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INTERVIEW Steve Bewick of dormakaba

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BACK DOOR Design game-changer

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BRONZE FINISH MAKES PATHE NEWS



Sheppard Robson Architects LLP has completed the renovation of the former offices of production company Pathé Films in London's Wardour Street. Overcoming initial specification difficulties, the architect's practice turned to Allgood to provide a bespoke, bronze finished ironmongery solution that would seamlessly integrate with the architecture of the building.

The challenge was to renovate the 1900s building with an original facade and 1990s interior. ID:SR, Sheppard Robson's interior design group, wanted to deliver 15 residential units, including two penthouses, that were rooted within the history of the area whilst simultaneously providing modern amenities. The architect wanted to specify a consistent ironmongery finish throughout the entire building. This was a challenge for Allgood, as there were several different types of doors, textures and colours throughout the property.

Allgood felt stainless steel would not be appropriate so a bronze finish was agreed.

Incorporated throughout the building is Allgood's Modric 1761 900mm pull handles and Robert-Mallet Steven's designed FSB 41076 lever handles with a specialist bronze finish. Complementing the ironmongery, Allgood also supplied bespoke signage in matching bronze as well as bronze pocket door locking kits for all the bathrooms.

Simon Wilkes, head of business space development at Legal & General Property said: "There was a clear vision for this historical site, and the collaboration between a stunning combination of contemporary and historical architecture has been created. Specifying bronze handles has allowed synchronisation between interior and exterior."





This summer saw the launch of the KODA micro house by Kodasema in the UK. A sustainable multi-purpose modular building concept from Estonia, KODA addresses extreme weather conditions, generates its own energy and takes less than seven hours to assemble on site.

With thin, vacuum-insulated concrete walls, quadruple glazing and innovative LED lighting and architecture that maximises daylight, KODA aims to shake up the international property market by providing a high end space that can be used as a chic city centre home, a lakeside summer house, a cosy café, an office, workshop or studio or even a classroom.

Kodasema is a recent winner of WAN Urban Challenge 2017, a global ideas competition with a focus on London's housing crisis.

SALTO COMPLETES EXPANSION

Salto Systems has acquired the remainder shares in Clay, to become sole owner of the company; and has also purchased a significant equity share in Danish firm Poly-Control, the manufacturer of Danalock.

With these important steps, Salto Systems strengthens its position in both cloud technology and mobile access, as well as electronic locks for the residential market.

Clay, in which Salto already held a 60% stake, is a key provider of cloud technology for smart locks through its Clay Locking Platform. Since its founding in 2012, the Clay Locking Platform has been the core of products such as; Salto KS (Keys as a Service), Prosegur Control de Accesos and very recently Regus, a provider of flexible workspace solutions. Clay is based in Amsterdam, currently employs 22 people, mainly software developers.

Poly-Control/Danalock, a technology and thought leader in residential smart locks, recently launched the third version of its motorised Smartlock. Adapted to European, including Scandinavia, North American and Asian markets, Danalock V3 is tapping into the drive of keyless and connected locking solutions for residential properties on a global scale. The company works out of Harlev, Denmark and employs 20 people.

While both Clay and Poly-Control will continue to operate independently and run services unchanged, Salto says it looks forward to combining competencies and leveraging the technical knowledge of both companies.

AIJ PEOPLE

GEZE MAKES TWO APPOINTMENTS

GEZE UK has strengthened its team with two new appointments.



Matthew Gregory takes up the role of specification manager, covering the North region as part of the GEZE UK

specification team expansion.

Matthew will be responsible for providing product specification and technical support for architects and specifiers across tender documentation, CAD and BIM projects, whilst supporting the GEZE UK sales team.

Prior to joining GEZE UK, he worked for BIG Group as an industrial door installation and service engineer and as a senior automatic door engineer. Matthew's career history also includes sales management experience with Axis Automatic Entrance Systems.



GEZE UK's expansion continues with the appointment of Stephen Lancaster who takes up the role of sales manager

within window technology supply and installation for the Northern region.

Stephen will be primarily responsible for the supply and installation sales of GEZE's wide range of window technology products for smoke extraction and natural ventilation.

Stephen has wide experience as an architectural technologist for a number of practices across Harrogate and Leeds, including Smith Smalley, DLG Architects and S+SA Architects.

A Leeds Metropolitan University graduate, Stephen received the 'Stephen George Excellence Award' for the best dissertation on his BSc (Hons) Architectural Technology course. This paper revealed how off-site construction methods could be utilised to achieve high fabric performance in the drive towards carbon neutrality, together with the perception of housebuilders adopting this approach.





LAIDLAW COMPLETES SHOPPING BALUSTRADE SPREE

With its biggest balustrade order ever, Laidlaw Balustrades have completed the fourth and final phase of the Mander Centre redevelopment with their laminated structural glass balustrade. The £35m redevelopment of the Wolverhampton shopping centre reaches its end with the completion of the 93,000 sq feet Debenhams store that is set to open this Autumn.

Specified by Bowmer & Kirkland, the

requirement is for a glass balustrade across the bridge and main entrance of the store. The balustrade is constructed of 24.89mm laminated structural glass and finished with a custom-sized sycamore top rail. A continuous track fixing set below the floor, keeps it completely hidden. The glass with its three kilonewtons loading, provides safety in high traffic areas.

Laidlaw provided an initial consultation to ensure the exact specification was met.

Laidlaw started working on phase 1 of the redevelopment in the Summer of 2016 and has provided laminated structural glass systems throughout the shopping centre. The glass balustrade is the finishing touch on this modern redesign project.

INTERIORS TRENDS REVEALED

Research from online sourcing resource Eporta carried out by WSGN trend forecasters has revealed the top key trends for 2017. The report examined favoured choices and brands across the spectrum of interiors products including lighting, and furniture as well as emerging talent worth watching. Key findings were that Denmark was most popular country in 2017 to source design inspiration and goods, that natural world was a big theme, and boundaries are blurring – residential, commercial, inside, outside are less defined as separate styles. Materials on the rise of popularity include velvet and copper – particularly brushed.

View the trends report at http://bit.ly/InteriorTrend Report2017-18

IS BRANDS WAIT TO SEE WHO SCOOPS OVETED INTERIOR DESIGN AWARDS

The finalists of the 2017 SBID International Design Awards will gather on 27 October at The Dorchester in London's Mayfair to hear who has been awarded the top prizes.

Contenders this year include high flying hotel brands Grand Hyatt, Radisson Blu and Hilton as well as other power houses such as Harvey Nichols, TATA Motors, Microsoft and General Electric. The range of finalists across all 14 categories shows an international portfolio of projects from over 40 countries worldwide.

All categories cover all aspects of interior design including retail, public space, healthcare, design and visualisation amongst others.

The winners were partly decided by a public vote with the final decisions made by a high profile panel of expert judges from a variety of industries. To book to attend the awards email awards@sbid.org. All attendees receive a copy of the SBID Global Interior Design 2017 coffee table book.





ABOVE: Kelly Hoppen designed, One Shenzhen Bay BELOW: The Whale Bar, St Regis Resort Vommuli Island, Maldives





-



Loughborough University has highlighted quality assurance and customer service as key reasons for installing door closers from ASSA ABLOY Security Solutions.

The university required a door closer solution that was suitable for all its learning and residential environments, from lecture theatres and seminar rooms to student accommodation and recreational facilities.

Loughborough chose the DC500 CAM-Motion® door closer, which has been designed for applications in public, residential or commercial buildings. Featuring CAM-Motion® technology to ensure the door is light to open while retaining its closing power, the DC500 is offered with a standard or height-adjustable guide rail, and can be installed on hinge or non-hinge sides, in either standard or frame applications. The door closer is ideal for single action doors up to 1100mm wide, and suitable for fire and smoke protection doors.

Phil Sheppard, senior clerk of works at Loughborough University, said it was "commitment to quality and level of service that has compelled us to install the DC500 throughout our site, including teaching and research environments, halls of residence, retail buildings and sports facilities".

OBITUARY



STEVE EDGLEY 1946-2017

Architectural ironmonger Steve Edgley passed away in hospital on 20 June following a short illness. Steve spent nearly 50 years in the industry, joining William Newman and Sons in Birmingham in 1962 and built an illustrious career which saw management roles in Dorma UK, Black & Decker/Emhart and Mul-T-Lok until his retirement in 2011.

Steve also lectured for the GAI on education courses and marked course work and exam papers. He was a regular at the GAI Annual Conferences, greatly enjoying meeting up.

Steve will be sadly missed by all.

MALCOLM BURTON DIPGAI 1951-2017

It is with great sadness to report the passing of Malcolm, who passed away on 29th July after a short illness. Malcolm had been involved with the ironmongery industry all his working life, working for some of the industry's largest companies: Dorma, Kaba, Geze, Codelocks and Stanley and many others.

He was a dedicated supporter of the GAI & IAI attending and helping with CPD and education. His in depth knowledge of the trade and products will be sadly missed.

Those who knew Malcolm either as a work colleague or as a customer will have fond memories gathered around the local bar putting the industry and world to rights.











W MAGGIES IS THE WORLD'S FIRST TULIPWOOD BUILDING

Maggie's Oldham, the world's first building made from hardwood cross-laminated timber (CLT), has opened in the UK. dRMM Architects chose tulipwood for the design of Maggie's Oldham for the positive influence wood has on people. Maggie's is a charity that provides practical and emotional support to people living with cancer. Wood is known to significantly reduce blood pressure, heart rates and recovery times; it has more health and wellbeing benefits than any other building material, according to Wood Housing Humanity Report 2015.

dRMM co-founder Prof. Alex de Rijke's experiments with engineered timber have progressed during 30 years in practice and academe. "From the Oldham project inception we knew it was the right material for Maggie's, not only structurally and visually, but conceptually. An elevated, open plan, all-timber and glass building – with trees growing through it, and every detail considered from the perspective of use, health, and delight – was always going to be special," says Alex de Rijke.

The curved glass feature in the centre aims to bring nature inside the building. Read more on biophilic design on p17.

QATAR BLOCK CAUSES STALLS

Reports emerged over the summer of difficulties experienced by construction firms in Qatar as the standoff between it and its Gulf neighbours drags on. It is a key market for many GAI members.

The trouble began when Saudi Arabia, the United Arab Emirates (UAE), Bahrain and Egypt cut diplomatic ties in June, accusing Qatar of funding terrorism, which it denies.

The economic sanctions amount to a blockade of the country with road, air and sea links cut off. It comes amid an unprecedented building boom in Qatar, which is preparing for the 2022 World Cup (sixth stadium pictured right). Key materials including concrete and steel come in by ship but also by land from Saudi Arabia.

Shortly after the blockade began, the Philippines halted the flow of its nationals to Qatar, where many go to work. The government said it feared food shortages.

"Qatar is a valuable market for us and we want to continue here but it has become difficult and if there's no improvement we will have to review our strategy," a commercial manager at a European construction services company told Reuters.

The company may stop bidding for new contracts,





UNIQUE ACCESS INSTALLED AT SERVICED APARTMENTS

Property letting specialist, Lifestyle Serviced Apartments has installed Codelock access solutions into its latest Southend-on-Sea acquisition, which lets out apartments to tourists and the corporate market. As part of the renovation process, Codelocks CL2000 electronic lock was installed on the main entrance, providing simple coded access control. CL4510 smart locks were fitted on each of the apartment doors.

The CL4510 combines smart technology with traditional keypad and card access options

and was chosen by LSA for its ability to generate unique access codes remotely. When a customer places an order, the LSA team is able to remotely issue a time sensitive code for each of the rooms. The codes can be set for any desired period of time and are disposable, expiring once the customer checks out of the property.

The locks can be operated and managed via the K3 Connect App from any location.

The firm plans to integrate the locks with Codelocks Application Programming Interface (API).



and could be forced to wind down its operations altogether if sanctions intensify, said the manager, who declined to be named because of the sensitivity of the matter.

Another executive, at an international engineering firm, told Reuters the situation had already forced his company to delay some projects.

Qatari officials have downplayed concerns. One told Reuters: "Don't believe all the hype about business being affected. Qatar can weather the storm. It is business as usual

for us here." With a block on communications a true picture of the situation is hard to gain for members.

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GAI RIBA Approved CPDs

The GAI have created four CPDs which have ben approved by the Royal Institue 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 this CPD. These CPDs are now available to GAI membership to purchase at a cost of £300 plus VAT each

Ironmongery and accessibility

This looks at legislation and standards including Equality Act, BS 8300:2009 as well as Approved Document M and the equivalents throughout the UK and Ireland. It also looks at BS 8300 compliant specification of product including door closers, automatic door operators, door furniture and hardware as well as access control products and handrail.

Specification of door hardware - an architect's guide.

This is based on the publication of the same name which is available in hard copy or to be downloaded from the GAI website. This Presentation is intended as a guide for architects on what architectural ironmongery is and how the process of correctly specifying these critical items come together.

Ironmongery for fire and escape doors:

This provides guidance for architects and building owners on the correct specification of ironmongery on fire and escape doors as well as the necessity of regular inspection and maintenance on these critical items.

The specifiers guide to access control

This looks at the definition and correct specification of electric locking and access control systems, including online, off line and virtual systems. It also looks at new product innovations.

For further details please contact technical@gai.org.uk

CALLING FOR NOMINATIONS FOR IAI AWARDS

The IAI would like to invite you to get involved and start nominating for the Institute's Annual Awards. These awards have proven to be a perfect way to acknowledge an individual's (or sometimes a team's) outstanding contribution to the Institute or the industry.

There are four separate highly valued awards available to be presented to the worthiest of candidates, these are:

PROMISING IRONMONGER OF THE YEAR

This award is intended to seek out and acclaim the brightest ironmongers in the early stages of their careers. They could be involved in scheduling, estimating, sales or a combination of them all. The successful nominee should have the charisma and personality to inspire others.

Prerequisites

• The nominator must be a current IAI member. GAI Education Programme students are fully eligible.

• There is no age limit.

The successful candidate will be a dynamic high achiever, problem solver, team player and a professional in every aspect of his/her work.
Ideally the individual will

be active within the IAI.

IAI FELLOWSHIP

The IAI Fellowship is awarded to an individual who has shown a longstanding and ongoing commitment to the Institute of Architectural Ironmongers.

Pre-requisites

The nominated individual must be a current IAI member.
The nominated individual must have made a minimum contribution of at least 10 years to the architectural ironmongery industry and the Institute.

• The nominated individual must be still actively involved with the architectural ironmongery industry and the Institute.

GAI AWARD FOR SERVICES

The GAI Award for Services to the Institute is given to an individual who has made a recent and visible contribution at branch level.

Prerequisites

• The nominated individual must be a current IAI member.

PAUL LEWIS AWARD FOR CUSTOMER SERVICE

The Paul Lewis trophy is for the individual, group or company that has made an outstanding commitment to customer services throughout the year.

Prerequisites

• The nominator must be a current IAI member.

• If an individual is nominated they must be a current IAI member.

• If a team or company is nominated they must be a current GAI member, although not necessarily all IAI members.

The awards will be presented at the Institute's Awards Presentation in 2018. Last year's event was a fantastic success and a great opportunity to celebrate the success of our IAI members.

To nominate, please visit www.gai. org.uk/iai/iai-awards-20172018 Your nominations are a key part in selecting the successful individuals.

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Fellowshi

ANGIE CORKHILL • GAI TALK

During my first couple of months as director of the Guild I have been encouraged by the enormous amount of goodwill and a keen willingness to contribute by the members I have met so far. I am proud to have joined such a strong community.



Thank you to the people who have already spent time with me, bringing me up to speed on the Guild's impressive heritage and sharing your views on our strengths and ideas about how we can improve. It has been an invaluable induction and I am keen for the open dialogue to continue throughout my tenure.

The value of the GAI education programme and the strong reputation that it holds is clear. These solid foundations present us with a fantastic opportunity to build the next generation of professional Registered Architectural Ironmongers (RegAI).

For architects, architectural technicians, interior designers, clients and specifiers, that RegAl status is their proof that the architectural ironmonger they have sought advice from is fully up-to-date with industry standards, regulations and legislation. RegAl status represents the highest possible standards of education and professionalism in our industry.

So to all members who have seen the most recent education prospectus land on your desk recently – can I ask that you make sure this gets to your appropriate line managers, training staff and HR teams to consider using our programmes to confidently develop your staff capability and knowledge.

Enrolments for the Certificate in Architectural Hardware and the GAI Diploma are now open. Our Institute branches are preparing to offer support to all learners throughout their journey, to compliment the online learning experience. We're always looking for more people to get involved with our branches so if it's been a while or you haven't yet done so, I encourage you to go along to your next local meeting.

And finally, the 2017 Education Awards on 9 November are fast approaching! We have already sold a lot of tables so if you have not yet booked, please do so soon to avoid disappointment. To book your tickets please visit gai.org.uk

I look forward to seeing you at the awards ceremony.

Angie Corkhill Director of the GAI

BOOK NOW FOR THE EDUCATION AWARDS

The GAI's stellar annual event – the GAI's Education Awards – will take place this year on 9 November at the Royal Lancaster Hotel in London.

Celebrating the industry's brightest talents, the Education Awards allow employers to recognise the individual achievements of their staff and to showcase the industry's constant pursuit of learning and the maintenance of professional qualifications.

Every year GAI members are entertained by a guest speaker who also presents winners with their awards. The guest speaker this year will be Matt Dawson. He was a scrum half and a key part of the England rugby team that won the 2003 World Cup. One of England's most capped players of all time, his journey from amateur rugby player to



nine-time England captain is truly inspirational. Last year, the audience was captivated by Sir Ranulph Fiennes. Previous speakers have included media heavyweight Janet Street-Porter and rugby giant Martin Bayfield.

Booking for the 2017 event is now open via the GAI website, with tables selling fast. Single tickets are priced at $\pounds135$ (ex VAT) and tables for 10 are $\pounds1300$ (ex VAT) per table.

www.gai.org.uk



Following the success of the GAI's three RIBA approved CPDs a fourth CPD is now available to GAI Members: A Specifiers Guide to Access Control.

This joins the first three RIBA Approved CPDs: Ironmongery and Accessibility, Specification of Door Hardware – An Architect's Guide, and Ironmongery for Fire and Escape Doors.

These CPD resources are available to GAI members to purchase for £300 (exc VAT). The presentations provide a quick and easy way for you to offer a RIBA Approved CPD to your clients, with the added benefit that architects will receive double learning points for attending a presentation of this CPD.

If you require any further detail on the GAI CPDs or wish to enquire about purchasing any of these presentations, please contact Douglas Masterson at technical@gai.org.uk.

NEW HEAD OFFICE TEAM BRING WEALTH OF EXPERIENCE

The GAI has made three new appointments to its head office team.

Angie Corkhill (pictured on facing page) is the new director, coming to the GAI with over 15 years' experience in executive responsibility within the professional and educational sector in London, Singapore and Sydney.

Her most recent role was as director of member relations and digital at Finsia (Financial Services Institute of Australasia). Angie says: "The Guild already has a strong global presence, particularly in the GCC and Asia. I'm looking forward to taking these relationships to the next level, expanding the already excellent education programme and promoting the technical support we are offering our members."

Keiron Lewis (top right) has been appointed as marketing manager. He joins the GAI with a wealth of



experience in both B2C and B2B companies including Domino's Pizza and Cadbury. One of Keiron's

earliest duties will be to organise the GAI Education Awards (see facing page).



The GAI and IAI members will be well supported by Abigail Wong, the new education and membership administrator

(pictured above). Abigail has experience in implementing and co-ordinating office procedures and ensuring the highest quality customer service for clients and members. In her previous role at the Venn Group, Abigail worked in the team administrator service department, with responsibility for more than 340 members of staff and providing support to directors of the company.

NEW EDUCATION PROSPECTUS LAUNCHED

The GAI has launched a new education prospectus, to showcase its internationallyrenowned offer. It provides information on the Foundation in Hardware, the Certificate in Architectural Hardware and the Diploma.

The syllabus has undergone major changes to reflect the GAI's growing global presence, and all learning resources are hosted on its online learning platform, accessible 24/7.

The Foundation in Hardware covers all the basic essentials on door hardware products, standards and access control.

The next stage is then the Certificate in Architectural Hardware, which forms level one and two of the GAI Diploma. Following completion of the Certificate, learners can progress to the third stage – the GAI Diploma. This focuses entirely on the skills and learning needed for scheduling, of particular importance to those working on projects being built to UK and European standards across the globe.



Rachel Tipton, training and development manager, says: "The GAI education syllabus is the only recognised programme in the world that leads to a qualification in architectural ironmongery to British and European standards.

"The programme meets the expectations of today's learning environment, and the constant evolution of the courses ensures that all of our learners have the support they need, whenever they need it."

The prospectus is available on the GAI website, with learners booking onto the programme now and the final Diploma examination already scheduled for 21 June 2018.

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GAI In-house Training Service

The GAI's latest initiative is an in-house training service on a number of topics which can be tailored to your specific requirements.

Topics which can be covered include:

- Ironmongery: product and specification
- Access Control: product and specification
- Building Information Modelling (BIM)
- Environmental Product Declarations
- Accessibility
- Security
- BS and EN standards
- Sales and Negotiation for the ironmonger

For further details and pricing please contact Douglas Masterson on technical@gai.org.uk



rchitectural ironmongers SDS London has been serving trade and public customers from its South London base for more than 25 years.

As part of its ongoing commitment to ensure staff are up to date with industry standards and best practices, nine members of staff have already completed the GAI Foundation in Hardware.

Jasmine Downer, who works in the customer service department at SDS London, has recently completed the Foundation course.

"We get a lot of technical questions from our customers, so it's important to know what we're talking about," says Jasmine. "Although I'd picked up some knowledge of hardware, I wanted to be confident in answering our customers' technical queries so I enrolled on the Foundation in Hardware.

"The course was very straightforward and I'd definitely recommend it, especially to people in sales and other customer-facing roles. It gives you a basic understanding of hardware that means you can help with all technical queries that come your way. It's also a great stepping stone to the Diploma, which I will definitely be doing in the future."

Simon Ayers, sales director at SDS London, is a big advocate for staff training.

"Enrolling your staff on the Foundation gives them the confidence to talk about your products from a technical perspective and as an employer, gives you peace of mind knowing that your customers are getting high quality technical advice.

"The Foundation is a great starting tool, not only to prepare people for the GAI Diploma, but also for

FIRM FOUNDATIONS

Can your customer-facing staff answer technical queries with confidence? The GAI Foundation in Hardware equips them to do just that. **Hannah Cooper** reports on one AI firm reaping the benefits and sheds light on what's involved.



I'd recommend the course to people in customer-facing roles. It gives you a basic understanding of hardware that means you can help with all the technical queries that come your way." giving them an overview of the industry and products within it. From start to finish the Guild's education programme is fantastic."

The Foundation in Hardware is an online course that gives students a basic overview of architectural ironmongery. Consisting of 12 modules and a final exam, the course covers a range of door hardware products, standards and the basics of access control.

There are no time restrictions and the final exam can be retaken as many times as needed until you pass allowing students to develop their knowledge without affecting their working day.

This flexible structure lets students study at their own pace and get the most from the course. Once the final exam has been passed, the students get a Certificate of Competence as evidence of their learning.

Since its launch in 2013, over 400 students have signed up to the Foundation in Hardware. Rachel Tipton, the GAI's manager of education, says the course adds a string to the bow of the individual and their employer.

"The Foundation in Hardware is ideal for those who are not involved in architectural ironmongery as their day-to-day job but do need a basic knowledge of door and window hardware," said Rachel. "We've had students from locksmiths, builders' merchants and Al companies enrol on the course and it has been a benefit for not only the individual, but their company too."

Find out more about the Foundation in Hardware and other GAI Education programmes at: www.gai.org.uk/education-4



Left: Bosco Verticale, Milan, Italy, taking wellbeing to high rise living Right: Qantas living plant Wall



ou'd have to have been living under a rock to escape the trend for wellness. We are all encouraged to be mindful while imbibing a kale smoothie during a downward dog. However it's easy to cynically dismiss it as a buzz word, a phase that will fade as fast as hipster beards, but with mental health issues on the rise and UK plc losing 130 million days a year to sickness absence, positive health and wellbeing is now an issue that businesses are taking seriously. For the architecture and interior design sector the rise in demand for healthy workplaces presents new market and business openings.

We spend 90% of our lives in buildings which means our health and wellbeing is influenced significantly by the built environment. In our typical office environment in the UK up to 60% of staff don't have sufficient access to daylight and working-age ill health costs the national economy £100bn a year.

This summer BRE, the building science and research centre, announced its plans to prove how crucial work environment is to productivity by creating a biophilic office. Biophilia (meaning a love of nature) focuses on a human's innate attraction to nature and natural processes. Biophilic design uses these ideas as principles to create a human centred approach that when applied improves the spaces we live and work in.

"Biophilic design acknowledges that we are genetically connected to nature and that a human centred approach can improve many of the spaces that we live and work, with numerous benefits to our health and wellbeing and efficiency," says BRE. "The scientific evidence for the positive influence of biophilic design, on the health and wellbeing of building occupants is substantial and

A core philosophy of the project is to provide new evidence-based outtakes for specifiers and contractors to implement in office design and refurbishment"

growing. In an office environment this is shown as quantified improvements in productivity, wellness and a reduction in days absent due to illness. A 1% reduction in absenteeism would convert to a saving in lost days alone of £1bn to the economy. In addition a 15% increase in operational productivity enabled by the internal fitout of your office adds further benefit.

"While many are aware that biophilic design can have a big impact in the workplace, there's currently no comprehensive evidence that draws conclusions from a working study," says Ed Suttie, research director at BRE. 'We want to build compelling evidence that engages individuals to help them adopt learning and change their current practices', he adds. "A key outcome of our project will be guidance that lets architects and designers pick up the findings and apply them."

Various partners are involved with the project and will be using the office and its test facilities to evaluate their products' role in promoting the health and wellbeing of office occupants and for wider biophilic design. "A core philosophy of the project is to provide



ANDREWARCHY

practical guidance and new evidencebased outtakes for architects, specifiers, contractors and real estate owners to implement in mainstream office design and refurbishment," says Richard Sabin of Biotecture, designer and supplier of living wall systems who is one of the involved parties. "This project will be significant in shaping thinking about reintegrating nature into our everyday lives," he adds.

Elina Grigoriou, design and sustainability director at Grigorious Interiors, specialists in SKA ratings and wellbeing interiors, echoes Sabin's points and adds that designers need suppliers to help them meet the wellbeing brief.

"As designers we specialise in creating interiors that support *>>>*

Who else is involved in the BRE Biophilic Project

A number of organisations have also committed to becoming dissemination partners for 'The Biophilic Office'. This includes: Construction Products Association (CPA), Chartered Institution for Architectural Technology (CIAT), Constructing Excellence (CE), European Federation of Interior Landscape Groups (eFIG), Innovation Gateway, British Blind and Shutter Association (BBSA) and a range of media organisations.

A host of founding core partners are involved to bring their industry expertise into the project. Each of the partners will be using the office and its test facilities to evaluate their products' role in promoting the health and wellbeing of office occupants and for wider biophilic design. These are:

 Interface – global manufacturer of modular flooring
 Biotecture – designer & supplier of living wall systems
 Akzo Nobel – global paints and coatings company • Plessey – innovative lighting and ECG sensing technologies • Royal Ahrend – professional work

environments, furniture products and services • Coelux – innovative skylights to reproduce natural light • Ecophon – acoustic products and systems for working environments • GVA – real estate & project management solutions. occupant wellbeing, and we do this because it supports people's happiness and creates positive living spaces.

"It makes for happy homes, productive workplaces or schools and enjoyable lifestyle interiors in bars, restaurants or gyms. A person who feels well has higher resilience and takes initiative so it makes sense in so many ways other than just being a good ethical approach.

"Products and materials are the tools with which we can deliver these comfortable and healthy spaces, so today we rely on manufacturers to improve their products to also meet the need for wellbeing. For example, products that include multiple colours can create pallets that harmonise with specific personality profiles rather than trends; surfaces that have texture could consider the spaces they will be typically installed in and if they need to be lighter or heavier textured to be more or less stimulating; and products could be more definite towards an artificial or authentic style which supports the two main streams of design aesthetic.

"Wellbeing is a human state but it is supported through the spaces we live in; let's make these intentionally positive, we have the knowledge now to do so."

Prove it

The BRE project is a live office refurbishment that will provide environmental and human data as evidence for positive health and wellbeing impacts on office occupants. The project centres on a 650m² 1980s office building on the BRE campus in Watford, which will be refurbished according to biophilic design principles.

"The project will show how quantified improvements in productivity and wellness can bring rewards for landlords, occupiers, developers and all those concerned with the office and wider built environment," says Suttie. "Researchers will carry out a baseline year of pre-refurbishment and a year of post-refurbishment monitoring,



Products and materials are the tools with which we can deliver these spaces and we rely on manufacturers to meet the aesthetic "



Above: Singapore School of Arts, an inner-city specialist high school designed by WOHA

Left: Plants and natural light are touchstones of biophilic design

evaluating the office environment for daylight, lighting, indoor air quality, acoustic, thermal and humidity comfort. Office occupants will undergo confidential health evaluations, and sign up to a series of online questionnaires and surveys. They will use wearable technology to monitor key health metrics."

This comprehensive and long-term study is unique in terms of scale and data capture. It will provide a firm foundation for guidance and »»

Top five elements most wanted in office space

- Natural light 44%
- Indoor plants 22%
- Quiet working space 19%
- View of the sea **17%**
- Bright colours 15%

Source: Human Spaces: The Global Impact of Biophilic Design in the Workplace. 2015. Available: http://humanspaces.com/ global-report





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adoption of measures in the facilities management and refurbishment sectors to promote health and wellbeing in offices.

BRE is partnering with architect and interior designer Oliver Heath, who will lead on the design element of the refurbished building.

A design strategy will be developed including tiers of interventions in zones within the office. The products used will also undergo laboratory evaluation to establish whether a health and wellbeing potential can be quantified at product level.

"We'll use a variety of biophilic design methods to assess the value nature-inspired design brings to the wellbeing and productivity of office workers," says Heath. "By creating spaces that improve our physical and mental wellbeing, individuals are able to perform better," Heath told My Green Pod magazine. "Rather than having rows of identical desks and white walls, a biophilic office is welcoming and engaging. It's likely to feature good natural light, an abundance of plants, natural or synthetic materials that mimic natural surfaces and a variety of different zones."

New frontiers

According to Heath, biophilia is the new frontier in sustainable design. "There's a wide body of research on the benefits of biophilic design in laboratory conditions, but less in the actual working environment," he explains. "We now have an opportunity to do this and for Interface, a company that's committed to creating positive spaces and exploring the genuine positive effect design can have on our lives, it's an opportunity to be part of a ground-breaking project."

Interface is one of the project sponsors. It commissioned research into the global impact of biophilic design in the workplace when it developed a range of flooring collections inspired by the natural world. The research found that employees who work in environments with natural elements report a 15% higher level of wellbeing, are 6% more productive and 15% more creative overall.









Five of the best biophilic designs

- 1. Clif Bar manufacturing bakery Idaho, USA
- 2. St Mary's Infant School, Oxfordshire
- 3. Bosco Verticale, Milan, Italy
- 4. Scarlet Spa Cornwall
- 5. Lochristi, Fashion Store Ghent, Belgium

More information on the BRE project can be found at www.bregroup.com/biophilic

Testing the recipe

While BRE is at the start of its project, US manufacturer of cutting-edge energy and protein bars Clif Bar opened last summer its \$90 million Twin Falls (ID) bakery, a one-of-akind, sustainability-focused facility that intentionally uses biophilic design. Its 300,000-square-foot bakery features a host of biophilic design elements integrated into the bakery's original design, including more than 200 windows, vaulted skylights, light-directing solatubes, indoor walls of recycled barnwood and natural stone, indoor plants and sliding doors that connect an auditorium to an outdoor events space. A packaging area without exterior windows offers wall-projected images of the natural outdoors that rotate daily.

Outside, Clif Bar built patios for pleasant outdoor breaks and planted drought tolerant, native plants, including more than 570 trees and 5,700 shrubs and grasses. Slated for the near future are a biking/footpath and organic community garden.

"This is the first bakery – and manufacturing facility of any kind in the nation that I know of – to incorporate biophilic features from the outset," said Bill Browning, a leading expert in biophilic design and a founding partner of Terrapin Bright Green design consultants in New York who consulted with Clif Bar on the design.

Browning hopes Clif is in the vanguard. "We've seen biophilia designed into offices, hospitals and schools in the United States, but never as an upfront design strategy in this sector. I hope Clif Bar's unique bakery signals a new era in design for the wellbeing of people in all types of built environments."

Follow progress of the BRE biophlic project on Twitter @BRE_Group #biophilicoffice

BRE also offers a course on The Biophlic Office at a cost of £10. Head online to https://bre.ac/ course/biophilic-office/.

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RISING TO THE CLOUDS

Steve Bewick is driving a new era of cloud-based digital products at a new kind of company. He tells Nicky Roger about a post-merger dormakaba with big ambitions

t has been two years since two of the biggest names of the architectural ironmongery industry merged to become one mega player. The merger of the two businesses Dorma and Kaba to form dormakaba, was announced at the end of April 2015, completed on 1 September 2015 and with that dormakaba Holding became one of the top three companies in the world for security and access solutions. Combined sales total more than 1.9bn Swiss Francs and staff amount to 16,000 employees in 130 countries.

There was invariably attrition in the process and many staff went through a selection process but Steve says "it went as smoothly as difficult processes like that can do". Much of the process was supported by a specialist global HR firm. The pleasing outome was, in terms of senior leadership, the balance of dorma and kaba was 50:50. Steve's new role as senior vice president for UK, Ireland and Benelux remains almost identical, just swapping Scandinavian countries for Benelux.

Technically speaking

Not suprisingly, talk of the merger dominated for some time but now the dust has settled the atmosphere in the company is 'business as normal'.

What has emerged is a new kind of company. Not one shaped by the merger but more shaped by the rapid new direction the access control solutions sector is taking. dormakaba is positioning itself in the vanguard of becoming a technology company.

"The future trends in the market are based around connectivity and digitalisation. It's a huge part of our future," says Steve. "No longer are access control solutions managed or maintained on site – it can be managed more dynamically."

Technology is changing the framework of business as we have known it in many sectors. This new terrain, Steve admits, is exciting but

Data has been referred to as the oil of the 21st century; every time someone walks though a door it generates user data"

also a threat. "Look at the biggest taxi firm in the world which has no taxis – Uber – and the biggest hotelier with no hotels – Air BnB," he cites to illustrate the prospect of new models of competition a possibility.

"And it changes the buying process. We don't own things any more, we pay for services and digital content.

"Data has been referred to as the oil of the 21st century. Products and services generate data: every time someone walks though a door it generates user data, maintenance information and details about traffic in a building."

Leading the move to digitalisation as a central strategy is exivo – a cloudbased access control solution (see box right). But Steve stresses that mining the data is also a risk management issue.

"We are offering cloud-based technology which affords accessibility for access, meaning users and management can be elsewhere with a remote device. But we have invested heavily in the security of that data because most businesses are reluctant to have a third party device broadcasting in their business, such as hotels adopting digital keys. But we are guaranteeing security of that data so there is extremely limited risk of penetration or hacking of the system."

To bring the group mantra of becoming a trusted leader in the market means more than good products and reassuring customers data is safe. Steve says having highly engaged employees is vital.

"After the merger it was about keeping customers safe, but it's dangerous to forget about staff. We offer a high quality product and service and it can only be underpinned by infusing our employees with that strategy."

A new three year strategy is being cascaded to all employees so that if a new service to the airport sector is introduced, for example, even the *w*



DIGITAL WEAPONS

Exivo is the big gun in dormakaba's tech products arsenal. It is aimed at SMEs looking for a hosted solution to their access control system with minimal internal IT co-ordination. All users need is internet access. They can access the system from anywhere over a computer, tablet PC or smartphone.

Critical doors are secured and monitored by electronic and wireless locking components. Complete control over access media ensures maximum security and flexibility. Access rights can be changed or cancelled for individual employees at any time. All other doors are secured as usual with keys and mechanical locking systems, which can also be managed over the exivo system. Exivo is run over a cloudbased platform, accessible to the customer and, if necessary, their exivo partner. The customer decides which tasks they wish to manage and which should be hosted by the exivo partner. No server, additional computer or software is required on site and functionality upgrades are immediately available over the central exivo platform held on secure protected servers. www.dormakaba.com/exivo







New products and services from dormakaba are part of a three-year strategy





I treat people the way I like to be treated. I am a positive person, a communicator who likes to have clear objectives that we measure against but a little humility goes a long way" staff in the Hitchin distribution hub are made aware of it, and the importance of our 98% on-time delivery guarantee. "Communicating that will resonate with them," explains Steve.

The culture at dormakaba is one that cuts slack too. "We create an environment where it's ok to fail because we want to drive customer satisfaction and sometimes learning from mistakes is the best lesson. We manufacture thousand of keys but if one went wrong we learn from that. But it shouldn't be the only time we recognise the people in that process; 99.99% accuracy is great.

"We set challenges and know that while we're learning we make mistakes and we create an environment where that's ok.

"It's ok to voice doubts too and as management we should listen and deal with it. The people who give the best guidance are the people who talk to customers all the time every day."

Steve's own management style is equally enabling. "I treat people the way I like to be treated. I am a positive person, a communicator who likes to have clear objectives that we measure against but a little humility goes a long way.

"Consistency and integrity are important, as is building trust; you have to appear to be who you are." He sees his role as to take the handbrake off. "We spend so much time recruiting people so we then must give them the space to develop. We create a framework and say this is what good looks like."

Sporting heroes

Leadership role models for Steve exist in the sporting arena rather than in business, although he gives Richard Branson a mention for his admirable approach especially to people. But as a keen rugby player, Steve says Martin Johnson has a great style: "People who understand that life is in fact simple and we can over complicate things are my kind of people.

"Attitude and effort is everything: the philosophy is 'we don't know everything but we will learn'. As a rookie in Tai Kwan Do coming from a rugby background I was in a position where I didn't have any of the required skills, surrounded by young children who were impressive. But I go, I train hard, I listen and learn from others. No matter how good you think you are you always can learn from others.

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WHERE ARE THEY NOW ?



In those days you had to explain what DipGAI meant especially in Canada. I was the first resident overseas to obtain the DipGAI qualification"

Continuing the GAI's initiative to reunite with past Diploma holders we catch up with **Colin Milne** who talks us through his career

n 1963, I joined G&S Allgood Ltd, as a sales order clerk, after previously working in the accounts department of Eastwoods
 of City Road, who were then one of the largest suppliers of building materials including bricks, cement, gyproc products and ironmongery.

In 1964, I moved to Birmingham as part of the team, to establish G&S Allgood (Birmingham) Ltd. After six months, I returned to Allgood in London, until in 1967 at the tender age of 21, I married and with my 'new wife' Sandra (Sandy), who was just 19, emigrated to Canada the following month, as the manager of Allgood (Canada) Ltd.

In 1967, whilst in Canada, I sat the examination set by the GAI and managed to gain the necessary marks to proudly use Dip GAI after my name. In those days one had to explain just what DipGAI meant, especially when in Canada! I was the first person, resident overseas, to obtain the DipGAI qualification.

After returning to the UK in 1970, I joined Allgood Continental Ltd., managing the overseas orders for the Allgood Group, which then mainly consisted of the extremely successful Modric range of products. In the January of 1971 my daughter Kimberley was born.

After leaving Canada and getting itchy feet, I joined Dominion Lock a Canadian company, selling cylindrical knobsets in the UK. Not one of my better career moves!

In 1975 I returned to G&S Allgood Ltd, as a technical rep dealing with the myriad problems and installation issues that can occur during the construction stages of a building and sometimes after the event. In 1976 my son Gordon was born.

During this period, I became the social secretary and then the chairman of our local South East GAI Club. I also became involved in negotiations with the GAI in the setting up the Institute of Architectural Ironmongers.

In 1979 I joined Warshaw Safety & Security Ltd., a company in the very forefront of the embryonic market for electronic access and exit control, cctv and related security products. It was a time when mechanical digital locks, such as the Unican lock, were looked at with some awe and amazement!

In 1980 I became the second national chairman of the Institute of Architectural Ironmongers, following Ron Sterling.

After becoming sales director of Warshaws, I left them in 1986 and again re-joined the Allgood Group as a managing director to establish the company Allgood Security Hardware Ltd, to promote the use of electronic access and exit control, cctv and related security products; seems like I've been here before!

In 1997, I became a partner of Trio Security Ltd., a company not only supplying security products, but also able to install the equipment using our direct labour of qualified engineers, which gave us much greater control over the technical requirements and the standard of the installation."

I retired in 2008 due to health issues, however, subsequently Allgood took over Trio and the company is now known as Allgood Trio Ltd. ■



Smart access means Dorma and Kaba joining forces

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The Grenfell Tower tragedy threw up a debate about the chain of responsibility for a building's fire safety. So how much rests on architectural ironmongers? **Siobhan Kirwan-Lee** reports

P assive fire protection is the primary measure integrated within the constructional fabric of a building to provide inherent fire safety and protection. By responding against flame, heat and smoke, passive fire protection measures maintain the fundamental requirements of building compartmentalisation, structural stability, fire separation and safe means of escape.

Ironmongery serves a critical role in supporting the passive function of a building and in protecting and facilitating exit routes. We, as architectural ironmongers, remain acutely aware through our industry related work and through education programs, such as those offered by the GAI, of the importance of standards and regulations as well as adhering to them, the necessity of ensuring any advice given is legally correct and the importance of keeping up to date with regulatory reforms.

As manufacturers this includes testing products to relevant standards and ensuring ongoing production is maintained in line with these standards. Manufacturers also endeavour to provide precise and informative literature and fitting instructions as well as advice through sales teams, to support customers in understanding available products, their certification, capabilities and of course their limitations.

Pointing fingers

So, who is ultimately responsible for the fire safety and integrity of a building? In the Association for Specialist Fire Protection's *Ensuring Best Practice for Passive Fire Protection in Buildings* document it advises that the owner/operator of the facility is responsible for ensuring



that the building meets the legal requirements and is then operated in accordance with the law.

However the building owner/ occupier is unlikely to be an expert on all aspects relating to the conformity of a building and may look to use experts to support the achievement of the legal requirements. There is a chain of involvement consisting of, but not exclusively: owner/operator, architect, specifier, supplier, manufacturer, contractor, installer and door or fire inspector. Any break within this chain could be the cause of a failure within the fire integrity of the building. Above: the Grenfell Tragedy sparked a total industry rethink on fire safety

It is difficult to pinpoint blame. However, failure to meet regulations will leave any link in the chain vulnerable"

So where does our responsibility start and end? A difficult one to answer but we each have a duty to ensure that our part in the chain is at least of an acceptable level and that we conform to best practice: ensuring products are manufactured in line with their certification, correct products are specified for their intended use and, that products are fitted correctly in line with manufacturers' instructions. Failure to comply at any point will surely expose companies and individuals to liability. More importantly it will leave buildings vulnerable to the progression of a fire and ultimately to the potential endangerment or loss of life.

In the aftermath of a disaster it is difficult to pinpoint where blame will be apportioned. However failure to meet with regulations and best practice will leave any link within the chain vulnerable to prosecution. Surely, the only way to protect ourselves is to ensure that we assiduously undertake our duties and responsibilities within our area of the supply chain.

For a specifier and supplier it cannot be considered acceptable to make assumptions and to not scrutinise certification including its validity and its limitations. Failure to do so could be considered malpractice. For example there may be some products such as a door closer which is classified as a power size 2-4 closer, but has only been tested for use on fire doors in power size 3, thus making it not suitable for a fire door over 60kg or 950mm wide. Putting our proverbial 'heads in the sand' cannot be considered a defence for failure to supply a correct and suitable product. Working with your manufacturer can help to ensure clarity where it is needed.

It is similarly important to note and understand that in some circumstances a fire escape door may also function as a fire door. In such instances the escape hardware would also need to be fire tested to an appropriate level, which is not the case in every eventuality – again this should be checked and verified.

Common issues that are seen within the market could indeed make buildings and their occupants vulnerable. Examples include situations such as the use of emergency exit devices in environments that require panic hardware which seems all too familiar. The price differential is often minor and therefore other factors must come in to play. An emergency escape unit, complying to EN179, is invariably a smaller and more discrete option than a panic escape bar required by EN1125. Therefore perhaps the aesthetics of a smaller unit or even fitting time may influence the final decision; or indeed lack of understanding of the environment and its needs.

Certain products, those generally requiring a portion of the door to be removed in order for it to be housed, usually require intumescent surrounds to allow them to achieve the fire standard. How confident can we as suppliers, manufacturers and specifiers, be sure that they are fitted with the product? Where they are not fitted a potential fire breach will have been created thus voiding function as a fire door.

In order to ensure the integrity of buildings and the safety of its users it is incumbent upon us all to ensure the veracity of our work. To recommend and to supply products that will allow a building to function both safely and effectively. To ensure that we are working to the values of best practice. Failure to diligently perform our parts within the chain leaves us liable and could place lives at risk.

Siobhan Kirwan-Lee DipGAI is marketing manager at Exidor www.exidor.co.uk

KNOW THE DRILL

To help Als with taking responsibility for fire safety in a building **Douglas Masterson** offers technical advice on product compliance

t is incumbent on all of us, either as specifiers or as manufacturers who are in a position to provide any product which relates to fire protection to constantly review our own policies, products and practices. • Remember the importance of

fire doors

Sadly people often forget the major significance of fire doors to a building. Fire doors have two main roles: one is to protect property and the other is to save lives. A correctly specified, installed and maintained fire door will be able to serve both these functions.

When a fire door is closed it can stop fire and smoke spreading, provide a safe and protected escape route while people evacuate the building and provide some protection for fire-fighters entering the building to fight the blaze.

Fire doors must be installed to replicate their tested condition, and if any changes are made to them in any way, these are likely to negatively affect



their fire performance, and nullify any third party certification or CE mark.
Know about the necessity of correctly functioning ironmongery.
Fire doors rely on the vital functionality of the ironmongery that is used to allow them to operate on a daily basis, often over a period of many years. Then and only then will they perform their fire resistance function.

Fire doors must also fulfil privacy, security, thermal and acoustic functions which requires the hardware to have a very high level of durability and performance. The ironmongery must work together as a system to ensure the fire door works to its intended purpose.

A fire door will only function as a fire door with the correctly specified, fitted and maintained essential and nonessential ironmongery.

• Be aware of the risks in specifying It is often tempting for an architectural ironmonger when put under price A fire door will only function as a fire door with the correctly specified, fitted and maintained ironmongery" pressure by a contractor to make changes to a specification in order to secure an order, (a process often known as 'value engineering' a specification). This practice is fraught with risks, particularly on essential items such as hinges and door closers.

If hinges are incorrectly specified there is a real risk of a door dropping with the result that it may not be able to close properly in to its frame.

A door closing device is defined in Approved Document B of the Building Regulations in England and Wales as a "device which is capable of closing the door from any angle and against any latch fitted to the door". The GAI advise extreme caution in ensuring the specification you have prepared for a self-closing device is able to do just that, and ensure that any change to a specification does not impede this vital function.

• Ensure specifiers are fully trained The specification of architectural



ironmongerv is a highly technical practice involving detailed knowledge of product, standards and the correct methodology of scheduling. The GAI provide the DipGAI, a world renowned three stage course which trains learners in all aspects of this skill.

The GAI also provides ongoing CPD for those who continue their education beyond DipGAI and become **Registered Architectural Ironmongers** (RegAl).

Be aware of Building Regulations There are a number of guidance documents to Building Regulations which relate to fire safety throughout the UK and in the Republic of Ireland.

Specifiers should familiarise themselves with the contents of these documents. Download the following from the GAI website: England and Wales: Approved Document B: Fire Safety; Northern Ireland Technical Booklet E: Fire Safety; Scotland: Technical Handbook Fire: Domestic

SUPPORT FIRE DOOR SAFETY

Fire Door Safety Week is an annual event which highlights the critical importance of fire doors as an engineered safety device. The GAI is a continual supporter of this hugely important event and this year is presenting on appropriate ironmongery specification at a fire door safety conference at the Building Centre in London. Follow Fire Door Safety Week on Twitter @FDSafetyWeek to

keep up to date

and Non-domestic; Republic of Ireland Technical Guidance Document B: Fire Safety (new version published July 2017).

Know the relevant standards

There are a number of products which fall under the scope of harmonised standards as per the table below, so always ensure any product you are specifying which is to be installed on a fire or escape door and which falls under the scope of this standard is CE marked, and has the correct documentation in terms of its Declaration of Performance (DoP). The GAI provide a site specifically for members to create their own DoPs through the technical members' area. The GAI Technical Guide to the CPR no.5 publication is available on the GAI website which provides further clarification on those standards which are harmonised.

• Keep up to date with GAI advice The GAI continually updates its members with detailed advice on all manners of issues including products. standards, building regulations and industry related issues such as BIM. These are in the form of Technical Briefings and Guides to Standards, all

PRODUCT TYPE	BS EN NUMBER	USAGE LOCATION
Single axis hinges	BS EN 1935	Doors on escape routes and fire/ smoke control doors
Door closing devices	BS EN 1154	Fire/smoke control doors
Electrically powered hold open devices	BS EN 1155	Fire/smoke control doors
Door co-ordinators	BS EN 1158	Fire/smoke control doors
Locks and latches	BS EN 12209	Fire/smoke control doors
Electromechanical and latches	BS EN 14846	Fire/smoke locks control doors
Emergency Exit Hardware	BS EN 179	Locked doors on escape routes
Panic Exit Hardware	BS EN 1125	Locked doors on escape routes

of which can be downloaded from the members section of the GAI website.

• Refer to the Code of Practice: Hardware for fire and escape doors For further detail on the correct ironmongery for these applications please refer to the Code of Practice: Hardware for fire and escape doors published jointly by the DHF and GAI which is referred to in UK and Ireland local Building Regulations and is available on www.firecode.org.uk

 Consult industry publications There are a number of other relevant publications which are available to download such as the BWF Certifire Best Practice Guide. This is a guide for selecting, installing, using and maintaining fire doors. This also features a range of useful checklists

The Barbour Technical Guide to Fire Precautions and Fire Protection is also a useful download which covers legal requirements for responsible people under the RR(FS)O.

Consider the Fire Door Inspection Scheme

The FDIS online learning module was developed jointly by the GAI and BWF and provides unique online learning leading to a Diploma in Fire Doors (DipFD) and a route to becoming a Certificated Fire Door Inspector (Cert FDI). FDIS provides education which is essential for anyone working with fire doors and escape doors, providing knowledge and understanding about the critical role of fire doors.

Remember maintenance

Maintaining life safety critical items such as fire doors and ironmongery is not a luxury but a necessity. The Regulatory Reform (Fire Safety) Order 2005 states: "In order to safeguard the safety of relevant persons the responsible person must ensure that the premises and any facilities, equipment and devices...are subject to a suitable system of maintenance and are maintained in an efficient state, in efficient working order and in good repair."

Douglas Masterson is the GAI technical manager. If you have any further questions email technical@gai.org.uk

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NEW PRODUCTS >>





DORMAKABA RELEASES OVERVIEW BROCHURE

dormakaba has launched a combined products and market

sectors brochure to showcase its comprehensive product portfolio. The new catalogue outlines the complete range of products and services available within security and access control for buildings.

The first section has been divided into product categories including: mechanical key systems, door hardware, electronic access and data, interior glass systems, lodging systems, entrance systems and safe locks.This ensures customers have a quick and easy reference guide.

The last section has market sector categories that recommend

fit for purpose products depending upon application. These include education, healthcare, airports, retail, rail, banking and finance, utilities and telecoms, hospitality and leisure, government and MoD, as well as manufacturing.

In addition, the new brochure includes an overview of the everexpanding digital presence of dormakaba within the market. One area of focus is the dormakaba 360° City app, which allows users to take a virtual tour of the company's extensive portfolio with in-situ images and detailed product information.

» www.dormakaba.com or contact marketing.gb@dormakaba.com

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Adams Rite has cut the delivery times of the ARC51N concealed transom door closer range.

As the demand for a wider range of different ARC51N configurations

increases with the development of new commercial aluminium systems in the UK, Adams Rite has made a major change to how it stocks these door closers. Instead of holding an inflexible range of complete units, the organisation has introduced a 'made-to-order' process. This provides flexibility to build most variants to order, reducing the shipping lead time to a target of two days.

The ARC51N is fully tested to EN1154, and has helped many commercial doorsets achieve PAS24 and EN6375. All units are supplied with a heavy-duty bottom pivot as standard. The ARC51N has a standard footprint, allowing fast installation across a wide variety of commercial aluminium door systems and can be specified with 18, 22 or 26mm spindles.

>>> www.adamsrite.co.uk

ALLGOOD GETS TO GRIPS WITH ULTRAFABRICS

Allgood has launched an extensive choice of grip options for its Sembla range of lever and pull handles in partnership with Ultrafabrics. The high-performance fabric will introduce a wide variety of colours and textures into the ironmongery sector allowing a high level of customisation.

ZERO HOLDS FAST ON ANTI-SLIP

Zero Seal Systems Ltd has revealed results of independent laboratory anti-slip testing, on its Modular Thresholds, 6.4mm Low Flat Thresholds and Traction TreadTM Thresholds: all achieved a 'low risk' classification to BS 7976-2.

There is no express requirement to achieve a 36 Pendulum Test Value (PTV) or greater to BS 7976-2 in the conditions of end use, but it is a clear requirement of UK law that floor surfaces must not present risks



The Sembla range

consists of a central node, grip

and tip that can be customised to suit individual design requirements. The

addition of Ultrafabrics will provide over 300 colour and texture options.

Allgood at its Birmingham factory,

certified to BS EN 1906 grade 4

Precision engineered from

grade 316 stainless steel and

manufactured in the UK by

the Sembla range has been

category of use.

>> www.allgood.co.uk/

to health. In many legal cases a 'low risk' classification (36+ PTV) has been a key point of interest in determining whether a surface is safe or slippery. Test evidence in regards to the slip rating of thresholds is regularly asked for in public transport applications.

>> www.zeroplus.co.uk



COMPACT CHOICE FOR SAFETY

A new compact safety sensor for automatic swing doors has been added to GEZE's suite of activation devices and sensor systems. The GC 342 sensor is a presence detector with a clean aesthetic.

The compact sensor can be used with all GEZE automatic swing door operators, on door leaves with a width of up to 1600mm. It offers reliable detection, even when installed at a height of 3850mm and provides greater protection particularly in front of or behind the door leaf when the door closes and at the secondary closing edges.

GC 342 is produced in black, white and silver. It helps meet the EN 16005 standard and has been type certified with GEZE automatic swing door systems by the German Association for Technical Inspection (TUV).

GC 342 is available in a kit form, with left and right sensors, door connection cable, a transmission cable for hinge or opposite hinge side, corrugated hose and accessories, or as individual units.

» visit www.geze.co.uk



UNION OFFERS FIRE DOOR ACCESS SOLUTION

UNION has introduced DoorSense, a legal way for fire doors to be kept open for access and be able to close automatically in the event of an alarm.

DoorSense is CE marked to EN 1155 standards, meeting legal requirements to allow fire doors to be kept open, assisting access and providing greater movement in a building when needed, while reacting fast should a fire occur.

DoorSense is a battery operated standalone system, activated by simply opening a fire door pushing the system's foot plunger down into the floorplate, holding the door open to ease access into the building. When a fire alarm sounds, DoorSense uses sophisticated acoustic technology to identify the alarm and automatically release

SALTO LAUNCHES NEW SMART DOOR HANDLE

SALTO Systems has launched a new locking solution for internal doors. XS4 One is a battery-operated wireless electronic escutcheon networked through the SALTO Virtual Network and SALTO Wireless network. Installation is possible on any type of door and it is available with mechanical cylinder cut outs for key override or access lock outs.

It has a choice of mechanical or electronic privacy option, and the lock can always be opened from the inside. It has been tested to

UNION UPDATES TRIMEC ES110

UNION has released the updated ES110 Electric Strike, which includes new features to make installation easier.

The ES110 series is now supplied as standard with dual voltage 12/24v DC capacity, allowing adaptability to individual installations. Its design means customers no longer have to choose between voltages.

Furthermore, all products are now offered with both short and long



the foot plunger, allowing the fire door to firmly close via a separate door closer.

Offering simple installation with no wiring required, DoorSense can be easily retrofitted to doors using older holding mechanisms, will work at any angle, and can be released manually or automatically via the alarm or by using a built-in night closing timer.

DoorSense can be specified in three colours – black, white or red – and is powered by two alkaline C batteries, which are included as part of the overall package.

>> www.uniononline.co.uk/ doorsense.



EN 1634. It is suitable for doors from 32mm up to 120mm – ideal for doors that require additional security without a conventional access control system.

»www.saltosystems.com

stainless steel face plates included as standard. Customers can install the appropriate faceplate for either metal or timber door applications.

The existing standard features carried over include a quickly reversible fail lock and unlock function, a high holding force of up to 3,000lbs and protection against dust and water ingress to IP56. The ES110 is also tested up to one million cycles and offered with a five-year warranty.

>>> www.uniononline.co.uk

NEW SECURE SOLUTIONS FROM GRETSCH-UNITAS

Gretsch-Unitas (GU) has launched a new range of overhead door closers onto the UK market. The range includes fixed and variable power scissor arm closers as well as cam action surface mounted and concealed guide rail closers.

Offering silver and 304 stainless steel cover options and matching arms sets as standard, GU can also quote for specialist colour finishes.

The firm has also introduced the new BKS BTC remote wireless solenoid panic lock and IP65 rated battery keypad for unique single door access control.

ASSA ABLOY WIDENS DOORS

ASSA ABLOY Security Doors has introduced the Prima Doors range to its portfolio.

Following the acquisition of Prima Doors, the move allows the firm to serve a greater number of markets and applications. Prima Doors are offered with complete factory-fitted ironmongery solutions, in line with product and project performance requirements.

The range provides high-quality steel hinged doors for internal and external applications, delivering assured performance and meeting stringent fire, security and acoustic requirements.

» www.assaabloy.co.uk

BRIO OPENS DOORS

Brio's 286 Dual Point Lock system launched last year has been joined by Brio's 288 Lever Furniture to give joiners a deluxe option to offer.

Brio's 286 Dual Point Lock is suitable for exterior folding system Weatherfold 4s with timber or aluminium panels and for single hinge panels up to 3.5 metres high, offering an alternative to the standard flushbolts.

>> www.brio.co.uk

Offering secure, wireless pairing with encrypted signal transmission, BKS BTC is a secure access/escape door solution, providing electrical coupling of an external lever via key code (with transponder option) whilst facilitating immediate mechanical escape in a panic/ emergency situation.

Available in 55mm or 65mm backset options in an auto-locking DIN standard lock case, the BKS BTCremote lock case meets the requirements of EN 12209 and EN 14846 and is EN 179 /EN 1125 approved with the BKS range of panic hardware, as well as tested and approved lever furniture from BKS and others.

» www.g-u.com



CODELOCKS OPENS THE DOOR TO NEW SMART LOCK

Following the success of its first smart lock last year, Codelocks has announced a new addition to the range. The CL5520 utilises wireless technology giving users the ability to connect remotely and choose between pushbutton code, smart card or smartphone access.

The CL5520 lock can be operated remotely via a Bluetooth compatible smartphone by downloading the K3 Connect App, update basic settings and generate multiple, date and time sensitive codes. The lock can also be set in code-free mode at fixed times of the day for ease of access.

Entry can be controlled by issuing NetCodes, via email and SMS created with a specific start time and date which will automatically expire after the set duration. Furthermore, audit trails allow building managers to keep track of lock access data.

>> www.codelocks.co.uk



GAME CHANGER

The use of gaming software could soon be used in AI specification

Radisson's RED Hotel was designed using virtual reality software

esign visualisation studio, Soluis Group revolutionised Radisson's latest RED hotel design creating an 'immersive reality portal' that delivered a visual experience allowing clients to 'walk through' the space and experiment live with different elements. Using Unreal Engine's real-time capabilities, Soluis Group was able to build a fully interactive 3D virtual environment, like that used in gaming and virtual reality, where clients could tweak design elements, like lighting or door hardware. Traditionally, it would take several hours to render new frames with small changes like these, making the design process drawn out and cumbersome.

BEHIND TH

Radisson RED, is the hotel group's new upscale lifestyle select brand inspired by the millennial lifestyle and fuelled by art, design, music and fashion. ■

View the video of the reality portal From Unreal to Real here: https://vimeo.com/220461080

Learn more about Unreal Engine and how it can be used for architectural realisation at www.unrealengine.com







When it comes to acoustics, we combine creative flair with state-of-the-art testing and expertise. The result — a comprehensive range of sealing systems that you know will perform exactly as you need them to in a real door assembly.

For clear performance data, our acoustic app and details of our dedicated testing services, visit our website.

lorientuk.com







New ARRONE door closer range from HOPPE

The new cam-action door closer range is designed to meet all of the security, safety and accessibility requirements of a public building.

The system is suitable for use on 30, 60 and 120 minute timber fire doors. Discreet fitting to the door is possible thanks to a surface mounted slide track. The range is fully compliant with BS EN 1634 Part 1 and meets the requirements of Approved Document B.

Call us for more information, or to arrange a visit from one of our sales representatives on 01902 484 400 or send us an email at info.uk@hoppe.com.

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