AUTUMN 2016

ARCHITECTURAL IRONMONGERY JOURNAL

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The Queen Elizabeth University Hospital in Glasgow has installed GEZE automatic swing doors and sliding doors into its ultra-modern design as part of a £842m development.

The automatic doors were part of a design concept which incorporated light and space as part of its requirements. A total of 17 automatic doors, which included Slimdrive SL NT sliding operators and Slimdrive EMD-F and TSA 160 NT swing doors, were installed into the new state-of-the-art complex.

GEZE doors were also integral to the £14.5m refurbishment of the Art Deco Liverpool Philharmonic Hall. Built in the 1930s, it is a contemporary arts and entertainment venue so functionality had to be fused with sensitivity within the Grade II listed building. Improved accessibility needed to be incorporated and the remotely located control box was concealed within the Art Deco fittings. The solution was found in GEZE UK's TSA 160 UFO automatic under floor operator for swing doors.

Building contractor Gilbert Ash had to incorporate the new with the old – a bank of timber-leaved doors with etched glass insets that front the imposing building. The doors were designed by architect Herbert Rowse as one of its many decorative elements.

These two projects are part of a suite of builds that incorporated GEZE product. Other recent projects include The Wing - a new visitor and education centre for the Battle of Britain Memorial Trust in Kent; a luxury car dealership in Birmingham; and a flagship store for Waitrose. GEZE's Manual Sliding Wall (MSW) with SmartGuide system and Pureline cover profile, was specified by Glassedge, which was commissioned to install the feature at Bentley Sytner, in Birmingham. In Chester, architectural glazing specialists Glassolutions has created a unique curtain wall system for Waitrose that allows glass façades to visually float. The automatic doors needed to integrate with this design.







The number of people with Fire Door Inspection Scheme Diplomas is set to increase in the coming months. Nearly 80 employees from a major facilties management company have signed up to undertake the Diploma training.

The FDIS Diploma has gone from strength to strength

since it began in 2012; the past four years have seen 955 candidates sign up for the training.

The scheme aims to transform knowledge and understanding about the critical role of fire doors and how they can save lives and protect property. This principle underpins the seven modules that make up the Diploma's syllabus.

Over 30 successful Diploma holders have gone on to become FDIS Certificated Inspectors. These highly qualified individuals carry out onsite inspections of fire resisting and escape doors in existing or new buildings. These inspections can form an essential part of any fire risk assessment which is a legal requirement under the Regulatory Reform (Fire Safety) Order.

For more information about the scheme go to www.fdis. co.uk or contact Kevin Hulin at kevin@fdis.co.uk

ALLGOOD OFFERS SPECIFYING HELP

Allgood plc has launched a RIBA accredited CPD seminar to demystify architectural ironmongery specification.

The interactive presentation provides architects with the opportunity to gain a detailed understanding of how to successfully specify ironmongery. It covers best practice advice, outlines the common issues often faced by architects and details standards and regulations set out in Approved Document M and BS 8300.

Considering the five essential steps to ironmongery specification – hang it, close it, lock it, open it and dress it – attendees of the CPD will leave confident of approaching the specification process.

Franz Lorenschitz, marketing manager at Allgood said: "Specifying the ironmongery for a specialist or large project can seem like a daunting task – especially with each door often requiring specific features, for example, additional security, acoustics or aesthetics. Our CPD seminar will address these issues."

To book a RIBA accredited 'Demystifying Ironmongery' CPD, see www.allgood. co.uk/news.asp?info=CPD&start=6

ASSA ABLOY ACHIEVES THE CARBON TRUST VERIFICATION

ASSA ABLOY UK's primary manufacturing site has achieved verification from the Carbon Trust that it provides a zero waste to landfill operation.

The Portobello site, in Willenhall in the West Midlands, has achieved the verification, confirming that all waste types from ASSA ABLOY UK are subject to legislative control in either their handling or disposal.

The Portobello site is one of 14 sites to achieve zero waste to landfill status by 22 December 2015.

Matthew Daly, UK business improvement and sustainability manager, said this is part of a wider sustainability strategy. "During 2015, we successfully completed our five year sustainability program, which included reducing energy consumption intensity by 15% and carbon emissions by 10%. We are now launching a new sustainability program extending to 2020, with increased ambitions."

SCOTTISH ARCHITECTURE CELEBRATED

The Royal Incorporation of Architects in Scotland (RIAS) celebrated its Centenary Awards Dinner, in Glasgow, during the summer, recognising a host of architectural achievements in Scotland.

Sponsored by GEZE, who also presented one of the awards, there was a 23-strong shortlist vying for 11 awards which highlighted an eclectic range of projects – from a town centre redevelopment, a variety of new learning environments, a lookout tower with oil-rig style construction and views of the Flow Country, and the redeveloped British Golf Museum and Café at the famed home of golf, St Andrews.

Andy Howland, sales director for GEZE UK, presented awards to the joint winners in the category for Commercial/Industrial. They were the Taylor Architecture Practice (pictured below with Andy, right) for the development of Castle MacLellan Foods in Kirkcudbright (contract value: £3.8m) – the creation of a riverside industrial building; and Michael Laird Architects/ Reiach and Hall Architects, for the City of Glasgow College, Riverside Campus, Glasgow (contract value: £66m), which created a new landmark on a major crossing of the River Clyde, organised around two civic spaces – a cloistered garden and a grand hall. It was the third year running that GEZE UK has been

It was the third year running that GEZE UK has been one of the key sponsors for the event.



TATE SOLUTIONS OPENING DOORS AT JOHN LEWIS

Shoppers enjoying a visit to the new John Lewis store at Birmingham New Street Station are benefiting from trouble-free access, thanks to the installation of automatic swing door systems installed by Tate Solutions, part of the Securefast group.

The 250,000 sq ft flagship store is the largest John Lewis retail shop outside London. Huge demands are placed on doors in retail buildings; in particular the main entrance opening, back of house storerooms and restaurant areas where the footfall is high. Tate Solutions was tasked to provide accessibility and conformance to building and fire regulations.

The type and style of automatic door operators was crucial both to accommodate the high volume of traffic, trolleys and pushchairs. Designed both for performance and for its aesthetic appeal, the Tate EMD-F was chosen. It is an

was chosen. It is an electro-mechanical drive system for hinged doors particularly suitable for installation on narrow profiles and where space is at a premium. It is highly compact technology: it will move large and heavy internal and external doors, effortlessly and with virtually no noise via a high performance, lowwear motor and gears.



JOHN PLANCK LTD CELEBRATES 25 YEARS

John Planck Ltd, the Kent-based Al, celebrated 25 years of successful trading in July, with employees past and present, customers and suppliers all attending an evening event at the Historic Dockyard in Chatham, with HMS Gannet and the Commissioner's House as a backdrop.

Since John Planck founded an ironmongery business in 1991, the business has had the privilege of working with with some of the UK's most renowned architects, designers and building contractors on projects that include the multi-award winning Royal Opera House refurbishment as well as numerous other prestigious developments in Kent, London, the rest of the country and overseas.

Managing director, Tom Planck took the opportunity to recognise and celebrate his father, John Planck's endeavours and achievements when he addressed the guests on board the ship HMS Gannet.

Tom said: "The most important thank-you goes to Dad – without your vision and foresight, your positivity, your daring and bravery, none of us would be here today, so on behalf of past and present colleagues, thank you."

FEEDBACK REQUEST

In the next issue of AIJ we will publish feedback from you on the magazine, so let us have your opinions on what you've read.

Email nicky@atompublishing.co.uk. Please use Letters to the Ed as your subject header.

AIJ PEOPLE

NEW MANAGERS AT SIMONSWERK



UK door hinge manufacturer SIMONSWERK has appointed two new managers:

Tim Goss as national sales manager and Stephen Slater as operations manager. Goss has worked within the ironmongery and access control industry for over 35 years having worked at Allgood PLC for 22 years as well as roles with d line and Securefast.

DipGAI qualified, Goss will be responsible for managing SIMONSWERK's broad portfolio of accounts, developing the customer base and working closely with architects and specifiers.



Slater takes on a newly created position, to support the growth of

the company and will be responsible for all aspects of the business.

ACCOLADES FOR HOPPE MANAGERS

Two of HOPPE UK's most experienced door hardware experts have received recognition from the IAI.



Andy Matthews, head of sales for UK and Ireland, was awarded the

IAI's most prestigious accolade – the IAI Fellowship Award – for 2016. Andy was praised for his tireless work championing the value of IAI membership, and in particular, promoting RegAls.



Karen Nelson RegAl business development manager with specialist

expertise in hinges has been appointed as chairman of the IAI's Midlands branch (see p14).

GEZE UK STRENGTHENS SALES TEAMS

GEZE UK has made two new appointments. Steven Lees has joined as specification manager responsible for products delivered in Scotland and the North of England.



Lees previously worked for Allgood as specification sales manager

supporting Glasgow architects. He has also worked in sales for Dorma UK and on two occasions for Samuel Heath and Sons, spearheading sales in France, Belgium and Switzerland and latterly, Scotland, Ireland and the Channel Islands. He has a BA in European Business Studies and is DipGAI.



GEZE UK has reinforced its presence in Scotland with the appointment

of Rodger Allan as area sales manager for automatic door systems.

Allan will work closely with fabrication companies as well as architects, specifiers and contractors. Previously, he worked for Velux as an area sales manager and latterly for Kawneer UK as an architectural advisor.

IAI PAST CHAIR TO RETIRE



Haywood, area sales manager South West Region for

GEZE UK and a past IAI chair is retiring after 17 years with the company and an entire working life in the AI industry.

Haywood began his career age 17 as an apprentice with a builders merchants. His career includes time at Lloyd Worrall where he gained his GAI qualification in 1983 and included starting a new AI firm in Portsmouth. He joined Adrian Stokes Overseas Ltd where he developed a knowledge of the Middle East and Far East markets, eventually becoming overseas contracts director handling contracts up to £1.25m. He joined GEZE UK in 1997 on return from the Middle East .

Haywood served on the GAI education committee and was IAI Chairman for two years.

"Without a doubt this industry has supported me over the years; I could not have made a better choice for a career. The people I have met are far too many to mention, but I thank every one of them for their time and friendship over 49 years," Haywood says.

ALLEGION GROWS TEAM



Allegion has brought in Marc Lenaghan to manage UK, MEA and

Turkey regions' commercial activities, and Mark Yearby has joined the team to drive quality improvements for the UK/EMEIA region.

Lenaghan joins from Crown Paints, where he held the role of commercial manager for international sales. His primary role will be to develop and implement growth strategies to generate sales and increase market share in the UK, MEA and Turkey. Mark Yearby,



as a quality control specialist, will take on the role of senior

quality manager and will be focused on improving quality standards within the UK/EMEIA regions.

Yearby has held various roles across global companies including Aston Martin Lagonda, ZF TRW and Schneider Electric.

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The National Key Scheme (NKS) offers disabled people independent access to locked public toilets around the country. As part of the National Key Scheme, our official, new 5th generation RADAR lock has been designed to be retro-fitted to replace existing lock systems, to overcome problems associated with copy locks circulating in the market place.



DUBAI DESIGN WEEK RETURNS

After a successful inaugural event in 2015, the Middle East's biggest celebration of design returns for a second year. Dubai Design week runs from 24–29 October, with more than 100 events taking place over six days. The event expects to attract design aficionados, designers, architects and thought leaders from over 150 of the world's leading studios, agencies, brands and educational institutions to present work, exchange ideas and showcase innovation in design.

Events during the week include trade fair Downtown Design, bringing together international brands and buyers from the MENASA region showcasing products across furniture, lighting, bathrooms, kitchens, textiles and accessories. Global Grad Show is an exhibition of innovation, inventions and technology by the world's next generation of design talent with 135 projects from 51 of the leading universities in 30 countries.

Named after the Arabic word for 'doors', the Abwab initiative is dedicated to exploring the design narrative of countries within the MENASA region. This year, emerging and established graphic designers, product designers, photographers and architects from Algeria, Bahrain, India, Iraq, Palestine and the UAE respond to the theme of 'The Human Senses'. Abwab's temporary pavilion this year has been designed by UAE-based practice Hypothetical Office. There will also be an exhibition, 'Iconic City: Cairo Now!' as well as a series of 15 public, site-specific installations by renowned international, regional and local designers and a daily programme of talks and workshops. www.dubaidesignweek.ae.



NEW LAB OFFERS COMBINED COMPLIANCE

UL, a safety science company, is opening a new testing facility in the UK to serve the European market. The state-of-the-art lab will specialise in mechanical testing of doorsets, windows and building hardware for safety, security and performance requirements. Located in Warrington, UK, the lab will help manufacturers achieve product compliance, increase speed to market, cut costs and improve market success – in Europe, North America and in other global markets.

The new facility will offer:

• Testing for North American standards that will allow customers to go on to certify for the European, North American and Middle Eastern markets.

• Tailor-made testing programmes to assist the product development process, to help avoid future failures, to identify potential non-compliances and to accelerate product certification.

 Bundling of testing and certification services with UL's certification bodies for streamlined global market access.
 Contact with a single team of

• Contact with a single team of test experts.

• Quick turnaround service for accelerated time-to-market.

From pre-testing of new products to testing for compliance and acceptance prior to entry into target markets, the new facility offers a wide range of mechanical tests, including burglar resistance, durability, impact resistance, mechanical strength, load-bearing capacity of safety devices and weather resistance.

UL will be able to offer testing on many types of door and window products of European manufacturers who need CE marking, but also want to sell their highly specification-driven products in North American or other global markets.

For manufacturers focused on European markets, UL can provide all testing and assessment services in one single evaluation, resulting in the UL-EU mark to accompany CE marking.

The laboratory will also offer help to its customers demonstrating mandatory compliance with the Construction Products Regulation (CPR) through UL as a CPR-Notified Body and mandatory inspection of a manufacturer's Factory Production Control (FPC) systems. The security of doorsets and windows may also be tested for the enhanced security performance requirements against UK standards.

For more information see www.UL.com



Dorma+kaba – the company formed as a result of the merger of Dorma and Kaba in September 2015 – has laid down its plans for development in Germany which will include the loss of 440 jobs.

The group plans double digit million swiss franc investment into producing high tech products. This will involve modernising two of its German sites (Ennepetal and Ocholt), and outsourcing production of standard products to Singapore and Suzhou. Other restructuring is also taking place including moving production at Heiligenhaus to Bad Berka and Velbert. These relocations and realignments are likely to result in job losses in Germany but an increase of around 160 jobs at sites in the Far East. The changes are expected to be complete by 2018.

The first half of 2015/16 financial year saw the Group off to a successful start with sales up 2.6% to CHF 1,135.5m and profit also improved. On a comparable pro forma

basis, EBITDA came to CHF 165.4m (CHF 144.6m reported: four months of former Dorma, six months of former Kaba) and the EBITDA margin rose from 13.7% in the same period of the previous year to 14.6% (15.3% reported). The improved profitability is due mainly to initial cost savings resulting directly from the merger, and to a very healthy performance in North America, Dorma+kaba finished the first half of 2015/2016, its first half year as a merged company, with a pro forma profit of CHF 67.1m (CHF 57.4m reported).



SPITFIRE STUDIOS SECURED BY ALLGOOD TRIO

The modernistation of an historic building in London's King's Cross has incorporated hi-tech access systems from Allgood Trio.

Originally built over 200 years ago, the revamped Spitfire Studios now combines commercial office space with eight residential apartments. Situated next to King's Cross Station in London, the development has aimed to sync modern commercial design with a rustic appearance. The building's interior makes heavy use of exposed brickwork archways and sanded oak floors whilst each door is fitted with access control and automatic door operators.

Allgood Trio designed an advanced security and access control package including a

proximity-based access control system to the platform lift, external and internal doors. These were complemented by audio video entry systems, comprising grade 316 stainless steel entry panels and flush wide screen video monitors that communicated with both commercial and residential spaces.

Discreet underfloor automatic door operators were installed to control the main entrance and lobby doors to create a clean aesthetic without hindering access into the building. High definition CCTV cameras were strategically positioned in and around the building, allowing remote viewing of both live and recorded footage of the entire facility.



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EDUCATION AWARDS • GAI TALK

The GAI Education Awards are back again. We hope you will join us in celebrating the rising stars of our industry – those who have committed to a journey of learning, personal development and professional excellence.

This awards ceremony is the largest and most important event on the architectural ironmongery calendar. It reflects the importance of the GAI's education syllabus as the only recognised programme in the world to deliver architectural ironmongery qualifications to British and European standards. Since the GAI transformed its diploma syllabus and placed all of its education programme on an online Education Hub last year, this interactive training platform has been accessed by hundreds of hardware professionals throughout the world.

The latest examinations were sat by 361 people across all three stages of the programme, at 42 locations in 27 different countries around the world. Overseas learners represented 47% of the total. The results show that 40 students attained the prestigious GAI Diploma (DipGAI) and 87 successfully passed achieved their Certificate in Architectural Hardware. Of those, the highest achievers with the best results in both the Diploma and the Certificate will be celebrated at the Education Awards.

So this year were are expecting to attract more than 400 guests attending from all over the UK, Europe, South Africa and the Middle East. The awards event has become the biggest global networking event for architectural ironmongery learners and their employers.

Please join us on 2 November at the Lancaster Hotel, Hyde Park. Tickets get booked up fast, so do get in quick if you want to take a table.

This year's Education Awards, once again kindly sponsored by Lorient, will provide a wonderful opportunity to reaffirm our commitment to raising the profile of qualifications in architectural ironmongery around the world.

The hard work these outstanding individuals have put into developing their skills and the support they receive from their employers is incredible. Let the party begin!

For more details see page 24.



Members of the South West branch of the IAI listen attentively to a presentation on hinge specification from Robin Guy and Lee Bibby from Simonswerk in July, where Guy also demonstrated some samples.

SPECIFICATION AWARDS OPEN FOR ENTRIES

The GAI Specification Awards 2016/17 are now open for entry. These prestigious biennial awards recognise design excellence in architectural ironmongery specification projects and are awarded to the whole specification team of architect and architectural ironmonger, highlighting the importance of the partnership between these two professional disciplines.

Architectural ironmongers, architects, contractors and building owners can nominate projects in accordance with the different award categories. Nominations should show architectural ironmongery at its beautiful best; enhancing not only the security, accessibility and safety of the building, but also adding to its functionality and longevity.

This year, the panel of judges, drawn from respected Als and architects, will determine a short list of project entries under each category. An inspection team will then inspect and assess each short listed project.

They will be examining beauty, fitness for purpose, functionality and most importantly correct specification and originality. They will be looking for excellence in ironmongery – projects that go beyond the ordinary to exceed expectations. All these factors will be celebrated at the awards lunch in March 2017 at RIBA in London.

There are five categories in total with an overall 'Winner of Winners'.

The categories are:

- Commercial
- Health & Education
- Hospitality
- Residential,
- International

The closing date for entries is Friday 31 October 2016.

For further information on categories and how to apply please visit www.gai.org.uk





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NEW MEMBERS

Dockerills Ltd Brighton, UK. Full member Door Ironmongery Ltd

Birmingham, UK Enterprise member

Doorview Ltd London UK. Full member

GID Ltd Hong Kong Affiliate member

Hafele China China Affiliate member

Poyntell Ltd Kent, UK. Full member

UL International (UK) Ltd Warrington, UK Associate member

Williams Ironmongery Worcester UK. Full member

NEW IAI MIDLANDS BRANCH CHAIR

Karen Nelson RegAl, business development manager at HOPPE, has been appointed as chair of the IAI Midlands Branch.

Nelson has 15 years' experience in the industry and has been with HOPPE for a year.

Although this is one of the Institute's most active and well-supported branches, Nelson has strong ambitions to increase the number of qualified architectural ironmongers attending its meetings and maintaining CPD to gain RegAl status. She also intends to grow the branch's charitable fund-raising efforts.

RIBA APPROVES GAI CPD

One of the latest member benefits from the GAI is a new CPD entitled Ironmongery and Accessibility. This has been approved by RIBA and is being offered to GAI members at a cost of £250 plus VAT. As it is RIBA approved this means that architects will be able to receive double learning points for attending this presentation.

The CPD covers the Equality Act, BS 8300:2009, Approved Document M and its equivalents throughout UK and Ireland as well as Light Reflectance Value (LRV). It also looks at the correct specification of product to comply with the appropriate regulations.

For details email Douglas Masterson at technical@gai.org.uk

GAI LAUNCHES FREE GUIDE TO ACOUSTIC SEALS

A free guide to specifying acoustic seals on door assemblies and doorsets has been launched by the GAI.

K-Series concealed hinges from Royde & Tucker are now approved for Fire Rated requirements to BS EN1634-1.

The K7080-FR for use on 44mm thick timber doors up to 80kg is now 30min FD/E30 approved.

The K7120-FR for use on 54mm thick timber doors up to 120kg now includes 60min FD/E60 fire rating, both hinges are 3D adjustable and come in a wide range of aesthetic finishes and are supplied complete with the correct intumescent pack (FR version) as standard.

For more information please see www.ratman.co.uk/products/concealed-hinges

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HI-LOAD Hinges

The demands of the various Approved Documents of the Building Regulations in England are placing an increasing burden on the specification of doors. Regulations now stipulate that they need to be acoustically rated in addition to being fire and smoke rated.

The GAI *Guide to Acoustic* Seals provides details on how acoustic seals will be affected by Approved Documents E and M of the Building Regulations for England, which focus on resistance to the passage of sound, and access to and use of buildings, respectively.

The guide simplifies the main elements that specifiers should consider in order to meet requirements.

It covers a range of topics including how related test reports should be interpreted, the required standard for test procedures on door acoustics and what makes a good acoustic door.

The guide also gives comprehensive information on how to achieve the highest acoustic rating possible on a standard door, fitting a glazing panel into a door which must provide acoustic performance and putting letter plates into fire rated doors.

Douglas Masterson, GAI technical manager and author of the guide, said: "It is the responsibility of the specifier to look for existing proven solutions to meet, and exceed, requirements of the Building Regulations.

"With this in mind, the GAI has put this guide together to help our members navigate their way through the demands of the legislation and standards which govern our industry."

The guide has been sponsored by Lorient and is available for member companies to download from the members' area of the GAI website. www.gai.org.uk

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K-Series Concealed Hinges



Charles Robinson argues the case for product-specific Environmental Product Declaration in measuring sustainability.

he battle to persuade mainstream opinion that sustainability matters is now largely won. But one day, we may look back on this as the easy bit. Why? Because another problem looms: how can we accurately measure it?

Construction is a particularly complex case, with its vast web of inputs that sustainability must address, from energy, materials and land use to water, waste and pollution. But sustainability matters not just from an environmental perspective; sustainable buildings can be cheaper to run, easier to let and more attractive to investors.

The ultimate goal, perhaps, would be to award buildings a sustainability rating that's as easy to understand as the one for your washing machine. What we need to get there, more than anything, is information. Lots of it; authoritative, detailed and properly audited – so architects can design buildings from the earliest stages to sustainability



Everyone in the supply chain bears responsibility for making sure that the right products are specified" criteria laid down by LEED (Leadership in Energy and Environmental Design), BREEAM (Building Research Establishment Environmental Assessment Method) and others. This is where the Environmental Product Declaration, or EPD, comes in.

Let's rewind a little. What exactly is an EPD? An EPD is a document detailing a product's impact during its whole life cycle. It isn't a certification of environmental credentials per se, but a map of the product footprint, from raw material, through manufacturing, logistics and impact during use, to end-of-life recycling. So-called 'generic' EPDs assess the footprint of a typical product of a certain type; a typical electric oven, say, or a typical mechanical lock.

However, products validated by a generic EPD can be manufactured anywhere, with a multitude of components, finishes, dimensions and so on. A generic EPD only gives a loose indication of a product's environmental impact. They are useful; an impression of the landscape. A 'product-specific' EPD, on the other hand, is like an Ordnance Survey map.

These upgraded EPDs detail a product's precise environmental impact based on a unique bill of materials. They are intensive and time-consuming to create, involving a complete life-cycle study of a single product, manufactured in a specific way. But they give architects the tools to make a properly informed choice. In LEED, BREEAM and similar green building certifications, a productspecific EPD can be worth twice as many credits as its generic equivalent.

Their value recognises that, without this kind of detail, it's impossible to accurately assess environmental performance. Take an example from my own company, ASSA ABLOY. The recent EPD for our SMARTair™ wireless escutcheon details everything from the embodied carbon of the complete product and impact of carton and foam packaging, to the recycling potential of its steel and zinc content, among much, much more. It runs to 10 detailed pages. Across the group, we have now published 250+ product-specific EPDs. They are independently researched by a third party, and then verified by the Institut Bauen und Umwelt (IBU) in Germany.

Creating a mass of trustworthy EPDs has required major investment, of course. It demands adherence to comprehensive standards — in our case, the ISO 14025 and EN 15804. Meeting these standards ensures environmental performance can be compared fairly across products and manufacturers.

Armed with a product-specific EPD, architects and contractors can work with clients to build and run more sustainable buildings. If building sustainability ratings are ever to be as easy to understand as food labels, the EPD is a critical ingredient in the recipe.

Charles Robinson is sustainability manager at ASSA ABLOY Group EMEA.



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NEW KD ON THE BLOCK

Guarav Singhal is aiming to innovate the ironmongery business model and his business is the first to join the GAI in the new enterprise membership category. **Nicky Roger** meets the MBA on a mission aurav Singhal is the young entrepreneur behind online ironmongery business, Door Ironmongery. Launched in 2014, his newest start-up aims to become one of the leading suppliers of door furniture fittings in Britain. It imports directly from manufacturers and supplies directly to end consumers.

Singhal cut his business teeth in hardware companies in India and the UK and now, equipped with an MBA in Electronic Business from Aston University, he is turning his attention to ironmongery.

Door Ironmongery is your third business. Would you describe yourself as a serial entrepreneur or is Door Ironmongery a long-term plan? Door Ironmongery is a long-term business or you can say the previous two businesses were the steps towards well-planned Door Ironmongery.

The first business that I started in India in 2007, I was manufacturing and exporting ironmongery products from the city Aligarh in India. This business was the first step to understanding the manufacturing side of the industry.

The second business I started in the UK in 2012, but I was living in India and virtually managing the business from there. This business was the second step to understanding the other side of ironmongery industry i.e branding and sales.

You had some funding from Aston University where you took your MBA but where else has the investment come from?

I received £1,340 from Birmingham Skills for Enterprise and Employability Network, which is a part of Aston University. I invested that money in software development for the company's website.

The company started with an opportunity, the right knowledge, experience and challenges, not with any major investment. Any business needs an opportunity to start with, not investment. This is the third start-up business of my life where I didn't invest anything before making the first sales. All I invested was my time.

What are your ambitions for the company?

The business model is based on establishing direct supply channels with the end user consumers by importing products directly from manufacturers, eliminating intermediaries and passing on the benefits to the end consumers.

I started Door Ironmongery with two product lines: ceramic door knobs and hand forged ironmongery. Customers' expectations are increasing rapidly; everyone wants new and innovative designs. The ceramic door knobs products line (www.CeramicDoorKnob. co.uk) comprises 400 designs of ceramic cupboard knobs, doorknobs, hooks and handles in more than 12 colours. The concept is to make home furniture colourful by changing its hardware. It took me a while to develop the market in the UK but now demand and sales are increasing rapidly. Apart from my website, which hit 94.5% customers searching for ceramic products in UK, I am also selling these products through other retailers.

The main product line Door Ironmongery is still in development. I am expecting it to launch by next year. The world is moving fast with latest innovations and technology. And expectations of property style and standards are rising: everyone wants to make their property outstanding with high quality innovative hardware designs at affordable prices.

Doorlronmongery.co.uk will offer the high-end luxury ironmongery and bespoke project work to architects, builders and homeowners at affordable price by eliminating all intermediaries and passing on the benefits to them. I am an innovative person who loves technology; this project will be the perfect combination of these two. After generating revenue of a few hundred thousand pounds in almost 18 months I am now looking for the right investment to start this next big project.

How are you finding running an ironmongery business in the UK?

The UK Ironmongery market is very interesting, full of opportunities and growth. I came to UK to be a part of this well-organised industry where

FAST FORWARD Tabish Khan is as ambitious for his own future

as he is for that of the AI industry in the Middle East

Tabish Khan's career trajectory has been a rapid ascent. Khan has been regional manager of ANSI Division at Almoajil Co in Dubai for the past 10 years. Almoajil Co is the official agent and distributor of Assa Abloy Americas Group of Companies for the GCC. He was the only employee when the ANSI project division was set up in November 2006 (he had a colleague in Damman) and so managed the first few projects alone from start to finish. Now Almoajil boasts multi-million dollar projects including Georgetown University in Qatar, Emirates Aluminium Rosewood Hotel in UAE & King Fahad Medical City in Saudi Arabia. Tabish has been instrumental in that growth.

He has also grown his own career credentials amassing an array of industry designations. His latest are the FDAI (Fire Door Assembly Inspector) and LEED Green Associate Exam which he secured in May to add to an AHC qualification in 2013 and the DipGAI in 2015. He won fifth place at the GAI Education Awards. "I am proud to be the first in our industry to achieve both professional certifications (AHC for American Hardware, DipGAI for European Hardware) in the global door and hardware industry," he says.

Khan started his Al career as business development manager at ANS Brass Ltd, in London before moving to Dubai. He has a degree

everyone is willing to share experience and knowledge. There is an immense potential in this industry with the right combination of innovation and technology. I am here to do what I love.

Who is your business idol?

Steve Jobs founder of Apple Inc. I truly believe in his philosophy, "stay hungry, stay foolish" and "connect the dots".

What app/website do you use most? TED.com. It is a good source to learning from the world's leaders. in mechanical engineering from Zakir Hussain College of Engineering & Technology in India and a Master's in Science Management from the University of Surrey.

Khan is ambitious for the future – both for the development of the AI industry in the Middle East but also personally.

"I want to see the door and hardware industry in the Middle East gain a good reputation for success, hard work and integrity. I am fascinated with how door hardware industry professionals in North America and Europe work together with building and fire officials, to help develop building codes and create a positive business environment in the safety and security industry."

It's something he wants to replicate in the region. "I want to work together with local building authorities, key government decisionmakers and agencies to help them develop and enforce building codes."

Future career plans for Khan include offering consultancy services on specification writing and providing consulting and fire door assembly inspection services. And he will keep adding the industry credentials. "Never stop learning," he says.

ENTREPRENEURS ENTER HERE

The new Enterprise membership category offers start-ups and new entrepreneurs support from the GAI.

This brand new category allows companies that have traded for over 12 months but are not yet at the size or scale of a full member, to become fully involved in the GAI and benefit from a whole range of services. Enterprise members benefit from a discount on all elements of the GAI education portfolio; have access to technical resources; are recorded on all databases and associated mailing lists and invited to all events; can sit on sub-committees/ working parties; and can display a membership certificate.

Entry to the new category is conditional; it will include site inspection and members must engage with the education programme. For full details contact membership@gai.org.uk









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LESSONS IN DESIGN

The architecture of a school is seen as crucial to student performance and although schools building has been a political hot potato good design is still making the grade. **Nicky Roger** reports



S chool design has been the subject of much public debate over the past 15 years. In this period we have seen the emergence and controversial demise of the Building Schools for the Future (BSF) initiative, the largest and most ambitious programme of capital investment in the UK's school estate for over 40 years. But education funding cuts in 2010 led many school projects to be cancelled and replaced with off-the-shelf alternatives.

Critics have argued that substandard UK schools are wasting millions, fostering bad behaviour in pupils, and causing one in five teachers to consider leaving their post.

A report from the Royal Institute of British Architects – *Better Spaces for Learning* – highlights the shortcomings of the school design programme put in place by the UK government.

It claims that too many of Britain's schools are "dangerous and dilapidated, poorly built and wasteful" and calls for an urgent review of the Education Funding Agency's (EFA) current protocol.

The report claims the replacement EFA-funded programme – which shifted focus from local to centrally controlled decision making – is not up to scratch. It argues the EFA-funded process is often "hugely restrictive" in terms of both design and construction timeframes, leading to poor long-term choices.

"School building design has fallen off the education policy agenda," says Jane Duncan RIBA president. "This one-size-fits-all approach means that opportunities to innovate or respond to local context to optimise investment are being curtailed."

The results of a nation-wide poll of teachers conducted for the report shows that 90 per cent >>>>

Happy campus *▽*

The overhaul of a Modernist 1950s school for girls in London by Allford Hall Monaghan Morris won the RIBA Stirling Prize 2015.

AHMM added six new buildings to the Burntwood School campus in Wandsworth, among a number of retained historic structures including two designed by the late English architect Leslie Martin.

The aim was to create a "complete and coherent campus", featuring new teaching facilities, as well as modern sports and performing arts facilities, interspersed with numerous lawns and public squares.

"Burntwood School demonstrates the full range of the skills that architects can offer to society," RIBA judges commented. "It encompasses great contemporary design and clever reuse of existing buildings as well as superb integration of artwork, landscaping and engineering."

They also applauded the "technically sophisticated" use of prefabricated modular structures, which relate to "sculptural" facades where precast concrete panels create angled recesses around windows. "Burntwood sets a

standard in school design that every child in Britain deserves. It is a culmination of many years of creative toil by Allford Hall Monaghan Morris in designing schools up and down the country. This is their masterpiece," they added.

"Good school design makes a difference to the way students value themselves and their education, and we hope that Burntwood winning the RIBA Stirling Prize shows that this is worth investing in," said AHMM director Paul Monaghan.

"Schools can and should be more than just practical, functional buildings – they need to elevate the aspirations of children, teachers and the wider community."

Good school design makes a difference to the way



Above and below: Burntwood School in Wandsworth scooped the Stirling Prize

>>> believe better designed schools correlate with better grades and pupil behaviour. It also reveals that one in five UK teachers has considered quitting their jobs over conditions.

"Good design is not just about appearance; it makes a noticeable difference to outcomes and frees up resources. Our research showed that an overwhelming majority of teachers believes good school buildings can reduce bullying and pupil misbehaviour."

In 2012, the British government released new school design guidelines that included the banning of curved buildings, like that of the Hadid's Evelyn Grace Academy (see opposite page), prompting a backlash from architects. At the time, the education secretary Michael Gove, claimed that innovative school design was too costly.

"We won't be getting Richard Rogers to design your school, we won't be getting any award-winning architects to design it, because no one in this room is here to make architects richer," he said during an education conference.

Shaped by surroundings

Yet, well-designed classrooms can improve the academic performance of primary school pupils by 25 per cent according to a study undertaken by the University of Salford and UK architects Nightingale Associates.

The year-long study assessed seven schools in Blackpool, where researchers surveyed pupils about age, gender and performance in maths, reading and writing. They also evaluated classroom environments by measuring factors such as natural light, noise levels, temperature, air quality and classroom orientation, before comparing the two sets of data.

"It has long been known that various aspects of the built environment impact on people in buildings, but this is the first time a holistic assessment has been made that successfully links the overall impact directly to learning rates in schools," said Peter Barrett, a professor at the University of Salford. "The impact identified is in fact greater than we imagined."

Architects are using the study to argue against the new design restrictions. Architect Richard Rogers commented: "This study confirms what our practice has long believed: good design has the potential to have a truly positive effect on the way children learn."

Describing his firm's design for Mossbourne Community Academy in Hackney, he added: "Mossbourne is a striking piece of evidence; high in the league tables and with staff and pupils commenting enthusiastically about the impact of the school's careful design. We proved that it is possible to produce a well-designed

students value themselves and their education"



school collaboratively with the senior teaching staff which adheres to a tight budget. I hope that the Government takes note of this report for the sake of the next generation."

However, the then education secretary, Michael Gove, dismissed the significance of the study and pushed ahead with plans to build 261 primary and secondary schools using the new 'baseline' templates. A spokeswoman from the department for education said: "The standard school designs for the Priority Schools Building Programme will provide light, bright and airy learning environments for pupils and were drawn up jointly with architects and teaching experts to make the very best use of space."

London studio Aberrant Architecture claimed that the UK should look to Brazil as an example for quality school building programmes and Nicholas Hare Architects' partner Paul Baxter was quoted in Dezeen: "It is important that the lessons about school design that architects have learned over the last few years should not be wasted," following his firm's completion of a secondary school with walls of yellow brick, bronzed aluminium and unfinished timber.

The University of Salford research will continue for a further 18 months, covering 20 more schools in different parts of the UK.

Still hopeful

However, despite the changing political environment, investment in schools estate has continued. As Dr Sharon Wright and Nick Mirchandani state in the introduction to their book, Future Schools: Innovative Design for Existing and New Buildings, basic need provision of additional school places is at record levels and set to continue for some years as the demographic increase in student numbers works its way through from the primary to the secondary age group. "This, and the ongoing need to maintain, repair and replace existing stock, has resulted in a wide range of projects, from the small-scale expansion of existing primary schools, to the wholesale replacement of life-expired buildings to the conversion of non-school buildings for new free schools. >>>

A sporting chance \triangle

Evelyn Grace Academy by Zaha Hadid Architects won 2011 year's RIBA Stirling Prize for the greatest contribution to British architecture in the past year.

A highly stylised zig-zag of steel and glass, the Evelyn Grace Academy is squeezed on to the tightest of urban sites (1.4 hectares - the average secondary school is 8/9 hectares). The architects received a complex brief: four schools under a single academy umbrella with the need to express both independence and unity. The architects were strongly encouraged by the client to 'think outside the box'. With such a small space and with sport being one of the Academy's 'special subjects' (each Academy school has one), the architects needed to be highly inventive. They succeeded, for instance by cleverly inserting a 100m running track into the heart of the site taking pupils right up to the front door. By dramatically celebrating the school's specialism, the **RIBA Stirling Prize judges** noted 'this is a design that literally makes kids run to get into school in the morning'.

The Evelyn Grace Academy is the first school to win the RIBA Stirling Prize, with seven schools shortlisted in previous years. It was the first time that Zaha Hadid Architects designed a school and its first largescale project in the UK.

The then **RIBA** President Angela Brady, chair of the judges, said at the time: "The Evelyn Grace Academy is an exceptional example of what can be achieved when we invest carefully in a well-designed new school building. The result - a highly imaginative, exciting Academy that shows the students, staff and local residents that they are valued - is what every school should and could be. The unique design, expertly inserted into an extremely tight site, celebrates the school's sports specialism throughout its fabric, with drama and views of student participation at every contortion and turn."



Top of the class: BDP's awardwinning Bridge Academy in Hackney (below) "Such variety offers opportunities for architects and the supply chain, not only those already experienced in school design but those seeking to enter the sector. As a result of this ongoing school building activity there are now an unprecedented number of recent examples on which to draw."

The education sector is a big market for the AI industry with many manufacturers and AIs supplying hardware and access solutions to schools, colleges and universities. Three stand-out projects include those that took the top three places in the education category in 2015's Spec Awards: Harris Academy (Aedas Architects and Leaderflush Shapland Laidlaw); Glasgow School of Art (JM Architects and Allgood); and BCU Parkside Building (Associated Architects and Eisenware Ltd). ■



Such variety offers opportunities for those seeking to enter the sector"

GAI MEMBERS GO BACK TO SCHOOL

GAI members have been involved in a range of education sector projects. Here's a pick of the crop



Student admission Lock-Tech Systems supplied the ironmongery and some of the automatic doors on the Swansea University

Bay campus build.

Lock-Tech was selected by local firm, RDM Ltd, to design, supply, install and commission the swipe card access control system on the student accommodation and support offices. Shortly after this, Lock-Tech was again chosen to supply and deliver the ironmongery package for the same doors, working directly with main contractor VINCI Construction UK Ltd.

Class action



"Schools need to be safe but no one wants them to look like a prison," says Keith Clare-Brown director of Tate Solutions about

the brand new Heath Park School, in Wolverhampton. Tate has installed wireless electronic access control solutions to the school.

School security is a sensitive issue. Heath Park called on Tate Solutions to provide a security system that ensured strictly controlled access into the building, whilst allowing free movement within the facility. The XS4 proximity wireless based solution was installed, with programmed keys to allow timed access to specific areas.

Bright kids



The STEM – Science, Technology, Engineering and Maths – building is part of a £14.5m redevelopment

of the Thorp Academy, in Ryton in Tyne and Wear.

Optimal natural light and ventilation was vital. GEZE UK supplied more than 100 windows systems including OL Line openers and operators to maximise functionality and incorporate key safety features. The STEM building was the first school development in a batch of seven schools in the North East to be completed by Sir Robert McAlpine. The windows within all the schools share the same design.

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PASS! Congratulations to this year's successful students who successfully gained GAI qualifications. The calibre was high and results impressive.

Pass rate Stage 1	79%	
Pass rate Stage 2	84%	
Pass rate stage 3	63%	
No. achieving the CiAH	87 (from 10 different countries)	
No. achieving the DipGAI	40 (from 8 different countries)	
Exam Attendance	361 sat/375 expected	
Overseas learners	47%	
Exam Locations	42	
Countries	27	
Most overseas learners		
South Africa (23), Hong Kong (30),		
Dubai (56/74 incl. other GCC countries)		

he largest and most important event on the architectural ironmongery calendar, the GAI Education Awards will take place at the Lancaster Hotel off London's Hyde Park on 2 November. Sponsored by Lorient this annual ceremony reflects the importance of the GAI's education syllabus as the only recognised programme in the world to deliver architectural ironmongery qualifications to British and European standards.

The hard work of students will be recognised and celebrated at this glittering not-to-be-missed event.

This year the number of students sitting for a GAI qualification has increased dramatically.

Numbers signing up for the GAI's Diploma programme have leapt since GAI launched the Education Hub in September 2015 to make its huge wealth of educational resources available globally via the web. Total enrolment is up by 23 per cent on the previous year.

This year over 380 students from 25 countries studied for the same GAI courses. This is up from 311 in 2014/15. Nearly half (47 per cent) of the students are based outside the UK, with Hong Kong and the Middle East being particularly keen.

This year's top performing students will be presented with cash prizes, medals and shields by the President, Maria Powell. Awards will be given to the three highest performing students in the Certificate in Architectural Hardware and the Diploma and one overall winner will receive the highlyprized Pinnacle Award sponsored by ASSA ABLOY.

The 2015 education awards saw a record attendance with 386 guests from the UK, Europe, Middle East and the USA. The GAI is expecting some 400 attendees this year.

This guest speaker at the lunch will be the explorer and writer, Sir Ranulph Fiennes OBE. ■

Don't miss your chance to be there: book now via the GAI website.

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Will keyless access replace the traditional lock and key completely? Just how far will the 'Internet of Things' take door technology? **Paul Barrows** finds some answers.

eyless access has been around for over 20 years now, with mainstream systems available since the mid 1990s. Adopted and used in a wide range of industries - from commercial buildings to public sector, sports stadia to even residential houses - the importance of keyless access development can be likened and tracked to the use of smartphones and how they are revolutionising our daily interactions with the built environment. It is ironic that smartphones are the medium for partly dictating how keyless access is taking shape for the modern society. Since the smartphone was introduced in 2007 with the iPhone. bringing with it the phenomenon that is the Internet of Things (IoT), we are now seeing major advances and widespread use of this technology within the door hardware and access control industry. Before understanding the full potential of the smartphone era of keyless access, it is important to understand how this technology works, and the core benefits that it brings to installers, building managers and end users.

Why keyless access?

Keyless access is as simple as it sounds - where keys are not required to access areas or buildings. Powered via mains or batteries to control the mechanics of the door, access can be gained through pincodes, transponders or smartphone, depending on the setup of the system.

The benefits that keyless access brings are numerous, with cost and increased control being the primary advantages. Whilst mechanical locks and door hardware potentially need to be changed each and every time there are user turnovers, particularly in high security environments, keyless access methods require just a simple reprogramming without the need for any changes in the physical hardware. This may be particularly good news to those responsible for a huge set of keys! With a keyless system, all that needs to be updated when access requirements change is a reset of pin codes, a reprogramming of fobs or cards, or an update of access control through a smartphone app.

Some keyless systems use mains-powered hardware, although battery powered systems are becoming increasingly popular because of the ease with which they can be fitted and the lack of wiring into the system. Battery lifespans are also improving, with systems such as SimonsVoss MobileKey giving a huge battery life of 4-6 years.

There are also significant security benefits of a keyless access system. Digitally controlled access is much more 'pick proof' in comparison to mechanical lock and key, making buildings much safer and more secure. It is well known that digital access systems are notoriously difficult to crack, with systems that use their own frequency being particularly secure against attempts to digitally access them.





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HARDWARE LOCKDOWN: Demand and supply for keyless access technology is growing rapidly

>>> In high user environments, lost keys or copied keys are also mitigated through keyless access, as new technology and software means transponders can be switched on and off at the flick of a button.

The Internet of Things

The Internet of Things (IoT) has been slowly driving the way that keyless access is developed.

As internet access has become more sophisticated and available, so too has the ability to control our everyday hardware. From the control of heating and, or to the programming of TV shows and movies on smartphones, IoT has become part of our daily lives. The costs for this type of smart system are now well past the high costs that were paid by early adopters, and are now affordable for most households or businesses.

In everyday use, remote control access can revolutionise access control. There is less of a necessity for facilities or security managers to be physically at the scene. Deliveries can be taken remotely, and a workforce can be given timed access as and when necessary, without even having to involve them in the access process.

From a monitoring point of view, the internet has made it possible for building managers to review which doors have been accessed, by what personnel and at what time. Needless to say, the constant necessity for better surveillance and user information is helping to push the growth of IoT in door hardware systems.

A wide variety of uses

The growth in keyless access has been exponential since its first development, and as the technology and systems available improve, the potential for where the systems are used is growing continually.

Education facilities, healthcare buildings, commercial buildings, sports stadia and public sector areas are all markets where the demand for new innovations is coming from, and the case for keyless access is clear. Where you have public access within buildings with restricted areas, a keyless access system in place to prevent unwanted entry means that access to restricted areas can be controlled without the need for updated hardware or even PIN code access.

Sports stadia is a particular area that is receiving a lot of attention in the light of recent terrorism and security issues. As well as the existing challenges of controlling access of a large number of people, in which areas that are free or restricted may change, terror threats are becoming an ever more likely possibility in any given high density situation. In these emergency situations, the ability to increase or restrict access to certain areas quickly and remotely could save lives.

Now that keyless access is well-established, the next challenge for the industry is how to integrate remote access even further. The next generation of these systems is likely to see building management systems and video surveillance systems merge seamlessly with keyless access systems, enabling us to effectively manage user access, potential threats, building monitoring and maintenance all at our fingertips.

Paul Barrows is Demand Creation Leader at Allegion UK.



Innovative start-up Pirate Studios in Bristol was looking for locks that allow musicians self-service access to recording studios and associated locker rentals, at allotted times. Pirate Studios is a start-up company offering bands and musicians a new way to rehearse. Rather than expensive hourly hires, its self-service studios are available to hire at allotted times, 24/7. So it needed a way that customers could let themselves in and out of the studio unaided.

Smart locks with key code entry and advanced programming functions turned out to be the solution. Pirate Studios issues customers with time-limited access codes for studio rental and storage lockers. The codescan be sent remotely and automatically expires after a set duration.

The locks were supplied by Codelocks who fitted CL5510 smart locks on the front door and individual studio room doors, and KL1550 KitLock locker locks on the storage for music equipment. These locks allow codes to be created via an online portal and issued to customers via email or SMS. This eliminates the need for staff to be onsite. Musicians receive personalised codes for self-service access to the rehearsal space and/or storage lockers. Unique codes can be issued for different locks. So, for example, if a musician needed to access their kit, but not a rehearsal space, they would be given two codes: one for the front door and one for storage. Or, for studio room hires, musicians would be given a code for the front door and one for an individual studio door. Security was also a concern. The CL5500 range uses 'disposable' time-specific codes that expire after a set duration.

This, combined with the Audit Trail function, ensures that Pirate Studios can track which users are going in and out of the rooms, and at what time. The K3 App allows the locks to be monitored via a smartphone, as well as offering additional functionality in terms of opening the lock with wireless connectivity.



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BREXIT AND **BEYOND**

And Desc

The GAI has produced a new guide to how Brexit might affect the AI industry and standards. **Douglas Masterson** reports.

veryone will now be aware of the result of the EU Referendum which took place in the UK on 23 June when the UK voted to part company with the European Union.

The GAI has now published a technical briefing providing guidance in response to enquiries from members requesting guidance about how our withdrawal from the EU might affect us, with particular regard to EN Product Standards for our Industry and the CE Marking requirements for some of the products.

The following is an extract from this briefing along with further questions and answers on standards and Brexit as well as wider implications on potential international trading scenarios.

How are European product standards developed?

The reality is that the simple EN Product Standards have been developed by a body called CEN –the Comité Européen de Normalisation or European Committee for Standardization. Although this is based in Brussels, it is entirely separate from the European Commission and is not part of the EU structure. Membership of CEN is through a country's National Standards Body. In our case this is the British Standards Institute (BSI), and our membership is not related to our position within the EU.

In our industry most, but not all, of the current product standards, developed over the past 20+ years, have been created under the auspices of CEN. These standards, when published by



the BSI in the UK, have the prefix of 'BS EN', rather than just 'BS'. Two points to note:

• The use of these BS EN standards is usually actually voluntary (unless these are 'Harmonised' standards).

• The UK has provided the Convenor of the CEN Working Group responsible for 'Building Hardware' since its inception in the late 1980s.

How will Brexit affect Harmonised Standards under the Construction Products Regulation?

The complexity comes in relation to a number of particularly important EN standards which have been adopted by the EU as HARMONISED EN standards. This action is in support of the original EU Single Market Initiative and, latterly, the Construction Product Regulations. The use of these Harmonised Standards is compulsory in all EU member states as it provides the main route by which these particular products can legally carry the required CE Mark.

In order for the UK to leave it will have to enter in to a new governance agreement with the EU with the well renowned 'article 50' of the Lisbon Treaty being invoked. It is presumed that, during this period, and any interim period before UK withdrawal, the Construction Products Regulations would still be in force – until withdrawn by the UK Government of the day. After that time all of these standards would revert to being voluntary in the UK. In this event there would also

Regardless of whether the UK is in the EU or not, a UK producer who exports to any EU member state would still be required to comply with CE Marking criteria

be some amendments required to Approved Document 7, (Materials and Workmanship), of the English Building Regulations.

What about CE marking of products?

Regardless of whether the UK is in the EU or not, a UK producer who exports goods to any EU Member State would still be required to comply with the CE Marking criteria in order to place their product on the market there.

Would the UK leave CEN?

The GAI have been given no indication that after leaving the EU, the UK would also wish to withdraw from membership of CEN so it seems unlikely that we would replace the existing BS EN standards with new, UK only, BS standards in the future.

What is BSI saying on the subject?

BSI have released a statement stating that it is currently "business as usual "

On a national level they will continue to develop and publish British Standards with no anticipated changes in this activity.

On an international level their membership of ISO and IEC the two international standardisation organisations will also be unaffected.

On a European level BSI maintains the UK membership of the European standardisation organisations CEN. and CENELEC. These are private organisations outside the EU coordinating the work of 33 countries in the making and dissemination of European Standards (EN). At present their membership of these organisations continues as normal in all aspects of standards making and publishing activity. BSI has stated its ambition on behalf of UK stakeholders for the UK to continue to participate in the European standards system as a full member of CEN and CENELEC post-Brexit.

What options are available to the UK in relation to trading with the EU post-Brexit?

Even after Brexit the EU will continue to be the world's largest market and the UK's biggest trade partner therefore a new set of agreements will need to be put in place to look at future trading. The UK would have a number of options before it, however each one would involve a trade-off between single market access and control over Economic Policy.

Firstly, it could become a member of the EEA (European Economic Area) similar to Norway. This would afford UK access to the Single Market but would not afford a vote on regulations or access to the same courts to settle disputes. EEA does however involve accepting the free movement of labour, or at least with minimal temporary restrictions. UK exports would also be subject to 'rules of origin' to tax the intermediate trade from outside of the EU.

Secondly, the UK could re-join EFTA, the European Free Trade Association which is similar to the EEA option but with less access to the Single Market. This would be similar to Switzerland who have full Single Market Access for the trade of goods but must enter in to bilateral treaties to secure access for services. Switzerland under this agreement does not have full access to the Single Market for its banking sector. Also note that free movement of people would also apply under this scenario.

The UK could adopt a model similar to Turkey affording a Customs Union with the EU which would mean no tariffs or quotas on industrial goods exported to EU countries, but having to apply EU's external tariff on goods imported from outside the EU.

Other options could be available including the CETA free trade deal being adopted by Canada which would give preferential access to EU single market without EEA or EFTA obligations for goods but only partially covering services. A unilateral free trade approach as favoured by Singapore and Hong Kong could also be considered.

The final option would be to create a new agreement specifically between the UK and the EU which would involve detailed negotiation. Any such agreement would be subject to World Trade Organisation rules as WTO set the rules that apply to all its members.

What about agreements outside Europe?

EU members have a common trade policy and are represented by the EU in all international trade negotiations. After Brexit, the UK will become an independent player in trade negotiations. This means that the country will need to determine its future economic relations with the rest of the world. As well as entering into new agreements with the EU following Brexit, the UK could also opt to seek closer integration with countries outside Europe by forging its own preferential trade deals.

Conclusion

A future for the UK post-Brexit is now inevitable and the UK government will be seeking to set up a new series of international trade deals over the coming years. Various options are available but it should be remembered that the UK is a wealthy economy and one with which the EU and other countries will still want to 'do business'.

In relation to standards it should be remembered that EU membership is not a pre-requisite to CEN membership and the BSI has stated its ambition is to remain within CEN regardless of Brexit.

If you have any further questions relating to Brexit and standards please email Douglas Masterson at technical@gai.org.uk Douglas Masterson is the GAI Technical Manager.

NEW PRODUCTS >>



CODELOCKS INTRODUCES ADVANCED RANGE OF SMART LOCKS

The new CL5500 smart lock range from Codelocks offers advanced programming capabilities and access methods. With the new locks, controlling access can be managed remotely using a smartphone. Users can choose the most suitable entry method for their needs, whether allowing access via a simple code or by the use of compatible smart cards.

The CL5500 utilises wireless technology to give managers the ability to program locks via

a compatible smartphone by downloading the K3 Connect App. Advanced features include complete entry control by issuing time-sensitive NetCodes via email and SMS, setting Code Free access periods for cleaning or maintenance staff and downloading the lock audit trail data to keep track of when and where the lock was accessed.

>> www.codelocks.com

GEZE PARTNERS ON WINDOW SYSTEM

Two of the leading names in door and window architecture – GEZE UK and Kawneer – have joined forces to launch a ventilating window.

Kawneer's high thermal performance AA®720 parallel opening window combines with GEZE's award-winning Slimchain window drive to produce a window system which is suitable in any sector.The combination of attributes provides ventilation around the entire window perimeter without detriment to safety and security while achieving U-values of 1.5 W/m2K for a



CEN sized window with a warm edge spacer, offering natural ventilation and air exchange, with a 86mm clear opening restriction as standard.

The new CE-Marked assistedopening system has been fully tested to the PAS 24:2012 enhanced security performance standard as well as BS 6375 Part 1 (weather) and Part 2 (strength).

Slimchain is part of GEZE's range of window drives which share a uniform, discreet design and innovative Smart fix installation system. It is adaptable enough to fulfil completely diverse requirements relating to loads, upstroke lengths of up to 800mm, opening widths up to 1500mm wide and 2400mm high, and the widest range of types of installation.

The new system for new-build and refurbishment projects offers more versatile design options than other solutions as Slimchain can be used on windows up to 400kg – a significant weight handling advantage over competitor products. Its intelligent electronics allow continuously adjustable drive strokes and individual speeds.

The AA720 + Slimchain window is backed with full support from Kawneer's and GEZE's technical, estimating and design teams as well as the reassurance of extensive testing of a totally integrated assisted opening system.

info.uk@geze.com

ABUS MAKE IMPROVEMENTS TO 83 PADLOCK RANGE

As part of ABUS' continual product improvement the 83/55, 83CS/55 and 83WP/63s have all been upgraded to a six pin keyway offering greater keyed alike and master keyed flexibility through significantly more differs and further anti-pick security.

These mid security 83 models have consequently gained the coveted Silver Sold Secure approval, complementing the existing 83 Bronze and Gold Sold Secure models. ABUS's 83 range offers a complete security spectrum from 45mm aluminium to 80mm hardened steel bodies.

As per our recent press release an ABUS 83WPIB Submariner (Bronze Sold Secure status and completely water proof and corrosion resistant) proved its salt by thwarting a determined theft attack. Exclusive to the 83 range is the patented z-bar which enables converting the padlock from key retaining to non-key retaining. This unique feature allows the consumer to choose between key retained security or snap shut convenience in each application.

The ABUS 83 range is completely serviceable, allowing distributors to offer the 83 range of padlocks either keyed alike or part of a complete master key suite, with additions to these suits across all the range easily keyed up. Lock distributors can provide proven ABUS padlock security at the appropriate level as part of a total security solution.

For further information contact sales@abus-uk.com



ABLOY LAUNCHES SMARTPHONE KEY ACTIVATION TECH

Security expert Abloy UK has launched CLIQ® Connect technology that enables PROTEC2 CLIQ® keys to be activated through a smartphone. PROTEC2 CLIQ® allows for the

remote management of disparate or large electronic masterkeyed sites at any time, from anywhere in the world. The system provides audit trails on locks and padlocks and the ability to invalidate lost or stolen keys.

The latest addition to the system is the CLIQ® Connect online key, which takes advantage of Bluetooth 4.0 technology, enabling users to update keys wirelessly with a smartphone.

Abloy's PROTEC2 CLIQ® system is suited to organisations that have a number of engineers and contractors visiting remote sites, useful for many different sectors including defence, utilities, telecoms, transport, education and healthcare.

Keys have a battery life of up to two years even if used daily and are compatible with all existing PROTEC2 CLIQ® systems without the need for new cylinders so upgrades are straightforward.

>> For further information email marketing@abloy.co.uk

COOKE BROS OFFER BALUSTRADING



Architectural ironmongery specialist Cooke Brothers has launched a comprehensive modular stainless steel handrail and balustrade system. The Phoenix Range is an entirely modular system, so allows complete design flexibility with a range of tubes and infill panels to suit any interior design scheme. The Phoenix rail can be matched up with high quality wood, composite or polymer hand rail systems, or made with sleeved options to combine high strength with warm-to-touch railings. Bespoke components can also be made for exclusive one-off designs such as cantilevered handrails.

Balustrading now often forms a significant part of a building's architectural ironmongery budget. Cooke Brothers offers a complete design and specification service, backed with an in-house testing facility, to allow Als to enter the market with confidence.

>>> www.cookbrothers.co.uk



SIMONSWERK UPDATES TECTUS HINGES

SIMONSWERK has enhanced its popular TECTUS hinge range. The TECTUS TE240 3D-n hinge suitable for unrebated and rebated flush residential doors now has an increased load capacity from 40 kilos to 60 kilos. The new version will now carry a door weight up to 60 kilos when fitting 2 hinges per door leaf (2m x 1m).

The sideways closed hinge body allows for uniform mortise appearance and as with all TECTUS hinges is completely concealed with maintenance free slide bearings and comfortable 3D adjustment to obtain perfect door alignment. Created for safety, with minimum pivot gaps to prevent finger injury, these hinges are available in an unrivalled range of high quality surface finishes including stainless steel and bronze.

The extensive TECTUS portfolio offers a complete solution to all door hinge specifications and features multi award winning iconic design and precise engineered functionality.

>> www.simonswerk.co.uk

CORRECTION

In the Summer issue of *AIJ* in New Products, images of Abus products appeared against the wrong product story. The Abus modular cylinder showed an image of Abus padlocks and the Abus Padlock item showed the modular cylinder range. We apologise for any confusion that may have arisen.

SAFE AND SECURE WITH SIMONSVOSS

SimonsVoss have been pioneering the keyless access market for 20+ years since its inception, and one of the latest products to be rolled off is the MobileKey, a digital access control system based on radio-controlled, cable-free locking.

Designed for security and facilities managers in medium sized buildings, MobileKey provides access control for up to 20 doors and can manage up to 100 users at a time. Users gain access to doors through the use of either a pincode, transponder or allowing remote access via the MobileKey app.

The innovation comes in the form



of the app, designed so that managers of security and access control can give permissions remotely to users, control doors over the internet and monitor the use of doors.

>>> www.simons-voss.com



STIRLING WORK

On 6 October the architecture world will hold its breath to find out who is the winner of this year's Stirling Prize

rguably the most coveted award in the sector, the Stirling Prize is presented to RIBA Chartered Architects and International Fellows for buildings in the UK which have made the greatest contribution to the evolution of architecture over the past year.

Entries are judged against a range of criteria including design vision; innovation and originality; capacity to stimulate, engage and delight occupants and visitors; accessibility and sustainability; how fit the building is for its purpose and the level of client satisfaction. Contenders for the prize (clockwise from top): Outhouse, Glasgow campus build, Blavatnik School of Government, Weston Library







THE SHORTLIST The overall winner will be picked from the following projects:

Blavatnik School of Government Herzog & de Meuron

A radical new landmark university building in Oxford.

City of Glasgow College,

Riverside Campus Michael Laird Architects & Reiach and Hall Architects

A new college campus that reinstates the importance of civic education in post-industrial Glasgow.

Newport Street Gallery

Caruso St John Architects The conversion of an entire street of listed industrial buildings into a free public gallery.

Outhouse

Loyn & Co Architects A partly subterranean house on a sloping plot in the Forest of Dean.

Trafalgar Place

dRMM Architects

A flagship high density housing development on a regenerated site in South London.

Weston Library WilkinsonEyre

Restoration and reinvigoration of a Grade II listed building, home to one of the greatest research libraries.



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