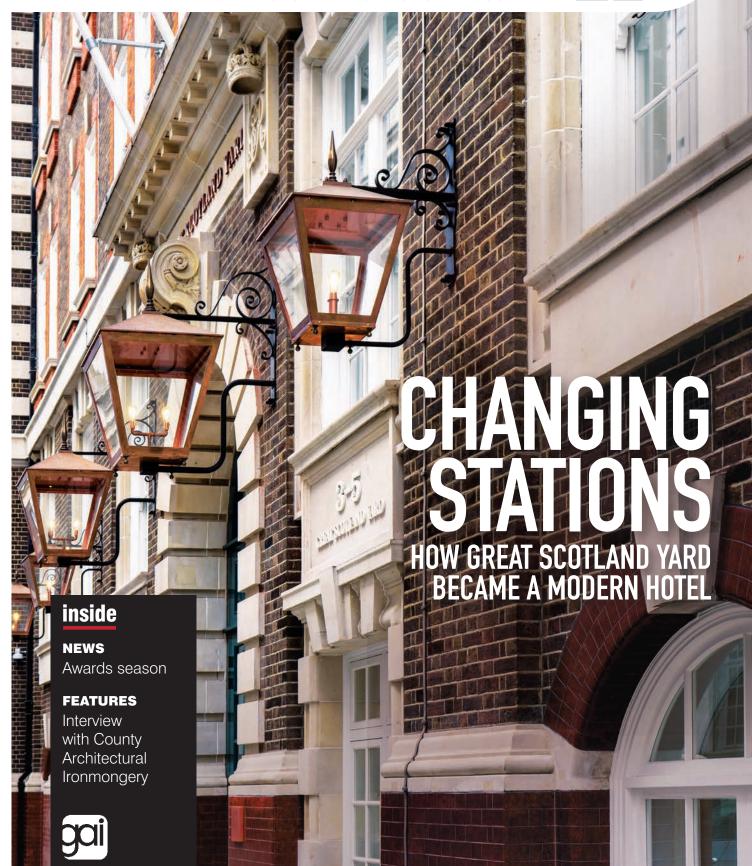
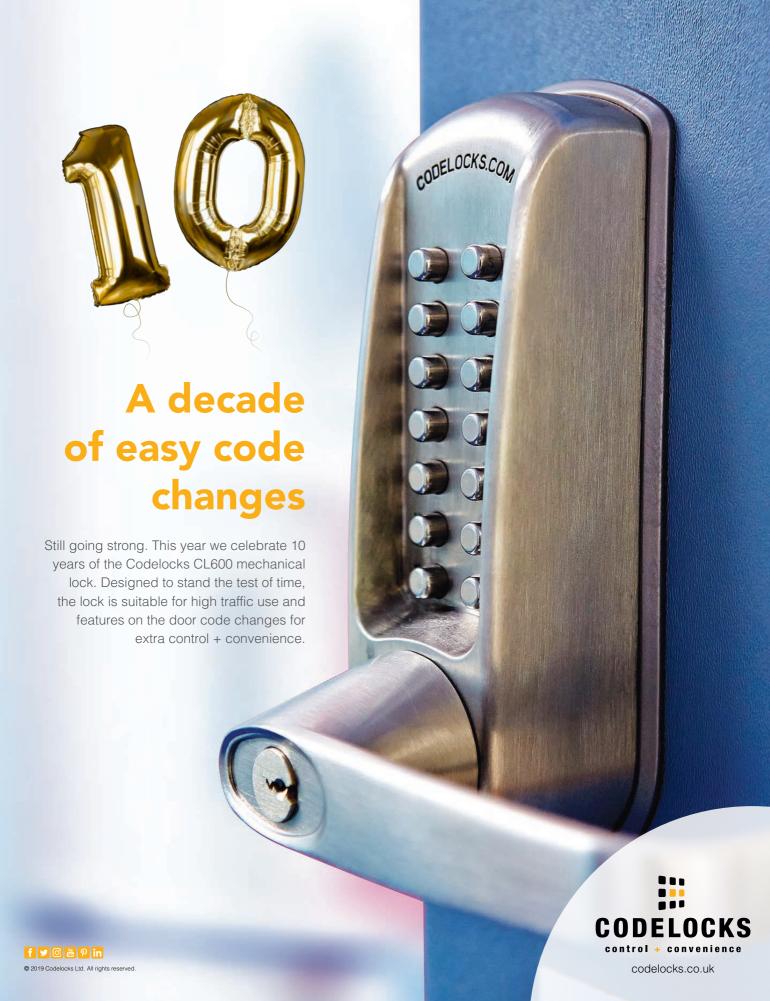
AUTUMN 2019

ARCHITECTURAL IRONMONGERY JOURNAL

















aij is published by The Guild of Architectural Ironmongers. BPF House, 6 Bath Place, Rivington Street, London EC2A 3JE. Telephone +44 (0)20 7033 2480. Website: www.gai.org.uk

Although this magazine is the official publication of the Guild of Architectural Ironmongers, claims and opinions expressed by contributors and advertisers do not necessarily reflect the official views of the GAI. Copyright The Guild of Architectural Ironmongers 2007 ISSN 0959-986x

CONTENTS

Autumn 2019

NEWS AND VIEWS	
News	04
GAI news	12
An architect talks	16
FEATURES	
Great Scotland Yard transformed	18
Interview: Juliette Lambert	22
CPD: Acoustic standards in doors	24
TECHNICAL	
The new grade 5 for BS 8607	26
The Internet of Things	29
NEW PRODUCTS	
New launches this quarter	32
BACK DOOR	
Skyscraper for Birmingham	34

EDITORIAL PANEL:

Julian Newman

Email: julian@oxfordironmongery.com

Angie Corkhill

Director

Email: angie.corkhill@gai.org.uk

Liz Male MBE

Director Liz Male Consulting Tel: +44 (0)1234 712279

Email: liz@lizmale.co.uk

Neetta Brown

Senior marketing officer Email: neetta.brown@gai.org.uk

TECHNICAL MANAGER:

Douglas Masterson

Tel: +44 (0) 7469 141657

Email: douglas.masterson@gai.co.uk

DESIGN AND PRODUCTION:

Atom Publishing

Tel: +44 (0) 20 7490 5595 www.atompublishing.co.uk

EDITOR:

Nicky Roger

Tel: +44 (0) 7704 336835

Email: nicky@atompublishing.co.uk

ADVERTISING MANAGER

David Smith

Tel: +44 (0) 20 7490 5595 dave@atompublishing.co.uk

ART EDITOR:

Heather Rugeley



EDUCATION AWARDS

2019





Proud to support our industry's brightest talents!

ASSA ABLOY
Opening Solutions

ASSA ABLOY

LORIENT



Experience a safer and more open world

HÄFELE ANNOUNCES SECOND DESIGN PARTNER SHOWROOM

Häfele has opened a second showroom in its design partner

The company opened the showroom in the Wimbledon-based trade centre of architectural ironmongery retailer SDS. This partnership follows on from the successful launch of a Häfele showroom in furniture store Daro last year.

The new showroom will benefit local tradespeople by showcasing a core range of Häfele products in store, as well as providing access to the company's range of over 25,000 products which will be available for next day delivery. Showroom customers will also have access to technical support, product-range experts and bespoke offers and promotions.

STIRLING 2019 WINNER TO BE REVEALED



Above: The Weston at the Yorkshire Sculpture Park is on the Stirling shortlist

RIBA announces the winner of the Stirling Prize - the Oscars of the architecture world - on 8 October at London's Roundhouse.

As well as announcing this year's winner, the evening will include the

presentation of the Stephen Lawrence Prize, and the RIBA Client of the Year Award. It will also celebrate the longlist for the RIBA House of the Year Award and a new addition, the Neave Brown Award.

The six projects in the running for this year's RIBA Stirling Prize are:

Cork House by Matthew Barnett Howland with Dido Milne and Oliver Wilton

Goldsmith Street by Mikhail Riches with Cathy Hawley

London Bridge Station by Grimshaw

The Macallan Distillery and Visitor Experience by Rogers Stirk Harbour + Partners

Nevill Holt Opera

by Witherford Watson Mann Architects

The Weston, Yorkshire Sculpture Park by Feilden Fowles Architects.



Abloy UK has launched a new CPD training course approved by RIBA, entitled 'Digital Transformation in Physical Security', which attendees can complete to achieve double CPD points.

This course provides insight into the disruptive world of digital technology, and the impact it's having on conventional physical security with the introduction of mechatronic locks and keys. Delegates will learn how the technology can be deployed to achieve an innovative, integrated and futureproof locking solution. The course reveals the benefits of this technology including improved levels of security, traceability and management of assets. Attendees will also examine how

RIBA APPROVED CPD ON DIGITAL TRANSFORMATION

improvements in efficiency can reduce an organisation's carbon footprint to create a more sustainable future.

Another topic covered is how digital technology can be integrated into an organisation's operational systems and processes to deliver a safer, more efficient work place - leading to a rapid return on investment. The course explains how the data from a locking system can be shared with health, safety, and staff competency processes to contribute towards seamless corporate compliance.

In addition, an explanation is given as to why this technology is more cost effective and quicker to deploy, while at the same time being more aesthetically pleasing than many conventional access control solutions.

Attendees of the course will work towards a number of learning outcomes, such as how to improve the design and usability of buildings with the inclusion of digital, future-proof mechatronic locking solutions to help achieve smart buildings.

They will also learn how the costeffective, aesthetic deployment can return a speedy ROI, and take confidence in being able to deliver scalable and flexible locking solutions, which can quickly and easily be adapted as the building or end user's needs change.

Insights will also be given into how a mechatronic locking solution reduces cost and improves sustainability, and has become part of the IoT and Big Data, and the benefits that delivers. To book a place visit the Abloy Academy Registration Page, email info@abloy.co.uk or call 01902 364 500. SMARTAIL

ARCHITECTURAL TECHNOLOGISTS HONOURED



As AIJ went to press The Chartered Institute of Architectural Technologists (CIAT) was announcing the winners of its 2019 Architectural Technology Awards.

Recognised as the premier accolades that demonstrate outstanding achievement in the discipline and celebrate the technology of architecture, the awards consist The Award for Excellence in Architectural Technology, The Alan King Award for Excellence in Architectural Technology, for projects with a value no greater than £750k, two categories of Student Award for Excellence and the CIAT Technologist of the Year.

Visit ciat.org.uk/awards.html for to see the winners and all finalists.



Two of the shortlisted projects for the CIAT awards

ACOUSTIC SEALS GIVE HOTEL GUESTS GOOD NIGHTS SLEEP



In keeping with its Good Night guarantee Premier Inns across the UK are providing quiet guest rooms with help from retrofit Norseal acoustic door seals.

Around 400 Premier Inn bedroom doors have been improved through a number of retrospective acoustic refurbishments including fitting hundreds of Norseal NOR820 surfacemounted automatic drop seals. Acoustic sealing

improves efficiency by up to 92 per cent.

NOR820 drop seals are engineered with retrofit in mind. They include design features which allow the acoustic seal to be fitted in minutes to either the inward or outward face of a door. This includes a clip-in actuator which can be adjusted by hand.

Additionally, the seals specified at the Premier Inns keep heat in, whilst reducing the transfer of

smoke, draughts and light coming through door bottom gaps, further enhancing the comfort and safety of hotel guests. Norseal NOR820 helps doors meet the requirements of BS9999, the standard which details the performance criteria for smoke sealed doorsets in the UK.

Read more about acoustic doors and seals on p24 and 25.

YOUR ONE KEY SOLUTION







Wide Range of Finishes



Finishes shown - Nickel Plated, Polished Chrome, Polished Brass, Black, Bronze and Satin Brass (Other colours available on request)

ICS is the perfect partner for all of your specification needs.











www.evva.com

Aldridge

Masters of Security Distribution





Sliding door hardware from a leading UK supplier has been specified for the world's first underwater quarry hotel located in Songjiang Shanghai, China.

The Intercontinental Hotel Shanghai Wonderland is built onto the side of a 289 foot deep, water filled quarry, the five star luxury hotel took 10 years to build and boasts 337 rooms across 18 floors, 16 of which are technically below ground and two underwater.

A telescopic system of sliding doors was specified for 314 of the rooms in order to create two large The Intercontinental Hotel Shanghai Wonderland is being hailed as a modern architectural wonder of the world movable walls between the bathroom and bedroom. The telescopic formation of the doors allows for a modern, open plan design whilst still ensuring that the bathroom can be completely closed off when privacy is required.

A number of the hotel rooms also include a cavity wall for one of the movable walls to slide into meaning the doors are completely hidden from view when not in use.

Designed by British design firm Atkins – the company behind the famous Burj Al Arab hotel in Dubai – the £225m hotel has been designed with a number of eco-friendly principles – geo thermal power and solar power generates energy for heat and lighting whilst the pond in the base of the quarry cools the air which is then drawn into the building as natural air circulation.

The futuristic hotel features two underwater levels, an aquarium and





a transparent glass 'waterfall'. It also contains a leisure complex with a swimming pool, water-based sports and an extreme sports centre for rock climbing and bungee jumping cantilevered over the quarry.

SHANGHAI TRADE FAIR POISED FOR BIG NUMBERS

Fenestration Bau China – now called Bau China – the trade fair for windows, doors, glass, components and prefabricated units in Asia, is expecting a record number of visitors when it opens its doors on 5 November. The four-day fair takes place once a year, alternating between



Beijing in the even years and Shanghai in oddnumbered years. The event boasts 625 exhibitors from 20 countries and over 100,000 visitors from 76 countries. Bau China will take place from 5 November to 8 November 2019 in Shanghai.

FIRE DOOR SAFETY WEEK FOCUSES ON SAFETY OF SPECIAL HOUSING OCCUPANTS

Fire door safety campaigners are stressing the life-saving role that fire doors play in protecting us while we sleep, as part of this year's Fire Door Safety Week (23-39 September), run by the British Woodworking Federation (BWF).

The awareness week, now in its seventh year, will once again highlight the importance of fire doors and good fire safety practice. This year it will focus on the critical role fire doors play in protecting us when we're asleep, particularly in specialised housing such as care homes, children's homes and sheltered housing as well as houses in multiple occupation and communal properties.

Research conducted for this year's Fire Door Safety Week amongst care home workers

will reveal concerns about fire safety as well as a lack of clarity about the crucial role that fire doors play in care home buildings.

Numerous events and campaign activities are being held throughout Fire Door Safety Week includin

g CPDs and events hosted by big names such as dormakaba and ASSA ABLOY.

A free toolkit of resources is also available to help landlords, tenants and anyone with an interest in or responsibility for fire safety at a property to get involved.

Fire Door Safety Week is an industry campaign that seeks to increase understanding of the critical role that fire doors play in protecting life and property.

www.firedoorsafetyweek.co.uk







THE BIG 5 TURNS 40

Built environment event The Big 5 takes place on 25 to 28 November at the Dubai World Trade Centre. Now in its 40th year it claims to be the powerhouse of the construction industry in the Middle East.

Over the past four decades, the show has launched hundreds of thousands of products boosting the expansion of the regional construction market. It claims to have facilitated partnerships, advanced knowledge and industry best practices, while serving as the gateway for international companies to do business and expand in the Middle East.

With more than USD 1 trillion worth of contracts awarded over past five years, the MENA region's future projects pipeline exceeds USD 3.7 trillion. Construction and civil construction projects alone account for USD 2.4 trillion, according to a recent report by MEED Projects published by The Big 5.

The vast majority of the planned projects in Dubai are for mixed-use buildings (64%), followed by apartments (8%), airports (7%), and railway (4%). Other significant segments

include houses and villas, dredging and reclamation works, hotels and resorts, and solar plants.

In 2018, 2,250 exhibitors took part in the show, which welcomed more than 68,000 construction professionals from 132 countries.

The GAI's GCC Branch event will be held in Dubai, across the road from the Big 5 on Monday 25 November at 6pm. To register go online to gai.ogr.uk

www.thebig5.ae.



TESTING LAB ACQUISITION OFFERS GREATER BUILDING ENVELOPE TESTS

UL, a global safety science leader, has acquired Wintech Testing and Certification, a Telford-based firm that provides testing and certification services to building products manufacturers, architects, building owners and others across the built environment community. The acquisition strengthens UL's expertise in the field of building envelope evaluation, testing and certification, and offers greater access to global markets.

Wintech Testing and Certification is a privately-owned firm that offers testing and certification services to the building envelope market. Wintech Testing and Certification's laboratory facilities are among the largest in the UK and are accredited by the United Kingdom Accreditation Service (UKAS). Wintech Testing and Certification also holds accreditation from UKAS as a certification body operating several schemes involving certification of windows, doors, curtain walls, and rainscreen cladding.

"UL and Wintech Testing and Certification have a shared mission and complementary businesses. We are relied upon by the building materials community for the services and knowledge that they need to enhance public safety, meet regulatory demands, protect brand value and successfully access the global market," said Kevin Faltin, vice president of UL Building and Life Safety Technologies division.

"We are excited by this opportunity to join forces with UL and provide best-in-class services to the building envelope community," said Gailord Nepp, former managing director of Wintech Testing and Certification and now European business development manager - Building Envelope Services for UL.

MLA EXPO HEADLINE

MLA Expo run by the Master Locksmiths Association returns to the Telford International Centre from 4-6 October 2019. Billed as Europes' largest locksmith exhibition it will run over 80 seminars and boast over 90 exhibitors. www.locksmiths.co.uk/mla-expo/



OPENANTE NEW ECDRIVE T2. Now with 6Cprofile Therm. VOUL 80315

Each of our products is designed to open up new opportunities for you. With the new ECdrive T2, it's your decision where to head next. Towards new design opportunities, thanks to the especially sleek design? Towards more energy efficiency with a thermally separated profile? Towards better financial margins, thanks to the excellent price-performance ratio? Or towards full connectivity via the GEZE Cockpit? Where do you want to go?

WELCOME TO YOUR GOALS.



GAI TALK

ANGIE CORKHILL

Last month came some particularly good news for the future of technical education in this country. It's very relevant to us as an industry too.



The announcement was timed to mark A level results day. Education Secretary Gavin Williamson declared that the Government would make sure that people who take a technical or vocational qualification

would be given the "proper recognition".

Quite what that means in practice, it's hard to say yet. But at the very least it appears to be a commitment to build the public and political profile of industry-recognised and accredited vocational qualifications. I'm delighted with this approach. It fits in perfectly with the direction of travel for the GAI's education programme.

Given the severe skills crisis and demographic changes affecting the architecture, architectural ironmongery and construction markets, plus Brexit and economic challenges around the world, we need more investment in this sort of technical education if our businesses are to remain successful.

So the GAI strongly supports the drive to create more choices for young people and adult learners, and to build the sorts of technical and business skills that employers need.

For example, this time next year, students over 16 will have more options for technical education. Once they have finished their GCSEs, they will be able to take one of the new T Levels as a high-quality technical course that will carry the same UCAS points equivalent to 3 A levels.

"Young people and their parents can be confident that T Levels will be just as stretching as their academic equivalents and will offer progression to the next level whether that is landing a great job, an apprenticeship or going on to do a degree," said the Education Minister.

"Technical and vocational educational has played second fiddle to traditional academic options for too long. In three years' time the look and feel of results day will be very different..."

I hope he is right.

Angie Corkhill

Director



Taking place at London's Royal Lancaster Hotel, the Education Awards honour the GAI Diploma students and are a popular fixture in the architectural ironmongery calendar





BOOK YOUR TABLE AT THE GAI EDUCATION AWARDS

Bookings are now open for the 40th annual Education Awards that will take place on 7 November at the Royal Lancaster Hotel, London.

The awards, sponsored by ASSA ABLOY Opening Solutions UK & Ireland, celebrate the architectural ironmongery professionals who have achieved a GAI Diploma and recognise the highest achieving students. The bronze, silver

and gold awards are given to the top three performing students in the final stage of the GAI Diploma.

There is also the Pinnacle Award that is given to the student with the best aggregate results of the Certificate in Architectural Hardware and the Diploma programme.

GAI members will now be able to book a table through the GAI website.





This year's winners flanked by the chair of the IAI Jo Milne-Rowe and the then GAI president David Stacey

Dedicated individuals within the architectural ironmongery industry will be recognised at the Institute of Architectural Ironmongers (IAI) Awards next year. Nominations are now being accepted for four categories. Members of the GAI or the IAI can nominate an IAI member via the GAI website.

The IAI Fellowship Award is given to an individual who has shown a longstanding and ongoing commitment to the IAI over at least 10 years, and who is still actively involved within the industry and Institute. The most recent winner was Mario Del-Signore, director of CES UK and the current vice president of the GAI.

The Paul Lewis Award for Customer Service is given to an individual, group or company that has made an outstanding commitment to customer services throughout the year. This year's award. sponsored by Royde & Tucker, was given to Karen Nelson, business development manager at HOPPE (UK) and chair of the IAI Midlands branch.

The GAI Award for Services to the Institute is always awarded to a current IAI

member who has made a recent and visible contribution at branch level. The award went to Michael Spoors, managing director of Norseal and member of the GAI Education Committee and CPD working party.

The Promising Ironmonger of the Year award is intended to recognise the brightest ironmongers in the early stages of their careers. This year's winner was Cameron Parry, sales advisor at Locks & Fittings Ltd

Jo Milne-Rowe, chair of the IAI, said each entry will be judged on its merits. "It's not a popularity contest. It's about the quality of the entries and testimonials, not the quantity. Entries are growing year on year and I hope we can get even more nominations for 2020. It is encouraging to see the industry coming together to celebrate each others' successes, and helping to inspire the next generation of door hardware professionals."

The deadline for entries is Friday 29 November 2019. To nominate someone for an IAI Award, visit the GAI website.

SMART AND SUSTAINABLE: GAI PROVIDES TWO NEW CPDS

The GAI has released two new RIBAapproved seminars that can be delivered exclusively to architects and other specifiers by GAI members across the country.

The CPD on 'Ironmongery and the impact of the Internet of Things', will help architectural ironmongers advise on the appropriate products for smart homes and buildings.

The CPD looks at how the rise of interrelated technology is impacting the ironmongery industry, including various smart locking and access control products. It also looks at the integration of these smart products with Building Management Systems, as well as how future trends with technology and legislation may have further impact.

The other CPD available to members is on 'Ironmongery and the impact of the environment'.

The presentation is designed to highlight the environmental sustainability impact of construction products, including door hardware, and how architectural ironmongers can help to reduce carbon emissions from buildings as well as how they can also change their own processes to reduce the impact on the environment.

It covers industry initiatives and programmes including the UK Green Building Council (UKGBC) activities, timber certification schemes such as BREEAM and LEED, as well as ISO 14001 and other relevant environmental standards. It also discusses the role of Environmental Product Declarations (EPDs) and how these relate to architectural ironmongery specifically.

Both CPD presentations are RIBAapproved so architects will receive double learning points for attending.

For further information on the CPD seminars, email technical@gai.org.uk.



GAI RENEWS ITS CALL FOR ACTION ON FIRE SAFETY



In response to the Building a Safer Future consultation on fire safety and the Regulatory Reform (Fire Safety) Order 2005 call for evidence, the GAI has renewed its call for mandatory competency checks on those who specify fire doors and associated door hardware.

The Building a Safer Future proposals build on the recommendations from Dame Judith Hackitt's Independent Review of Building Regulations and Fire Safety. The report sets out ideas for the fundamental reform of building safety requirements.

The GAI has called again for mandatory fire door inspections and maintenance as part of Building Regulations. Its response noted that, while the report says residents and landlords in High Risk Residential Buildings (HRRBs) should ensure fire compartmentation is maintained to a suitable standard, this was in fact only a step in the right direction.

Douglas Masterson, technical manager of the GAI, said: "The architectural ironmongery industry's view is that there is a clear requirement for fire-related and other complex specifications to be undertaken by qualified ironmongers, and that installations and maintenance should also be undertaken by qualified personnel or companies. Competence is key across all these areas when it comes to ironmongery, particularly for fire and escape doors."

In its submission to the consultation, the GAI has also highlighted its growing concerns about continued 'value engineering', particularly the frequent changes to architectural ironmongery specified for fire doors.

The Guild supports the change control process recommended in Hackitt's report, but also recommends taking it further to add 'changes in specification on product with fire and life safety implications' to the list of changes that would be deemed major.

Major changes would require the principal contractor to consult the client and principal designer, and then notify the regulator and submit further details before carrying out the work. The GAI also supports reintroducing the Clerk of Works role to ensure specifications are followed to the letter.

The GAI supports calls for a national construction products regulator that can take action against any manufacturer which makes false claims about its products and against all major standards and also backs recommendations the fire service has greater involvement.

The GAI is part of the Industry Response Working Group 12 relating to products, chaired by the Construction Products Association. www.gai.org.uk

EXAM RESULTS ARE IN FOR ASPIRING AIS

Newly qualified architectural ironmongery professionals are celebrating GAI education programme results.

Exams were sat in 26 different countries by 390 learners. So far, 101 students have attained the Certificate in Architectural Hardware (CiAH) and 51 students have now completed the GAI Diploma this year.

The Guild's education programme continues to grow overseas with exams held in three more countries than last year, and 49% of learners based outside the UK. This year there has been a particularly high number of learners in United Arab Emirates (UAE), China and India.

Newly qualified Diploma holders – and everyone who has supported them – wlll celebrate at the GAI Education Awards ceremony in London on 7 November.

The Guild's education portfolio is separated into two qualifications. The CiAH consists of two stages with 24 education modules covering everything an architectural ironmonger is required to know, supported with eight block assessments to test the students' understanding.

Once this has been completed, students may choose to continue their studies with the GAI Diploma. This stage focuses entirely on the skills and learning needed for scheduling the architectural ironmongery, electric hardware and key control for a project, and is of particular importance to those working on projects being built to UK and European standards. Once they have completed the Diploma, they become a DipGAI, an industry recognised symbol of professionalism.

The 2019/20 education programme prospectus has been published on the GAI website, outlining the qualifications, course content and training support available.

It also gives further information on becoming a Registered Architectural Ironmonger (RegAl) through the Continued Professional Development (CPD) programme. The programme offers flexibility for busy professionals and far more opportunity to gain CPD points.

Enrolments are open from 2 September until 20 December 2019. Download the prospectus from the GAI website: www.gai.org.uk



With four elegant designs and five superb finishes, plus the option of four rose designs.

The Luxurious Burlington Range of door and cabinet furniture allows the possibilities to create unique interiors.

Luxury - Style - Design

The choice is yours



OPINION · PAUL REES

think it's safe to say, that most of us appreciate the value of money, but that appreciation is not so easily recognised or acknowledged.

It seems our human desire to accumulate wealth, privately or commercially, creates an attitude where logic dictates the cheapest solution must be the best, even though experience proves that this is often not the case.

Costs clearly impact on a project but while advice can explain and elaborate on what is fully involved, the issue of costs is a touchy one. Some clients understand advice (especially good advice) does not come for nothing and will allow for it in their budget.

Those remaining who believe the advice is free and have not allowed for it in their budget are confronted with the reality of a fee proposal, and often adjust their requirements of service with little regard for the adjustment of the product. Consequently, they place little value on any information, choosing either to ignore it or question its validity.

It's not only knowledge or experience that should be considered; resources are also relevant. Will there be adequate labour to support the project, timescale in their schedule to commit to it (rather than rush through an ill-considered solution) and is there the appropriate equipment? Poorly prepared sketches may obtain (planning) permission and achieve the client's initial goal, but from my experience, there's usually conflicting and insufficient information for a contractor or manufacturer to work from. This results in various delays. disputes over responsibility, poor quality of finishing or detailing and ultimately, increased costs.



If clients don't accept paying fairly for the right service or product it's likely they don't understand what needs to be done for a smooth project and therefore don't have an appreciation of value for money"

In turn, it fails to realise the client's later goals including an uncomplicated, stress-free project, or worse still, the outcome they wanted.

Clients regularly expect their budget to be predominantly spent on the process of production not the service creating such items. Architecturally, I believe every project is a bespoke one, even those that seem to be repetitive, e.g. pre-fabricated units duplicated on differing sites, because every site has its own topography, services, boundaries, orientation, etc. All of these affect construction and therefore must be embodied into the design and in turn the costs of the project.

Whilst it's widely accepted the most successful projects are those delivered on time, budget and quality, for most of us, cost is our clients' over-riding factor.

This raises another issue: why clients are so keen to accept the lowest price when a significant difference (and experience) screams that something must be flawed with it. I've witnessed most things, from singular missed items to full page omissions from tenders, arithmetical errors throughout or items substituted with non-compliant alternatives. The subsequent product risks fall well below the client's expectations, resulting in prolonged discussions and reviews into how it occurred and how to resolve it

Projects with an appropriately planned budget stand a better chance of being successful. If clients don't accept paying fairly for the right service or product, it's likely they don't understand what needs to be done to maximise their chance for a smooth project; and therefore don't have an appreciation of value for money.





The interior that lies behind the historic facade of Great Scotland Yard is bursting with luxury detail

ARRESTED DEVELOPMENT

London's former Great Scotland Yard has been turned into a luxury hotel with interiors and ironmongery reflecting its rich history

It was here the famous **Plaistow Marshes and** Jack the Ripper crimes were investigated"

he completed interiors of the Great Scotland Yard hotel in London have been revealed following a £75m renovation project ahead of its launch later this year.

Located in the St James's area of Westminster, the Grade II listed building has been converted into a 153-bedroom luxury lifestyle hotel, which will be operated by Hyatt under its Unbound Collection – a collection of upper-upscale and luxury, individual hotel properties.

The seven-storey building was the original headquarters of the Metropolitan Police and nods to its former occupants can be found throughout the property, which is owned by Abu Dhabi based LuLu Group International.

Police check

The site was acquired by Galliard Group, who completed the £75m construction project, under a 125-year Crown Estate lease in 2013, which was exchanged for a forward sale of the hotel to LuLu Group for £110m in 2016. LuLu Group already runs Hyatt and Marriott hotels in southern India and a Sheraton hotel in Oman. The Group's first hotel in Dubai is to open in the Business Bay area later this year.

Stephen Conway, executive chairman of Galliard Group said: "Galliard has delivered one of London's most outstanding five-star hotels. With its iconic address and famous history, the hotel's interior design cleverly references the building's police and military past through the use of shields, emblems and historic details etched into glass and metalwork."

Then home secretary Sir Robert Peel selected the building as the first headquarters for the Met in 1829. Crimes investigated in the building included the atrocities of Jack the

Ripper, with it remaining the force's home until 1890, when it would move to New Scotland Yard.

Inside the hotel secret doors will lead to a whiskey bar/clubroom, signature restaurant and private dining rooms. The restaurant will have Alex Harper at the helm as executive chef, with Robin Gill, who owns the Dairy and Sorella in Clapham, acting as consultant to Hyatt. The space has been inspired by industrial warehouse architecture with timber flooring, brick walls and vaulted ceilings. The 93,000 sq ft five-star hotel also involved hospitality design firm Hirsch Bedner Associates.

Eleven suites include a converted former townhouse, which will have its own street entrance as well as a family room, dining room, kitchen, private study, wine cellar and bedrooms arranged over several storeys.

Former basement cells have been converted into a gymnasium, »»

John Planck Ltd supplied door hardware across the hotel including elephant-head handles (top)







RICH HISTORY: FROM THE TUDORS TO JACK THE RIPPER

Not only does this site hold great

value with it previously being the

home to the Metropolitan Police HQ but, in Tudor times the location was an Embassy-style dwelling for the Kings of Scotland when they visited King Henry VIII and Queen Elizabeth I. This is where it took the name "Great Scotland Yard" from (the place of the Scottish Lords). In 1829, the then Home Secretary Sir Robert Peel selected Great Scotland Yard to be the headquarters of the newly founded Metropolitan Police force. The building's main entrance was at 4 Whitehall Place, but he installed a public office to the rear at 3-5 Great Scotland Yard. It was here that the famous Plaistow Marshes and Jack the Ripper crimes were investigated in 1864 and 1888 respectively, and Scotland Yard's infamous stature was enhanced by novelists including Charles Dickens and Sir Arthur Conan Doyle. In 1890, the police decided to move their headquarters to a new location, which appropriately became known as "New Scotland Yard". In 1910, the current Edwardian building was constructed and

housed the British Army Recruitment Office and Royal Military Police as their headquarters. It was here that Lord Kitchener famously told WWI recruits "Your Country Needs You". Cells were introduced in the basement for Army deserters and in 1982, a further refurbishment introduced a new atrium and the building was latterly used as the Ministry of Defence Library until 2004.



The ironmongery requirements were varied to say the least. We compiled a comprehensive set of schedules to over 750 doors"

120-seat conference spaces and a ballroom. The main cocktail bar will have a secret entrance.

Don O'Sullivan, chief executive of Galliard Group added: "Over the last decade Galliard has built 10 hotels and the Great Scotland Yard Hotel sets a new benchmark for high quality construction and exquisite design. Our vision was to deliver a world-class hotel of the quality of The Mercer or the Chateau Marmont, a place renowned for exceptional service, destination dining and leisure and outstanding luxury and quality."

The hotel was originally due to open in 2016 as a 235-bedroom property operated by Morgans Hotel Group under its Hudson brand.

Intricacy and detail is found throughout the hotel

Galliard Group has constructed 10 hotels over the last 10 years. For this latest hotel with its elegant Edwardian facade, Galliard extended the original five-storey building to two additional levels above the original roof plus two new levels of basement, with a depth of 9 metres - making it one of the largest and most complex basement excavations undertaken in the last decade in Whitehall. The top storey features intricate detailing to match the original grand imperial red brick and Portland stone façade, to consist of a period-style Westmorland slate clad mansard roof, with handmade slate and ecological features.

Original, restored features include tall windows with feature brick and stone detailing to the main Edwardian building as well as a new Edwardian-style feature clock, gas-style copper lanterns and plant boxes. Each part of the process from construction through to décor has been carefully selected to offer the ultimate specification. Various custom-made materials, fixtures and fittings from locations across the world makes this hotel a top destination showcasing sheer luxury.

Those visiting the hotel will be greeted with high ceilings and a feature chandelier by Precioisa and Italian Crema marbling to the reception foyer in a bespoke marquetry design. The walls are lined in walnut paneling, antique bronze mirror work and bespoke joinery to keep in line with the building's heritage. Other key features will include crystal glass sculptures and chandeliers in the cocktail bar as well as Calcutta marble flooring to the passenger lifts, ensuring guests experience true luxury from start to finish.

The historical significance was also borne in mind with the architectural ironmongery.

Leading architectural ironmonger John Planck Ltd worked in collaboration with Galliard's in-house design team. With inspiration taken from all corners of the globe, the design was split between the differing areas with the bedroom levels in a dark bronze finish, public areas in an antique brass finish and back of

house in stainless steel, but in all front of house areas 'concealed' products such as hinges and door closers were used where possible.

"The ironmongery requirements were varied to say the least," says Tom Planck, managing director of John Planck Ltd. "We compiled a comprehensive set of ironmongery schedules to over 750 doors. We also provided handles and accessories for the wardrobes and vanity units within the bedrooms and ensuites, the entrance sliding glass doors and the installation and automation of these, as well as the installation of automatic operators to swing doors leading into the club room and parlour bar areas.

"There were also numerous decorative joinery pieces such as bar rails, corner and t-brackets, themed 'Elephant' hooks for under-counters, drop handles and finial hinges to display cases, window shutters and cabinetry in the various bar and restaurant areas, and several other knurled, leather, reeded, glass and antique brass cupboard knobs and accessories.

Stand out features of the ironmongery design include:

- a hexagonal shaped lever handle to the ground floor public areas
- lever handles adapted to operate with panic hardware
- a colonial style lever to the bedroom areas.
- decorative 'Elephant Head' design pull handles
- bespoke shaped lever handle backplates to compliment detailing on door paneling
- bespoke-centred lock cases to suit
- differing sized concealed hinges to suit the door construction and weights including 'power transfer' hinges for access control solenoid locks within the doors
- bespoke 'bent' key shape hooks to ensuite doors
- sliding and swinging door automation
- covered euro escutcheons to riser door cylinder locks
- automatic acoustic drop-down seals to bedroom entrances

- skirting and corridor wall corner guards
- electronic RFID locker locks to the gymnasium area
- bar foot rail and brackets
- elephant shaped hooks
- monogram 'glass' door knobs with Great Scotland Yard logo
- sliding pocket door gear, including to suit single panel over 3m wide and 2.5m tall

John Planck Ltd selected door hinges from the SIMONSWERK range. In total over 1700 Tectus concealed hinges have been installed including the TE340 3D FR, TE640 3D FR and the TE527 3D. The range includes the fully concealed Tectus hinge range and the popular Tritech solid brass hinge with concealed bearings. SIMONSWERK hinges have also been fitted in many other hotels throughout Europe including the Ritz and the Savoy.

The ironomongery brief for the hotel demanded various styles in many differing rooms





CHECK-IN: GREAT IRONMONGERY IN HOTELS AROUND THE WORLD







L-r: Four Seasons, Kuwait, MNKY House in London and Al Faya Lodge, UAE

OPEN SESAME

Having worked on many of the Four Seasons projects worldwide, Allgood was initially brought in by lead architect, Gensler to support the development of the ironmongery schedule on the Four Seasons Kuwait. Set on the Burj Alshava waterfront it boasts over 300 opulent rooms and suites which blend motifs from traditional Middle Eastern architecture into an airy contemporary space. When Yabu Pushelberg was appointed as interior designer. Allgood was selected as their natural partner following many previous collaborations on similarly large and complex projects.

The showpiece of the £1m ironmongery project is the bespoke brass pull handle on each of the 3.6 metrehigh internal doors. Finished in a warm bronze designed to patinate over time, with a hammered texture, these pull handles required months of consultation and prototyping, as well as a customised manufacturing

process in Allgood's Birmingham factory.

Four Seasons Kuwait won second place in the International category of the RIBA-**GAI Specification** Awards 2019.

MONKEY BUSINESS

A boutique hotel in Mayfair MNKY House took its monkey theme to even signature door handles when it underwent an update this year.

Ironmongery and door furniture were chosen from SWS's Dorë Prestige range. As well as a bespoke design they had to be durable for public use and it specifically featured antique brass flush pulls, recessed door closers to the w.c. doors with quality locks and turns.

Some of the back of house doors out of the client's vision had a robust stainless steel grade of door furniture. **TECTUS** hinges provided a flush, low profile look to the doors. Access control was required to certain doors together with an easy to use master key system for the building operator.

DESERT OASIS

Architecture studio Anarchitect has turned a couple of stone buildings in the UAE into Al Faya Lodge, a hotel and saltwater spa in the Sharjah desert. A complex of buildings now forms the Al Faya Lodge, which sits in the red sands at the foot of Mount Alvaah in the Emirate of Sharjah.

The pair of stone buildings originally built half a century ago, which once housed a clinic and a grocery shop, have been adapted to become a five-room boutique hotel.

Over the road a new building houses a saltwater spa complete with an open air swimming pool.

Each room in the Al Faya Lodge has its own star-gazing skylight, and the master suite has its own private roof terrace. The hotel is designed to be booked in its entirety so guests can enjoy the spa and pool in private.

The build used materials that can withstand the extremes of the desert climate. Ironmongery was Italian brand, Manital,







FAMILY MATTERS

When Juliette Lambert took the reins of the family Al business it was a far cry from her City career. Here she talks to **Nicky Roger** about her learning curve, balancing business and family life and the running of County Architectural Ironmongery



CAI supplies to a wide range of projects including schools

the best advice and products for the project, taking in to account the life cycle of the building to ensure that they aren't coming back to us a year down the line saying that something isn't working.

However, when there is that odd occasion when something isn't working as it should be, we jump on it straight away to ensure that the problem is resolved quickly and with minimal inconvenience.

And what about you? What is your journey to Al. And what's your management style?

My own background is that after leaving university with a degree in Economics and Accounting I thought I should try and do something relating to it and ended up with a career in London in financial PR. However,

It was a steep learning curve: not only did I need to learn the business but also the names for products I had just called 'that thing that helps you open a window"

ell us about CAI The company was set up by my Dad and Derek Mead back in ■ 1988 from where it went from strength to strength. Sadly 10 years later Derek died suddenly which threw the business in to a bit of chaos, but with the steadying hand of the team who had worked with Derek, our family was able to step in to his shoes and I took over running the business 13 years ago.

We work on a huge variety of projects which the whole team relish. There are the standard larger commercial projects which include new care home and school projects, through to the large one off houses or the large-scale housing developments. We cover the whole range and this is what keeps all of the team on its toes and interested.

Our ethos is to ensure that we provide the very best service that we can to our customers. We offer them



A sixth form among CAl's portfolio

after realising that selling stories to the national press about mis-selling of paid for bank accounts and other such subjects wasn't really my passion I took the step to join the family ironmongery business.

It was a steep learning curve from the outset: not only did I need to learn every aspect of the business but also the difference between a deadlock and sashlock and names for products that I had just called 'that thing that helps you open a window - casement fastener'.

Studying and completing the GAI Diploma definitely went a long way to helping me get some understanding of what I needed to know.

As for my management style, a person's wellbeing comes first. As a family business and having a young family myself, I understand how important it is to ensure the whole wellbeing of our staff is good, so we ensure that we are as flexible as possible.

I have had to learn to be more hands off over the last seven years as I have been juggling bringing up three young children, but I would like to think I have always taken that approach before! I want my staff to feel they can make their own decisions without me watching over their shoulder, as it gives them more independence and ultimately more pride in their work.

What is the future strategy for the business?

The future direction of CAI is to continue to grow as it has done year on year and also continue to explore different areas of the ironmongery and electronic hardware industry that we aren't already involved with.

What challenges are you facing in the industry?

The issue that we will continue to find challenging is the internet and its ability to erode the margins we are able to make, meaning we have to run an incredibly tight ship

What will also be interesting is to see how the industry evolves with the CE marking of internal doorsets.



SILENCE OF THE JAMBS

Michael Spoors on the acoustic performance of doors and sound standards

Doors and seals have to comply with certain requirements oors with an acoustic rating are being increasingly specified in commercial, healthcare, education and industrial settings, as well as residential. But the performance of an acoustic door is only as good as its seals. Ordinary fin or brush seals simply will not do the job of blocking sound from passing through the gaps around the door. Michael Spoors of Norseal runs through some of the issues to consider when scheduling acoustic door seals.

It is not only the obvious places that need attention paid to acoustics: recording studios, home cinemas, and the like. It is increasingly common to use acoustic engineering in residential apartment properties and other settings where sound can affect the environment and quality of life of the users and residents. Sound can be transmitted through almost any medium – solids, liquids or gases. Inside a building sound can travel through the structure itself - from building work or footsteps on the floor above – of through the air – from a crying baby or loud party for example.

In education settings for instance, comfortable sound levels are one of the primary conditions necessary for an effective learning environment. If there are background noises or a high decibel rating inside a classroom, students could struggle to hear adequately, or may find discomfort from straining to hear. It's also easier

to become distracted. As such, acoustic design is an important aspect of the government's regulations for school buildings: "Each room or other space in a school building shall be designed and constructed in such a way that it has the acoustic conditions and the insulation against disturbance by noise appropriate to its intended use." These requirements within the Building Regulations apply specifically to teaching and learning spaces where the permissible upper limit for indoor ambient noise levels in a classroom, teaching area or small group room are 35dBA for a new build and 40dBA for a refurbishment. However, consideration may also be applied to adjoining areas that may

impact on learning environments like corridors or meeting areas.

The acoustic performance of doors is also increasingly in the spotlight for door schedules in office environments. Regulations to control noise in the workplace state that employers should consider the design and layout of workplaces, workstations, and rest facilities to reduce noise. But more than just meeting minimum regulatory performance levels, studies have shown that well-designed sound environments in offices help to improve concentration and enable better communication. In office environments, privacy is also a key issue driving the acoustic insulation of workspaces.

Getting loud

When sound is generated, the 'loudness' refers to sound pressure and is measured in decibels (dB). When sound strikes a surface. some will be reflected, some will be absorbed and converted to heat, and some will pass through the structure, losing energy as it travels. The decibel scale is logarithmic rather than linear, going up in powers of ten so every increase of 10dB on the scale is equivalent to a doubling in sound loudness to the human ear. For example, a 40dB sound is twice as loud as a 30dB (40-10) sound and for context, 20 dB is a soft whisper, and 100 dB is a pneumatic drill.

Acoustic engineers will measure the time it takes for sound pressure to drop by 60dB and this is called reverberation. The quicker the pressure drops, the 'deader' a room will sound. So for instance, if the pressure reduces by 60dB in less than 0.3 seconds the room will sound 'dead' but if this takes more than five seconds there will be an echo. Optimum reverberation time depends on use of space: one second might be ideal for clear speech in a lecture hall, but 3.5 seconds would provide fuller and richer music sounds. In general, acoustic engineers will try and tune a space to reverb between 1.5 - 2.5 seconds.

The other issue of concern to acoustic engineers is the influence of sound created outside of the measured

THE STANDARDS

Approved Document E of the Building Regulations includes acoustic requirements for certain door types:

- Rw.29dB for Entrance doors to residential units
- Rw.30dB for Classroom and lecture areas
- Rw.35dB for Music Rooms

Acoustic door seals need to be tested with:

● BS EN ISO 10140-2 & BS EN ISO 717-1, the harmonised European standards for measuring the sound insulation of building elements.

Sound attenuating doors are tested at an independent test facility where they are subjected to consistent sound waves across the whole spectrum of frequencies. The average result is then adjusted in a standardised manner to compensate for the fact that human hearing is not sensitive to every sound and frequency. Every acoustic doorset has different characteristics at different frequencies so it is not a simple case of simply selecting the door with the highest acoustic

rating. Speak to your door seal supplier about the right solution for a particular door set in a particular setting.

Acoustic seals can provide multiple functions on a door and therefore should comply with the requirements of:

- BS 476-31.1:1983 -Methods for measuring smoke penetration through door sets and shutter assemblies.
- BS 476-22 Methods for determination of the fire resistance of nonloadbearing elements of construction.

Third party schemes also give scope for the use of acoustic seals

 BM TRADA Q-Mark and Certifire schemes can provide additional reassurance that your products are fit for purpose through on-going compliance to the original product specification.

Building Regulations Approved Document M - Building regulation in England to ensure that people are able to access and use buildings and their facilities.

Sound can - and will escape from the tiniest gaps: a door open 1% will let 50% sound through it."

space, and the ability of a building to minimise the transfer of external sound through a structure. This is referred to as sound attenuation and it is the measure that generally applies to structures between spaces such as walls, windows and doors. This is why acoustic doors are, in reality, sound attenuating doorsets. Within the range applicable to most doorsets, when measuring sound reduction, an Rw.3dB variation in performance may be taken to be a doubling or halving of performance. For example, an Rw.36dB doorset provides for double the performance of an Rw.33dB doorset.

While the structure of sound attenuating doors is clearly vital, many are let down by the seals selected. Unlike air, sound can - and will - escape from the tiniest gaps: a door open 1% will let 50% sound through it and most soundproofing issues or noise leakage problems with doors are down to either a lack of the correct acoustic seal, or badly-fitted or damaged door seals which have gone unnoticed. Also it is common to find acoustic door seals fitted to just the head and jamb but the threshold which presents the largest gap – often has no acoustic seal fitted at all.

The UK industry standard of measurement is very precise. At an independent test facility, the door is subjected to consistent sound waves across the spectrum of frequencies and the average result is then adjusted in a standardised manner because the human ear is not sensitive to every sound and frequency: for instance, dogs can hear higher pitched noises than humans can. Human hearing also changes over a life time with younger people being able to hear different frequencies than older people.

Michael Spoors is the managing director of Norseal.



MAKING THE GRADE

Craig Birch outlines what the new grade 5 for BS 8607 includes, why it has been introduced and the benefits that it can help deliver



t present, mechanically operated push button locksets are not typically security products, but rather access control ones. For example, think about the last time you went to your local doctor's surgery. No doubt there will have been a lock on the door behind the receptionist, protecting the sensitive information they hold: a demand that has become only more critical with the introduction of the new General Data Protection Regulation (GDPR).

However, the truth is that the lock protecting the restricted area in question is probably little more than a tubular latch. Essentially, it's not a security device, but rather one that is used for convenience to simply meet

the access control needs of a site. However, BS 8607 – a standard for mechanically operated push button locksets – offers a series of grades that these locks can meet for strength and robustness. Introduced only recently, grade 5 is the newest and most stringent level for delivering assured security and access control. But what does it offer that grade 4 does not?

What is BS 8607?

The British Standards Institution (BSI) states that BS 8607:2014 specifies the requirements and test methods for durability, strength and function for mechanically operated push button locksets and their locking plates for use on doors, windows doors and entrance doors in buildings.

Both grade 4 and grade 5 of BS 8607 stipulate that products meeting these standards must be suitable for "applications where security, abuse and usage levels are expected to be equivalent to BS 3621", which relates to thief-resistant locks. But if the security, abuse and usage levels are the same, what then is the difference between the two grades?

What is the difference between grade 4 and 5?

Put simply, those rated as grade 4 can only achieve this standard with the help of an integral additional locking unit. So, with a grade 4 product, users must lock and unlock the solution from the inside with a key, and then operate the push button from the outside to unlock a door. In contrast, a mechanically operated push button lockset that meets grade 5 standards provides a 'one-stop' security and access control solution; one that does not require a separate locking unit. In short, with a grade 5 product the latch and lock are integrated and tested together, without the need for an additional key. The result is a solution that offers keyless egress. This means that, when it shuts, a grade 5 solution automatically locks. Then, should you need to exit a room, it's simply a one handle operation to unlock the door.

While it's intended that both grade 4 and 5 devices offer the same

Ultimately, users have to take responsibility and ownership for the security of a site. But with a grade 5 solution, security is assured as the door will lock automatically."

resistance to attack and it's simply the way it is locked that is different, the fact that a user has to physically lock a door themselves with a grade 4 product means the technology is reliant on key holders to secure the premises themselves. Ultimately, users have to take responsibility and ownership for the security of a site. But with a grade 5 solution, security is assured as the door will lock automatically.

Why has grade 5 been introduced?

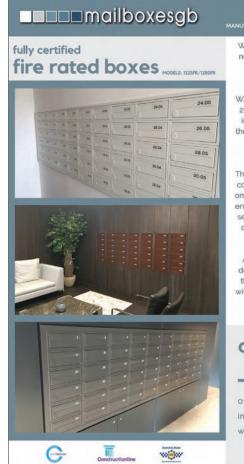
Essentially, grade 5 has been introduced because it provides a BSI Kitemark approved certification. This means any mechanically operated push button locksets advertised as meeting grade 5 standards will be fully tested and inspected to this certification, offering peace of mind to users, installers and specifiers.

As a result, there is no question that a grade 5 product will meet the security and access control needs that so many commercial environments demand. A grade 4 product is reliant on an additional locking unit that meets BS 3621 being used too, whereas a grade 5 solution delivers assured protection and access control in a single package.

Finally, the BSI Kitemark for a grade 5 solution is an official stamp of approval for the quality of the service offered.

To date, it is this combination of security and convenience that has not yet been seen in mechanically operated push button devices. Grade 5 of BS 8607 looks set to change all that. ■

Craig Birch is product category manager at UNION.



When fire safety is key, look no further than to our range of fire rated mailboxes. Conforming to fire rating criteria specified by Warrington fire in BS 476 part 2: 1987, our mailboxes have intumescent lining to both the flap and door, providing a fire rating (integral) of 60 minutes.

The boxes come in a range of colours and sizes depending on your needs, to accent your environment stylishly, to offer security to the end user, and of course security for their mail!

All boxes have a lockable door, security lock and antitheft lip. They are supplied with 2 numbered keys and an option for engraved numbering.

contact us

01922 452111 info@mailboxesgb.co.uk www.mailboxesgb.co.uk



Opening doors to global markets

UL's European testing facility provides global market access for manufacturers of essential door hardware.

- EN Standards
- UL Standards
- BHMA (A156 Series) Standards

Test reports are usually delivered within two weeks.

UL.com





Quality is in the detail: why compromise on your hardware

For the best in architectural hardware and to learn more about our new online product builder get in touch today!

Award-Winning Portfolio







NEW! Online Product Builder

With over 45 years in the architectural ironmongery sector,
John Planck Ltd. HAF International and Monaghan Hardware
are masters of translating
the skilful craft of ironmongery into stunning designs.
Our work ranges from the practical
to truly bespoke ironmongery creations,
and now with our new online product builder,
we've made it even easier for you to specify the right
products for your project.
Experience the difference: visit our website johnplanck co.u.







he Internet of Things (IoT) is becoming increasingly prevalent worldwide throughout a vast array of applications. It is also currently sparking huge interest among the architectural ironmongery industry. The recent CPD presentation written by GAI on this topic attracted record attendances across a large number of IAI Branches during its recent tour and encouraged much debate amongst those attending. The CPD on this topic has also now been approved by RIBA and is available to GAI member companies to purchase and deliver amongst the wider architectural industry.

This article will detail some background to the IoT, its integration into smart homes and smart buildings as well as some newer product areas which have opened up due to this technological development. It will also look at some potential future trends for IoT within the ironmongery and construction industry.

Definition and background

IoT is a system of 'things' or interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or humanto-computer interaction.

Increasingly, organisations in a variety of industries are using IoT to operate more efficiently, better understand customers to deliver enhanced customer service, improve decision-making and increase the value of the business.

Kevin Ashton, co-founder of the Auto-ID Center at Massachusetts Institute of Technology, first mentioned the internet of things in a presentation he made to Procter & Gamble in 1999. Wanting to bring radio frequency ID (RFID) to the attention of senior management, Ashton called his presentation "Internet of Things" to incorporate the cool new trend of 1999: the internet.

Although Ashton's was the first mention of the internet of things,

Manufacturers within the ironmongery industry are now providing a number of new product solutions for the smart home"

the idea of connected devices has been around since the 1970s, under the names 'embedded internet' and 'pervasive computing'.

Smart homes

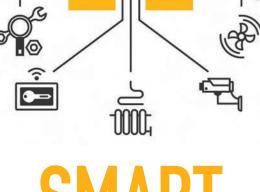
The smart home (also known as the connected home), uses modern automation systems to provide a practical way of controlling electronic devices in the home. Smart home technology can include all smart appliances (washers, dryers, refrigerators, etc.), safety and security systems (internet-connected sensors, monitors, cameras, and alarm systems). and energy equipment such as smart thermostats and smart lighting.

Manufacturers within the ironmongery industry are now providing a number of new product solutions for the smart home including:

Smart door locks means a home can be secured without the need to carry kevs. The door can be opened in a variety of ways, including a PIN code, remote fob, or even a smartphone when connected to a smart home system.

Home view cameras which link wirelessly to an Internet connection, allowing homeowners to check their home when they're out and which provides the ability to view footage anywhere in the world using a smartphone, tablet or PC.

Smart home alarms which allows the system to be armed or disarmed from anywhere through a smart phone. >>>



THINKING

The Internet of things is spreading rapidly throughout all aspects of life and the ironmongery industry is not exempt.

Douglas Masterson reports

Smart buildings

Smart buildings are sometimes referred to as 'automated buildings', 'intelligent buildings' or buildings that incorporate smart technology. At its most basic level smart buildings describe buildings that include a number of technologies which can all be integrated into one building.

As with smart homes, they centre on the use of interconnected technologies but on this occasion use this to make buildings more intelligent and responsive, ultimately improving their performance.

Again, the ironmongery industry has responded to requirements for new products which will integrate seamlessly into the smart building. Some of these product solutions include:

• Smart digital locking. It is now possible to generate time-sensitive codes which can allow temporary access through digital locks. Short, medium or long-term codes for a specific date, time and duration can be set and generated via an app or online and codes can be sent via email or SMS. Using an audit trail, it is also possible to view a lock's history including which codes were used at what time.





• Smart Locking and access control. It is also possible through an intelligent combination of electronics, mechanics and wireless technology to have an access control system which uses smartphone application. This technology can provide unique identification for every opening through encrypted communication. A cloud-based web manager allows

the ability to change access rights

- anytime anywhere required.

 Building automation systems.
 There is a management system available which intelligently integrates door, window and safety technology. The interface module allows integration of emergency exit systems, smoke and heat extraction systems, hold open door systems and automatic doors. It can be used as an independent building automation system (stand-alone solution) or integrated into a higher-ranking building management system.
- Virtual reality. New virtual reality technologies are being utilised to engage with customers. New technology allows the customer to digitally experience the usability of ironmongery products within a virtual world. This will illustrate where and how a range of products can be used with their solutions displayed in a 3D environment from a user's perspective and is all accessible via an app.

Future trends

IoT will continue to greatly influence the way the world works and operates, and the construction industry is no exception. The following are some of the ways in which this will enhance the construction industry in the future:

• New standards. New products will require new sets of industry standards to be drafted and published. One example is mechatronic devices have a set of BS EN standards specifically for this product arena which have been developed by the industry. These standards include BS EN 14846 for Electromechanically operated locks; BS EN 15684 for Mechatronic Cylinders and BS EN 16864 for Mechatronic padlocks.



Douglas Masterson

loT will continue to greatly influence the way the world works and operates, and the construction industry is no exception"

There is also a new standard for mechatronic door furniture prEN 16867 which has been drafted and is due for publication in 2020. In addition to this, BSI have now introduced a Kitemark Scheme which is designed to help consumers confidently and easily identify the IoT devices they can trust to be safe, secure and functional.

BIM push

Building Information Modelling (BIM) is highly Internet of things reliant. Using BIM, it is possible to create a fully integrated digital model of a building thus assisting with clash detection, life-cycle costs and facilities management post completion. There will continue to be an increased emphasis on the use of BIM within the construction industry going forward. One of the drivers for this will be as a result of one of the recommendations of the Building a Safer Future Review of Building Regulations and Fire Safety Hackitt Report by Dame Judith Hackitt. This was commissioned by UK Government following the Grenfell Tower tragedy. In this report it states "The review recommends that for new builds, a Building Information Modelling (BIM) approach should be phased in".

Increased development of existing technologies will continue. This includes virtual reality which will allow for employee training in real-life scenarios such as life safety and will also allow e-commerce to be a much more interactive experience for the consumer. Artificial Intelligence will also increase as home hubs and equipment collect data on consumer habits and usage patterns. This will allow machines to 'learn' human behaviour and adjust themselves accordingly for better user interactivity.

Internet of Things is no longer science fiction, it is science fact. Its emergence and development will continue to have a marked impact on us in the ironmongery industry, both now and in the future.

Got questions?

Email: technical@gai.org.uk



Health Care, Education, Commercial, Residential. Whatever your project, we have products to suit all your required needs!

- Stock Master Suites
- Stock Keyed Alike Suite
- Bespoke Master Suites
 (Grand Master, Sub Master, Master Suites)
- Same Day/Next Day Dispatch (Dependent on Quantity)
- ♦ WC Bathroom Cylinder
- ♦ 45mm Single Turn Only
- Drilling & Tapping Service
- ◆ Special Size Requirements
- Door Numbering Service
- Powder coated cylinders available in over RAL 200 colours
- Free scheduling and door numbering service available to make things that little easier

Classroom /Anti Barricade Function

◆ Anti-Barricade

Clutch thumbturns designed for use on individual bedrooms and bathrooms within secure accommodation for mentally ill people, young offenders and similar. These products offer privacy to clients, while ensuring that staff can gain entry at all times in case of need. The clutch mechanism offers anti-barricade functionality: if the client attempts to grip the thumbturn to prevent staff operating the lock from the other side, the sprung clutch mechanism releases and allows the key to turn.

♦ Classrooms

Purpose:

• The Classroom Cylinder allows the door to be locked and unlocked from the outside using a key.

• For safety reasons the cylinder has a turn on the inside, which will only UNLOCK the door if an occupier has been accidentally or purposely locked in. This might be used in a classroom to avoid a situation where children have locked the classroom from the inside, necessitating a key holder to come and unlock the door.



TEL: +44 (0)1204 393 212 **FAX:** +44 (0)1204 52 17 52

E-MAIL: Enquiries@secure-arc.co.uk

WEB: www.secure-arc.com

■ @secure ARC

Secure ARC Ltd, Unit 33 & 36, Waterloo Industrial Estate, Bolton, BL1 2TN





NEW PRODUCTS>>>



NEW DOOR CLOSER OPENS MORE OPPORTUNITIES

Concealed door closer manufacturer Samuel Heath has launched a new controlled, concealed door closer for use with concealed hinges.

The new Powermatic Axis door closer has been designed to work with SIMONSWERK's TECTUS concealed hinge system.

Powermatic Axis is the culmination of close co-operation between both companies' technical and manufacturing departments, involving design, engineering and rigorous testing.

The door closer has been successfully fire tested to

BS EN 1634-1 for FD30 and FD60 fire doors and is CE marked, signifying its compliance with BS EN 1154.

It will also enable doors to meet relevant accessibility requirements stipulated by Approved Document M and BS 8300-2: 2018.

The cover plates of the closer, which conceal the adjustment fixings, are designed to match those of the hinge, both in shape and finish.

www.concealed doorcloser.com

CODELOCKS KEEPS IT SIMPLE

Codelocks has expanded its digital keyless solution range with the release of its new KitLock KL10.

The mechanical lock is ideal for schools and offices where the same code is repeatedly used.

Designed with simplicity in mind, the KL10 is durable and compact offering seamless access via a four-wheel code combination. Suitable for individual use, the KL10 is perfect for a wide variety of internal applications including lockers, cabinets and cupboards.

The KL10 can be retrofitted or installed on new doors. In the event of forgotten codes or new users, codes can be changed whilst the lock is still on the door. Master keys are also available to retrieve forgotten codes.

www.codelocks.co.uk

HOPPE (UK) BRINGS FLUSH SLIDING DOOR HANDLE TO UK

The trend for large patio door systems increases but to counter the often heavy, difficult to manoeuvre systems they carry, HOPPE (UK) has introduced a flush lift and slide door handle.

Lift and slide patio doors allow the use of larger glass panels than other types of door systems but, despite the additional weight, lift and slide door systems are much easier to use than traditional sliding doors.

By turning the lever handle to 180° panels lift completely off the track and slide open, with the push of a finger. The advanced running gear means that the doors are much easier to move, regardless of the weight. It allows movement of multiple inline panels that weigh up to 440kg.

To return the door to a stationary position, the handle is used again to lower the panel. The wheels are protected from excessive wear, and the panel weight creates a weather-tight seal.

www.hoppe.co.uk



ELECTRIC RELEASE FROM SECUREFAST

Securefast has added to its range of slimline AL900 with the ANSI style electric releases. Supplied with stainless steel short or long faceplates for use in a wide range of metal and trimber door applications. The AL900 release is designed to work with most leading brands of deadlocking night latch locks. With a holding force of 1000lbs the electric releases can be converted to fail safe or fail secure mode by the removal of a holding screw.

The AL900 has successfully passed a 60-minute timber door fire test and can be supplied with intumescent material.

www.securefast.co.uk



ALLEGION LAUNCHES NEW-GENERATION WIRELESS MORTICE LOCK

Allegion UK, a leading specialist in fire safety and security hardware, has launched a new generation of wireless mortice lock in the UK.

The Schlage LE mortice lock with ENGAGE™ technology has been developed specifically to extend electronic access control throughout the interior of a building, in addition to exterior doors, providing a single, secure locking device for the whole of a building.

Ideal for multiple commercial settings, as well as higher education institutions, senior living homes and medical facilities, the Schlage LE mortice lock is easy to install, connect and manage. The Schlage is low maintenance and has up to two years' battery life.

The UK launch comes after successful sales of the product in the USA when it launched in 2017.

Schlage LE wireless locks combine the lock, credential reader, door-position sensor and request-to-exit switch in a single unit. Crucially, there are no wires to run to the lock and no additional hardware is required.

Built-in Bluetooth® enables the LE wireless locks to connect directly to smart phones and tablets.



These locks are available in nine finishes, from aged bronze to satin chrome with antimicrobial coating, as well as a host of lever styles.

For advanced capabilities including networked realtime communication with the ENGAGE™ Gateway. LE wireless locks are managed with software

from physical access control software alliance members. Full details of LE integrations can be found at

www.allegion.co.uk

ASSA ABLOY LAUNCHES TRIO OF PRODUCTS

Three new products have been launched from the ASSA ABLOY stable.

The group has unveiled Openow, a new mobile solution for users of its SMARTair wireless access control system, the Triton² high-end master key solution and a new door closer.

Openow allows SMARTair users to open doors with their mobile phone and the Openow app, meaning access credentials can be granted, revoked and updated instantly, from wherever the user may be.

The new high-security, patented ASSA Triton²

cylinder platform is a highend master key solution with long life patent protection until 2036. It is suited to environments that require large and complex master key suites, such as hospitals and healthcare estates.

It is exclusively available through ASSA ABLOY's



authorised network of ASSA Vantage Partners. It can be integrated with ASSA CLIQ® Remote (5900 range). The platform exceeds requirements laid out in the BS EN 1303: 2015 standard. offering the grade 6, the highest level of key related security and it has been fire tested in accordance with BS EN 1634-1:2000. ASSA ABLOY also supplies an environmental product declaration (EPD)

The group has also put on to market a new door closer for user flexibility and fire safety for buildings in the healthcare, education and hospitality sectors.

The DC300G-HF is fully certified in its three modes; standard, free-swing and hold-open and all three fitting configurations; fig.1, fig.61 and fig.66 - offering peace of mind and convenience for building owners,

managers and installers. that they are legally covered.

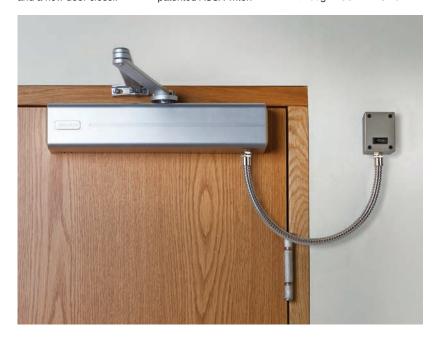
The DC300G-HF helps meet and surpass both fire safety and accessibility requirements.

The new door closer is CE Marked to EN 1154 and EN 1155 in all three configurations and also helps assist with compliance with opening forces laid out in BS 8300-2:2018.

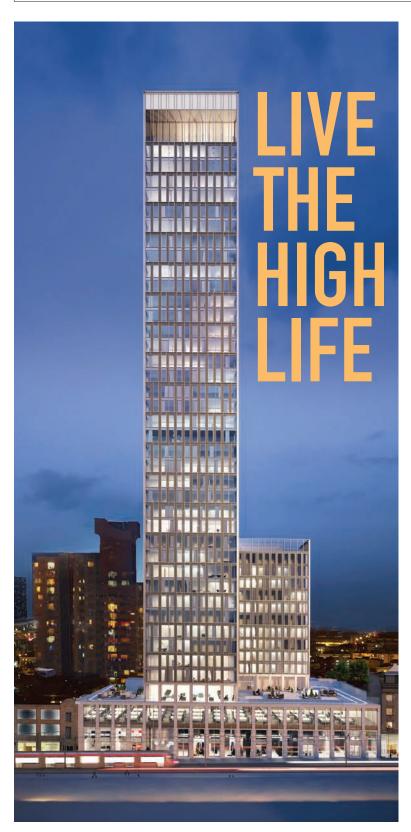
Developed, designed and tested in the UK for the UK market, the closer is also easy to retrofit and upgrade with no re-drilling required, so fire certification is not compromised. Wiring on the hinge side and a nonpolarity sensitive connection also makes wiring easy.

The SMARTair Openow app is free to download for from Apple's App Store and the Google Play Store.

www.assaabloy.co.uk







New skyscraper will include a rooftop running track

tanding at 42-storeys, The Mercian (formerly 2one2 Broad Street) is Birmingham's tallest consented residential tower. Currently under construction, the building will be a striking addition to Birmingham's skyline and serve as an important marker for the city. The £183m project helps underpin the regeneration around Broad Street and the wider area.

The 481-apartment building has been designed exclusively for rent for developer Moda. The Mercian will provide a range of apartment sizes, from studios to three-beds. Technology within the building will allow residents to organise their daily lives and manage the environment of their apartments through their phones, as well as enjoying a 24-hour concierge service.

The tower symbolises huge growth in the build-to-rent sector, which according to a Savills estate agency survey, Birmingham is set to outperform all other UK cities over the next five years in terms of investment.

The building will feature over 2,700 sq m of dedicated communal space including residents' lounge, health and wellbeing facilities and dining club; an additional 3,250 sq m of retail and leisure space in the three-storey podium and a 200 metre rooftop running circuit, offering panoramic views of the Birmingham skyline.

The bronze metal veil over the composed facade of the tower sits on the welcoming podium that embraces high-quality retail, managed workspace, a cycle hub and the main entrance for the residents.

It is due to be completed by 2022 in time for the Commonwealth Games in the city."

Technology within the building will allow residents to organise their daily lives and manage the environment of their apartments through their phones"

How The Mercian will dominate the Birmingham sky







Your access to compliant door control & safe specification

Fire doors require fire door compliant hardware and ironmongery to meet the British & European fire safety standards. Changing an approved specification has potential risks for buildings and resident safety.

At dormakaba, we focus on the importance of specifying the correct door closers for specific applications and we ensure that all of our high quality products are certified to help meeting the requirements of BS8300 (2010 Equality Act) in addition to the fire regulations.

dormakaba, your trusted partner for safety, certification & usability - helping you for the correct solution.

We support #firedoorsafetyweek



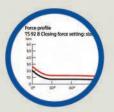


Fire Door Closer Checklist for Approved Specification











dormakaba UK & Ireland

T + 44 (0) 1462 477 600 info.gb@dormakaba.com www.dormakaba.co.uk