ARCHITECTURAL IRONMONGERY JOURNAL

AUTUMN 2015

# HEALTHAND SAFETY FIRE DOOR DESIGN

100

FIRE DOOR DESIGN AT ALDER HEY CHILDREN'S HOSPITAL

#### inside

**NEWS** Book now for Education Awards

PROFILE Spotlight on Nico

FEATURE The launch of the GAI Education Hub

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#### HOWELLS PATENT GLAZING IS ON THE HUNT FOR A NEW PREMISES AND STAFF

West Midlands business, Howells Patent Glazing, has enjoyed a second record-breaking year beating last year's £2.5m in trade.

The firm is now looking for new premises, but will remain in the Cradley Heath area. "We are now working at capacity and employing new staff, so we need something which we can grow into again. We are excited to be moving the business forward and being able to create new opportunities for people in the area".

Its move will also enable Howells to create new job opportunities in the area. It has stated that it has already found a new apprentice to be placed in its welding department and is also looking for a new patent glazing fixing team of at least two people.



GEZE UK has been busy supplying products to a variety of buildings. In Scotland it supplied two automatic doors to the National Trust for Scotland's new Battle of Bannockburn Visitor Centre. With 80,000 visitors expected in the first year, architect Reiach & Hall specified doors to create a stylish lobby that met the highest standards of safety and complement the building's bold glass and brick design.

The Visitor Centre, which was shortlisted in the 2014 RIAS Awards, offers an immersive 3D digital experience that transports visitors back in time. It is entered through a wedgeshaped lobby featuring two GEZE ISO automatic sliding doors powered by Slimdrive SL operators. The lobby will contribute to the building's sustainability by ensuring an even temperature is maintained inside.

In London another lobby made use of GEZE doors. GEZE UK was commissioned by Ion Glass on behalf of Caroe and Partners Architects to install a sleek new purposedesigned glass lobby that allows members of



#### LEADING SUPPLIERS SHOWCASE WARES AT LOCKSMITH EXPO

Over 100 exhibitors will be showcasing products at this year's MLA Expo. The trade show for the locksmithing and security industry will be taking place at The International Centre, Telford, from 2-4 October.

Visitor Entry is free to the Exhibition and visitors can also attend over 40 Training Courses and a social event called MLA Expo Party Night. For more information and to register visit www.locksmiths.co.uk/ mla-expo/

the community to safely access a community space in West Hampstead.

The lobby, features bi-parting AP glass doors to create a visual connection between the inside and outside spaces. It was a technically challenging product as it is based in a listed Church.

And in Derby the manufacturer was involved with another listed building for the town's council offices which required more than 200 reliable and efficient manual and automatic door operators that would ensure ease of use, whilst closing effectively to allow electronic locking for security reasons.

Commissioned by architectural ironmonger Eisenware Itd on behalf of the project architect Corstorphine and Wright GEZE supplied large 2.4m-high wooden doors, and for specific wooden and glass doors in the corridors. GEZE's Slimdrive EMD-F electromechanical swing door operators were specified. While it is unusual for automatic operators to be fitted to internal glass doors, the slimline design of the EMD-F operator means that at just 7cm high, it is extremely discreet and sits neatly on the doors' patch rails. Automatic door operators were chosen for the internal doors so swipe cards could be used to restrict access and also to meet the demands of the Equality Act.

#### TIMEFRAME SET FOR CE MARKING OF FIRE RESISTING DOORSETS

There have been a number of key developments on BS EN 16034: 0. This is the standard entitled: "Pedestrian doorsets, industrial, commercial, garage doors and openable windows. Product standard, performance characteristics. Fire resisting and/or smoke control characteristics."

The standard was published in October 2014, but it had not yet become a harmonised standard (hEN). For this to occur it had to be published in the Official Journal of the European Union (OJEU). It was published in July 2015 and doorsets will be able to be CE marked to this Standard from 1 December 2015. There is a co-existence period wherein the Member State's existing standards can run alongside the new standard. This period will end on 30 November 2018.

At the time the standard was published the European Commission had also issued a letter which contained conditions for the continued publication of EN 16034:2014 in OJEU relating to the following standards: EN 14351-1 (Windows and doors), EN 13241-1 (Industrial, commercial and garage doors and gates) and EN 16361 (Power operated pedestrian doors). The letter highlighted a lack of coherence between these three standards and EN 16034 relating to fire resistance. The Commission has stated that if the inconsistencies are not resolved before the beginning of the co-existence period on 1 December 2015 then it could result in either postponement of date of co-existence or be deleted from the list of references in the Official Journal.

Either of these outcomes would have a huge impact on our trade. The GAI will continue to keep members updated.



#### SOUTHERN SPECIFIES ON WINCHESTER COLLEGE

Southern Stronghold has recently specified and supplied the ironmongery for the internal manual and external automatic doors to a new building at Peter Symonds College in Winchester.

The Ashurst Quad Building, designed by HNW architects and built by Amiri Construction, is in its final stages. The internal doors are fitted with Hoppe door furniture using Hoppe EN179 escape locks. The door closers are GEZE and the external doors have GEZE autos with maglocks to operate with the access control system.

#### AIJ PEOPLE

STRAND

MANAGER

WELCOMES NEW

Strand Hardware

Ltd has recently



appointed Shaun Brown as technical sales manager. Brown has many years' experience in the AI industry and was awarded a Fellowship of IAI in 2011 for services to the industry. He is a RegAI and a past chairman of the IAI. Brown will be looking after south UK.

#### ASSA ABLOY APPOINTMENTS FOCUS ON ELECTRONICS

ASSA ABLOY Security Solutions, has strengthened its electromechanical teams with two new appointments.

Simon Wilson joins as national sales manager and Nick Bartlett as business development manager.

Wilson has worked at ASSA ABLOY for 11 years and now focuses on establishing mechatronics as a core product for ASSA ABLOY. Wilson previously held positions with Sony UK and Comet group.

Nick Bartlett, who has over 22 years' experience in the security industry, will be identifying gaps in the UK market for future security and access control electronic products.

#### **NEW SALES ROLE AT ALLEGION**



Osborne joins from Baxi Heating UK Ltd. He will be responsible for developing sales and partnerships with key customers and will work closely with the Inspec Demand Creation team to maximise opportunities for the growing

specification division.

#### DORMA SALUTES LONG SERVING MEMBERS



DORMA has recently awarded a number of its longest serving staff. Receiving Long Service Awards for 2015

were: Charles Sutton, area sales manager for DORMA's Bristol Trade Counter (20 years); Andy Chapman, sales manager for distribution (25 years); Graham Hulland, sales manager for Industry (30 years); and Stuart Marshall, business applications specialist within the DORMA IT department (30 years).

DORMA also recently said goodbye to two of its longest serving employees from the Distribution & Industry Sales team. Dick Watts has retired after over 32 years serving the London and South East area. Tony O'Neil stepped down from his post in June, retiring after 36 years of service in the North East.

#### SECUREFAST APPOINTS NEW GENERAL MANAGER

Securefast IET has appointed Andy Boorman as general manager for the group's access control manufacturing division.

Boorman joins from Smartlock where he was manager.



Left to right: Thomas Wagner CEO with Charles Sutton, Andrew Chapman, Graham Hulland, Stuart Marshall and Craig Gilmour of DORMA.

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UNION, part of ASSA ABLOY Security Solutions has supplied products to student accommodation for the Arts University Bournemouth (AUB).

Madeira Road halls of residence complies with the ANUK National Code for student accommodation, which maintains professional benchmark standards for student developments.

The residences were fitted throughout with UNION's Optimus3 72mm lockcases, providing reliable access to the students' flats and rooms.

The Optimus3 range is tested as suitable for high frequency use aimed to reduce maintenance costs throughout the lifecycle of the building.

Sean Morrin from Dorset AI, said: "Recently students at AUB took part in a burglary awareness week, called 'Who's Locked Up', highlighting just how important security is to the university. So it was vital that we worked with a trusted manufacturer who has extensive experience with the education sector to secure the project."

Fully tested to BS EN 12209 and CE Marked, the Optimus3 range has been assessed by Certifire for use on 30 and 60-minute fire doors. The escape lock, supplied with a split spindle is tested to EN179, making it suitable for use on emergency escape route doors when used with the 1000 series return to door lever furniture.



#### LEADERFLUSH SHAPLAND LAIDLAW LAUNCHES NEW WEBSITE

The new site boasts extensive product information and includes a dedicated technical section with access to the latest information and the option to download the company's latest literature. There is also an upgraded case study and project gallery section with greater focus on market sector product information. Visit leaderflushshapland.co.uk to view the new website.

#### NEW PREMISES MARKS GROWTH FOR CODELOCKS

Codelocks, designer and manufacturer of keyless digital door and cabinet locks, will be moving to new UK headquarters; a purposebuilt facility on Newbury's Greenham Business Park. The new facility was secured through Greenham Common Trust's design and build project – giving tenants the opportunity to move onto the park in a building that suits their specific occupational demands.

The company, which has subsidiary offices in North America and Australia, is expanding its UK operations to meet the increasing demand for its range of easy-to-use access control products - sold directly through the company's website, by specialist trade retailers and via a network of distributors. As well as offering a better working environment for its existing employees, the new 5500 sq. ft. building will also enable the company to offer customers better facilities for support and training.

Managing Director, Grant Macdonald, said: "We needed to find bigger premises in the local area in order to better serve our growing customer base both here in the UK and abroad. On top of that are our plans to launch new product lines next year, so the need for more office and warehouse space was essential. The move will allow us to significantly ramp up our operations. Thanks to the increase in warehouse space, we'll be able to carry much more stock, the bespoke training area will allow us to offer more hands-on training courses, and we'll be able to provide more technical support services to customers."

The firm is also looking to expand its marketing and product solutions teams. ABUS | UK www.abus.com



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#### ARCHITECTS CAN HAVE CPD FOR BREAKFAST LUNCH AND TEA

Chartered RIBA architects can now learn at any time of day thanks to the launch of a new series of breakfast and tea-time CPD seminars from GEZE UK.

The company, which offers four RIBAapproved CPD Seminars, has traditionally offered lunch-time training, but has now increased the sessions available to give chartered architects the flexibility to fit compulsory learning around their working day.

The presentations offered by GEZE UK, which are designed to offer invaluable advice and guidance, include EN 16005 -Safeguarding Pedestrians from Accidents at Power Operated Doorsets; Glass Door Assemblies - Selection and Specification; Designing Effective Natural Heat and Smoke Ventilation and Removing Barriers to Access.

Each of GEZE's CPD seminars is designed to be delivered at an architect's practice and at less than an hour including time for a question and answer session.

GEZE UK's in-house expert training contributes towards the 35 hours annual study that must be undertaken by Chartered RIBA members and is open to RIBA members throughout the UK.

CPD Presentations can be arranged for between 7am and 10am, at lunch time or between 4pm and 7pm. To find out more or to book a CPD seminar, email cpdspamfilter@ gezespamfilter.com or visit www.geze.co.uk/geze/cpd.



# ABLOY RECEIVES HEALTHCARE ACCOLADES

Security expert Abloy UK has recently received a number of accolades for its work in the healthcare sector, with positive feedback from the Care Quality Commission (CQC) on its PROTEC2 CLIQ solution.

In addition, Abloy PROTEC2 CLIQ, in partnership with Northern Lincolnshire and Goole Foundation Trust, has been shortlisted for the Heath Service Journal (HSJ) Value in Healthcare Awards 2015, in the Value and Improvement in Information Technology category.

The positive findings from the CQC were featured in a quality report of Birmingham NHS Foundation Trust's Queen Elizabeth Medical Centre in Birmingham, in which the centre gained an overall rating of 'Good', with services at the trust being led to an 'Outstanding' level.

The 'Innovation, Improvement and Sustainability' section of the report states there was a strong innovation of culture at the centre - an example of this being the drug key system on trial on the assessment units, which is PROTEC2 CLIQ system.

It had been identified that significant nursing time was spent getting access to the drug cupboard key, leading to poor key control and ineffective use of nurse time.

With the implementation of the PROTEC2 CLIQ system, each member of staff on duty had an electronic key that was linked to them, and provided audit trails and restricted access to certain staff when skills and competencies had not been achieved.

This resulted in less time being spent looking for keys, meaning greater nursing efficiency, and also improved key control with access rights to certain areas being regulated more effectively.

Northern Lincolnshire and Goole Hospitals NHS Foundation Trust also recently upgraded the security of the drug cabinets at Scunthorpe General Hospital to PROTEC2 CLIQ, resulting in significant cost and timesavings, and a HSJ Awards shortlisting.

#### ASSA ABLOY EXPANDS IN THE MIDDLE EAST

ASSA ABLOY has acquired Prometal Group, a leading manufacturer of steel and wooden security doors in the Middle East, based in Dubai.

The acquisition is part of the company's strategy to grow market presence in the Middle East and other emerging markets.

"The acquisition of Prometal provides us with a strong security door range that reinforces our Total Door Opening Solution for the Middle East", says Tzachi Wiesenfeld, Executive Vice President of ASSA ABLOY and Head of the EMEA division.

Established in 2000, Prometal has 420 employees at its Head Office and factory.

Sales for 2015 are expected to reach AED 100 M (approx. SEK 225 M) with a good EBIT margin.The acquisition will be accretive to EPS from start.



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## BOOK NOW FOR EDUCATION AWARDS TO CELEBRATE SUCCESS



Each year the GAI celebrates the hard work that Diploma students have put in over the past year and rewards their successes.

This year's GAI Education Awards Lunch will be held on Thursday 12 November, at the Royal Lancaster Hotel, Hyde Park, London.The event is widely viewed as the premier networking business event in the ironmongery trade.

The event is sponsored by Lorient. Lorient places great importance on education and

training and has put many students through the GAI education programme from across the business for over 10 years.

The guest speaker is yet to be announced but they will address what is expected to be a sell-out audience.

During the event, the awards and certificates will be made to this year's student top achievers including the GAI's Pinnacle Award, sponsored by ASSA ABLOY, for the leading student over all three years of the education programme.

Details of the event can be found on the GAI website: www.gai.org.uk or contact Lucy Apsey, GAI marketing manager, lucy.apsey@gai.org.uk tel: 020 0733 2482.

#### GAI MANAGER TO SIT ON DOOR HARDWARE STANDARDS GROUP

The UK ironmongery industry is set to have a stronger voice in setting door hardware standards with the news that GAI technical manager Douglas Masterson has been voted onto the CEN Task Group for lever handles.

The group's membership comprises trade associations, manufacturers and other interested bodies and determines, with input from country specific groups, what standards should be and what testing methods are required to demonstrate meeting the criteria.

The GAI has been represented on UK standardssetting groups for many years but this is the first time a GAI employee has been asked to join a group with a European remit. "I am delighted to represent the people at the sharp end of ironmongery and contribute to the door hardware standards-setting debates on their behalf," said Masterson.

Masterson joined the GAI as technical manager in January 2015. It is the first time the GAI has had a permanent, full-time in-house expert managing its technical helpline, providing technical updates to members and sitting on technical and standards committees.

#### NEW TECHNICAL GUIDANCE PUBLISHED ON HOTEL BEDROOM LOCKS

New specialist advice on legal compliance with the technical standards for hotel bedroom locks has been published this month for architects, specifiers, door manufacturers and architectural ironmongers working on hotel projects.

The technical briefing published by the GAI, has been produced in association with the British Woodworking Federation (BWF), Door Hardware Federation (DHF), and Exova Warringtonfire.

It clarifies the position on the requirements for CE marking of mechanical and

electromechanical locks and their use on fire doors in particular – an area where there has been a lot of market confusion since new European standards came into force in 2013.

Douglas Masterson, technical manager at the GAI, said clarification was long overdue. "This has been an area of confusion and contention for some time, so the industry's leading technical experts have stepped in to clarify the standards. This matters a great deal, as compliance with the Construction Products Regulation is mandatory and failure to meet the requirements of the CPR can lead to fines and even imprisonment for directors. Similarly, false certification claims can also lead to prosecution."

Masterson added: "Any specifier, installer or door hardware supplier working on hotel projects should be aware of these legal requirements."

The technical briefing can be found on the members' area of the GAI website. For more details turn to the Technical feature on page 28.





#### FIRE DOOR INSPECTION SCHEME RECRUITS FIRE SAFETY LIFER

Kevin Hulin, a fire safety specialist, has been appointed as the new manager of the UK's Fire Door Inspection Scheme (FDIS). He replaces Neil Ashdown who is still involved with the scheme in an ambassadorial role.

Kevin takes the helm at a pivotal time. The demand for FDIS certificated inspectors to help property managers meet their legal obligations under the Fire Safety Order is at its highest rate ever, having doubled over the past year.

In addition, for the first time, fire door inspection expertise is being offered online so that anyone can locate their local specialist through the FDIS website at www.fdis.co.uk/inspector Kevin Hulin says: "The correct specification, maintenance and management of fire doors can be the difference between life and death for building occupants. Unfortunately they remain a significant area of neglect, too often mismanaged throughout their service life, propped open, damaged and badly maintained. Fire door breaches are still

one of the most common fines implemented under the Fire Safety Order, 10 years since this law was introduced.

"I am very excited to be taking over the reins from Neil Ashdown. He has done a fantastic job and I am looking forward to building on what he has achieved."

Hulin will also remain chairman of the Glass and Glazing Federation (GGF) Fire Resisting Glazing Group, a member of the BWF-CERTIFIRE Management Committee and an active participant in the Institute of Architectural Ironmongers London group.

FDIS was established by leading fire door authorities BWF-CERTIFIRE and the GAI to provide a comprehensive source of information and learning about fire doors and how to manage them, backed by an online education programme and test that leads to a recognised Diploma. Diploma holders can also go on to become Certificated

Fire Door Inspectors. www.fdis.co.uk

#### OVERSEAS DIPLOMA SUCCESS

Following the GAI Diploma programme examinations in June this year a number of students who sat their examinations in Dubai or Hong Kong have passed the Certificate in Architectural Hardware or succeeded in achieving, in full, the GAI Diploma. Special presentation events are being arranged at which the successful students will be awarded their Diplomas or Certificates by Maria Powell, GAI president, and Gary Amer, GAI chief executive.

> 79% 50%

#### **DIPLOMA STUDENTS SET TO CELEBRATE**

GAI Diploma students are getting ready to celebrate their success at the GAI Education Awards in November having received their exam results in the summer and with exceptional pass rates.

#### Pass rates for this year were:

Level 1	91%	Level 2	
Level 3 Business Studies	54%	Level 3 Scheduling	

The Pass List is available to view on the GAI website. The GAI will be holding its Education Awards Lunch on Thursday 12 November 2015 at the Royal Lancaster Hotel, Hyde Park.

For more information about the event visit www.gai.org.uk/ events-117/education-awards or to enquire about making a booking contact GAI marketing manager lucy.apsey@gai.org.uk



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# TRITECH

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#### GARY AMER • GAI TALK

By the time you're reading this, the president of the GAI, the chairman of the IAI and I will be in Hong Kong to present to a large group of GAI and IAI members.



We will be updating them on developments within the GAI and Institute, and awarding the latest successful students their Certificates in Architectural Hardware and GAI Diplomas. Later this year we will also do the same in Dubai.

This is always a thoroughly uplifting and inspiring duty. The GAI's qualifications, education and CPD programmes are very highly respected by overseas architectural ironmongers and their clients. The pride and enthusiasm of our overseas students is very evident, and the prestige of their achievements is palpable.

GAI membership continues to grow in Asia and the GCC. In addition, membership of the Institute is open to individuals who are qualified Diploma holders, students and experienced practitioners, and they can take this support from job to job. The IAI Hong Kong branch was the first outside the British Isles and it truly flies the flag for professionalism and international excellence.

We must therefore also send our congratulations to John Tibbs of Laidlaw Asia who has taken over as chairman of the Institute's Hong Kong branch, following on from James Wong of KEYTECH. James was the first chairman of the branch which was launched almost three years ago and he has been a fantastic ambassador for the GAI and IAI in the region.

John will be capitalising on the growing vibrancy and respect for the architectural ironmongery profession in Asia, and will be promoting the excellent extended education opportunities afforded by the new Education Hub.

An important and well deserved word of thanks also to Adam Taylor from Hafele GmbH & Co. Adam has led the Institute branch in the GCC since its introduction in November 2013. His application and commitment to the GAI's and Institute's interests in that region has been indispensable.

These branches uphold the highest standards within our industry and believe in passing on continuous quality training and support to the next generation of architectural ironmongers.

Gary Amer Chief executive of the GAI

#### IAI WORKSHOP TO PROMOTE REGAI STATUS

The Institute of Architectural Ironmongers (IAI) is holding a facilitated workshop later this month to develop a clear vision of what the IAI and its Registered Architectural Ironmonger (RegAI) qualification stands for – particularly with architects and specifiers they work with.

Approximately 150 GAI Diploma holders are presently working towards RegAI status and proving their commitment, expertise and professionalism through a programme of CPD. Every RegAI has to achieve at least 10 CPD points each year and prove they are fully current with industry standards, regulations and legislation.

Mario Del-Signore, managing director of CES Security Solutions and chairman of the IAI says he wants more young people to join the industry and to get involved with the IAI's varied programme of events. "I want more people to pursue their learning through the Institute's CPD programme and to use this to help them attain RegAI status – the pinnacle of our industry.

"But this will only happen if the IAI and the RegAI designation resonates in the market. We know from our awards schemes and from testimonials from clients and architects who work with RegAIs that they reap the benefits of this higher level of expertise and up-to-date knowledge."

The workshop will look at how to bring this to life in a way and grows the benefits of IAI membership.



Keith Maer, GAI education manager is retiring from his position at the end of September 2015.

Maer started his career in ironmongery over 40 years ago and he has worked for both architectural ironmongers and manufacturers including Les Preece and Partners, KS Neal, Laidlaw, ASSA ABLOY and Kaba.

His involvement with the GAI goes back nearly as many years when he became an active member of the GAI Education Committee. He became the Committee's chairman in 2002, a position he held until 2010 when he was appointed GAI education manager. Maer has played a major role in developing the education services and he project managed the introduction of the new Education Hub.

Maer also managed the introduction of the Foundation in Hardware module and the diploma element of the Fire Door Inspection Scheme. He received the prestigious GAI Medal for Outstanding Contribution in 2014.



#### GAI AND IAI TO STRENGTHEN PRESENCE IN HONG KONG

The GAI and the IAI's presence in Hong Kong and the GCC have continued to attract a lot of interest thanks to the continued efforts of the IAI Branch chairmen, James Wong from KEYTECH and Adam Taylor from Hafele, and their committees of IAI members.

Wong has now handed over the chairmanship of the Hong Kong branch to John Tibbs of Laidlaw Asia.

This autumn a special event has been arranged in each of the regions to build upon the already healthy relationships that have been developed over recent years. Maria Powell, GAI president and Mario Del-Signore, Institute chairman are paying the areas a visit along with Gary Amer, GAI chief executive. They will be presenting at the special events on the developments within the GAI and the Institute and also the new GAI Education Hub.

Gary Amer says: "It's not always easy to maintain a close relationship and keep these regions up to date with developments when there are so many miles between us. There have been a lot of developments within the GAI in recent years. We have explained these to members at AGMs, conferences and lunches here in the UK and this is a valuable and important opportunity to bring our overseas membership in these regions up to speed."

# VOX POP

**Design:** With architecture's biggest award – The Stirling Prize – about to be announced we ask just how interested are Als in architectural and design trends?

#### David Robinson MARKETING MANAGER, EM-B SOLUTIONS



At Em-B we have developed very close working relationships with architects across the

country. So, as a business, we are attuned to what architects are thinking in terms of design trends. Architects always take a keen interest in the aesthetics of the door hardware – especially the handles as they are the first part of a building any visitor touches and interacts with and sets the tone for the whole piece.

The 'feel' of a project is always an important part of the architect's brief to us and our trained Als work hard to interpret that for them and present them with a number of design options from our broad range. However we do not make the mistake that many Als do in thinking that we are design experts. Our primary expertise is in the specification of hardware, with a remit to ensure that whatever designs the architects have in mind comply with all the relevant standards. Additionally we provide a first class service throughout the supply chain.

In terms of design concepts for hardware we see two main trends. One is the continuation of the minimalist style. Lots of stainless steel and sleek, clean lines. That means concealed hinges and very plainly designed handles are required. The other trend we see is a 'luxe' feel with architects looking for materials and designs that will give their scheme a modern but luxury feel.

As well as our day-to-day interaction with architects we have many ways that we keep abreast of architectural trends – social media, trade shows, the architectural and design press and, vitally, from being out and about on some of the most important architectural projects.

#### Nick Doyle PROJECT DIRECTOR, IZÉ



We keep a very close eye on architectural design developments. The way we work alongside

architects and designers, we are effectively a bolt-on resource. We like to think our handles and ironmongery reflect the fabric of the building and design intent from conception and design development right through to delivery and dayto-day use by end users. We see developments within the architectural and interiors community key to maintaining an edge to our product giving the client something really beautiful not only to look at but also to use for years to come.

We very much see ourselves as part of the same industry as architects. One of our key strengths lies in making product that is design and architecturally led. We consider ourselves both designers AND manufacturers.

If you would like to contribute to a Vox Pop topic please email nicky@atompublishing.co.uk

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# **Money matters**

**Rebecca Larkin** explores the summer budget and autumn spending review and says public sector construction is safe for now

A

ccording to the CPA's latest forecasts, construction output

is expected to increase 4.9% in 2015 and 4.2% in 2016. A key driver of this growth will be private house building. The £21.5bn sector has led the construction recovery since 2013, when private housing starts rose 20.1%. Starts rose a further 14.2% in 2014, with a 9.0% increase expected this year. Positive sentiment in house building continues to be underpinned by government initiatives to help increase home ownership. Whilst the direct impact of these policies, such as the extension of the Help to Buy equity loan until 2020 and the Help to Buy ISA in Autumn. is muted, it is the message it sends that is more powerful: government is willing to support house building.

This contrasts sharply with the outlook for public sector house building. Housing associations secure their borrowing against the income generated by social rents. However, in the Summer Budget, the Chancellor announced a cut to housing benefit and a 1% cut in social rents for four years from 2016/17. These measures came on top of the earlier announcement that Right to Buy will be extended to housing association tenants, further reducing the asset base and rental revenue and, so, the capacity to borrow to fund future construction. Reflecting the poor outlook, we forecast two years of falling starts in public housing.

In addition to the cuts made to welfare spending, the Chancellor has also announced his intention to make a further £20bn in budget savings in the Spending Review in November, with the aim of eliminating the fiscal deficit by 2019/20. Inevitably, this means a decrease in funding across departments, but the axe is likely to fall on day-to-day spending rather than capital investment, which is typically building work.

Funding for the NHS remains ring-fenced, and a pipeline of work exists in the health sector. in the form of small projects under Procure 21+ and several large new hospital developments including the £430m Midland Metropolitan. In education, both phases of the Priority School Building Programme will see rebuilding and fit-out work on a combined total of 537 schools in England, backed-up by smallerscale programmes in Scotland and Wales. Universities will also be a major driver of construction growth in the education sector as institutions increase investment in facilities to attract students and promote value-for-

Rebecca Larkin is economist at the Construction Products Association. www.constructionproducts.org.uk

We want to know your views. If you have an opinion on an industry issue you wish to share in this Comment section please email the editor Nicky Roger at nicky@atompublishing.co.uk

money against a backdrop of higher tuition fees.

The main risk to publiclyfinanced construction outside of housing is that if it is found to be too difficult to cut resource spending, the government will have to decide whether it can delay its deficit reduction target or cut capital investment and, consequently, public sector construction instead.

#### ZEROPLUS IS EXHIBITING AT THE BUILD SHOW



Specialist door hardware supplier Zero Seal Systems Ltd is excited to announce that we will be exhibiting at The Build Show this October. The Build Show will be the UK's most significant event in construction for decades, and takes place on the 6th to the 8th of October, during UK Construction Week at the NEC in Birmingham which brings together nine exhibitions.

Our stand will be located at B3\110, please register for The Build Show and come along to see us.

Zero Seal Systems Ltd Units 43 - 45 Ladford Covert, Seighford, Stafford, ST18 9QG, United Kingdom Tei : +44 (0)786 282910 E-mail : sales@zeroplus.co.uk WWW.ZEROPLUS.CO.UK



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# **ROARING SUCCESS**

To mark the end of another successful Fire Door Safety Week we look at some of the latest high profile projects making use of innovative fire door safety solutions



he completion this summer of the £288m Alder Hey Children's Hospital marks the end of three years work by Laing O'Rourke on a striking and innovative build in Liverpool.

As a specialist hospital, Alder Hey provides 275,000 episodes of care to children and young people every year. It is one of Europe's biggest and busiest children's hospitals with a national and international reputation as a Centre of Excellence for children with cancer, heart, spinal and brain disease. However, this outstanding care was being provided in buildings which were almost 100 years old and not fit for providing modern day services.

The new building, designed by architects BDP, rises out of the park on approach with an undulating profile, making it instantly recognisable and a striking and iconic gateway to Liverpool.

Central to the idea was ensuring that the majority of rooms (whether for children or staff) enjoy park views and that gardens and terraces are equally accessible to all.

Three open fingers radiate out from the atrium concourse - the distinctive entrance space that forms the hospital's public hub. These fingers of clinical space alternate with gardens, intertwining building and landscape. The new building design was inspired by ideas from the children and young people themselves. BDP Architects understood the client wanted the children's hospital to incorporate a design aesthetic that was reflective of an inviting, warm, calming and educational environment. The spacious wards have been created so patients can enjoy privacy and dignity with plenty of space and now 75% of the beds are in single, en-suite rooms, helping to improve the overall patient experience.

The specification requirements included the supply and installation of 2.500 doorsets and integrated ironmongery from Leaderflush Shapland Laidlaw. A variety of performance doorsets were used by Laing O'Rourke including Hygieniform PVC in daisy (yellow), musk (white) and shadow (grey). Hygieniform PVC incorporates an antibacterial additive throughout the thickness of the material creating protection against the spread of infection ideally suited to a hospital environment where combating infections and cleanliness is vitally important. There were also a number of laminate doorsets supplied to the project in a large variety of vibrant colours including chrome yellow, vibrant green, Caribbean blue and spectrum green to blend with the colourful surroundings.

In high fire risk areas doorsets with up to 60 minutes fire resistance were specified, while acoustic performance of up to 32RwdB ensures patients in single bedrooms can rest in quiet surroundings.

X-Ray doors were supplied to radiography suites; these doorsets incorporate a lead sheeting, forming an effective barrier to >>>>

MAIN PICTURE: The hospital was designed so everyone enjoyed park views and could access the gardens

BELOW: A variety of performance doorsets were installed; the interior of the hospital; vibrant colours were used on doors to complement aesthetics of the interior







#### COVER STORY

>>> radiation in all directions. Visicom vision panels were also supplied to various departments and wards where privacy was necessary; when incorporated into a door the Visicom easy-to-operate vision panels turn an open-to-view area into a private environment (and vice versa).

As well as doorsets Leadersflush Shapland Laidlaw supplied integrated performancecritical ironmongery to the hospital. This included door closers, mortice locks, lever handles, digital locks and ancillaries. The nylon ironmongery was supplied in Manhattan Grey for x-ray areas to offer strength and durability against the strains and stresses of everyday use for high capacity working environments.

Anti-finger trap guards were also supplied as part of the doorset package: the door hinge safety system is designed to prevent the entrapment of fingers in the hinge gap of a door. This is ideally suitable in a children's health environment to protect against the potential for shearing and crushing of small, inquisitive fingers.

"Over the past year Leaderflush Shapland Laidlaw consistently performed on the successful supply of integrated performance doorsets to the contemporary Alder Hey hospital development. The successful delivery was a direct result of early engagement with the team, encouraging collaboration, idea sharing and innovation on the project. The combined effort meant that positive relationships were established throughout the life-cycle of the project and exceptional levels of service were achieved," explains Adam Beecroft, project manager at Leaderflush Shapland Laidlaw.

The successful delivery of Alder Hey Hospital was a direct result of early engagement with Laing O'Rourke, encouraging collaboration, idea sharing and innovation on the project.





#### A GOOD EDUCATION



Manchester Metropolitan University's Business School and Student Hub (MMUBS), has achieved international recognition for its innovative architectural design and superior sustainability credentials, but it's

also been commended for its technical and building control solutions. Shortlisted in the World Architecture Festival 2012 and honoured with the Sustainability Award at The Concrete Society's Awards for Excellence in Concrete 2012, the development was also named winner of the Large Project Category at The Institution of Structural Engineers' North West Structural Awards 2012 and crowned best education development at the Local Authority Building Control Building Excellence Awards 2012.

The stunning, jewel-shaped building, which has glazed facades that refract different colours depending on the sun and daylight, was designed by award winning sustainable architectural firm Feilden Clegg Bradley Studios and built by Sir Robert McAlpine. Constructed to the highest standards of energy efficiency and sustainable development currently achievable, MMUBS has achieved a BREEAM rating of 24/25.

The building covers 23,400m sq and serves up to 5,000 students and 250 staff each week.

With such high footfall, safety and accessibility were of paramount importance. Almost 600 manual overhead closers from GEZE UK were used inside. GEZE supplied a combination of TS 3000 V-ISM closers for the development's extra-large steel fire doors; TS 3000 V BC closers for high-use circulation doors; and TS 2000 NV closers for offices and toilets throughout the £75m development.

Ensuring visual consistency and an aesthetically pleasing continuity throughout the landmark building, all the closers were supplied in the same, cost effective, hard wearing, satin stainless steel finish and had matching guide rails or arm sets.

At 2.8m high, each pair of large steel fire doors provides a visually impressive and accessible entrance to communal areas, lecture theatres and auditoriums, but they also needed to help provide both acoustic and fire protection. In order to achieve this, the doors were fitted with an offset astragal,

Ensuring visual consistency ...closers were supplied in the same satin stainless steel finish



#### LONDON LUXURY

Geofire's Salamander range of radiocontrolled fire door holders have been installed at one of London's most high-end apartment complexes.

The Whitehouse Apartments SE1 is a prestigious development located on the culturally rich South Bank overlooking the River Thames, offering spectacular views of some of central London's greatest landmarks. Originally constructed by oil company Shell as part of its UK headquarters in 1961, the 1990s saw Shell dispose of the 'Downstream Building' and then

#### One controller unit can manage up to 99 fire door closers or fire door holders

The Whitehouse Apartments were born. The Apartments needed to legally hold open fire doors and improve ventilation in the building's corridors, while protecting occupants in case of a fire emergency.

Each Salamander device connects wirelessly to a mains-powered controller unit, which is easily connected to the existing fire alarm system, complying with Category A of BS7273-4 to ensure that fire doors will safely close in the event of a fault or fire. One controller unit can manage up to 99 fire door closers or fire door holders.



#### PHYSICAL SOLUTIONS

The James Clerk Maxwell Building (JCMB) houses Edinburgh University's School of Physics and Astronomy.

providing a highly effective seal, combined

with a manual TS 3000 VBC-ISM closer,

which controls the closing action for each pair of doors, ensuring they close one after

the other, in the correct order so the seal

In busy corridors, the TS 3000 V BC closer provided a neat guide rail solution

with back check that can be used on both

Easy to adjust, service and maintain, the

on fire and smoke doors and feature

accordance with EN 1154.

solution for timber doors.

manual closers are approved for mounting

thermo-controlled closing force size 1-4 in

And enabling access to the Business

School's numerous offices, meeting rooms

and toilets, GEZE's TS 2000 NV low opening

force closers were chosen as a cost effective

left-hand and right-hand single swing doors.

works effectively.

The University's estate team contacted ASSA ABLOY UK, as they were having issues with closed doors being damaged by trolleys and fire doors being wedged open, making the building vulnerable to the spread of fire.

ASSA ABLOY's DC700 with G460 door closers were specified, which have an electro-mechanical hold open guide rail, allowing doors to be held open, but released when fire alarms activate. This enabled

**AYSGEOG** 

the doors to keep FD60 integrity, and reduce the risk of fire spreading.

Additionally ASSA ABLOY DC500A door closers with G460 slide rails were specified on the non fire doors as the Cam-Motion® meets the rigorous requirements of the Equality Act 2010.

"We have been able to utilise our experience within the education sector to provide door closers on all double doors in corridors across the four storey building, in order to help maintain access, egress, security and retain fire door approval," explains Barry Harris, northern regional sales manager at Security Solutions, a division of ASSA ABLOY.

#### We have been able to utilise our experience within the education sector to provide door closers on all double doors

Cameron Duncanson from estates operations at the University of Edinburgh, said the safety of students was of the utmost importance. "It was crucial that we worked with a trusted manufacturer in order to ensure that students can gain access to lectures and seminars, while having an adequate means of escape in the event of an emergency." In the event of a fire the electric hydraulic hold open device ensures safe automatic closing of the door

#### **HIGH-END HOSPICE**

Billed as the 'best in the UK', Marie Curie's new multi-million pound hospice in Solihull boasts state-of-the-art facilities, fixtures and fittings designed to provide comforting and enriching end-of-life care for patients.

From whirlpool to widescreens, Jane Darbyshire and David Kendall Architects insisted upon high quality, long-term, valuefor-money specifications, in order to provide patients and their carers with the highest possible standard of living and the most aesthetically pleasing environment. This attention to detail extended to the striking all-glass automatic doors and screen in the open-plan reception, where the architects specified GEZE's premium Slimdrive SL GGS automatic sliding door system.

Individually made by GEZE UK for contractors Wilmott Dixon Construction to bespoke specifications, the elegant, frameless entrance comprised a pair of large glass doors and matching screen, which were created for general access for all through reception, as well as an identical single door for staff access to the reception area. All featured a sandblast design incorporating a protective poly-coat.

In bedrooms and sluice rooms, Laidlaw Solutions North East specified and fitted 38 TS 4000 EFS manual door closers finished in satin stainless steel, enabling each door to be opened easily yet provide safe closing in the event of a fire. These overhead closers are fitted with a free swing function which enables people to go through the door with minimal effort to open or close it, yet in the event of a fire, the electro hydraulic hold open device ensures safe automatic closing of the door. Approved for use on fire and smoke protection doors, the closers offer an adjustable hold open from 80° to 180°, fully controlled closing from 180° and have a low power consumption of 24VDC -45mA.





#### SCHOOL'S OUT

Commercial interior specialist Celltarga Ltd. provided an innovative, cost-effective and functional refurbishment of a junior school situated in Kent as part of the schools fire escape strategy. The firm was tasked with providing the necessary building elements for fire containment and protecting means of escape.

Celltarga personnel liaised with the Forza project team in the design of the FD30/0 glazed screens for installation to the school's library and cloakrooms. A series of factory shop drawings were produced by Forza detailing the hardwood timber frames, intumescent glazing components and integrated FD30 timber doorsets.

All timber frame components for onsite decoration were prepared and supplied as per Forza standard method with a precat primer, unsanded for denibing on site in readiness for application by brush or roller with either standard water based latex/ acrylic or oil based topcoat paint.

The face surface of the supplied door leaves were coated with Forza Readyprime, an advanced Primed Medium Density Overlay paper lining system providing a sanded, uniform, light coloured surface ready to receive the suitable top coats. ■

# **RISING STARS**

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# HINGED ON SUCCESS

From a corner of Essex Nico has grown to become one of the UK's best manufacturing success stories. **Maria Powell** discovers what drives this engineering jewel



ico is a self-styled no-frills manufacturer of hinges and makes no apologies for it. Rather it sees that as its strength and USP.

F

lan Harrison, the company's straighttalking sales and marketing director, describes the firm as a "traditional metal bashing company".

Nico designs, engineers, manufactures, plates and packages product all from its Essex plant. It is fiercely proud of being almost solely UK based. "Ninety-five per cent of manufacturing is in-house – even sub components," says Harrison. "We only import one product range as it just can't be made in the UK for the same price. This does make us labour intensive but it affords us control and flexibility. It has become a





strength particularly as pricing between imported product and UK manufactured product has narrowed," Harrison adds.

Founded in Germany in the 1870s, Nico moved to the UK in the 1930s finally settling in Clacton where it is the largest manufacturing employer in the area. It has specialised in hinge manufacture from the start and window hardware for the past 30 years. Part of the £29m JBS Industries group it is autonomously run by just two directors – Harrison who assumes responsibility for sales and marketing and Gillian Hagger, financial director. A small team of hands-on managers contributes greatly and drives the business forward.

Business has boomed over the past three years with good double-digit growth, but has slowed in the past few months. Harrison is not overly concerned - the business is still showing healthy growth compared to last year - but nonetheless it does face challenges. "We were in touching distance of the cheap imports but competitors are now moving to Taiwan or Vietnam as Chinese costs rise. Our main concern is the July budget and its impact on the new build market as we're allied to that," he says. "We rely on consistent business from a set number of customers - we look to grow sales through existing customers and only take on selective new customers. But the knock-on effect of building being in the doldrums is that our customers face their own issues with order books, processing and credit. It's not a disaster - it's simply that we've become accustomed to faster growth."

Nico's design process is extremely customer driven. It will look to understand its customers' direction and requirements, even from being given a simple hand drawn sketch. The next stage will be to draft a design based on their manufacturing capability and tweaks that can be made to existing models.

That customer responsiveness extends to cost too, however. "When it comes down to it people are price driven," says Harrison. "They begin with a high specification, start to make modifications and then – in the majority of cases – make the final decision based on price. This is fine – it's just a long way from the starting point."

The business has seen a trend for pricedriven items with increased requests for lower specs, such as Grade 7 steel instead of Grade 13 products. But, says Harrison, the company's main focus is still on quality and functionality. "We are excessively proud of the quality of the products we manufacture. Even if they are low cost products we are just as proud of the quality of these as the products which cost more."

So while Harrison cites higher UK costs, cheap imports, building companies in decline and the expense of regulation and testing as challenges, he says Nico's opportunities are still plentiful. It enjoys a buoyant export business accounting for 18 per cent of sales, selling to 40 countries mostly in Europe but extending to South America.

Its new website has a more international focus and its witnessing growth in its LoadPro range of 3D adjustable hinges. It also plans to grow sales with the launch of two new products which include a composite door hinge as well as offering more products with Certifire approval.

Nico also boasts impressive employee retention with some staff remaining with the firm for 20, 30 and even 40 years. As an engineering business many of its staff are older – a reflection of the skills shortage in younger people so it has three apprentices on the books in order to grow its own talent. "Our future is engineering – it's what sets us apart from anyone else. Even though our products don't appear highly engineered you

#### "Ninety-five per cent of manufacturing is in-house – even sub components"

need a unique skill set and we have to build that into apprenticeships," explains Harrison.

The company also participates in local schemes to help the young and unemployed in the area. Despite many unskilled roles within the business, Nico considers itself a good employer and everyone is treated with respect.

Nico's regulatory specialist, Des Mulcahy, is the IAI's vice chairman and it fully supports his involvement in the IAI and understands the value of his RegAI status. Nico has another employee currently at year two of the GAI Diploma. Harrison says it's also a vital way for the company to keep awareness of what's happening in the industry and to ensure that the Nico brand continues to be recognised.



Nico is a UK-based manufacturer with a strong pedigree. Above middle, lan Harrison talks to a member of staff Liz Male talks to the GAI about its new online learning platform

rchitectural ironmongers, manufacturers and door hardware professionals across the world will be the beneficiaries of a new Education Hub being developed by the GAI.

Launching this month at the start of the new academic year, the GAI Education Hub puts online for the first time the huge wealth of educational resources produced by the GAI for those studying for its Certificate in Architectural Hardware, the prestigious GAI Diploma and the Guild's ongoing CPD programme.

The GAI has been providing a unique education, qualification and CPD programme for the architectural ironmongery industry since 1961. Research among GAI members last year identified the education programme as by far the brightest jewel in the crown. It provides the only recognised programme in the world that leads to a qualification in architectural ironmongery to British and European standards. There are more than 2,500 GAI Diploma holders to date.

Maria Powell, president of the GAI says students will now be guided through their learning in a much more accessible and engaging way. "We are entirely transforming the Diploma syllabus, putting learning resources online and making them available to hardware professionals throughout the world.

"Essential content, ease of understanding and global access are vital to the new

Education Hub. This new resource from the GAI is taking learning into the 21st century, offering an enhanced, interactive learning platform to an international audience."

Students on the GAI education programme currently come from 23 different countries, and 44% of those who studied last year were from outside the UK.

The impetus for change to the GAI's education programme and the idea for the Education Hub was prompted by recommendations from a working party of our members and past and present students.

Rachel Tipton, GAI's education manager, explains: "They identified the changes needed to the core curriculum, and decided that the method of delivery should be >>>



It's been terrific to see the launch of the Education Hub because it provides such a modern platform for younger people to learn their profession. Having seen and tested it already, I'm sure it's going to be a great success for everyone involved."



## The Foundation in Hardware

# "

"Completing the course has certainly increased my confidence with architectural hardware products. I now have a better understanding of certain terms and details on each product group covered by the course, which will definitely help me going forward"

Häfele UK, Internal Technical Sales employee

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#### EDUCATION



Now we've got the Education Hub, it's going to make it a lot simpler and more accessible for our students, and the Guild can be a global education provider."

>>> entirely online, be adapted and enhanced to include modern learning processes, and be globally accessible."

The GAI's Certificate in Architectural Hardware consists of two stages with a total of 24 updated education modules covering everything a practising architectural ironmonger is required to know. The modules include helpful explanations, animations and video clips, all geared to engage learners in easily digestible chunks.

These resources will now be entirely online, including all course work and exams, and can be studied in any order with unlimited self-tests. Automation of exam results will ensure that learners know their results within days rather than weeks. Beyond the Certificate, learners can continue their studies to achieve the much sought after GAI Diploma. This third stage will now focus entirely on the skills and learning needed for scheduling, of crucial importance to those AIs working with architects and contractors of projects being built to UK and European standards across the globe.



To find out more about the Education Hub go to http:// www.gai.org.uk/gai/

education-4/the-education-hub or email rachel.tipton@gai.org.uk



#### GAI DIPLOMA PROGRAMME

Certificate in Architectural Hardware (Stage 1 and Stage 2) 12 modules in each stage, covering everything a practising architectural ironmonger is required to know:

#### STAGE 1

- 1.1 Handing of hardware
- 1.2 Hinges
  - 1.3 Metals, metal finishes and plastics
  - 1.4 Timber doors and frames
  - 1.5 Seals
  - 1.6 Steel doors and frames (was Metal doors and frames)
  - 1.7 Door closing devices Part 1
  - 1.8 Locks and latches Part 1
  - 1.9 Fixings and fastenings
  - 1.10 Hardware Part 1
  - 1.11 Door bolts
  - 1.12 Basic scheduling

#### STAGE 2

- 2.1 Fire door hardware
- 2.2 Door closing devices Part 2
- 2.3 Escape door hardware
- 2.4 Locks and latches Part 2
- 2.5 Hardware Part 2
- 2.6 Lettering, nameplates and graphic symbols
- 2.7 Specialist hardware
- 2.8 Electric hardware
- 2.9 Access control systems
- 2.10 Intermediate scheduling
- 2.11 Manufacture and sourcing
- 2.12 Commercial awareness

GAI Diploma (Stage 3) – DipGAI (not yet available online)

Three further modules, focusing entirely on the skills and learning needed for scheduling. For Als working with architects and contractors on projects being built to UK and European standards:

#### STAGE 3

- 3.1 Appreciating architects' drawings
- 3.2 Scheduling
- 3.3 Master keying



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# ROOM SERVICE

he GAI has released a new technical briefing regarding hotel bedroom locks. It clarifies the position on the requirements for CE marking of electromechanical locks covered by harmonised European standard EN 14846 and their use on fire doors. It also gives clarity on the impact of the harmonised mechanical lock standard EN 12209 on locking devices where the lever handle contains the electronic controlling element.

This briefing also relates to door assembly performance evidence and by extension the implication of installing lock cases on fire-resisting doors which are larger than those tested by a certification body such as Certifire.

#### EN 14846 Electromechanically operated locks & striking plates

Some of the confusion relates to the electromechanical locks to European standard EN 14846. This is a published harmonised standard and CE marking for these products has been mandatory since July 2013 under the Construction Products Regulation. Some electromechanical locks have a visible CE mark but this relates to the internal electronic components such as microchips, wiring, etc. This is not the CE marking requirement needed against EN 14846. This standard is a performance standard and gives the characteristics needed for these locks to be CE marked and used on fire doors.

A new GAI technical briefing aims to clear up confusion regarding hotel bedroom locks. **Douglas Masterson** reports

Some electromechanical locks have a visible CE mark but this is not the CE marking requirement needed against EN 14846"

## Go Keyless. Go KitLock. Go Nano.



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>>> EN 12209 Mechanically operated locks, latches and locking plates

This point relates to when the electronic operation of locks on fire doors is contained within or controlled by the lever handle units themselves and not the lock. If the lock used does not contain any electromechanical locking elements then it cannot be CE marked to EN 14846. If the lever handle unit has the electronic controlling element then these products are not covered by any CE markable harmonised standard and therefore have no requirement to be CE marked. If the lock has no internal electromechanical locking elements, it falls within the scope of the mechanical lock standard, EN12209 where Annex ZA gives the requirements to CE mark locks when they are to be used on fire doors.

To clarify, just because the lever handles have the electronic controlling element and cannot be CE marked does not mean that you don't have to CE mark the lock; it is mandatory when they are used on fire doors as EN 12209 is a harmonised standard under the CPR. ■ Just because lever handles have the electronic controlling element and cannot be CE marked does not mean that you don't have to CE mark the lock"



If the electro-mechanical lock is CE marked then you should check the CE marking detail and the manufacturer's Declaration of Performance.

If the lock is mechanical then ensure that it is CE marked to EN 12209.

Remember compliance with the Construction Products Regulation is mandatory. Failure to meet the requirements of the CPR can lead to fines and even imprisonment for directors.

#### DOOR ASSEMBLY PERFORMANCE EVIDENCE

It should also be noted that any door assembly requires evidence of performance, whether or not any of the components are certified. This can be through a certification scheme or an assessment performed by UKAS-accredited fire test laboratories. If you do rely on the certification scheme or an assessment as evidence, then any restrictions on its applicability have to be observed, which would include lock case size as well as other factors.

This means, for example that the size of the lock case should be taken into consideration where it is being fitted to doors approved by a certification body such as Certifire. Certificates for doors give limitation for the size of lock cases tested therefore these limitations should be checked.

There are certain types of hotel bedroom locks available in the market place which have larger lock case bodies than a standard lock. A lock case with a larger body should not be fitted on a fire door where there is a limitation on size by the certification body. If a larger lock case is fitted to a fire-resisting door without satisfactory evidence of performance which does not satisfy building regulations and/or fire safety regulations then you could also be breaking the law.

#### **RECOMMENDATIONS ON PERFORMANCE EVIDENCE**

Always check restrictions on the applicability of the relevant certification scheme or assessment, such as the size limitation of the lock to ensure it is within the scope.

Ensure that all certification claims are valid.

If you falsely claim that you have certification from a certification body such as Certifire for the door assembly when this is not in fact the case, you could also be prosecuted.



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### NEW PRODUCTS



#### SLIDING WALL INNOVATION FROM GEZE UK

GEZE has enhanced its Manual Sliding Wall (MSW) system eradicating the need for a swing door end panel so all the leaves can be hidden from sight when not in use.

The SmartGuide technology, allows the leaves to be stored away, making it ideal for creating large open entrances or for spaces that need temporarily dividing.

MSW offers a solution that's both aesthetic and functional and is designed for use in high traffic, public locations such as retail environments, airports, offices, conference rooms, hotels and restaurants. It is modular in design, giving architects the flexibility to tailor the design to the environment. Walls are lockable when closed, giving utmost security and can be fully or partially opened as required ensuring ease of access for all.

The SmartGuide carriage features enhanced rollers and guiding, which allows individual sections to be moved.

A choice of three profile designs is available. Classicline profiles fit directly on to the glass at a slight angle and have a profile height of only 107mm; Pureline profiles can easily be combined with existing systems and have a modern, angled design; while Protectline provides increased protection against glass damage.

The covers are available in a variety of finishes and colour schemes to reflect the interior design.

>> For more information about GEZE UK's comprehensive range of automatic and manual door closers call 01543 443000 or visit www.geze.co.uk.

#### ALLEGION UNLOCKS DOOR TO LOCKCASE SPECIFICATION

provider, Allegion, has introduced its complete range of Briton mechanical locking solutions, which meet Grade 3 of EN 12209 regulation – the Briton 5600 Series.

Building on the success of Briton 5400 and 5500,

the range has been bolstered with two additional Briton locks that are suitable for both internal and external doors in public buildings, in both new build and retrofit commercial applications. Briton 5600 Series features specialised functions, such as

#### the Briton 5650 Nightlatch with anti-thrust for protection against vandalism. Briton 5660 is an escape lock ideal for commercial buildings. With a split follower function, the lock enables both the deadbolt and latch bolt to be withdrawn simultaneously inside the lever handle for swift and easy exits.

The launch coincides with the recent introduction of Allegion's specification guide, inspec.

>> For more information on the new Briton lockcases, visit www.allegion.co.uk/Pages/ home\_new.aspx.

#### CODELOCKS INTRODUCES COMPACT DIGITAL KEYPAD LOCK FOR OFFICE FURNITURE

Codelocks has unveiled the latest edition to its KitLock range of electronic locks – the NANO90. The new lock is based on the company's best selling cabinet lock, but with a much smaller footprint of just 30mm by 90mm.

It has been designed to replace locks, keys and basic mechanical locks supplied with many items of office furniture, such as desk drawers and filing cabinets but is also ideal for smaller lockers, mail boxes, courier drop boxes and medical cabinets.

The product can be either flush or surface mounted to the surface of a desk or cabinet drawer makes it much harder for someone to break the lock off completely, providing the office worker with somewhere safe to secure belongings.



The NANO90 provides an almost 'fit and forget' solution – performing up to 100,000 operations

from just one coin-cell battery. The product is available to order in silver grey as standard, and is also available in black and white. It is priced at  $\pounds$ 32.

NANO90 recently debuted at the international office furniture expo in Germany, interzum and was presented with a 'High Product Quality' award for excellence in product design.

>> For more information visit the product page at www.codelocks.co.uk or call 01635 239645

#### **ROMAN SHOWER SCREENS SOLUTIONS**



Shower designer and manufacturer, Roman has launched a brand new configuration for its Mini Fixed Bath Screen and a Lumin8 Inward folding bath screen.

Roman has added a curved curtain rail for the 8mm thick glass Mini Fixed Bath Screen that bows out to move the shower curtain away from the showering area to provide more space.

The Mini Fixed Bath Screen is perfect to use when showering over the bath to provide greater water integrity when using a shower curtain. The Mini Fixed Bath Screen solves water leakage issues by providing a 1500mm high fixed screen for shielding the corner, plus a combination system for screens and rails to give a more water resistant solution.

The brand new Lumin8 Inward Folding Bath Screen features one fixed panel and one inward opening panel, which provides easy access into the bath for showering and when cleaning. The discreet nature of this minimalist Screen ensures it avoids contact with all existing bathroom furniture. As the folding panel only opens inwards it can be installed without interfering with existing layout.

It is 1500mm high with 8mm thick glass and features a silver frame. It incorporates 25mm of adjustment in the profile so presents flexibility when being installed. When the folding panel is open the width is 910mm and when it is stowed away the width is 550mm. It features chrome brass pivot blocks on the opening and closing mechanism.

>>> For more information E-mail: brochures@roman-showers.com or visit www.roman-showers.com

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#### HOPPE HARDWARE BOOK OUT NOW



HOPPE (UK) has overhauled its ARRONE Complete Range Catalogue for purchasing door hardware. The Catalogue features one of

the widest ranges of hardware on the market, plus it is packed with invaluable technical, specification and performance data. This will make it simple to select and specify hardware that is not only perfect for the application, but also fully compliant with legislation and regulations. The new catalogue is comprehensive, covering every item in the ARRONE range including handles, closers, panic and emergency hardware, locks and latches, cylinders, hinges, and architectural accessories and signs. The catalogue also offers specifiers an overview of the features, benefits and basic technical information on each product family. This includes conformity and test data, detailed product specifications and installation advice.

>> The new ARRONE catalogue is available free of charge to specifiers on 01902 484 400.

#### NEW ROOF LIGHT FOR TRADE FROM HOWELLS PATENT GLAZING

Howells Patent Glazing (HPG) has launched its latest slim roof light to trade.

The firm's new slim roof light has been designed to meet the thermal efficiency market requirements. Roof lights can be despatched to trade customers in as little as 10 working days. The slim roof light is constructed from slender thermally broken aluminium using the latest thermally-efficient glass types. The streamlined design ensures minimal visual profiles, and triple glazed options are also available.

All roof lights are delivered to the client in an assembled form for even more convenience. The slimline roof light can be powder



coated to standard colours White RAL 9910 Satin Antracite, Grey RAL 7016 Matt Dual Colour (i.e. grey externally/white internally)

HPG works on a supply only or supply and install basis with installation of patent glazing in both roof and vertical applications using single, double glazing or polycarbonate sheet or single, double or triple glazing. The company's dedicated onsite estimating and sales team provides customers with knowledgeable advice on the type of bar required to fit the purpose of the project.

>>> For more information visit: www.howellsglazing.co.uk/howellscommercial-glazing.php

UNION, part of ASSA ABLOY Security Solutions, has launched a new Heavy Duty Tubular Latch for residential properties.

The new HD Tubular latch has been fully tested to meet EN12209 – category of use grade 2 – demonstrating that it is appropriate for medium frequency of use by people with some incentive to exercise care, but where there is some chance of misuse. It is also suitable for use on 30 and 60 minute timber fire doors.

In addition, the UNION Heavy Duty Tubular Latch meets durability grade M, exceeding security



#### ANTI-LIGATURE INTERLEAF HINGES FROM PHOENIX

For secure environments where the risk of self-harm is a major consideration, the Phoenix Interleaf Continuous hinges from Cooke Brothers are now available with reduced ligature end caps as a specified option. Cooke Brothers has reported a growing demand for the hinges, particularly where the doorset design requires an ultra-narrow unobtrusive sightline between the door and frame. The new Phoenix Interleaf hinge reduces the typical gap created by a traditional heavy duty continuous hinge from 12mm down to a mere 3mm.

Ideally suited for 44mm and 54mm timber and metal doorsets, the Interleaf hinge completely fills the void between the door and frame, reducing the risk of finger trapping considerably.

The new CE marked hinges have been successfully tested to BS EN 1935: Grade 14 (160kg) and are CERTIFIRE approved.

>> For further information call 01922 740011 or visit www.cookebrothers.co.uk

#### ABLOY APP AND HANDBOOK MAKE SPECIFICATION EASIER

Security expert Abloy UK has updated its smartphone app and compliant specifications handbook.

The app – available for iOS and Android devices – allows users to find the right door security solution by selecting suitable products for specification or installation. It then utilises GPS to direct users to their nearest Abloy Dealer Centre.

The app can also be used to check price and availability, send a technical question to the customer services team and sign up to courses from the Abloy Academy. Updates include information about new door packages,

requirements for internal residential applications.

The UNION Heavy Duty Tubular Latch comes with 2.5-inch and 3.0-inch variant; both of which have bolt through fixings, allowing more secure fixings for the door furniture. This ensures longevity of door furniture, thus minimising maintenance and replacement costs.

The new product features an anti-rattle adjustable strike, which allows on site fine-tuning during installation. The latch is also supplied with a splinter guard, offering a professional finish and protecting the product from frame debris. enhanced search functionality, web news and videos.

For those who prefer a physical book, the pocket-sized compliant specifications handbook offers a complete guide to specifying door

security solutions.

the app search for 'The Abloy App' App' in the App Store or Google Play. To request a copy of the handbook email marketing@abloy.co.uk

The new Latch has evolved from the market requirements for more durable products that are both CE compliant and cost effective, taking into account whole life costs. The latch has been tested to over a million cycles, proving that it can withstand heavy traffic and reduce long-term costs.

The latch can be used with light unsprung door furniture, and is supplied as a dual finish, satin stainless steel and polished brass finish faceplates and strikes.

>>> For more information visit www.uniononline.co.uk

# BRIDGE TOTHE FUTURE

Bridge A The world's first 3D printed steel bridge, built mid-air over a canal by two automated robots, will be constructed in Amsterdam in 2017. A company called MX3D, which specialises in using robotics to 3D print, and Dutch designer Joris Laaram are behind the project. They've also partnered with Autodesk and the construction company Heijmans to make the arch a reality.

One thing that makes MX3D's technology special is that it's able to print with metals and resin in mid-air. Typically, 3D printing in metal is done inside machines that lay down powdered metal and zap it with lasers, one layer at a time. The two industrial robots will effectively 'draw' the Amsterdam bridge in situ, working as they guide themselves from one bank of the canal to the other. MX3D has developed an additive manufacturing method able to print metal and resins in mid-air without the need for temporary scaffold or support structures.

If effective, the technique could have an enormous impact on construction projects, eliminating the need for controlled factory environments and moving manufacture direct to building sites. Apart from potentially speeding project delivery and reducing materials transport costs, building using robots could reduce reliance on human workers for some of the most dangerous jobs, such as those that involve working at height.

Progress of the project can be followed at a public visitor centre opening this September.



# Push bar to open

#### Don't Panic! Trust HOPPE.

There are few items in a building more important than the hardware on panic and escape doors. Getting it right can literally a matter of life or death.

That's why our range of ARRONE Panic and Escape Hardware has been exhaustively tested and totally certified to all UK and European regulations and standards. So you can be sure that the products you sell won't let your reputation down with their total reliability, proven quality and optimum performance.

You can source everything you need from one trusted supplier – from touchbars and push pads to panic bolts and latches – all backed by HOPPE UK's speedy delivery promise and technical know-how.



## DO YOU CHECK THE SCOPE OF APPROVAL?



It is important to be aware that a fire door needs compliant door hardware and ironmongery to maintain fire safety integrity.

By checking manufacturers' 3<sup>rd</sup> party test certificates for 'scope of approval' you can ensure all components are compatible with the specification of the door. For example, is it certified on both latched and unlatched doors?

A product's suitability for door types and the installation variants is critical when lives and property could potentially be at risk.

**DORMA.** The Access

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