463. After its Hall in Fenchurch Street had been badly damaged by bombing in 1917, the business moved to a new site in Shaftesbury Place, Aldersgate Street in 1925. The new Hall had been designed by its surveyor, Sydney Tatchell FRIBA.

The Hall is a neo-Tudor and Jacobean building surrounded by the 1970s architecture of the Barbican and the Museum of London – quite a contrast! It has featured in film and on television and is also a popular venue for weddings and corporate events.

Mario Del-Signore, GAI President, said: "I am very pleased to have led this move, which is designed to strengthen our links to the Worshipful Company of Ironmongers, benefiting both the Guild and the Ironmongers' Company. Our old offices in Shoreditch were too large for our needs, so by taking this opportunity to reduce our office space we have both saved money and aligned ourselves with this great and historic institution. Our plan is to hold some of our Guild meetings and events in this amazing space, and we look forward to welcoming members to our new home in the months and years ahead."

Colonel Charlie Knaggs OBE, Clerk to the Ironmongers' Company, said: "The Company started life as a body to raise and maintain standards for the ironmongery trade, to train and educate tradesmen and their clients, and to ensure the Company and its membership thrived. Whilst our focus has now shifted to mainly charitable aims, we are very pleased to see GAI taking up this mantle and delighted to welcome it and its members to the 'ancestral home' of the ironmongery industry."

The change means new contact details and phone numbers for the Guild:

- gai.org.uk
- Tel: 020 3370 8540.

• To see the Hall's amazing interior, visit ironmongers.org

GAI CELEBRATES 41ST EDUCATION AWARDS

The rising stars of the door and hardware industry were celebrated at the annual GAI Education Awards on 3 March at Tower Hotel in London.

This was a double celebration to recognise the achievements of students from both 2020 and 2021 due to last year's event being postponed due to the pandemic. The ceremony saw GAI students from across the globe presented with their GAI Diplomas, and the winners of awards for top performance in both The Certificate in Architectural Hardware and the GAI Diploma were also announced.

ASSA ABLOY was the sponsor of this year's event with Lorient and Union as co-sponsors.

Mario Del-Signore, GAI President, commented: "Education is a central pillar of the GAI. Our qualifications are recognised and respected globally for advancing the professionalism of our industry.

"Despite the challenging times we've found ourselves in, our education programme has continued to develop, navigating new teaching formats and methods of support for those wishing to further their career. To have successfully gained a qualification during the ongoing pandemic is especially commendable. I have the utmost respect for these students and the teams who delivered the training and supported them in their studies.



This was an Education Awards to remember, a celebration not just for our students but for the whole industry to acknowledge the resilience and tenacity demonstrated by us all" Mario Del-Signore

"This was an Education Awards to remember, a celebration not just for our students but for the whole industry to acknowledge the resilience and tenacity demonstrated by us all.

"I thoroughly enjoyed celebrating the future of the GAI with its newest, talented professionals and am excited to learn from them, to continue supporting and developing our community of members". View the winners at: gai.org.uk/gaieducationawards

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 Image: Cristian Chinecturel Iterational</

GAI LAUNCHES Community Awards

The GAI has launched its new Community Awards programme. The awards are now seeking individuals and businesses who have demonstrated leadership, innovation, or service to the industry, as well as going the extra mile to deliver for their clients. The below categories are now open to entries:

• Fellowship (FGAI): Fellowship is awarded to an individual who has shown a longstanding and ongoing commitment to the GAI. This will be the first year the award has been offered under the new single organisation, and those who are selected will be the first to be issued with a 'FGAI' post-nominal.

• Company Innovation: For businesses who can demonstrate they are innovating through improved processes and can also demonstrate how those improvements have made a difference to them, their customers or wider society.

• Customer Focus: For individuals, businesses or teams that have gone the extra mile to deliver excellence in customer service, whether through new processes, examples of 'going the extra mile', or for consistently delivering beyond expectation and delighting the customer.

• Leadership: For those who have demonstrated leadership within the AI sector. The winner may have led a team or business to success, driven change in the sector, developed new product streams, provided inspirational leadership, delivered a strategy or a business plan.

• Achiever: For the brightest and best in our sector who are still developing their careers. The successful nominee should have the charisma and personality to inspire others. The GAI is looking for individuals who have demonstrated they are 'a cut above'.

Entry to the awards is free via www.gaicommunityawards.org.uk. Nominations must come from a GAI member.

Simon Forrester, GAI chief executive comments: "I'd invite every member to consider who springs to mind when you read these categories. I am really looking forward to reviewing the entries with my fellow judges – and of course the presentation to the winners at a celebration dinner during our members' event in June."

The winners of the 2020 and 2021 Education Awards

AND THE WINNER IS...

The shortlist has been announced for AI Specification Awards 2022

The GAI in conjunction with the Royal Institute of British Architects (RIBA), has revealed the category shortlists for this year's AI Specification Awards. Now in its 40th year, these awards identify and celebrate excellence in the specification of architectural ironmongery in the construction industry.

As well as awarding first places for each category, every category winner will then be put forward for the opportunity to be crowned the 'Winner of Winners', sponsored by GEZE UK.

The awards ceremony is being held on Thursday 5 May 2022 at Landing 42 in The Leadenhall Building, which boasts breathtaking views across London.

GAI president Mario Del-Signore said: "The shortlists for the AI Specification Awards 2022 demonstrates the breadth of good work being undertaken in the industry and confirms the importance of effective partnerships between architects and architectural ironmonger."

Visit the GAI website for more information, to view videos of shortlisted projects and book tickets: www.gai.org.uk/ specificationawards

The shortlists for the Al Specification Awards 2022 demonstrates the breadth of good work being undertaken in the industry" Mario Del-Signore





FAT collection; Bath Abbey; Tate Britain; Aldwark Manor Estate Hotel; Lancer Square; Xiqu Centre



THE OWNER WHEN THE OWNER









Top to bottom: ASSA ABLOY DC300G-HF; NAIC; Adare Manor; Cambridge Mosque









SHORTLISTED PROJECTS

Commercial & Hospitality Award (Sponsored by ASSA ABLOY)

Aldwark Manor Estate Hotel, York Architect: Studio Map / Architectural Ironmonger: Em-B Solutions Grantley Hall, Ripon Architect: Bowman Riley / Architectural Ironmonger: Em-B Solutions

Heckfield Place, Hampshire Architect: Spratley & Partners / Architectural Ironmonger: John Planck Ltd

Vintry & Mercer Hotel, London Architect: Dexter Moren Associates / Architectural Ironmonger: Yannedis

Residential Award (Sponsored by Frank Allart)

Chelsea Barracks Luxury Apartments (Phase 1), London Architect: HBA Architects with Squire + Partners / Architectural Ironmonger: izé Itd

Lancer Square, London Architect: Squire + Partners / Architectural Ironmonger: Franchi plc Regent's Crescent, London Architect: PDP London / Architect: PDP London / Architectural Ironmonger: John Planck Ltd The Rectory, East Church Architect: Nick Auston Design / Architectural Ironmonger: SDS London Ltd

Public Health & Education Award (Sponsored by Forza Doors)

142-146 Harley Street, London Architect: Sonnemann Toon Architects / Architectural Ironmonger: 3v Architectural Hardware Ltd Bath Abbey Architect: Feilden Clegg Bradley Studios / Architectural Ironmonger: Allgood plc **Cambridge Mosque** Architect: Marks Barfield Architects / Architectural Ironmonger: d line Eisenware Ltd National Automotive Innovation Centre (NAIC),

Warwick University Architect: Cullinan Studio / Architectural Ironmonger: Allgood plc

International Award (Sponsored by dormakaba)

The Secretariat, Yangon Architect: **BBA** Architects with Conservation Consultants / Architectural Ironmonger: Key Technologies International Ltd Xiqu Centre, Hong Kong Architect: Ronald Lu & Partners / Architectural Ironmonger: Key Technologies International Ltd Z33 Gallery, Belgium Architect: Francesca Torzo Architetto / Architectural Ironmonger: izé Itd

Product Design & Innovation Mechanical Award (Sponsored by Simonswerk)

Complete Sealing System for Sliding Doors Manufacturer: Norseal Ltd DC6113 - Slimline transom door control Manufacturer: ASSA ABLOY Fat Collection Manufacturer: d line Eisenware Ltd UNION CodeGUARD5 -High security push button lockset Manufacturer: ASSA ABLOY

Product Design & Innovation Electronic Award (Sponsored by ADSA)

DC300G-HF - Electromechanical Hold-Open Free Swing Door Control Manufacturer: ASSA ABLOY KitLock KL1100 locker lock Manufacturer: Codelocks Neo Cylinder Manufacturer: Salto Systems Virtual Engineer Manufacturer: Strand Technologies

Jubilee Award (Sponsored by Eurobond Doors)

Adare Manor Hotel and Golf Resort, Limerick Architect: Reardon Smith / Architectural Ironmonger: Mooney Architectural & Harbrine Centre Point, London Architect: Conran & Partners / Architectural Ironmonger: Allgood plc Hong Kong International Airport Architect: Foster + artners / Architectural Ironmonger: Allgood plc and Key Technologies International Ltd Kings Gate, London Architect: Lynch Architects / Architectural Ironmonger: izé Itd Rose Lodge, Hebburn Architect: MAAP / Architectural Ironmonger: Laidlaw Solutions Royal Opera House, London Architect: BDP & Dixon Jones / Architectural Ironmonger: John Planck Ltd **Scottish National Portrait** Gallery, Edinburgh Architect: Page Park / Architectural Ironmonger: Allgood plc Tate Britain, London

Tate Britain, London Architect: Caruso St John / Architectural Ironmonger: Allgood plc

TWO FOR THE PRICE OF ONE

Meet **Stephen Badgery** and **Dan Johnson** both managers from Zoo Hardware



Tell us about Zoo Hardware SB: Founded in 2010, Zoo Hardware has grown to be a leading design and manufacturing business in the UK architectural ironmongery sector. Now Part of TYMAN Plc, the business continues to grow with over 3,500 products for residential, commercial and public building sectors. DJ: Our cylinder department is a widely recognised centre of excellence that produces bespoke key systems for commercial, industrial and domestic settings.

How did you get into this business? SB: I have over 25 years experience in architectural ironmongery, starting in field sales while living in South Africa. Since returning to the UK in 2002, my roles have included area sales manager, specification/technical sales and UK sales manager. I joined Zoo Hardware in February 2021 to further develop and manage the South East and East Anglia areas. **DJ:** I joined Zoo Hardware as a cylinder operative in April 2012 straight from college. I helped to grow the business and made workshop manager in 2014 while developing our customer service model. I am now the business development and customer service manager.

I am currently working towards GAI certification and Master Locksmiths Membership.

What do you love about this industry and what are the frustrations/ challenges. What would you change if you could?

SB: Architectural Ironmongery is an ever-evolving industry with new and innovative solutions arriving on the market all the time. I love learning

Stephen Badgery (left) and Dan Johnson

My biggest frustration is the industry's sluggishness in responding to new technology and change"

about these new products and sharing my knowledge and enthusiasm in business to business roles. It is very rewarding to demonstrate these product benefits and implementing them to solve real world building access challenges.

This industry is highly relationship based, where the expression 'people buy from people' is proven everyday.

If I could change one thing, it would be removing the words 'equal or approved' from all future architectural ironmongery specifications.

DJ: I have spent all my working life in this industry, I enjoy the uniqueness of my job role and love that fact that every day is different.

My biggest frustration is the industry's sluggishness in responding to new technology and change. Given the opportunity I would to expand the amount of knowledge around locks and locking systems throughout the industry.

How do you spend your spare time?

SB: I am a confirmed gadget freak, so I will often be found with the 'new shiny'. Our two teenage sons keep me and my wife busy most weekends, either freezing on the side of the rugby pitch while supporting our oldest son or being 'taxi' for our youngest.

I'm delighted that we can now return to the cinema for the latest sci-fi blockbusters, and Spotify is my most used phone app.

DJ: I spend most of my spare time playing and watching various sports, mainly cricket and football. I love travelling when I can get the opportunity and have seen many different countries. I am also in the process of renovating a recently acquired house.



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WASTE NOT

WABLENUT WABLENUT WABLENUT The circular economy is rising fast up the agenda: an increasing demand to develop sustainable desired

an increasing demand to develop sustainable design models based on less material usage, recyclability and technical and aesthetic durability principles. So what should the industry be doing? **Sue Corrick** finds some answers The circular economy is a systems solution framework that tackles global challenges like climate change, biodiversity loss, waste, and pollution" The Ellen McArthur Foundation

circular economy is based on the principles of designing out waste and pollution, keeping products and materials in use, and regenerating natural systems.

This is in contrast to the traditional 'linear' model which is based on the concept of 'make, break, and discard' or 'take, make, waste'.

The circular economy is a concept in which everything is engineered to be constantly reused or recycled. It requires rethinking of design, manufacturing, selling, re-using, recycling and consumer ownership to keep resources in use for as long as possible and to extract maximum value.

'Business as usual' sees contractors and the supply chain following the waste hierarchy; reduce, reuse and recycle, to a greater or lesser extent. But the concept of the circular economy goes beyond the 3 R's and aims to maximise total material resource efficiency.

There is massive economic advantage for businesses adopting a circular economy. The UK Department for Environment, Food and Rural Affairs (Defra) calculates profit of up to £23bn per year for UK businesses through low cost or no cost improvements and McKinsey estimates a global value of \$3.7 trillion per year (ref. WRAP)

The construction domain is one of the largest users of energy and is responsible for 38% of emissions globally. Further, it is responsible for 30% of the extraction of natural resources in the world. Hence, to reduce its ecological footprint this industry must shift from a linear to a circular economy. This will not just protect the environment but also benefit the local economy by encouraging sustainable production models.

Part of the design

In February 2020, the European Commission released a paper on circular economy in architecture: the "Circular Economy – Principles for Building Design" document.

It listed the following elements: • Durability: building and elemental service life planning, encouraging a medium to long term focus on the design life of major building elements, as well as their associated maintenance and replacement cycles; • Adaptability: to extend the service life of the building as a whole, either by facilitating the continuation of the intended use or through possible

replacement and refurbishment;
Reduce waste and facilitate highquality waste management: facilitate the future circular use of building elements, components and parts, with a focus on producing less waste and on the potential for the reuse, or high-quality recycling of major building elements following deconstruction. This includes efforts along the value chain to promote:

future changes in use - with a focus on

• the reuse or recycling of resources, (i.e. materials) in a way that most of the material's value is retained and recovered at the end of a building's life span; • the component design and the use of different construction methods to influence the recovery for reuse or recycling to avoid down-cycling.

The key players involved in the document are building users, facility managers and owners, design teams (engineering and architecture), contractors and builders, manufacturers of construction products, deconstruction and demolition teams, investors, developers and insurance providers, government, regulators and local authorities.

The European Commission has also concluded that Life Cycle Assessments provide the best framework for assessing the potential environmental impacts of products currently available. They also state the need for more consistent data and consensus.

The pressure is now on for the supply chain, building materials and furnishings manufacturer, to respond, investing in new solutions providing:

- use of renewable materials
- use of healthy materials
- production processes with
- low environmental impact
- materials have a high
- recycled content
- durable materials
- non-hazardous materials >>>>

Circular economy systems diagram. Source: Ellen MacArthur foundation



WHAT YOU CAN DO

How can you verify credentials of such products (ISO 14001)? Product credentials are crucial in modern projects and decision makers can also choose to enrol in further programmes that focus on sustainability efforts, such as FN 15804 - Sustainability of Construction Works - and Environmental Product Declarations (EPDs) that report on the environmental data of your product - in accordance with the international standard ISO 14025. For an EPD to be awarded, a life cycle assessment must also be undertaken, and this must meet Product Category Rules (PCR), and therefore must be declared as acceptable in building rating schemes such as BREEAM.

What does it mean for manufacturers in developing productsmaterials sourced etc.? For manufacturers, it's crucial R&D teams continue to innovate, improving all aspects of the product lifecycle and aiming towards 100% sustainable packaging. For the packaging stage, it's essential that teams are aware of the impending plastic packaging tax and extended producer responsibility also.

What is the role of EPDs and third-party lifecycle assessment?

EPDs (Environmental Product Declarations) are independently verified documents that communicate transparent and comparable information about the environmental impact of products throughout their life cycle. They provide a standard way of declaring the impacts of manufacturing and using products through Life Cycle Assessment (LCA). Construction projects are assessed using a single

set of Product Category Rules (PCR) ensuring consistent reporting for similar products. Many manufacturers in the AI industry have EPDs for their products including HOPPE, ASSA ABLOY, GEZE, dormakaba and Allegion.

What else can I look for when sourcing products? Cradle to Cradle Certified (C2C Certified), which is a framework based on quality assessment and innovation. Products are assessed under five criteria called quality categories: Material Health, Material Reutilisation, Renewable Energy & Carbon Management, Water Stewardship and Social Fairness. The product is then given an overall certification level, a grade, based on how many of the quality categories the product fulfils: Basic, Bronze, Silver, Gold and Platinum.

Cradle-to-cradle design is a biomimetic approach to the design of products and systems. The idea was deeply explored and brought to the forefront by architect William McDonough in his 2002 book "Cradle to Cradle: Remaking the Way We Make Things." Since then, McDonough's ideas of C2C have taken a stronghold within areas of building and design ethics at large.

The UKGBC (Green Building Council) is working with its members and other stakeholders to develop practical guidance to overcome the barriers to implementing circular economy principles. Last year it also launched Circular Economy Live Projects Forum to bring together individuals from across the value chain who are implementing circular economy principles to share learnings, find solutions, and make progress on live projects. It is sharing findings this year.

Every time you set a line in a drawing you make a CO2 impact and if you do not have consideration of what it means you are cheating the environment, you are cheating your business proposal, you are cheating as an architect. We are all in this together" Anders Lendager, Snøhetta

 products that can be reused, disassembled, and recycled
 create material passports

There are several areas the industry should be looking into, from reducing material consumption through improved product and building lifecycles, to eliminating the use of single use plastics (consider the government's impending plastic tax). In general, we should be looking to reduce the carbon footprint of building environments, adopting the use of renewable energy and reducing water consumption for example.

However, much more can be done from the viewpoint of construction materials and industry waste. From an architectural ironmongery perspective, innovation can help minimise the need for repeat manufacturing, shipments and packing materials. In addition, product lifecycles can be optimised through correct specification and improved maintenance periods – reducing the need for replacements, and thus further material consumption.

Concerning waste, recycling facilities can generate energy from waste to supply renewable electricity and heat to support industry, healthcare and around 8,000 residents connected to carbon zero district heating schemes. These energy schemes have saved over 500,000 tonnes of CO2 emissions in the past four years and have produced more than 700MWe of electricity each year.

Allegion UK is committed to supporting sustainability in construction. It is helping to create a more transparent and sustainable global industry by proactively participating in the EPD programme, with full EPD documentation available for download from the Allegion website on Briton products in their respective categories, based on ISO 14025 and EN 15804 environmental declarations. It also aims to ensure all its supply chains are part of a FSC, or similar scheme.

In addition, with Plastic Tax and the Extended Producer Responsibility coming into effect in 2022 and 2023 respectively, the company is proactively aiming for 100% sustainable packaging for its products. Allegion is focusing on making regular improvements in sustainability management systems and focusing on enhancing product life cycles through the reduction in usage of natural resources and the improved recycling and reuse of materials, all in a bid to help minimise its environmental impact as a manufacturer.

In terms of energy consumption, Allegion uses 100% renewable electricity, and has incorporated light and tap sensors in facilities to reduce electricity and water consumption.

Many measures are not currently mandatory for manufacturers in the UK, but the significance of sustainability is growing quickly, and it is key for decision makers (all stakeholders from end users to manufacturers) to recognise their importance in a bid to raise standards across the board.

Sue Corrick is product marketing manager of Allegion UK. Additional reporting by Nicky Roger.

LEARN MORE:

 https://ellenmacarthurfoundation.org/ topics/circular-economy-introduction https://www.ukgbc.org/ukgbc-work/ circular-economy

 https://woodforgood.com/newsand-views/2019/04/01/transformingconstruction-building-the-ukscircular-economy/

https://www.designingbuildings.co.uk/ wiki/Circular_economy

• https://www.dezeen.com/2019/10/19/ architecture-and-circular-economy-talk/



Villa Welpeloo: made from locally salvaged materials

WHAT A GOOD IDEA!

Some examples of circular economy in product use:

• Valcucine is

revolutionising the kitchen industry with a base unit system, called Invitrum, made entirely of glass except for an aluminium frame. A product designed to be circular, recyclable and easily disassembled (reused or recycled) at the end of the life cycle.

• Norwegian architecture firm Snøhetta worked on a research project related to plastic, its journey and footprint in the value chain, as well as its inherent qualities. It developed a chair, called S-1500, with a body made from 100 % recycled plastic from the local fish farming industry in the North of Norway, and a subframe made from recycled steel.

• Flooring company Desso has been one of the pioneers of the Cradle to Cradle approach. The company continues to innovate around circular economy principles, developing take-back programs and products with recyclable yarn that can be separated from the backing and used over and over again. It uses 100% renewable hydropower electricity at every stage of carpet manufacturing. as well as working on developing bio-degradable material bases for their carpets such as corn byproducts and bamboo yarn.

Villa Welpeloo is a house and art studio in The Netherlands designed and constructed by Superuse Studios. Sixty per cent of the house is made up of materials salvaged from the local area: steel was sourced from machinery previously used in textile production, and the wood used in the facade was taken from 200 damaged cable reels.



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IT ALL Hinges on Expertise

Cooke Brothers celebrates its 150th birthday this year. What's the secret sauce? **Tim Cooke**, managing director tells Nicky Roger



ooke Brothers is a UK manufacturer specialising in the design, development and supply of high-performance architectural hinges, hardware and bespoke products. It is now celebrating its 150th year in business. It has been a family-run business since 1872, something Tim Cooke, the managing director, stresses. "We are very much a family business, into our fifth generation and we have all applied ourselves wholeheartedly," he says, adding that this brings a strong work ethic, the loyalty of staff and enables long-standing customer relationships.

Above: Managing director, Tim Cooke Top: loadmaster hinge and concealed bearing hinge in bronze When the firm began in the late 1800s its main products were cabinetry – it supplied the hinge used in the handmade dashboards of Jaguar S-Type and E-Type, for example. Its also supplied a lot of decorative brasswork, popular in the Victorian era.

Fast forward to today and the business has grown and diversified enormously. In recent years customers have included high-end car manufacturers including Aston Martin, Bentley and Porsche and also white goods such as Aga Rangemaster and Indesit. It has seen its products used across a vast array of projects from the Nine Elms development in London, to the expansion of Hong Kong airport. And it also provided hinges for security doors at Hinkley Point C nuclear power station.

Tim explain that having roots in engineering helped the firm develop. Despite its age, Cooke Brothers has only been operating in the architectural ironmongery sector for the past 45 years but AI now constitutes 50% of its business. Phoenix Tooling & Development is part of the group, making precision press tools. "Our background in engineering means we offer quality and technical excellence," says Tim, adding, "and it means we have adaptability and flexibility skills."

The firm moved steadily away from lightweight brasswork and cabinetry towards heavier products and doors. "We moved away from brass into





stainless steel with greater loading that required high performance and bearing technology." JCB is one of the firm's largest engineering customers – specifically for its Sideloaders.

The business is now based in Aldridge but began life in the jewellery quarter of Birmingham, moving to Aston prompted by growth and then to its current home when more space and a cleaner environment was needed in a post-war city scenario.

TIm also credits the company's success over the years to solid financial prudence which he says has enabled the firm "to weather many storms", most recently the credit crunch of the later 2000s and the Covid pandemic. "A strong financial underpinning saw us through bad times as did our in-house technical expertise in the tooling business."

Brexit and its fallout has not had a huge impact on the business. The company has partners in Germany for its concealed hinges and some in the Far East, carefully selected for their integrity "to fit our philosophy and design" says Tim. "We never offer a generic solution," he adds "it's a high performance product every time."

Speaking about UKCA Tim says while it is an expensive process, as a lot of products are involved, "it is important to have it; every industry has the same burden to solve".

So how does the firm plan to keep the success going? "Service is the

Service is the next challenge, That's the key differentiator going forward. Using technology at every stage and offering rapid service is where future development lies" Tim Cooke

next challenge," says Tim. "That's the key differentiator going forward. Firms like Amazon have set a benchmark for consumers with same-day delivery and the demand now is to drastically reduce times from quote to delivery. This is an age when you can get a generic product in an hour. We offer a bespoke service so we won't be able to deliver in an hour but then we are not offering a generic solution."

To meet this challenge the business has invested in improving and upscaling its website, CRM and production systems as well as investing in CNC equipment. "Using technology in products and service – for every stage from quote to dispatch – and offering rapid service is where the future development lies."

Tim says the joy in the business comes from developing custom products. "We love designing solutions. Architectural specifiers like lzé and doorset manufacturers work with us because they are trying to find something unique. Sometimes it's a designer's dream, other times it's just a tweak to give something a different twist. Our hands can be tied with certification but the aesthetic of concealed hinges for instance has opened up a lot of opportunities."

With rock solid foundations, bespoke offerings and future developments already in place it's looking like another 150 years for Cooke Brothers is assured.





From top: Bentley Mulsanne interior; Hong Kong airport, Nine Elms, Aga and Cooke Brothers HQ



fully-integrated access management solution from Abloy has been installed at the newly-opened Nokia Arena in Tampere, Finland. With a capacity of 15,000 people, the visually-striking Nokia Arena is an indoor arena that sits atop of Tampere's railway tracks in the heart of the city. It hosts large cultural events and ice hockey games including the 2022 Men's World Championship. It is also the home arena of Ilves and Tappara of the SM-liiga. The arena includes a restaurant, hotel and casino and is one fifth of a mixed-use development that includes five residential towers. The towers that are included in the masterplan development are underway.

The overall vision was designed by Daniel Libeskind and other studios involved were SRV Rakennus Oy, and local partner ARCO Architecture Company.

To ensure safety and security for the passage of its anticipated one million customers per year, plus 600 permanent staff and numerous temporary workers during events, the arena needed to separate public areas from premises accessible only to employees or hotel guests.

The solution implemented by Abloy combines the assets of ABLOY OS access control, including overall management and access rights to smart devices, electromechanical PROTEC2 CLIQ locking products and keys, wireless Aperio door handles and ABLOY EXIT push bars.

In the arena, the doors are opened with access rights stored on mobile devices and wristbands. "For example, The locks are integrated into the work shift system of the arena's restaurants. Access rights are granted immediately" Mikael Ermala

Above: the entrance to the arena; right: access solutions from Abloy an ice hockey team training in the rink does not have to worry about losing or returning keys to the right place when their access rights expire at the end of the session," says Jani Helenius, property and security manager at Nokia Arena. When granting access, it is also possible to determine which premises can be accessed and at what times.

"The locks are integrated into the work shift system of the arena's restaurants," says Mikael Ermala, key account manager at Abloy. "For example, when a waiter arrives at the beginning of his or her shift, the access rights granted to the person immediately take effect in the necessary premises."

Directing an audience of 15,000 to safety in case of emergencies is essential. That's why the locks on the arena doors are integrated with the fire safety system. Smooth evacuation is ensured by ABLOY push bars, so that the doors open quickly and easily when needed.

"Nokia Arena is a striking example of security trends, where access rights are becoming digital and door environments are touchless," says Jari Perälä, vice president, domestic sales and marketing, Abloy Oy. "In this development, various human resources, space and access management systems are integrated."









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MAKING AN ENTRANCE



What should architects and building contractors consider when specifying apartment entrance fire doors? **Mark Kilbride** provides some answers

hen specifying fire doors for the entrances of residential apartments, there are two key elements to consider: fire protection and security. Only when the door provides excellent safety features and robust protection against burglary is it performing its primary role.

Here is an overview of those two considerations, as well as why style must also be high on your list of priorities.

Fire protection – the top priority

The first and most important consideration is fire protection. Any fire door must be installed with the correct and compatible components, which will be detailed on door leaf's fire certificate. These will be fire tested and include the door leaf, door frame or lining, intumescent seals, smoke seals, hinges, latch or lock and door closers.

All fire doors should be tested to either BS 476 22 or BS EN1634-1. It is also important that the ironmongery used has also been through the same tests and the door material and fitting methods are the same. Ordering a door as a doorset means that one team is in charge of what can be a confusing minefield and can assess any conflicting information.

Equally important, the door should include intumescent fire and smoke seals. These should be in a good condition, fit the full length of the door and be secure in the groove. If possible, they should also be fitted in one continuous length.



As the first barrier to the outside world, apartment entrance fire doors should provide formidable protection against burglars. This means they must be fitted with robust security hardware that has met the requirements of recognised security certifications.

In England and Wales, new builds require entrance doorsets to have met the security requirements of PAS 24, the standard designed to assess the security of the doorset against the effects of an opportunistic burglar. Either that or they are required to have a stipulated level of security as dictated in Approved Document Q. Also look out for lock cylinders that have been certified with the TS007:2014 standard - ideally with the highest three-star rating. This means they will provide maximum security against known attack methods such as cylinder snapping and lock manipulation.

Style – the secret ingredient

While fire doors are traditionally seen as more functional than attractive, style is a major consideration when it comes to living spaces. After all, no one wants an unsightly door in their home.

There are various options available that provide a range of styles for maximum elegance and integration into the home. Many of these offer the ability to customise various parts of the door depending on requirements, such as the handle, the viewer and the intumescent seals.

New builds require entrance doorsets to have met the security requirements of PAS 24...to assess against the effects of an opportunist burglar"





For example, XL Joinery's new PAS24-accredited Simpli Advanced® range combines high-grade, FSCcertified oak wood with fire and security hardware from ASSA ABLOY. This enables the doors – which are available as either FD30S or FD60S – to deliver formidable smoke and fire resistance while visually enhancing any living environment.

When choosing apartment entrance fire doors, make sure they offer highclass fire protection, strong security and an attractive design that you would be happy to have in your own home. With all three of these things in place, you cannot go wrong.

Mark Kilbride is technical manager at XL Joinery.

Above, left and opposite: XL Joinery Simpli Advanced® range If a fire door has appropriate fire test evidence, is properly made by a BWF certified manufacturer, with compatible parts, and certified by an accredited third party, it should hold back a fire for 30 minutes or more"

FIRE DOORS 101

Fire doors are a really important element of your fire safety strategy. If a fire door has appropriate fire test evidence, is properly made by a BWF certified manufacturer, with compatible parts, and certified by an accredited third party, it should hold back a fire for 30 minutes or more. They are a legal requirement for flats which open onto communal areas shared with other tenants. This is to make sure crucial escape routes are protected if a fire breaks out.

The components of a door hinges, seals, handles and glazing - are as important as the door itself. This is because, in a fire, doors can warp, move and allow smoke and fire through the opening. The seals and the gaps between the door frame and the wall are really vital too. They also stop smoke and fire spreading as quickly. Also make sure you have appropriate door closure mechanisms - the wrong 'closers' can physically damage frames and hinges through slamming, as well as causing injury to the people who use the doors.

Modern doors are equipped with what's called intumescent strips and cold smoke seals. Older 'notional' doors may not have these fitted, and are often fitted into frames with a 1 inch or 25 mm door stop. The 'notional' door may be suitable in place if it is not warped or gapped to the extent that it requires replacement, its replacement will be a modern style fire door. Where doors are replaced that are required to be fire resisting they should not be replaced by ordinary doors and the person replacing the door should ensure that the door is a fire door. SOURCE: LONDON FIRE BRIGADE



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ALL Change

When the Building Safety Bill comes into force it will radically reform the UK construction sector. **Douglas Masterson** explores which elements will have the most impact on the AI industry

ollowing the Grenfell Tower tragedy, Dame Judith Hackitt's Independent **Review of Building Regulations** and Fire Safety, (the Hackitt report) found that the regulatory system for high-rise and complex buildings was not fit for purpose. The UK Government has committed to implementing these recommendations which include new measures in the Building Safety Bill as well as additional changes to fire safety legislation in the Fire Safety Act 2021. Although the bill is limited to England, it is felt that the other devolved nations in the UK will adopt their own versions to tighten up on building safety requirements UK-wide.

Whilst there are many aspects to this Bill, the following are some elements which are most relevant to our sector:

New construction products regime

The Building Safety Bill will create powers to strengthen the regulation of construction products placed on the UK market to ensure that all products are covered by a regulatory regime. Regulations made under these powers will introduce a new requirement for construction products to be safe, in line with the existing approach for consumer products. The UK Government will also create new requirements for products that



Douglas Masterson, GAI Technical Manager

Manufacturers will be required to declare their performance, put in place controls and withdraw products that don't comply"

are 'safety critical', where their failure could cause death or serious injury to people. Manufacturers of these products will be required to declare their performance, put in place factory production controls to ensure that products consistently perform in line with this declaration and to correct, withdraw and recall products that don't comply with this or that present a risk. This is of huge importance to our industry as these products will be treated in a similar manner to those under the scope of existing harmonised standards, requiring third party testing and conformity marking.

The GAI has now polled its membership to see which products members feel should be deemed as safety critical products and have compiled a list which will be forwarded on to the UK Government and other bodies such as CPA and BSI in due course.

Competence

An increase in levels of competence across the sector will also be at the heart of the Bill as it makes provision for regulations regarding the competence of those involved in work that needs to comply with building regulations. In addition to the publication of the new British Standard Flex 8670, the BSI is in the process of creating new standards which will hugely impact three key roles including Principal Designer (PAS 8671), Principal Contractor (PAS 8672) and Building Safety Manager (PAS 8673). The GAI is directly involved in the creation and review of each of these standards.

The GAI is also involved in a number of steering groups focused on improving competency of wider construction professionals specifying building products. The most recent appointment in this arena is GAI **»**



BUILDING SAFETY BILL & TRANSITION

* Hoyal Assent (HA) is anticipated 9-12 months after introduction.
We intend for provisions marked RA + 12 months to come into force within six to twelve months of Royal Assent.

We intend for provisions marked RA + 18 months to come into force within twelve to eighteen months of Royal Assent.

appointment to a sub-committee of the Interim Industry Competence Committee (IICC) which has been set up to provide strategic leadership and oversight of industry's work to facilitate improvement of competence in the built environment industry. The role of this sub-committee will be to establish a baseline for competence through research of existing industry schemes and providing a gap analysis thereof to HSE.

As GAI technical manager I currently act as co-chair of the Competence Steering Group's Working Group 12 for construction products and am helping to steer the introduction of a new Construction Product Competence Framework for industry which will be further developed for the ironmongery industry. I am also part of Working Group 7 and the PAS 8671 standard steering group. Within this the GAI will be representing the building products sector to help shape the competency frameworks for those working with fire safety products including principal designers, architects and engineers.

Golden Thread of information

The Bill will require those designing and constructing higher-risk buildings to

develop a golden thread of information. This will be to ensure the information is accessible, accurate, up to date, transferable, secure and has longevity. The usage of Building Information Management (BIM) can be seen as a way of assisting in this process.

The GAI has created 35 BIM Product Data Templates (PDTs) for door hardware and seals which will assist manufacturers to create their own Product Data Sheets, and therefore assist with the provision of structured data. In addition to this I am currently chair of the shadow BIM Fenestration Relevant Authority which is working on a number of other sector PDTs including doorsets and window hardware, working jointly with Glass and Glazing Federation.

The Building Safety Bill will have huge repercussions on the construction industry. These reforms will tackle bad practice head on, building on Dame Judith Hackitt's findings which highlighted a need for significant cultural and regulatory change across the entire UK construction sector. The GAI is proud to play its part by contributing greatly as representatives of the construction product sector in a number of key areas. ■

The Building Safety Bill will have huge repercussions on the construction industry"

TIMELINE

The Building Safety Bill was published on 5th July 2021, and at time of writing is at Committee stage in the House of Lords. There are still a number of stages to go before Royal Assent, but it is anticipated that this will be during 2022. Following Royal Assent, a timeline has been given where certain changes will be expected including:

at Gateway 7

Within 12 months:

 Additional powers for the regulation of construction products, including paving the way for a national regulator for construction products.
 Changes to the Regulatory Reform

(Fire Safety) Order 2005.
Strengthening the powers of the Architects Registration Board to manifest the competition of architects.

monitor the competence of architects. Within 12 to 18 months:

Within 12 to 18 months:

Setting up the Industry Competence Committee within the Building Safety Regulator.
The requirement to create, hold and maintain the golden thread of information.

• New requirements for construction products included on the safetycritical list and the requirement for construction products to be safe, with strengthened oversight and enforcement powers to be used by the national regulator for construction products to operate effectively.





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This GAI Diploma builds on the product knowledge already gained in the Certificate in Architectural Hardware and seeks to bring application through developing scheduling skills. The course imparts how to write accurate hardware specifications and have confidence in discussing ironmongery requirements with clients.

CPD Programme

The CPD programme is the single most important way that those who have attained the GAI Diploma can develop their abilities and set themselves apart as architectural ironmongery professionals and become a Registered Architectural Ironmonger (RegAI).

Fire Door Inspection Scheme (FDIS)

FDIS provides education which is essential for anyone working with fire doors and escape doors. Transforming knowledge and understanding about the critical role of fire doors and how they can save lives and protect property.

Find out more at gai.org.uk/education

Guild of Architectural Ironmongers

Guild of Architectural Ironmongers, 6 Bath Place, Rivington Street, London, EC2A 3JE

NEW PRODUCTS >>



CODELOCKS RELEASES KITLOCK WITH NETCODE

Codelocks announces availability of its new KitLock, the KL1000 G3 NetCode. The new locker lock combines the style and functionality of the KL1000 G3 KitLock with the convenience of Codelocks' NetCode technology – enabling administrators to generate temporary date and time-sensitive access codes.

The KL1000 G3 NetCode can be set up to provide either short or long-term access for users and includes all the features introduced with the KL1000 G3 – including a key override function, easy access to the battery compartment and the option to include Slam Latch for fast 'push shut' closure.

The NetCode Function enables lock administrators to generate a single-use code via the online Codelocks Connect Portal or by utilising the Codelocks Connect Application Programming Interface. The code can then be sent by text or email – giving the recipient access to the locker on a specified date and for a set period of time. NetCode works by using time and date-based algorithms, synced between the lock and software upon initial programming. WiFi isn't required – this helps customers to generate NetCodes and manage access control wherever they are, even in the most remote locations.

Private and public Functions make it suitable for schools, offices, and leisure facilities where lockers may be allocated on either short or long-term basis, and the NetCode Function makes it useful for visiting service engineers, delivery personnel and venues where staff might want to grant short-term access via a simple text or email.

KL1000 G3 NetCode has a modern chrome effect finish that reflects the locks surroundings – giving it a slimmer, subtle aesthetic. Customers can choose to add Clean by Codelocks, an optional antibacterial finish which protects against viruses, bacteria, and environmental toxins.

codelocks.co.uk/g3netcode

BRITON WEBSITE ACTS AS RESOURCE HUB

Briton has followed its brand refresh with a new website. The door controls and exit hardware brand's new site concentrates on providing customers with improved functionality and a wide collection of essential resources.

The website brings together the full product portfolio of Briton Door Controls. It will act as a central resource hub and will include detailed product listings with features and specifications details, downloadable certification information, and a refreshed set of supporting product datasheets and literature. In addition, a new automatic Door Closer Calculator and product selectors will further help users by recommending the most suitable products for their projects.

briton.co.uk



FRANCHI RANGE IS ARCHITECT DESIGNED

Franchi is offering a new range of architectural products based upon an original design by renowned British architect, John Pawson CBE. GEO is a range of door, window and washroom products.

Pawson's body of work spans an extensive range from private houses, sacred commissions, galleries, museums, hotels, and yacht interiors. His method is to approach buildings and design commissions in precisely the same manner, on the basis that "it's all architecture".

Its form is based on a threedimensional interpretation of the geometrical stadium shape that has been a prominent feature of architecture for centuries. The products have been engineered to withstand the most rigorous commercial environments yet keep a minimalist design aesthetic.

The Geo range is available in multiple finishes. The PVD coating creates a hard-wearing, corrosion, and tarnish resistance producing a metallic finish. PVD provides a sustainable solution for projects where building performance and environmental responsibility are key considerations: it has no toxic by-products.

franchi.co.uk





NEW DOORSETS AIM TO BRING STYLE TO APARTMENT FIRE DOORS

XL Joinery has launched Simpli Advanced® range of highperformance fire doorsets which combine oak door manufacturing with hardware from ASSA ABLOY.

The range has been launched to offer aesthetics with safety. It combines FSC® certified oak doors with the highest specification safety and security components.

The doorsets range is available in a choice of styles and can be matched to XL Joinery's range of internal door designs – including Suffolk, Palermo and Monza – and the oak, handle, viewer and intumescent seal are all available in a choice of finishing options.

Available with either FD30 or FD60 fire protection, the doors offer protection against fire. Batwing® drop and perimeter seals from Lorient work together to prevent the passage of smoke and fire to other parts of the building, while the closing force of the ASSA ABLOY door closer ensures reliable closing every time.

Simpli Advanced® also features the PAS24 and Secured By Designapproved Yale Platinum three Star Cylinder for protection against the common attack method of locksnapping, and for added protection, the FD60 option features the Yale Lockmaster lock and deadbolt.

The doors come pre-fitted and can be installed in 20 minutes. The Simpli Advanced® range comes with a 10-year manufacturing guarantee.

https://tinyurl.com/m6cpbdvr



TECTUS HINGES ACHIEVE CERTIFIRE CERTIFICATION

SIMONSWERK UK's TECTUS range of concealed hinges has been approved for the Warrington fire CERTIFIRE certification scheme.

CERTIFIRE is an independent third-party certification scheme that assures fire protection products' performance, quality, reliability, and traceability. The scheme is



recognised by regulatory authorities worldwide, it is an internationally respected mark of fire safety and one of the most authoritative in the industry.

Following stringent tests and further assessments, the TECTUS is the only CERTIFIRE approved multi-axis concealed hinge on the market.

Robin Guy, SIMONSWERK'S UK's managing director said the certification "gives both our customer and the end-user the confidence and reassurance that the products carry the mark of a reputable third-party certification body. It gives assurance on the performance of the products, particularly following the understandable stringent requirements on products to meet additional fire test standards due to recent tragic events".

simonswerk.co.uk

SECUREFAST RELEASES CERTIFIED



The Deedlock AL900 series of Electric Releases from Securefast have been certified to the EN 14846 performance standard and fire rated to EN1634-1 for 30 minutes on timber doors. The product has also been fire rated to BS 476 22 with a timber door company for 60 minutes duration. Available with latch monitoring or dual monitoring the AL900 Electric Release is supplied with both a long face plate for timber doors and a short face plate for metal doors and can be set for fail locked and fail safe by simply a rotating a screw.

With 12 and 24V DC selectable on site, the ANSI mortice electric releases have a jaw strength of 1000 lbf (4448N / 434kgf) and are suitable for latches with up to 15mm throw.

An intumescent pack (SINAL900-1MM) is available to suit the electric release for fire rating the product. The AL900 series is an easy replacement for Adams Rite, Trimec and Alpro electric releases with extension lips available to compliment the range in sizes 10mm, 25mm and 50mm.

securefast.co.uk

ZEROPLUS INCREASES SCOPE OF FIRE-RATED PRODUCT

ZEROplus's FBLS Fire Block Louvre System is now suitable for use in previously successfully tested steel fire doors to BS EN 1634-1:2014.

The FBLS still offers up to 240 minutes integrity protection. The firm has increased the size scope it can offer to a maximum square cutout of 660mm wide x 660mm high, and a maximum rectangular cut-out of 483mm wide x 1676mm high. The FBLS is now suitable for 240-minute steel integrity only fire doors to BS EN 1634-1:2014.

Although this new testing and size scope only relates to fire-rated steel

doorsets, the FBLS is still assessed for use in previously successfully fire tested timber doorsets for both 30 and 60-minute durations, again to BS 476: Part 22: 1987, to a maximum aperture size of 610mm x 610mm.

zeroplus.co.uk

GAI TECHNICAL

GAI members can avail of a wealth of technical information which is all available on the GAI website.











1. Technical Briefings

Regular briefings on relevant industry topics. Everything from BIM to BS and EN standards to UKCA Marking are covered.

2. GAI Guides to Standards

A library of over 20 guides to the most relevant British and European standards which impact the ironmongery industry.

3 Quarterly Technical Review

This publication which is updated each quarter provides the proposed timetable for changes, amendments or revisions to BS and EN standards, as well as keeping members informed on any new relevant publications or consultations.

4 GAI Specifier's Guides

A complete set of eight guides relating to ironmongery and access control product for the Construction industry. These are aimed at assisting all who are involved in the specification process from the architect, architectural technician, interior designer, M&E consultant right through to the specifying architectural ironmonger. Topics covered include ironmongery in a post-pandemic world, the internet of things, accessibility, access control and ironmongery for fire and escape doors.

5. BIM Product Data Templates (PDTs)

A series of 34 templates which are available for GAI members to populate with product information to create Product Data Sheets – this will assist with having your product ranges "BIM ready".

6 RIBA Approved CPDs

The GAI now have ten CPD presentations which have been approved by RIBA and these are all available to GAI member companies for their architects and specifiers. These cover a broad spectrum of topics from accessibility right through to internet of things. As these have been approved by RIBA they are all worth double points to RIBA members.

For further details contact GAI Technical Manager Douglas Masterson on **technical@gai.org.uk**





STILL STANDING

In the first of a series on iconic products we feature the doors to the Pantheon in Rome

he large bronze doors to the cella, at the Pantheon in Rome measure 4.45 metres (14.6 ft) wide by 7.53 metres (24.7 ft) high and are the oldest in Rome. The present version, which has survived almost 2000 years, was built by Hadrian between 118-128 AD.

These were thought to be a 15thcentury replacement for the original, mainly because they were deemed by contemporary architects to be too small for the door frames. However, analysis of the fusion technique confirmed that these are the original Roman doors – one of only three buildings in ancient Rome to have preserved its original bronze doors, despite cleaning and the application of Christian motifs over the centuries.

Despite the massive size of the doors each one can be pushed or pulled open by one person. Each half of the double door weighs 8.5 tonnes, and rotates on pins set into the floor and the architrave above. An ingenious but laborious and little understood system allowed removal of the wooden architrave and replacement of the pins which tend to wear. In 1757, an attempt to keep the door working by replacing the pins failed and the whole thing fell, killing the foreman trying to remount it. The right door was left totally

blocked and the left door would open

Above and right: They don't make them like they used to: the massive bronze doors to the Pantheon



only partially. Two centuries later, after much careful study, using just soap and specially-made plates to slightly lift the doors, the pins were replaced, the doors put back into their seats, and finally both could be opened and shut.

It was 1998; the doors had not been

fully opened for 241 years. ■



GAI RIBA APPROVED CPDs

The GAI have created ten CPD presentations which have all been approved by the Royal Institute of British Architects.

As they are RIBA approved this means that architects will be able to receive double learning points for attending a presentation of the CPD.

These CPDs are all available to member companies to purchase and deliver to their architects and specifiers. These can also be delivered online.

For further details including pricing please contact Douglas Masterson, GAI Technical Manager on technical@gai.org.uk The following CPD presentations are available:

- Ironmongery specification in a postpandemic world
- Installation of fire door assemblies and associated ironmongery
- Ironmongery and the impact of the environment
- Ironmongery and the impact of the Internet of Things
- Ironmongery and security
- Ironmongery and accessibility
- Ironmongery for fire and escape doors
- The specifier's guide to access control
- Ironmongery for specialist applications
- An architect's guide to door hardware



Guild of Architectural Ironmongers

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Door Closers for Flat Entrances

Apartment block residents can range from the elderly to the young and includes those with varied physical capabilities. It is, therefore, imperative that residents, landlords and building owners alike have the reassurance that any fire doors are easy to use and do not negatively impinge the access of residents.

For more information about the wide selection of door closers dormakaba offer, download our 'Door Closers for Shared Dwellings' brochure.





To find out more about the wide range of solutions that dormakaba offer for the Multi-Housing Industry, visit out website

www.dormakaba.co.uk

info.gb@dormakaba.com