WINTER 2019

ARCHITECTURAL IRONMONGERY JOURNAL

CARBON COULD HOW GREEN IS THE DOOR HARDWARE INDUSTRY?

inside

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DORMAKABA GOES TO CHURCH

Security and access solutions provider, dormakaba, has delivered a range of bespoke products to Holy Trinity, a parish church located in Sutton Coldfield, West Midlands. The dormakaba team installed its Folding Sliding Wall (FSW) system within the under-gallery of the church, as well as brand new front and side entrance doors. The access solutions were part of a wider refurbishment work to Holy Trinity. To ensure the church could make full use of the under-gallery area, dormakaba installed a bespoke version of its FSW folding wall solution – enabling the church to create either one, two or three rooms depending on requirements. dormakaba also Above and below: dormakaba's solution to creating flexible space and a new entrance in an old church



added a custom-designed logo onto each of the glass panels.

When expanded, the glass panels can create a maximum of three rooms which has enabled the church to better utilise the space; FSW can be expanded to create meeting rooms or completely folded back for larger events such as lectures and seminars, where maximum space is required.

Brian Woodcock, business development manager (new equipment Midlands) at dormakaba UK & Ireland, said the brief asked that Holy Trinity's original features and character were maintained. "The team was required to install the FSW walls onto six of the church's original wooden beams. As a result, we had to work to a detailed and thorough plan to ensure the original structure would not be damaged.

"When installing the FSW walls, the dormakaba team also had to make sure that all fixings were hidden – we were asked to make sure that, other than the glass panels, only stainless steel would be visible. This was to make sure that the visual impact of the new panels would be minimal."

As part of the conservation work at Holy Trinity, dormakaba also provided a bespoke entrance way. Using dormakaba MANET fixings and AP glass, the team was able to create a frameless swing door to compliment the building's original arch-shaped tower entrance way. In addition to the front entrance door. dormakaba installed a new main entrance to the church - this was also made from AP glass and MANET fixings to create a subtle yet stylish finish. Similar to the glass used for the FSW, the glass panels to the new entrance of the church also included custom designed manifestations.

AWARDS OPEN

Building Design's Architect of the Year awards (AYA) are open for entry. The AYAs reward practices responsible for the best overall body of work from the last 12 months. The entry deadline is 7 February. View the categories at https://awards.bdonline.co.uk/ categories-criteria-2020/

ARCHITECT SCHOOL CALLS FOR FIRE SAFETY COURSE

A proposed new course on fire-safe design could deliver a 'paradigm shift' in how architects create buildings, according to the head of the Bartlett School of Architecture.

The school, part of University College London (UCL), is developing the one-year master's programme with a view to welcoming its first students in September 2021.

Bartlett director Bob Sheil said the course was a result of watching the 'horrific' Grenfell disaster unfold and thinking through the questions it raised for the industry.

He said that for too long, the issue of safety had been approached as "an add-on or a rationalisation of something else that has already been proposed", but the programme would seek to bring these considerations into early design decisions. Sheil added: "What we are really proposing here is a paradigm shift and to think about safety in the early stages of design propositions as a positive contributor to good design."

The proposed course, which is yet to be approved by UCL, will have an intake of about 20 students a year. It will be aimed at qualified architects or people working in other areas of design, and be offered on both a fulltime and part-time basis.

The curriculum will cover issues such as escape routes, fire separation and how and where to introduce fire suppression systems like sprinklers.

Last year, proposals outlined in the Hackitt report on building and fire safety regulations suggested that the Architects Registration Board (ARB) should assess the competency level of architects in relation to fire-safety design issues for higher-risk residential buildings.

Sheil said the proposed new programme was not a reaction to



regulation. But he said the Bartlett recognised that the issue of fire safety was increasingly being talked about in the mainstream and that there was a 'vacuum' on who would lead on it.

The Bartlett is looking to gauge the level of interest in its fire-safe design course and has launched an online survey to collect feedback.

The Bartlett School of Architecture

INTERIOR DESIGN AWARD: WHERE ARE THE DOOR HANDLES?





The annual SBID International Design Awards 2019 announced its winner at a ceremony in London. The prestigious awards showcases interior design projects in 15 categories from across the globe.

The Awards are evaluated by leading industry experts for their technical content and aesthetic creativity while the design-conscious public also has a say in choosing the most inspiring projects. This year's overall winner was a unique home in Quintana Roo in Mexico. Designed by Roth Architecture, the Uh May residence was built in the middle of the jungle. A truly organic shape the space has no sharp edges or any ironmongery! **View all the finalists at** www.internationaldesignexcellence awards.com/winners/2019/

The Uh May jungle home in Mexico





PADDINGTON DEVELOPMENT: "AN OFFICE WITH AN EDGE"

An office and retail development in central London has used GEZE UK for a bespoke entrance solution.

Four Kingdom Street is the first of two office buildings to be completed at British Land's canal-side Paddington Central development. The nine-storey re-designed building has more than 145,000 ft of space near to Paddington railway station. With communal roof terraces and a roof garden with views over Little Venice and sporting facilities, including the highest basketball court in

ALLEGION STEPS UP AWARENESS OF FIRE SAFETY

Allegion UK, a specialist in fire safety and security products and solutions, took 533,321 steps towards raising £500 in aid of Fire Door Safety Week (FDSW) and The Fire Fighters Charity.

Using two treadmills, 35 employees from the Allegion UK

team took part in their corporate challenge to walk, run, jog or dance 500,000 steps in four days. During the challenge, the team joined forces with the West Midlands Fire Service (WMFS), who visited the Allegion offices in Aston, Birmingham, to help them achieve their goal.



London, it needed an entrance to complete an imposing aspect.

A tailor-made solution was devised with Focchi S.p.A., a leading company in the curtain walling sector, which was commissioned to execute an industrial aesthetic with city chic, created by architects Allies and Morrison.

GEZE UK worked with its German parent company to adapt its TSA 325 NT manual revolving doors to produce two, three-leafed, glass-topped entrances with extra height – the doors are 3.5m high compared to the standard 3m.

The doors have positioning drives which mean that after someone has walked through them, they continue to rotate until parked with the leaf wings close to the edges of the openings. The parking mechanism is driven by a motor installed beneath the floor.

The doors were installed within the line of the building to provide a flush frontage under the overhang of the first floor. Inside, the leaves of the revolving doors are powder coated to match the façade and echo the engineering/transportation elements of the design concept – a subtle nod to the heritage of the site - a former railway goods yard.

Between the revolving doors is a pass door powered by GEZE's Powerturn swing door operator.

This aesthetic was applied inside and out: each elevation features vertical and horizontal aluminium fins of many shapes and sizes which lend a bold aspect to Four Kingdom Street.

It incorporates a structural steel frame and rougher, industrial materials, not usually incorporated into commercial offices, which contribute to its personality. Focchi describe it as "an office building with a bit of an edge".

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LUXURY UNITES BAR DESIGN AWARD WINNERS

Spine in Beirut (left) and Alice & Fifty in Johannesburg (above) A bar in Beirut and a restaurant in Johannesburg took the top prizes at the annual Bar and Restaurant Awards. Spine in the Lebanon capital and Alice & Fifth in the South African city were the best overall bar and restaurant respectively.

UK category winners include Savage Garden in London, a Nandos in Swindon, The Botanist in Coventry and Hide in London, which won two awards. Dirty Martini in Birmingham scooped a regional gong.

Award categories include 16 'type of space' – such as 'biophilic design' 'fast casual' and 'in another space'. Other categories are by region with overall winners taken from across all categories.The winners were announced at a ceremony in Kings Cross, London. See all projects at https://restaurant andbardesignawards.com

SIMONSWERK

FIRE DOORS AND CERTIFICATION FOCUS OF PHASE TWO GRENFELL INQUIRY

The Grenfell Tower Inquiry is to set its sights on the testing and certification of building materials' reaction to fire, after it found that the refurbishment of Grenfell Tower was in breach of safety regulations.

A long-awaited report following the first phase independent public inquiry into the disaster, overseen by retired high court judge Sir Martin Moore-Bick, sets out in detail what happened on the night of 14 June 2017, when the Grenfell Tower disaster occurred.

The 1,000-page report found that the building's aluminium composite (ACM) cladding panels were the "principal reason" for the spread of a devastating fire that killed 72 people.

Moore-Bick said: "It was not my original intention to include in Phase 1 of the Inquiry an investigation into the extent to which the building complied with the requirements of the Building Regulations. However, as I have explained in Chapter 26, there was compelling evidence that the external walls of the building failed to comply with Requirement B4(1) of Schedule 1 to the Building Regulations 2010, in that they did not adequately resist the spread of fire having regard to the height, use and position of the building. On the contrary, they actively promoted it."

Looking ahead to phase two, the report said its principal focus would be on the decisions that led to the installation of highly combustible cladding on a high-rise residential building and the wider background against which they were taken.

It added that one area of "particular concern" to be examined in phase two included the regime for testing and certifying the reaction to fire of materials intended for use in construction, as well as the design and choice of materials, and the performance of fire doors in the tower, in particular whether they complied with relevant regulations.

Hearings for the second phase of the inquiry – examining how Grenfell Tower came to be in a condition that allowed a tragedy of such a scale to occur – are set to start in January 2020.







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CHIMPS AND TIGERS SAFE AT TWYCROSS ZOO

The award-winning conservation charity Twycross Zoo has installed ASSA CLIQ® Remote system to help manage safety and security at the site's new £3.5m Chimpanzee Eden facility.

The new multi-storey habitat has been designed to replicate a wild environment, providing outstanding facilities for animal welfare, research, education and visitors. ASSA CLIQ® Remote was selected to help control who can access the three-storey building.

Based in Atherstone, Warwickshire, Twycross Zoo has worked closely with installer Rossells Locksmiths since 2016, when the ASSA CLIQ® Remote system was specified for the zoo's Gibbon Forest habitat.

The system has also recently been extended to a new tiger habitat at the zoo, housing two critically endangered Sumatran tigers, named Jahly and Sialang. These will live in a new state-of-the-art, multi-million pound habitat, which at 3,000m² is one of the largest purpose-built Sumatran tiger habitats in the UK. Providing an electromechanical locking system, the ASSA CLIQ® Remote solution uses high-end micro-electronics and programmable keys and cylinders to offer Twycross Zoo flexible control over access rights. The zoo can programme and update each key remotely, removing or granting access privileges for the key holder in real time.



ARCHITECTURE SHOW GETS GREEN

Architecture @ Work is taking a theme of Sensory Design, Acting Natural: new ways in which architecture and the environment converge, for its 2020 event in London. Taking place on 29 & 30 January at the Old Truman Brewery the event will include an exhibition and a programme of talks.

NORSEAL REACHES DOUBLE DECADE

Door seal specialist Norseal has recently celebrated 20 years in business.

Norseal began supplying a small range of smoke and fire door seals from premises in the North East of England. Since that time the company has grown its product and service offering to make it one of the largest stockists of acoustic and intumescent products in the UK and now part of the European Athmer Group.



LORIENT IN RUNNING FOR WEB AWARD

Lorient has been named a finalist for the 2019 Construction Marketing Awards (CMA) for the Best Use of Website category.

The CMA showcase the construction industry's creativity, innovation and effectiveness in marketing. Lorient, which celebrates its 40th anniversary this year, was shortlisted for its new webstite which launched in March.

The Awards are endorsed by the Chartered Institute of Marketing Construction Interest Group (CIMCIG).

The winners were announced on the 28th November as AIJ went to press.

CORRECTION:

In the Autumn 2019 issue of AIJ the Samuel Heath web address was incorrect. It is www.concealeddoorclosers.com

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GAI TALK

ANGIE CORKHILL

You would need to have been living on another planet not to have noticed Greta Thunberg or to have heard what she is saying about our planet.



Like her or loathe her, her message is incredibly powerful: act now to reduce carbon emissions before it is too late for our children and the generations to come.

So what is our response to this? What has a Swedish teenage environmental activist on climate change have to do with us?

I'm hoping to spend some time next year really understanding the GAI membership's views on the environment and where we believe we should and could do more to help mitigate climate change.

Many of our stakeholders have declared a climate emergency and are taking this issue incredibly seriously. For example, 'Architects Declare' is an initiative that has gained the support of many designers and specifiers of our industry products, including 17 RIBA Stirling Prize-winning practices. As its manifesto says: "The twin crises of climate breakdown and biodiversity loss are the most serious issue of our time. Buildings and construction play a major part, accounting for nearly 40% of energyrelated carbon dioxide (CO₂) emissions whilst also having a significant impact on our natural habitats.

"For everyone working in the construction industry, meeting the needs of our society without breaching the earth's ecological boundaries will demand a paradigm shift in our behaviour."

Within the wider business community, the CBI has also laid out the scale of the challenge:

"To tackle the climate emergency in the time we have, we need to go faster, and further, than ever before. The next 10 years will be crucial. With the tech advancing so rapidly and costs falling, the goal of a net-zero future is achievable," it says.

For door hardware manufacturers and for architectural ironmongers, we know that our advice and activities do have a tangible effect on the environmental performance of buildings. But I also suspect we could do more to measure that effect and to improve our own industry's carbon footprint. I look forward to exploring this issue with you further in 2020. See our cover story on p16 for more on this issue.

Angie Corkhill Director

NEW IRONMONGERY GUIDES SIMPLIFY SPECIFICATION

The GAI has launched five new guides on architectural ironmongery for different applications.

Each guide contains comprehensive product information, diagrams and detail on the relevant building regulations and industry standards.

• The Specifier's Guide to Ironmongery and Security helps specifiers to navigate security issues relating to doors.

The guide covers mortice locks, the different shapes of cylinders and how they work within a master key system, and electronic locks that can be used as part of an access control system.

It provides an in-depth look at PAS 24, Approved Document Q, relevant British and European Standards and industry certification schemes. The guide has been endorsed by Secured by Design, the official UK Police security initiative.

• The Specifier's Guide to Ironmongery and Accessibility outlines the best practice guidelines of accessible and inclusive design. As well as covering all of the relevant ironmongery, the guide includes information on the dimensional guidelines required for lever and pull handles, locks, keys, thumb turns and handrails to be compliant with BS 8300.

It also covers specifying ironmongery and signage that has strong visual contrast and light reflective value (LRV) to assist those with visual impairments to meet BS 8300 guidelines, as well as legislation that applies specifically to this area of architectural ironmongery. This includes the Equality Act and guidance documents to building regulations on accessibility throughout the UK and Ireland, including Approved Document M.

• The Specifier's Guide to Ironmongery for Specialist Applications helps specifiers choose the correct ironmongery solutions for specialist applications in public buildings such as schools, care homes and hospitals.

The guide gives information on accessibility regulations and covers more specific hardware solutions such as anti-ligature hardware, anti-microbial door furniture, finger protection and specialist signage.

The Specifier's Guide to Ironmongery for Fire and Escape Doors emphasises the critical role of fire and escape doors and the importance of correctly specified architectural ironmongery. It explains different types of fire and escape doors and details the corresponding essential ironmongery, seals and signage including the standards that they must adhere to. It also contains a useful guide to the guestions that need to be asked when specifying hardware for escape doors, as well as further guidance on fire door inspections and ongoing ironmongery maintenance.

Download the guides for free at www.gai.org.uk/GAISpecGuides



GAI RESPONDS

In October, the GAI submitted its response to the Raising the Bar interim report consultation. This represents an important next stage in the industry's work to address the questions raised by the Hackitt Review.

The Raising the Bar interim report sets out in more than 600 pages recommendations of each of the 12 working groups looking at competence in the building industry and associated technical disciplines, specifically the competence schemes for all people working on high-risk residential buildings (HRRBs). The GAI is a member of working group 12 on products. More than 150 institutions and 300 professionals contributed to the report. The GAI was the only voice to advise on the competency issues on behalf of the architectural ironmongery industry.

The main views of working group 12 included the need for product manufacturers, and those who work closely with them, to identify the skills and levels of competence needed by others to ensure proper use of their products in buildings – with the caveat that this also needed to be supplemented by input from architects, installers, building control and others.

This lays the ground for much closer working relationships between manufacturers and their customers and other stakeholders when it comes to product information and training.

The group also continues to work on a generic competence

framework using the acronym 'SAKE' – Skill, Attitude, Knowledge, Experience – and a matrix based on these criteria, linked to every stage of work identified in the RIBA Plan of Work.

In addition, the Raising the Bar report called for:

• A new oversight body – the Building Safety Competence Committee – which will monitor assessment processes, draw up a central register of duty holders eligible to work on HRRBs and continually drive improvements across the sector.

• Government to mandate individuals working on HRRBs to be registered/certified by a recognised professional/or certified body.

 All organisations, including professional bodies, carrying out the assessments and reassessments of an individual's competence to themselves be subject to a rigorous system of oversight by a body such as UKAS or the Engineering Council.

 The building safety regulator to hold and maintain a register of those qualified to perform the key roles with the advice of the Building Safety Competence Committee. And, additionally, to provide signposting to registers which should be held by the professional and trade bodies of those qualified and competent to work on HRRBs.
 The period of reassessment to

 The pended of reassessment to be no less than every five years.
 Common principles of CPD to be established for each sector, which the Building Safety Competence Committee should use to hold sectors to account.

• Fire safety CPD materials to explain basic fire science and to be available to anyone working on or managing HRRBs.

The GAI expressed its general agreement with the recommendations and, in particular, the push towards increased training and competence in the industry. It particularly highlighted competence among 'ad hoc designers' who bring different types of products together, such as door hardware on carpentry and joinery packages, or access control products as part of a M&E contract. It emphasised the critical importance of correctly installed ironmongery and fire doors, and welcomes any initiatives that raises competence in this area.

The GAI also spoke up strongly in favour of third-party certification, called again for mandatory inspection and maintenance of fire doors, and denounced the historic trend towards 'value engineering' being used to break product specifications.

It supports the recommendation for the creation of a new role of an Independent Construction Assessor. Similar to the Clerk of Works role, this role should help to improve the quality of installation.

For a copy of the GAI response in full please visit www.gai.org.uk/ IndustryUpdates

PRODUCT MARKETING TO GET CODE OF CONDUCT

A research report published by the Construction Products Association (CPA) and NBS at the end of October is shining a light on the current problems with the marketing of building products.

The CPA's Marketing Integrity Group was set up in 2018, bringing together representatives from product manufacturers and related organisations to address the demands in the Hackitt Review that the marketing of products must be more clear and easier to interpret.

The group received 524 responses to its call for evidence from manufacturers, distributors, specifiers and others in the supply chain. These responses laid bare the current processes of providing and using construction product information, and showed ways in which these could be improved to ensure that consistent, unambiguous and clear product information is available to all.

Respondents told how the quality of product information varies considerably. Most had also seen product substitution happening within the last 12 months. In more than half of the projects involving substitution, the substitution was not discussed and agreed among the project team, and the performance criteria of the replacement product were not compared to the original to ensure that they were equivalent.

The Marketing Integrity Group now plans to develop a set of recommendations for the industry, most likely including a code of conduct on the marketing of building products and a possible quality mark type scheme for manufacturers.

NEW FULL MEMBERS

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• Carpentry Trade Solutions (Pty) Ltd, South Africa nvironmental issues have received increasing attention in the press for some time and we're all aware of climate change, even if some people still deny its reality.

Many of the issues have been widely known about for decades and yet it feels like little has been done until recently. A few television programmes illustrating the extent of pollution in our seas appear to have made more of an impact upon society than years of scientists and activists explaining, campaigning or demonstrating.

In 1992. I visited the last of the national Garden Festivals which included three homes constructed to promote energy efficiency and sustainable features. Two of them were simply standard developer houses with higher levels of insulation and energy efficient fixtures and fittings, but the third had been purposely designed around simple solar principles to maximise free gains and minimise losses. This included a crooked plan orientating the main habitable rooms around the south facing aspect of the house with large amounts of glazing within these facades, receiving free solar heat with smaller windows on the north facades, thus reducing potential heat loss. Other features included a heat recovery system to reuse warm air from the kitchen and bathroom to pre-heat cold incoming air. This was 27 years ago.

How many of the national housebuilders implement these simple principles or features when designing and constructing their current homes? My experience when previously working on projects for some of them was the higher the density on site, the better. Consequently, orientating homes to benefit from any environmental gain was never

OPINION · PAUL REES

AN ARCHITECT TALKS



Construction isn't doing enough with sustainability, says Paul Rees

Even if you fill the building with efficient equipment such as sensor-operated LED lighting, low-flush toilets and cover it with solar panels you won't offset the energy needed to construct it" accepted because it reduced house numbers. Society's current demand for increased housing stock only supports this philosophy. So the damage continues.

Equally questionable are the construction methods now used; still building in the traditional way. using concrete blocks and bricks which require large amounts of energy to create them, resulting in high levels of embodied energy. This is multiplied when you consider larger commercial buildings which are usually constructed with concrete or steel based materials. There is also the potential that the energy used during manufacturing, transportation and construction will outweigh any benefits the building's design provides. Even if you fill the building with efficient equipment such as sensor operated LED lighting, low flush toilets and cover it with solar panels, the chances are it won't offset the energy needed to construct it. However, there are more natural alternatives that could be used. like timber or stone.

When the technology used in that festival home 27 years ago is now more efficient, smaller and cheaper, surely we should be asking why aren't more buildings refurbished using it, instead of using more energy to demolish them, transport the spoils and then construct a new one?

How can we expect any significant change when it seems that it's mainly one-off home owners or the smaller developers who are bold enough to "break the mould" and address these issues? Is it because there is more reward to them by way of quality of life or ability to sell bespoke sustainable solutions? Whatever the answer, the environment needs a lot more of these people. ■



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NEUTRAL?

Climate change issues have reached fever pitch. But how seriously is the architectural hardware industry taking its responsibilities for sustainability? **Nicky Roger** investigates n architectural practice announced this Autumn that it would be the first UK architectural firm to join the UN Climate Neutral Now initiative to hit net-zero. This move binds the studio to measure, reduce and offset greenhouse gas emissions now, not in the future.

As a signatory of the UN-backed initiative, Assael Architecture must calculate and disclose the current carbon footprint of the practice, including international air travel, and show a clear pathway to reducing it year on year. The current carbon emissions of the practice are then offset financially using UN certified emission reductions (CERs), where Assael Architecture can choose specific projects to support – the practice chose the creation of a hydroelectric power station in Chile.

The UN certified CERs are carbon credits generated by climate-friendly projects vetted by the UN following rules approved at intergovernmental level and with international oversight, providing a high level of credibility to the offsetting regime.

To help bolster the practice's fight against climate change domestically, Assael has been rolling out a range of initiatives internally to help curb its emissions. These include achieving and maintaining the IS014001 certification, sourcing their food and drink locally to reduce food miles, supporting staff cycling schemes, experimenting with the roll out of vegan and vegetarian meals, encouraging international video conferencing over international flights and extending the audience of their annual Green Week, where industry leaders gather at the Assael offices to discuss sustainability.

Rory O'Hagan, director of Assael Architecture, said the move was vital strategy. "It's our duty as a business to set an example to our staff and the communities we operate within. We want our clients to know that our activities will not contribute to their carbon footprint and that sustainability is embedded into everything we do as a practice, including design, and not bolted on as an afterthought.

"By making the UN Climate Neutral pledge, we are committed to being a Net-Zero Carbon organisation now, not in the future. We are providing a clear path for other businesses to follow."

Trail blazers

It's an undeniably admirable initiative but is this attitude and action spilling over into the supply chain? At Turnstyle Designs it most definitely is.

Steve Roberts, the managing director, says the firm has been an environmentally conscious business from the outset, but "have really been ramping it up just recently to try and deal with every detail".

"All businesses have a responsibility to treat sustainability not as a luxury but as an essential part of their business planning," says Steve. "It should be factored in and challenged at every level of business. Transportation, travel, manufacturing, packaging, energy, marketing, sales and training – sustainability should be considered at every step."

Easier said than done sometimes, though says Steve. "I have learnt from experience in two separate businesses, that to identify, source, change and pay for these essential improvements takes time. I believe that most business owners genuinely want to improve their business's green credentials but finding the time for it on top of an already heavy work load is often very challenging. The only way that this will happen therefore, is to treat it as an essential part of business: one would not sideline marketing or product development for example, and so sustainability has to have the same level of priority as any other part of running a business."

Turnstyle Designs has recently completed a plastic purge and replaced 99% of plastics in its packaging with biodegradable alternatives, right down to the tape. "This has not been easy and has come at a small increase in cost, which is to be expected until the packaging industry gets fully on **»**



All businesses have a responsibility to treat sustainability not as a luxury but as an essential part of their business planning"

Steve Roberts, Turnstyle Designs

Work from Turnstyle where sustainability is a serious strategy



GAI EDUCATION

Develop your staff and company with the GAI's internationally renowned and respected education programmes. The best place for those in the architectural ironmongery industry to learn with a range of online training resources.

Foundation in Hardware

The Foundation in Hardware module is intended to provide a basic knowledge of the subject of architectural ironmongery to enable the learner to go on to further study in that field.

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GAI Diploma

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

CPD Programme

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

Fire Door Inspection Scheme (FDIS)

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

Find out more at gai.org.uk/education

Firstly we try to specify British manufactured products to reduce the impact of products being transported huge distances from elsewhere in the world"

Julian Newman, Oxford Ironmongery

board and offers us more alternatives." Steve says. The company is also encouraging staff to come to work on bikes or foot (it has set up its own 'buy a bike scheme' having found the government scheme not up to scratch); is working with suppliers to improve processes and materials; it uses solar energy and buys the balance from renewable sources and is trying to cut back on flights. It has also signed up to a carbon balancing scheme to plant or protect trees. "We calculate every part of our carbon footprint including delivery, in fact we are doubling our contribution to make us carbon negative in effect," adds Steve. "We have also signed up to 1% for the planet, donating 1% of our turnover to smaller action based environmental charities.

"At the end of the day we are manufacturers so we cannot help but do some damage to the environment, what we are trying to do is minimise that as much as possible."

This laudable attitude is echoed at Oxford Ironmongery. "Oxford Ironmongery takes it's environmental and sustainability responsibilities very seriously," says MD Julian Newman. "We try to specify British manufactured products to reduce the impact of products being transported huge distances from elsewhere in the world. Within our building we are conscious of our energy consumption and use the appropriate lighting and heating. We reuse packaging and even offer to recycle our customers' old ironmongery."

At GEZE, sustainability is an important factor in day-to-day actions.



Meadowside in

Hampshire from

where nine new

houses combine zero-carbon

principles with

contemporary

design

Assael Architecture,

From product development and production through to sales, it works according to the latest environmental standards. "Our aim is always to avoid making an environmental impact. We factor this not only into the development of new products, but also into all activities which may affect the environment. Certifications for our environmental system and for our products confirm this," says Andy Howland, sales and marketing director.

EPDs: to have or have not

Companies who supply to public sector projects in Germany are required to have EPDs. Whilst the use of EPDs is also mandatory in other European countries, this is not the case in the UK.

An EPD transparently communicates the environmental performance of a product or a material over its lifetime. If you are a construction engineer or an architect, you can easily compare the EPD data of the materials you are about to use and choose the most sustainable option. If you are a manufacturer, by certifying your product with this methodology you are making a positive value statement on the issues of climate change, carbon impact, and environmental footprint.

An EPD comes in the form of a document that certifies the environmental impact of a material. It is usually valid for five years, and is generated according to the relevant standards: construction EPDs are based on the ISO 14044 and EN 15804 standards. EPDs help to achieve EPD and LCA credits in the following certification schemes: LEED, BREEAM, DGNB, HQM, and others.

There are several types of EPDs that cover different lifecycle stages of a product. The creation and implementation of EPDs in construction projects and manufacturing is voluntary. However, with the emphasis on environmental impacts growing, the amount of EPDs and their use is rapidly growing. dormakaba has a number of EPDs available and on occasion, have been asked for these when securing project work, so it may pay to be prepared.

It is also a trend that will be regulated by legislative institutions. In the case of the EU, the legal act of Construction Products Regulation 305/2011/EU has been established. **>>>**





Architectural ironmongery is a vital part of the fabric of a building and we should always strive to make the industry more sustainable" Karen Trigg, Allegion

Karon myy, Alloyion

It regulates the marketing practices of environmentally friendly construction products and prescribes the use of EPDs to assess the footprint of the construction industry on the environment.

In the nearest future, the government structures of different European countries are going to pick up and address this trend, too. For example, Belgium requires the use of EPDs if a company is performing any environmental-related marketing. France is moving towards the general adoption of LCA requirements for the whole construction industry, while in the Netherlands it is already established. Northern Europe is also concerned with the global warming issue: Finland is currently creating a roadmap to include the building materials' impacts into legislation.

If not for the planet's sake taking advantage of the opportunities of EPDs is worth it if you strive for a positive differentiation and a competitive edge over your competitors.

The GAI produced a CPD presentation on EPDs in 2016 which was presented around the IAI branch network. This clarified the difference between EPDs and lifecycle assessment. Information on EPDs is also included in its latest RIBAapproved CPD on Ironmongery and the Environment. However, Douglas Masterson, technical manager at the GAI, is keen to dispel some myths about EPDs. "An EPD is not a seal of approval. It is an independent verification, not assurance of reaching a standard. Even radioactive waste could have an EPD! It is much like a nutrition label."

However, Douglas adds, EPDs are becoming currency with contractors as they will count towards points for a BREEAM rating.

Becoming sustainable isn't just about EPDs, biking to work and drinking sustainably-sourced coffee in non-plastic cups though. Karen Trigg, business development manager at Allegion UK, says as well as taking action there is a mindset that needs to make a paradigm shift.

"When we think about sustainability we tend to explore ways of reducing our carbon footprint and reduced packaging. As individuals, each and everyone of us should be looking at ways to reduce our waste, but as a manufacturer we should be looking further into the future. This way, we not only look at what is being done today, but also how we can manufacture without compromise to future generations.

"Architectural ironmongery is a vital part of the fabric of a building and we should always strive to make the industry more sustainable. Although seemingly small, even changes to packaging can have a huge impact, especially when you consider the vast volumes of products that are being distributed. To improve things further we must look at extending the life cycle of architectural ironmongery by increasing awareness on maintenance; moving away from the 'oh well I'll buy another one' mindset. As a manufacturer we are now producing products that should last the life cycle of a building. This enables us to not only reduce our carbon emissions today but to protect our future environment by reducing the need for repeat manufacturing, shipments and packaging."

Sustainability is a megatrend that will continue growing with each update to green building rating systems and as governments implement increasingly challenging requirements. Sustainable buildings provide safety, security, health and productivity for the people who live and work in and around them. Door openings can help facilities meet these increasingly stringent green building construction guidelines for building certification programmes along with codes and standards.



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THE TOMORROW PEOPLE

The industry celebrated its brightest and best at this year's GAI Education Awards

Below: This year's Diploma achievers. Top right: Ben Collins aka 'The Stig' from the BBC's *Top Gear*



AWARDS



he door and window hardware industry's rising stars were celebrated this month at the 40th annual GAI Education Awards. Held at the Royal Lancaster hotel, London, on November 7 2019, the awards celebrated the architectural ironmongery professionals who have achieved their GAI Diploma and recognised the highest achieving students. The awards were sponsored this year by ASSA ABLOY Opening Solutions UK and Ireland.

This year, exams were sat by 390 learners across all three stages of the GAI education programme. Students came from 26 different countries, with just under half of them based outside the UK. There has been a particularly high number of learners from United Arab Emirates (UAE), China and India.

At the awards, Gold, Silver and Bronze medals were awarded to the highest achieving students at the GAI Diploma level and there were also prize awards for the top three students from the Certificate in Architectural Hardware (CiAH) level.

This year, the Diplomas and awards were given to students by former Top Gear Stig, Ben Collins.

Dave Timson, technical sales director at Eurobond Doors, presented »

There are technical and regulatory changes everywhere and the way that we specify is evolving. It is important that we stay up to date and the GAI Diploma programme has prepared me for this" Bala Vignesh



Left: The Pinnacle Award winner Bala Vignesh



guild of architectural ironmongers



advancing architectural ironmongery

GAI RIBA Approved CPDs

The GAI have created four CPDs which have ben approved by the Royal Institue of British Architects. As they are RIBA approved this means that architects will be able to receive double learning points for attending a presentation of this CPD. These CPDs are now available to GAI membership to purchase at a cost of £300 plus VAT each

Ironmongery and accessibility

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

Specification of door hardware - an architect's guide.

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

Ironmongery for fire and escape doors:

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

The specifiers guide to access control

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

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



this year's Pinnacle Award to Bala Vignesh, specification consultant at ASSA ABLOY Opening Solutions Middle East.

Bala Vignesh said of his career and Diploma success: "I had been working in the door and ironmongery industry for eight years and wanted to get to grips with all the essentials of architectural ironmongery. I wanted to be able to walk into meetings with customers with confidence, knowing that everything I'm specifying is up to code and is the best choice of product.

"At the moment there are technical and regulatory changes everywhere. Locks are changing from mechanical to electrical, 2D drawings are becoming 3D models, and the way that we specify is also evolving. It is important that we stay up to date, and the GAI Diploma programme has prepared me for this."

Julian Newman, president of the GAI, said: "Why do these

qualifications matter so much? Trust and confidence in the UK construction industry has been hugely affected by the Grenfell Tower tragedy. Next year, the public enquiry will turn its attention to the <u>construction</u> industry.

"We may not have been directly involved at Grenfell, but the collateral damage will end up affecting us all, including UK businesses operating overseas. That is why it is important to act now to raise our standards and to upskill our workforce to show we're already making changes.

"The scrutiny of the skills, qualifications and competence of everyone in the building industry has never been higher, and each part of the supply chain needs to prove its worth. The GAI Diploma makes this possible in our sector. It is the only recognised programme in the world that leads to a qualification in architectural ironmongery to British and European standards." **»** I wanted to be able to walk into meetings with customers with confidence, knowing that everything I'm specifying is up to code and is the best choice of product"



Above: Delighted Diploma holders including Pinnacle and Gold winner Bala Vignesh in the centre with Craig Birch the Silver winner on his left. Left: Ian Tisdale, CIAH second place winner





The scrutiny of the skills, qualifications and competence of everyone in the building industry has never been higher, and each part of the supply chain needs to prove its worth. The GAI Diploma makes this possible in our sector"

The awards recognised the industry's rising stars at each stage in the GAI education programme.

While the Diploma is the primary qualification for professional architectural ironmongers, the Certificate in Architectural Hardware is particularly useful for those working in related warehouse and trade counter roles, procurement, scheduling and estimating, customer service, technical support, sales and administration. Comprising two stages with 24 online education modules, the Certificate covers the product knowledge required by these roles.

Following completion of the Certificate in Architectural Hardware, students can progress to the GAI Diploma. The Diploma builds on product knowledge and enables the writing of accurate hardware specifications and quotations. This qualification is particularly suited to those in customer service, contract management, scheduling and estimating, technical and sales. To become a full GAI member, a company must have at least one employee who has passed the GAI Diploma.

"It is so rewarding to see the students that you've taught collecting their Diploma and being celebrated by their industry peers," said Rachel Tipton, GAI training and development manager. "For those students enrolling for the 2019/20 course, we recommend face-to-face training in the final year, as it gives the opportunity to be taught by industry professionals. This year's classroom training course was attended by 35 students, 24 of which passed the final exam and two of those also went on to win the top prizes at the Education Awards."

Above: Michael Hunt the third place CIAH winner with 'The Stig' and GAI president Julian Newman. Below: Bernadeth Prometidos, GAI Diploma Bronze winner with her husband Matthew Prometidos



THE FULL LIST OF EDUCATION AWARDS WINNERS IN 2019

THE PINNACLE AWARD:

Sponsored by Eurobond Doors: Bala Vignesh, ASSA ABLOY Opening Solutions Middle East

THE GAI DIPLOMA:

Gold – Bala Vignesh, ASSA ABLOY Opening Solutions Middle East

Silver – Craig Birch, ASSA ABLOY Opening Solutions

Bronze – Bernadeth Prometidos, Consort Middle East LLC

CIAH PRIZE WINNERS:

First place – Andrew Marshall, ASSA ABLOY New Zealand Second place – Ian Tisdale, Carlisle Brass Third place – Michael Hunt, More Handles





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WHEN IRISH EYES ARE SMILING

Nicky Roger profiles Grafton Architects, this year's winner of the highly-prized Royal Gold Medal for Architecture

Vonne Farrell and Shelley McNamara, co-founders of Grafton Architects, are the first all-woman pair to be awarded the RIBA Royal Gold Medal for Architecture.

They are the fourth and fifth female architects to have won the prestigious award in a partnership. There has still only been one woman – Zaha Hadid – named sole winner of the RIBA Royal Gold Medal in its 171-year history.

"Grafton Architects are impressive role models," said Alan Jones, president of the Royal Institute of British Architects (RIBA).

"Their work, philosophy and ambition are of profound importance, not just in their home country and the UK, but across the globe. They show us all how architecture, practised humbly and humanely, can make the world a better place."

Approved personally by the Queen, the Royal Gold Medal is the highest architecture honour in the UK, recognising people who have had a significant impact on advancing the industry.

Last year women's action group Part W put together an alternative winners

Opposite, clockwise from top: Universita Luigi Bocconi in Milan; Trinity College, Dublin; University Campus UTEC, LIma. Below: Yvonne Farrell (left) and Shellev McNamara list of worthy female architects to counteract the overwhelmingly male list of past winners of the Royal Gold Medal.

"We are delighted the 2020 RIBA Gold Medal is being awarded to leading female designers, and too is being awarded co-jointly to Yvonne Farrell and Shelley McNamara, reflecting the fact that production of architecture is a collective activity," said Part W founder Zoë Berman.

In the past RIBA defended its record, with former president Jane Duncan saying: "In the future there will be many more female winners, but we are now looking backwards unfortunately and there are some fantastic men that actually ought to be winning the Royal Gold Medal."

Farrell and McNamara called the news that Grafton Architects is to receive the 2020 RIBA Royal Gold Medal, "a very special and happy moment in our lives."

"Like architects around the world, everyone in Grafton Architects works hard to give each project the attention needed to hopefully enrich people's lives. For us, architecture is an optimistic profession, with the opportunity to anticipate future realities," they added. "It is of the highest cultural

importance because it is the built

enclosure of human lives. It translates people's needs and dreams into built form, into the silent language of space."

Grafton Architects will be presented with their medal at a ceremony in early 2020.

A lasting relationship

Many press interviews with Farrell and McNamara refer to their obvious chemistry and their friendly interplay which reveals a working relationship that goes back to the early 70s when they were students together at University College Dublin.

The pair co-founded Grafton Architects in Dublin in 1978, with Gerard Carty and Philippe O'Sullivan joining as directors in 1992. In 2008 the practice won the World Building of the Year award for its design for the Universita Luigi Bocconi in Milan which is widely acclaimed and recognised as a seminal contemporary work. Its campus for the University of Limerick Medical School was shortlisted for the 2013 Stirling Prize.

In 2016 Grafton Architects won the first ever RIBA International Prize for a campus for Lima's specialist engineering university (UTEC) in Peru, where they designed a vertical concrete campus with a series of landscaped terraces and grottos.







That same year they won the contest to design a new LSE building in London, seeing off competition from firms such as AL_A and David Chipperfield Architects.

In 2012 their practice was awarded the Silver Lion for most promising practice at the Venice Architecure Biennale. They returned in 2018 as curators for the event, where they invited participants to muse on the theme of Freespace, their clarion call for architects to be generous with their designs.

'Generosity' is a common theme for them. Almost all their current projects, including university buildings in Toulouse, Kingston upon Thames and the London School of Economics, include big, accessible, nonprescriptive spaces. They also talk of flows and movement, of people, air, light and atmosphere. Their plans for



a new city library for Dublin will (they say with the natural imagery they often use) "let the city wash through the ground floor".

"Sitting under a blossoming cherry tree is as happy an architectural space as you'll find," they told the Guardian in an interview.

Practise and preach

In their homeland of Ireland, Farrell and McNamara have been appointed as cultural ambassadors. The Minister for Culture, Heritage and the Gaeltacht, Josepha Madigan T.D., announced the appointment of five Cultural Ambassadors – all new positions which see see high-profile figures from Ireland's arts and culture community promote Ireland globally as part of the Government's Global Ireland 2025 initiative. As well as their practice attracting

HARD GRAFT: THE PRACTICE'S PROJECTS

Head Offices, Electricity Supply Board, Dublin

Universita Luigi
 Bocconi
 University

Campus UTEC Lima

LSE 44 Lincoln's Inn Fields

Institut Mines Telecom

Université Toulouse 1

Capitole

Kingston University London

University of Limerick

Solstice Arts Centre

Venice Biennale 2012 – Common Ground

Department of Finance

Urban Institute of Ireland

Two Schools, Prato Smeraldo – Bome

Loreto

Community School – Milford

Dept of M&M Engineering

North King

St Housing

Ardscoil Mhuire Ballinasloe

Stone PavilionNorth Kildare

Educate Together School Waterloo

Lane Mews

UL President's House

BDS -

Urban Arena The Long House many gongs and kudos the directors have an impressive academic and teaching record.

Farrell & McNamara are both graduates of UCD, are Fellows of the RIAI, are International Honorary Fellows of the RIBA and are elected members of Aosdána, the eminent Irish Art organisation. Both taught at the School of Architecture at University College Dublin from 1976 to 2002 and were appointed adjunct Professors in 2015.

They have held the Kenzo Tange chair at GSD Harvard and the Louis Kahn chair at Yale University and have been visiting professors at EPFL, Lausanne, Switzerland; Accademia d'Archittettura, Mendrisio, Switzerland, where they were appointed as full professors in 2013.

They have been external examiners at numerous universities including Cambridge University and The London Metropolitan School of Architecture. As well as public lectures in Dublin and abroad, including the National Gallery of Ireland in Dublin and the Royal Academy in London, they have lectured widely in European and American Schools of Architecture.

Earlier this year Trinity College Dublin conferred the pair with honorary degress.

Grafton Architects is currently working on the commission to design the new Marshall Building for the London School of Economics; the new School of Economics for University Toulouse 1 Capitole; the new Town House Building at Kingston University London; and the Parnell Square Cultural Quarter Project – The New City Library in Dublin, Ireland.

Writing about the pair while they were wearing the curator hats at this year's Venice Biennale, Rowan Moore, architecture critic of the Observer was full of admiration: "McNamara and Farrell are neither celebrities nor notable theorists. They are well-respected architects who, determinedly, consistently and over a long period of time, do their stuff. [...] But what stuff."





STANDARD PRACTICE

Douglas Masterson offers an update on the latest standards, guidance and best practice

s those of us who are involved in the architectural ironmongerv industry are well aware, ensuring that products which are manufactured, specified and placed on the market are compliant with current standards and guidance is always best practice. As they are being constantly created, revised and rewritten the following is an up-to-date report on what is happening with some of the most influential standards and guidance in our industry. Any dates given are correct at time of going to press and it should be noted that these are often subject to change.

CE marking of fire-rated doorsets

This issue has been much debated over many years as the constant changes continue to be a source of confusion and frustration within our industry. Recent CEN correspondence has been released stating that EN 14351-2 (Product standard, performance characteristics. Internal pedestrian doorsets) will not be cited in Official Journal of European Union (OJEU) in November/December 2019 which was the expected publication date. This means that it is currently not possible to CE mark internal fire rated doorsets until the harmonisation of this standard occurs and this may still take some time. Please be aware that as of 1 November 2019, it is now the case that all external fire rated doorsets MUST be CE marked to both EN 16034 and EN 14351-1. This is due to the completion of the five year co-existence period for EN 16034. Also please note that fire rated door assemblies do not fall under the scope of EN 16034, therefore cannot be CE marked and are still perfectly legal to supply.

BS EN 12209:2016 Mechanically operated locks and locking plates.

This BS EN 12209 revision contains significant changes to the 2003 version. This version will not become harmonised until the European Commission agree its publication date into the *Official Journal of the European Union*. This means that The GAI publishes a Quarterly Standards Review which sits alongside the GAI Guide to Standards publication. The review provides details on 18 of the most relevant standards to the door and hardware industry"

locks can only be CE marked to the 2003 version and testing to the 2016 version is voluntary. A new revision of BS EN 12209 had been at CEN public enquiry stage from mid-September until early November 2019 which meant it was then available for public comment. This revision to the standard is now scheduled for publication in late 2020.

prEN 15685 Multipoint locks, latches and locking plates – Characteristics and test methods

This is a new standard which is yet to be published and was also available for public comment at the same time as BS EN 12209. This standard specifies product characteristics and test methods of mechanically operated multipoint locks and their locking plates which are either manufactured and placed on the market in their entirety by one producer, or assembled from sub-assemblies produced by more than one producer and designed to be used in combination. It is currently under the scope of standards which are due to be harmonised in similar fashion to EN 12209. This is also anticipated to be published in late 2020.

prEN 16867 Mechatronic door furniture – requirements and test methods

This is also a new standard which is yet to be published and relates to mechatronic door furniture fitted on the door set which can control the locking and/or release part through an electronic authorization means. This can be operable by credentials (i.e. card, code, biometric). The mechatronic door furniture according to this document is combined with locks according to EN 12209, EN 14846, prEN 15685 or may be a part of an emergency exit device according to EN 179, EN 1125 or EN 13637. This standard is not due to be harmonised and is estimated to be published in early 2020.

DHF TS 007-2:2019 Enhanced security for mechatronic cylinders and/or associated hardware.

This new Technical Specification (produced by DHF in association with the Glass and Glazing Federation) has been recently published and aims to provide a level of security for mechatronic cylinders comparable to that specified in BS 3621 and PAS 24. The document provides information on enhanced security mechatronic cylinders and security hardware intended to be used on dwellings and other buildings requiring similar levels of security.

DHF TS 621:2018 Thief Resistant Electronic Door Locking.

Electronic escutcheons and cylinders, along with electronic multipoint and single point locks all fall within the scope of TS 621. This is the technical specification for thief resistant electronic door locking devices which has been adopted as a recognised standard for these types of lock by the British Standard Institute (BSI). Products which have been tested to TS 621 can receive the BSI Kitemark.

UL293: 2018 - Access Control System Units Intended for Use in the UK

This standard is the result of the collaboration between UL and Secured by Design which is the UK police initiative which is dedicated to making security central to building design and construction. This standard addresses UK specific needs and aims to help improve







building security by demonstrating the performance of an access control system through careful evaluation. This standard was modelled after UL 294. Standard for Access Control System Units, which is required in the United States. During the Secured by Design national training ATLAS conference in February, UL 293 was announced as becoming mandatory for Secured by Design. Therefore, from 1 October 2019, all access control systems for use in residential applications should be tested and certified to UL 293. Requirements include, but are not limited to, vandal protection, water ingress, trouble conditions and battery back-up.

Guide to Undertaking Technical Assessments of the Fire Performance of Construction Products Based on Fire Test Evidence 2019

The Passive Fire Protection Forum (PFPF) has released its new Guide to Undertaking Technical Assessments of the Fire Performance of Construction Products Based on Fire Test Evidence 2019. Drawn from the collective expertise of the passive fire protection industry within the UK, this document defines a framework and competency standards for the undertaking of assessments based on test evidence for passive fire protection products. It was originally drafted in 2000 and updated in 2019 as part of the PFPF's systematic review process. The GAI is one of a number of organisations who have endorsed the content of this publication.

The GAI publishes a *Quarterly Standards Review* for members, which contains detail on any new standards, regulations or guidance which has been released during the previous three months. It sits alongside the *GAI Guide to Standards* publications which provide detail on 18 of the most relevant standards to the door and hardware industry. These are all available in the members' section of the GAI website. ■

Email: technical@gai.org.uk

NEW PRODUCTS >>



GEZE ADDS FOUR NEW LINES

GEZE UK has expanded and improved its range with four new additions in recent months.

THZ Link controls units for smoke and heat extraction. It works by connecting control units for vents or zones around a building, providing a modular solution that can be extended to link growing numbers of control units.

Fully tested to VdS 2581 and VdS 2593, the THZ Link also complies with EN 12101 Part 9 and Part 10 and has been thoroughly tested to comply with BS 9999 and BS 9991. One of the main advantages of THZ Link, is that it doesn't interfere with the building's fire strategy; the solution makes it possible to have windows that can be used for both fire management and still be opened for natural ventilation.

It can be used as a stand-alone control unit with GEZE smoke detectors local to each fire and smoke zone or interfaced within a fire alarm panel.

It is fitted with a 'lock-out' feature, meaning that once a fire alarm is triggered, no subsequent activations can be applied, allowing efforts to be concentrated on where the fire started.

The system can operate louvred window systems, has a battery back-up that lasts up to 72 hours and can be applied within rooms and on stairwells.

A popular GEZE product is now available in a new and improved design as part of an eco-friendly, heat-saving solution.

The latest ECdrive T2 has enhanced features and is offered as a complete package with the new thermally separated profile system – the GCprofile Therm.

Slimmer than its predecessor, the ECdrive T2 has a reduced cover height of 100mm compared to 120mm. It also has capacity for moving increased leaf weights of up to 140kg, is suitable for high traffic areas for standard, or escape and rescue route doors, in all types of buildings.

The GCprofile Therm uses slim aluminium frames which reduce visible sightlines by around 30mm. With increased performance for leaf weight of up to 140kg, the GCprofile Therm also boasts improved air tightness (compared to other ISO profile systems), better sound insulation and improved wet weather durability aided by its fit and an optional floor guide with drainage.

It can be combined with manual and motorised GEZE hook bolt locks, without losing thermal separation and the appearance of the system remains discreet, even with locking.

In addition to the two product launches GEZE UK has launched a new chain drive. The Slimchain 230 V is the newest addition to GEZE's Slimchain family of window opening drives.

Just 25mm in height and 44mm depth it can be integrated into a façade design and can be fitted to wooden, plastic or metal windows and is suitable for inward and outward opening, bottom, top and side-hung windows. The Slimchain 230 V can also be used in a building management system with the appropiate connections.

It has a holding force of 2000 N and can open windows with a leaf weight of up to 200kg. The Slimchain 230 V also offers drive stroke with variable adjustment and can be configured in a left/right variant.

The Slimchain 230 V is available in anodised aluminium (EV1) or white (RAL 9016). Furthermore, a 'whole door system' which combines secure locking with failsafe emergency evacuation features has been introduced by GEZE UK to meet the rigorous PAS 24 standard.

The system enables 24-hour access control and has been designed and tested for continuous use. With a robust locking system that is hidden from view – the Slimdrive SL NT PAS 24 System makes it even harder for opportunist burglars to identify points of access.

Under PAS 24 a series of tests are performed including manual attack, in which the test engineer uses a range of tools anywhere on the door over a 15-minute period, impact testing of both 'soft body' and 'hard body' objects, and force testing in which loads are applied for up to five minutes. The door must withstand all of the tests to pass and achieve PAS 24 certification.

The system uses GEZE's proven Slimdrive SL NT automatic sliding operator – at just seven centimetres it is the slimmest on the market. It can move leaf weights up to 125kg and is virtually silent in operation.

GEZE UK worked with Jack Aluminium Systems to develop the new system.

www.geze.co.uk



24/7 SERVICE FROM NORSEAL WITH SELF SERVE

Door seal specialist Norseal has launched Self Serve, giving its customers 24/7 access to a host of online services including online ordering, live order status, account information and pricing.

www.norseal.co.uk/





CODELOCKS ADDS TRIO OF PRODUCTS

Codelocks has unveiled two new additions to its CL500 range, as well as two further products.

The new CL510 and CL515 Mortice Latch Black Marine Grade finish locks are suitable for outdoor and costal applications. The CL500 Marine Grade range is specially enhanced to withstand outdoor and maritime environments. The Marine Grade coating resists exposure to salt spray and moisture, helping to prevent damage caused by corroding.

They provide simple coded external access for buildings that experience high traffic. The CL510 and CL515 models offer over 2000 non-sequential code combinations.

Also added to the Codelock offer is the KL20 KitLock which offers keyless access for lockers, cabinets and cupboards.

The KL20 is a robust coded lock that has auto scramble functionality for quick, convenient and secure access. Ideal for the education sector and businesses that accommodate a high turnover of users, the KL20 can eliminate keys being misplaced or stolen, and minimises time and cost spent managing access.

Furthermore, Codelocks has released a new keyless door controller range. Access features three different models, each providing proximity access control without requiring complex software purchases, external programmers or licensing costs.

The A3 RFID, A3 Dual and A3 Vandal Resist door controllers act as a reader where users present credentials via a card or code to open a door.

A3 door controllers are hardwired and work alongside existing

magnetic locks and electronic strikes; specific cards or fobs are not required to integrate with the system. The A3 Dual and Vandal Resist models also support 125KHz cards and fobs. All A3 door controllers require connections to a push-to-exit button, a power supply and maglock or electric strike, which briefly releases the lock for exit. No external programming devices are required.

The A3 range has Panic Client capability. In the event of a door being forced opened against a person's will, a Panic Code or Card can be used which allows entry and triggers a silent alarm, if connected, to signal for help.

The A3 Dual and A3 Vandal Resist models feature a Door Interlock function that allows two door controllers to be linked. This functionality means that the first door needs to be closed before the second door can be opened.

The A3 Dual and A3 Vandal Resist are also capable of acting as a Wiegand reader enabling devices to be connected together as part of a larger network.

www.codelocks.co.uk



BRIO DOES A DOUBLE

Allegion UK has added the 286DL locking handle to its established range of Brio dual point locks for exterior folding applications. It is ideal for both residential and commercial facilities, joining other Brio accessories for the 286 dual point lock used on Weatherfold 4s and 5c.

Designed to 'suite' with Brio 288 lever furniture, the 286DL locking handle has been specifically engineered to secure timber and aluminium folding panels. The single action handle is an alternative to two flush bolts. The product also enables the doors to fold flat.

The intelligent security-conscious design of the 286DL is discreetly hidden inside the aluminium stile or edge of a timber panel with minimal machining and quick fixing points thanks to the patented hinge blocks.

The 286DL locking handle is cycle tested in excess of 100,000 operations and comes with a 10-year warranty. It's available in a variety of finishes for matching flexibility, including stainless steel for coastal areas.

The new lock follows hot on the heels of the release of a new addition to the Brio barn door-style Open Rail 80 sliding door system. A new easyto-fit 'soft close' accessory, designed to allow for a smoother and softer closure and is hidden from view.

The Brio Open Rail 80 is a flat bar system that gives a barn door solution for panels up to 80kg in weight. The hangers use a nylon-tyred, precision bearing to move smoothly over the flat bar rail with face-fix straps providing quick and easy installation. Finish options are satin stainless steel or black powder coat.

The Brio Open Rail 80 includes a rigorous product testing and quality assurance, plus a full 10-year warranty as standard on all hardware.

www.briouk.com.



ASSA ABLOY LAUNCHES NEW INTUMESCENT KIT

The ASSA ABLOY Door Hardware & Access Control Group has launched a new intumescent kit range, which helps ensure the integrity of a fire doorset is not compromised by morticed ironmongery.

Morticing can cause hinges, locks, latches and concealed door closers to no longer meet the requirements for fire door safety.

The new kits provide intumescent sheets made from an ultra-thin and flexible graphite material, which allows for high levels of expansion and insulation, preventing heat transfer on ironmongery rebated into timber fire doorsets. Suitable for both 30 and 60 minute applications on timber doors, the sheets arrive pre-cut for a selected range of ASSA ABLOY ironmongery. This includes ASSA modular locks and the ASSA ABLOY DC840A and DC860 concealed door closers, plus UNION's new CodeGUARD 5 push button lock, a number of UNION hinges, the UNION HD26 tubular latch and the StrongBOLT® mortice lock range.

The intumescent sheets have a self-adhesive backing for easy installation.

www.assaabloy.co.uk



A STIRLING JOB

Social housing project wins architecture 'oscar'

n eco-friendly council estate in Norwich scooped this year's prestigious RIBA Stirling Prize for architecture.

The Royal Institute of British Architects gives out the award each year to the UK's best new building.

The estate, called Goldsmith Street, is made up of almost 100 ultra lowenergy homes for Norwich City Council. It beat the likes of London Bridge Station and the Nevill Holt Opera, Market Harborough, to the prize.

Goldsmith Street – by Mikhail Riches with Cathy Hawley – is comprised of rows of two-storey houses bookended by three-storey flats, each with their own front door, generous lobby space for prams and bikes, and a private balcony. The back gardens of the central terraces share a secure 'ginnel' (alleyway) for children to play together, and a wide landscaped walkway for the community runs directly through the middle of the estate. Parking has been pushed to Goldsmith Street's outer edges, making sure that people, not cars, own the streets.

Goldsmith Street also meets rigorous Passivhaus standards – remarkable for a dense, mass housing development. It is a passive solar scheme, designed to minimise fuel bills for residents: annual energy costs are estimated to be 70% cheaper than for the average household. Even the smallest details have been thought about: letterboxes are built into external porches to reduce any possibility of draughts, and perforated It is high quality architecture in its purest, most environmentally and socially conscious form"

Goldsmith Street entrances

aluminium 'brise-soleils' provide sun shades above windows and doors.

The 2019 RIBA Stirling Prize judges, chaired by Julia Barfield, called it a "modest masterpiece".

"It is high-quality architecture in its purest, most environmentally and socially conscious form. Behind restrained creamy façades are impeccably-detailed, highly sustainable homes – an incredible achievement for a development of this scale. This is proper social housing, over 10 years in the making, delivered by an ambitious and thoughtful council. These desirable, spacious, low-energy properties should be the norm for all council housing."



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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.

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