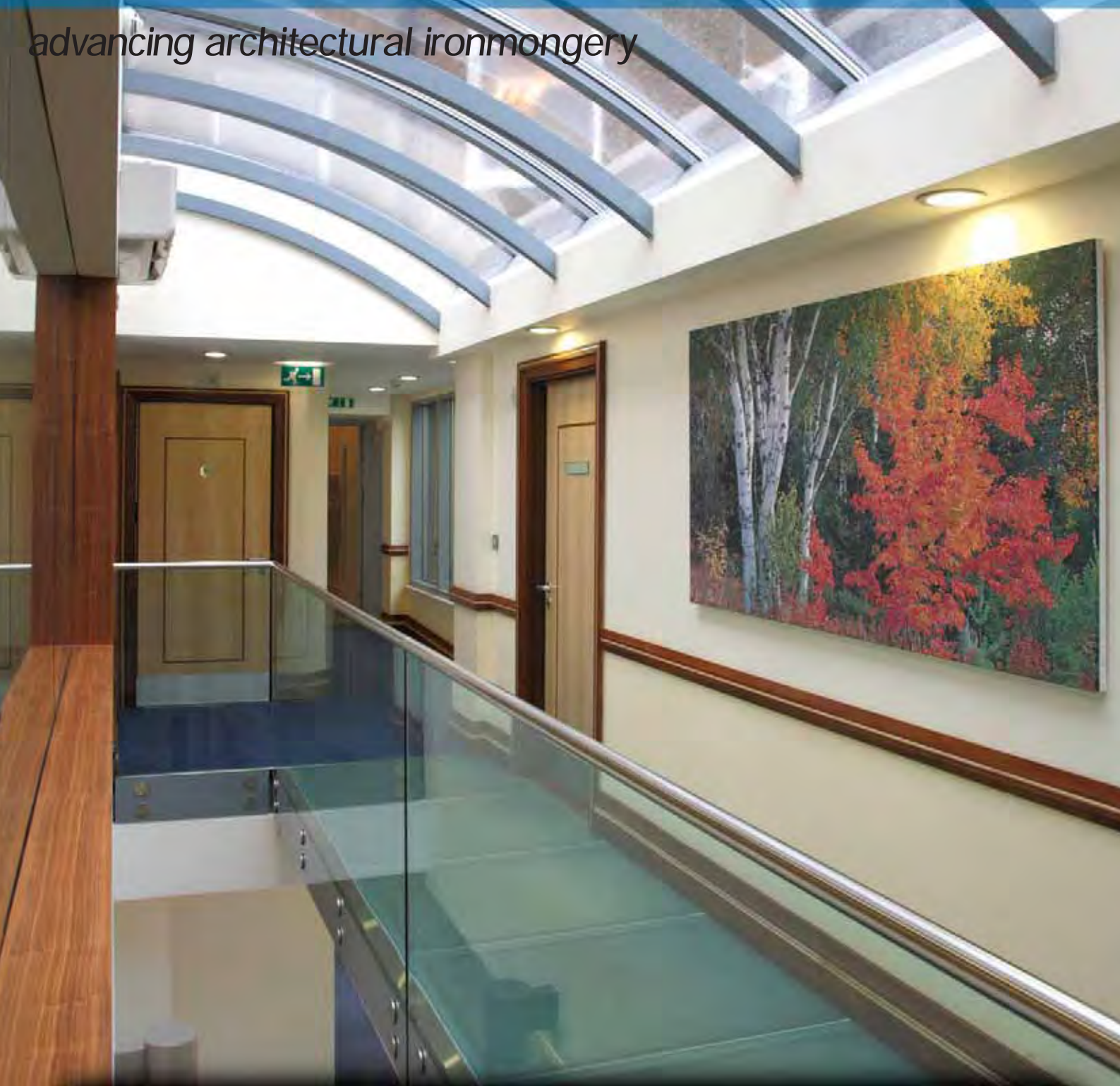




architectural
ironmongery
journal

no.138 summer 2010

advancing architectural ironmongery



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Ironmongery In Situ
AI Profiles

TECHNICAL

Hinges Special
The Use of Handrails
Access Controls

Briton



Opening doors with Briton just got easier

The new Briton 2700 Series of cam-action, slide channel door controls combines easy opening with safe, reliable closing. Designed to bridge the gap between the conflicting demands of Part B (Fire) and Part M (Accessibility) of the Building Regulations they assist all users and in particular the disabled, children and the elderly to help overcome difficulties in opening a door.

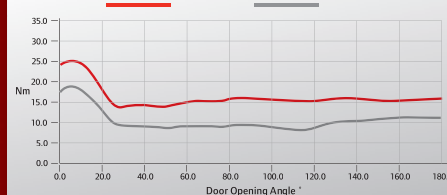
Precision manufactured from cast-iron for durability and strength they feature a stylish metal 'snap-on' cover in a smooth distinctive design. The Briton 2700 Series also features a unique FAST PowerAdjust™ dial, allowing installers and users to view and easily adjust the current power setting to suit door conditions.

For further information on the Briton 2700 Series, including the latest brochure and certification visit www.security.ingersollrand.com/camaction or call the marketing department on: 01922 707400.



CF738

Force Profile Briton 2720 set to EN 3 Power setting
Opening Moment Closing Moment



Independently tested by EXOVA Warrington APT Laboratories Ltd



Welcome to a new-look, revamped AIJ. We are always looking for ways to make the AIJ more vibrant and relevant and this redesign aims to make it easier to read and navigate. We hope you like it.



The winds of economic change continue to whistle around the AI industry. The national effort to reduce the UK's deficit was always going to bite deep but it seems to be set to hit the construction industry especially hard. Cuts in some government departments of up to 25% announced in the interim budget in March have been followed by news that the Building Schools for the Future programme has essentially been scrapped with 719 school revamps already signed up to the scheme no longer going ahead and a further 123 academy schemes are to be reviewed on a case by case basis. The commercial sector remains very weak and with public sector expenditure set to shrink dramatically in the next five years, many AIs will be nervous about the future.

It is encouraging, therefore, to see so many manufacturers in the sector continuing to invest in new product innovation – as demonstrated by our new product section (pages 30 to 34). Let that give us hope that the AI industry will continue to move positively forward.

Helen Curry

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Ironmongery at work

Two completely different architectural styles within one major refurbishment project on London's famous Harley Street.

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STICK TO YOUR GUNS AN EVERYDAY STORY OF REDUNDANT FOLK

We live in tough economic times and we are beginning to appreciate now what the next dose of economic reality is going to look like. It is highly likely, therefore, that re-structuring will reassert itself on the business agenda, and redundancies will be with us again.

I have written before about the type of procedure that you should follow, the timings, the need to consult in a meaningful way and to ensure that potentially redundant staff are reminded of their rights. If you have any questions about any of this, please contact the GAI legal helpline, free on 01372 462262 or contact roger.vincent@talk21.com

In a recent case, we had to deal with an employee who had a barrel-load of tricks up his sleeve, and it was soon clear that he was gagging to go to tribunal. S was a Security Guard, with 10 years service. The Company decided that they did not need such heavily resourced Security presence, and considered that the four Guards could be better utilised in a wider support role, which included Security in it.

The consultation exercise started with all affected staff, but S was in a union, and he wanted his Full-Time Official to attend all the meetings. Like all Union Officials, she had a very congested timetable, and it was nearly three weeks before the first consultation meeting took place, by which time things were quite advanced with S's colleagues. Patience was greatly needed during this exercise.

When at last the meeting took place, S said that he couldn't possibly take on the new role, because he was disabled, and could not do any bending/stretching. Bombshell. The Company, while aware that S had a dodgy knee, were astonished that he had a disability, and frankly doubted it. However, they accepted, for the purposes of the consultation, that they would have to consider any reasonable adjustments that the Disability Discrimination Act would require.

Then a full list of job functions was prepared, and S reckoned that he could only do 50% of them. This seemed mildly absurd, but the Company went along with it. The next part of consultation process was to arrange two trial days for S to see how much, in fact, of the new job he could do. It seems clear that S deliberately sabotaged this by making himself unavailable for much of the first day on work that was not essential, and even when he did join in on some of the trial, he appeared to frustrate the process, by either being very negative, or by insisting that he was not physically able to do the work.

Ultimately, he came up with one idea, his way out of this impasse, and that was to do part-Security, part-Driving, part-General Hand. That is all he wanted to do, and of course, as an apparently disabled person, he was entitled for reasonable adjustments to be made. The company's position was that they did not NEED a Driving Dogsbody. The whole purpose of the review was to achieve economies, not to make up a role that was not needed.

So, with infinite patience, the Company slogged through the process, despite quite an amount of provocation, and concluded that, as there was no position available for which he was fit to work, and as there was no need for the only role that S was prepared to work at, S was made redundant.

S appealed, and a thorough appeal investigation was undertaken, and the appeal was dismissed. S then went to Tribunal, where his Claim failed. He had an arguable case, but what the Company did so well was to minute every meeting, send out detailed letters at each stage, treated his alleged disability as though genuine, even though they were sceptical, and kept patient and unprovoked. The Tribunal dismissed the Claim.

One after-shock that is worth reporting is that three months later, at a time when his Claim was being dealt with, he applied for the Night Security vacancy (it had been day-time Security that had been dispensed with). He was a strong candidate for that job. The Company did not want him back, and were not disposed to interview him. However had they not done so, he could have claimed victimisation, for treating him less favourably on the grounds of his taking a Claim against them, including disability. So, they wisely interviewed him. Do have care about this type of post-redundant issue.

The moral is that you are entitled to restructure, and as long as you have sound objective reasons for doing what you are doing, then your only pitfall is procedural. If in doubt, always give the GAI Legal Helpline a call. **Roger Vincent 01372 462262: roger.vincent@talk21.com**



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NEXT ISSUE

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aijbriefs

»» NEW FACES AT HOPPE

HOPPE (UK) has this year named various changes to the management structure of its sales team for architectural and door and window accounts.

The architectural external sales team, headed by Andy Matthews, has been strengthened by the addition of two new experienced Regional Sales Managers. Michelle Wilkinson has joined the team covering the Northern region while Terry Griffith has taken over the London South East area.

Nigel Gray joins the internal sales team as Access Control Manager. Nigel has many years of experience in the field of access control and his expertise will be hugely beneficial as we continue to grow in this specialized area.

National Sales and Marketing Manager Stewart Lamb continues to head the door and window division sales team with Craig Grew joining Jason Hill externally as Business Development Manager. In addition Stewart will also take responsibility for the National Key Accounts. Neil Morgan has been appointed Commercial Director for HOPPE (UK). Neil, previously Logistics Director at Allgood Plc, will take up his new post in September 2010.



Nigel Gray, HOPPE

»» DOUBLE WINNER

IronmongeryDirect was triumphant at the ECMOD Awards for Outstanding Business Performance in 2009 by winning awards for Outstanding Customer Service and Niche Trade Supplier, beating off strong competition within the multi-channel shopping industry.

The annual ECMOD Awards for Outstanding Business Performance in 2009 are the catalogue and multi-channel sector's most sought-after accolade, celebrating excellence with categories in this diverse market. Managing Director, Wayne Lysaght-Mason comments: "I am ecstatic at winning not one, but two awards. After a fantastic year in 2009, these awards are the ultimate testament to our entire team's dedication and constant focus on delivering great customer service."



NEW APPOINTMENT AT OWLETT

Owlett-Architectural has strengthened its sales team with the appointment of Craig Baxter, who has more than 20 year experience in the field.

Craig started his career with Gibbs & Dandy in the early 1980's before moving to Graham Builders Merchants which later became George Boyd. In the mid 1990s he specialised in architectural ironmongery with Arcon/Beaver Hardware in Watford, later Lloyd Worrall, and has worked in the wider construction specification industry, until joining Owlett-Architectural.



WINNING TEAM

The SIMONSWERK UK sales team has been awarded the Paul Lewis award for outstanding customer service by the Institute of Architectural Ironmongers. The award is sponsored annually by Royde & Tucker and presented by the IAI Executive Committee to the most nominated company or individual.

Pictured are members of the award winning SIMONSWERK team, (left to right) Stephen Slater, Patrick Calvey, Linda Griffin, and UK Managing Director Robin Guy. The award is presented by the IAI Executive Committee at the AGM Dinner Dance.



PALACE VISIT FOR GAI PAST PRESIDENT

Keith Moss, former GAI President and Honorary Life Member has been awarded an MBE for voluntary services to cricket. Keith is a founder HLM of the GAI and was recently awarded the new GAI Medal for outstanding contribution to the AI industry. He has given tirelessly of his time and expertise and still actively contributes to the industry.

Keith attended Buckingham Palace with his wife Jean on 9 June 2010 where he received his MBE from Her Majesty the Queen.



NEW CPDs

Laidlaw Solutions now has four RIBA certified CPD presentations. 'Inclusive Design for the Disability Discrimination Act 1995 - Better Access for Everyone' and 'Specification of Internal Timber Doorsets with particular reference to Parts M and E of the Building Regulations' have a distinct legislative theme, while 'Handrails & Balustrades, Adding Flair to your Stairs' combines design requirements with the aesthetics of systems available. Lastly, 'How to Specify Architectural Ironmongery' deals with the fundamentals of ensuring that the correct architectural ironmongery is fitted, and in particular what are the correct specification procedures to maximise the performance of a doorset.

aij7



NOTHING'S
CHANGING
EXCEPT THE
NAME



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TAKING THE RRO SERIOUSLY

The London Fire Commissioner has stressed the importance of complying to the Regulatory Reform (Fire Safety) Order, as it was revealed that some businesses still do not understand the importance of this legislation.

Last year London courts ordered individuals and businesses to pay more than £1million in fines and costs for fire safety breaches to set an example of companies who did not comply with the guidelines set in the RR(FS)O.

The introduction of the RR(FS)O in 2006 made the responsibility for the safety of employees lie firmly with those who control the business. London fire commissioner Ron Dobson said "over £1million in fines shows how serious the courts are taking fire safety, and now its time for the responsible persons at these premises to understand that ensuring buildings are safe for all the people that use them is not an optional task."

Supermarket giant Tesco are one of the latest to have been hit by court fines after pleading guilty to five breaches of the RR(FS)O following a fire at a store in Barnet. Tesco pleaded guilty to failing to keep emergency exits clear (£20,000 fine); failing to keep an emergency route clear (£20,000); two counts of fire doors being wedged open (£20,000 each) and storing flammable materials under an emergency stairwell (£15,000).

The Co-operative Group is another example of a leading UK retailer who has been forced to pay thousands in fines for not complying with these health and safety laws. After pleading guilty to six breaches of fire safety legislation the Co-op have been fined £210,000 following investigations into their Southampton stores, which found problems with their emergency exit doors.

Graham Botwright, head of DORMA's service division stresses "even in these economic times maintenance cannot be over looked. With courts taking issues of fire safety more seriously the penalties and fines being issued are testament to this.

Business should not be fooled into thinking that maintenance is something that can be ignored due to budget reasons. DORMA offers maintenance packages to suit all business requirements and many fully comprehensive maintenance agreements allow costs to be set in advance so they can be budgeted for. "



CRACKDOWN ON INCORRECT CE MARKING OF LOCKS

The CE certification of a Chinese lock that wrongly carried the CE mark has been removed after it was pointed out to the government by the Door & Hardware Federation (DHF) and highlighted the serious health and safety implications of the incorrect application of the CE mark.

The Chinese lock did not claim to be suitable for use on a fire/smoke-resisting door but nevertheless carried the CE mark. Since only locks intended for use on fire/smoke-resisting doors are regulated under the Construction Products Directive (CPD), this marking appeared to be based on a fundamental misunderstanding of the Directive.

Said DHF Secretary Michael Skelding, who took up the case on behalf of the DHF:

"The relevant standard, EN 12209, actually covers locks for all applications, but the CE marking instructions within it are aimed exclusively at locks intended for use on fire/smoke doors - that is, where there is a safety risk to life rather than a risk to, say, property."

"Naturally we're delighted the Department took up our concerns and has taken this decisive action," said Michael.

"The point to be stressed in all this is that CE marking under the CPD is only possible for products for the intended end uses specified by the European Commission's mandate. These are the end uses which pose a health and safety risk.

"The standards, however, may not be limited as to the end use and this can result in a situation where the product falls within the scope of the standard, but outside the scope of the mandate, as it did in this case."





ON SPEC

The bi-annual Architectural Ironmongery Specification Awards run jointly by GAI & RIBA are nearing and the national judging panel are now inviting entries for the 2010/11 competition.

Architectural ironmongers, architects, contractors and building owners can nominate projects in accordance with the different award categories. Nominations should show architectural ironmongery at its beautiful best; enhancing not only the security, accessibility and safety of the building, but also adding to its functionality and longevity. Each award is made to the whole specification team – both AI and architect – highlighting the importance of the professional partnership between the two disciplines.

There are five categories:

- **Commercial** – offices, industrial buildings, government buildings including prisons, pharmaceutical facilities, warehousing and leisure buildings.
- **Public Health** – hospitals, health centres, care homes, rehabilitation centres, retirement homes and other health care facilities.
- **Public Education** – schools, further education properties, universities, student accommodation.
- **Hospitality/Residential** – hotels, high end residential, apartments, tower blocks (flats), special housing.
- **International** – any of the above on projects outside of UK and Ireland.

“Winner of Winners”

This year, for the first time, the judges will decide upon an overall “Winner of Winners” and all will be celebrated at the awards lunch on Wednesday 30 March 2011 at the Ironmongers’ Hall, 1 Shaftesbury Place, Barbican, London, EC2Y 8AA.

Closing date

The closing date for entries is Friday 1 October 2010. Nominated projects will have been completed in the two year period ending 1 October 2010. Each project must be nominated using the Entry Form available at www.gai.org.uk/events. Upon receipt nominees will be sent a USB fob which will include electronic templates for completion.

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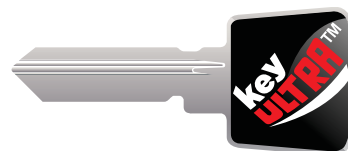
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change for good

The GAI's revamped and modernised **Conference and AGM** format proved popular with delegates and their guests. The GAI's 49th Conference and AGM was held at Whittlebury Hall in Northamptonshire on Friday 21 and Saturday 22 May and the new-style schedule's sharper business focus gave delegates real business benefits, as well as an enjoyable time meeting colleagues and friends new and old from across the AI industry. The theme for the event was **Change for Good** and in challenging times for every business, it was good for those attending to hear positive news about all the developments that the GAI is managing through its organisation and activities.



PRESIDENT'S ADDRESS

In tricky – to say the least – financial and political times, GAI President Andrew Hall, was able to report another successful year for the GAI and one of great change for the organisation and its activities. The GAI has not been immune from these pressures and the past financial year has seen total revenues fall but core activities held up well and income from Education only fell slightly whilst revenue from Membership also fell although Membership numbers actually increased slightly.

In pursuit of achieving its business plan objectives and also improving the delivery of services, the GAI has continued to invest in modernising and reorganising including the appointment of a new Marketing Officer and a full time Education Manager, Keith Maer.



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THE BUSINESS OF THE DAY

As well as the informative talks and enjoyable events, the occasion was also the GAI's Annual General Meeting when the organisation carried out its official business, electing officers and committees.

Honorary Treasurer John Jefferies of Laidlaw presented the GAI's Statutory Accounts and was duly re-elected in this post for another year. The Presidential team of Andrew Hall of GEZE UK as President, and Phil Newson of Allgood as Vice President was voted in unanimously for another year.

The GAI Executive Committee was also re-elected without opposition.



BUSINESS ON THE AGENDA

The GAI Conference was addressed by Bill Johnson, Director of Government Relations of the Door and Hardware Institute in the USA. He reminded delegates of the importance of fire doors and their role in saving lives and property and described the DHI's Fire Door Inspection Scheme – a programme which would surely have benefits in the UK.

After listening carefully to feedback from previous years' delegates, the GAI team ensured that this year's Conference contained a much higher business content. To this end, Saturday afternoon saw three well-attended business seminars on important issues facing AIs and manufacturers today:

ISO 14001 the Environmental Management standard:

this was led by Dipvandana Shah from Groundworks (www.groundworkwmebs.co.uk) who outlined the benefits to business – and the environment of achieving the ISO 14001 standard.

Building Controls with special reference to fire doors and access issues: Richard Suttle from RICS talked about the things that Building Control Officers are looking for when they inspect a building

Specifying Personal Security: Simon Griffiths, currently editor of Keyways, presented manual intervention testing procedures used in Bs testing.

TIGER TAMING WITH LAUGHS ALONG THE WAY



The conference room was packed with delegates and their visitors to hear this year's inspirational keynote speaker, Jim Lawless. Jim outlined his personal vision for Taming The Tiger – the demons and inner voices which stop us all from doing what we want and reaching our full potential.

But Jim doesn't just preach. He practises the Tiger Taming himself. In 2003, an audience member bet Jim £1 that he could not prove the power of his Ten Rules for Taming Tigers - by becoming a jockey and riding in his first televised race within 12 months. Not put off by being too old, too heavy and having never ridden a horse before, and working with the Ten Rules as his guide, he took delivery of his £1 winnings on 22nd November 2004 after riding in the 12 o'clock at Southwell!



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ROUND UP FROM THE COMMITTEES

MARKETING COMMITTEE

Shafiq Sharif, Laidlaw Solutions

It's been a busy year for the newly retitled Marketing Committee and Shafiq outlined the ways in which this group had been working towards its stated objectives of promoting GuildMark, developing a PR strategy, improving the websites, producing publications, overseeing the GAI brand, establishing a comprehensive database, and undertaking a membership survey.



TECHNICAL COMMITTEE

Paul Duggan, Exova

Paul Duggan, the Chairman of the Technical Committee, told delegates at conference that the committee was keeping on top of an extremely wide range of issues on behalf of members and working hard to communicate these with the wider membership of the GAI.

The Technical Committee represents the GAI and its members on a huge array of committees and standards bodies across Europe. In fact Paul himself is Convenor of TC33 WG4. TC33 is the CEN Technical committee with responsibility for the production of product standards for building hardware, doors, windows and curtain walls. Working Group 4 of TC33 is specifically responsible for the hardware.

The committee also works hard to provide technical support for members through Technical Updates, the AIJ, and the GAI technical helpline manned by Jacky Sinclair. A new technical section of the GAI website is planned to go live this summer.

Another major focus for the Technical group has been, for some time, the issue of CE marking of doorsets. The committee felt that now was the time to draw a line in the sand on this issue and has produced a user-friendly Technical Update on the subject explaining the key facts, terminology and when the standards will be published.



EDUCATION COMMITTEE

Keith Maer, GAI Education Manager

Keith Maer, the GAI's newly-appointed Education Manager, outlined current activity and future plans in the GAI's highly successful education programme.

Enrolments are holding up well in difficult economic circumstances and this year's Level One students are enjoying the benefits of the new electronic manuals and online coursework. Keith is on track to modernise all 37 training manuals and convert them to the new "open" style.



Keith also explained changes to the way Reg AI status is achieved and maintained. As a result of the 2009 customer survey and working group there is now a simple annual renewal procedure and there are plans to further support Reg AI status with ideas such as webinars, regional training days, on-line support such as the forum, and even sample exam questions on line.

INSTITUTE COMMITTEE

Paul Spencer, Institute National Chairman

Newly elected Chairman of the Institute of Architectural Ironmongers, Paul Spencer, rounded up a busy year and his plans for moving the organisation forward.

He welcomed major improvements in communication after a thorough overhaul of both the Institute and Reg AI databases, improving electronic communications and cutting down wasteful time and resources. He also stressed the need for a clear and ongoing communication strategy which explains the difference between the IAI and the GAI.



BRASS TACKS

While most architectural ironmongers will know Carlisle Brass and most are customers, perhaps fewer will realise just how big the company is. Helen Curry met with Jason Anderson, Group MD, to find out more.

The Carlisle Design Group – which embraces such well-known names from the trade including Carlisle Brass and Eurospec – is a major player in the UK market with a turnover of £40million+ a year. As a company of this size, Carlisle Brass runs a substantial operation from its Cumbrian HQ, which incorporates large custom built offices and warehouses. The 200 staff in the UK alone plus stock holdings of around £11m attest to the size and ambition of the group.

With a background in finance and general management Jason has been with the group in various capacities for ten years before becoming Group MD four years ago. He sees his role as giving the group strategic direction with an oversight of all of the group's businesses and with hands-on control of Carlisle Brass itself. "Customers like dealing with us," he says "because they like the people, they like the products and they particularly like the customer service. That's why the business is growing, even in these tough times."

Carlisle Brass itself, at the heart of the group's business, was formed in the mid-1980s and predominately deals with residential ironmongery, which is heavily specified by housebuilders. "The key in this market," says Jason, "is to be on trend, to provide first class levels of customer service and support and to be keenly priced. In 2009 the trend was for dual finish hardware but in 2010 we've been seeing a move towards more interesting profiles." 2009 was a challenging year for the housebuilding sector but Carlisle Brass weathered the storm well thanks to a strong relationship with AIs, which held up well and helped protect the company somewhat from the downturn.

Eurospec also forms an important part of the Carlisle Design Group and is well known for locks, hinges and stainless steel fittings. Established thirteen years ago, Eurospec is still growing market share thanks to its constant innovation in new sectors – such as panic hardware in 2008 and door closers in 2009. The Eurospec position within the group is to specialise in the more commercially orientated sector of the architectural ironmongery market. This is achieved through a combination of quality products and technically experienced staff geared towards the specification requirements of the industry. All Eurospec's products are available ex-stock and on a next day delivery.

Both Carlisle Brass and Eurospec are the first within the group which have been awarded ISO 14001:2004 certification. This internationally recognised standard establishes an environmental management system and forms part of Carlisle Design Group's management commitment to providing continuous improvement in the environmental performance of its facilities and its employees. It also endorses the company's very



“ THE PACKAGING IS RIGHT. THE BRANDING IS RIGHT. AND THE RANGE IS RIGHT. ”

impressive health and safety record and the high level of staff satisfaction and loyalty (which may also be due in part to the free bacon-butties on Fridays!).

The Carlisle Group has recently rebranded its Sterling Hardware business as Carlisle Pre-Pack, focusing exclusively on pre-packed hardware for builders' merchants and other retail outlets. The rebranding was implemented to bring the packaging in line with the company's corporate identity and to enhance its shelf presence and specification. Carlisle Pre-Pack takes products from across the entire group's brands and is then geared up to offer the packaging, merchandising and marketing support that builders' merchants demand. "The packaging is right. The branding is right. And the range is right," says Jason. "This rebranding has really helped us to focus the business and in turn that has been reflected in market share." In this sector, again, service is the key – next day delivery is a given.

Across all these brands, the role of the architectural ironmonger is prominent. "We build long-term relationships with AIs and work together to grow mutual business," comments Jason. At Eurospec for instance, all the internal sales force (and many of the external team too) hold a GAI diploma, or are working towards it. Even the General Manager in Dubai is in year two of his diploma studies.

So why is this training so important to the group? "It gives such a good grounding in all product areas," says Jason. "And it helps our staff to add value to what we do. We don't do

scheduling – we leave that to the AIs – but for selling very specialist products like we do, the Dip GAI qualification is very useful."

This philosophy of adding value is one that Jason is keen to extend throughout the businesses in the group – with technical back up, high service levels and strong sales support being at the forefront of this. The group runs two sales teams – one servicing merchants and AIs, the other dealing with specification business which generates demand which is in turn passed on to customers.

Many of the group's products are manufactured in China; a move which Jason is keen to emphasise does not mean any compromise in quality. "The quality and consistency of the products we manufacture in China is just as good – if not better – than those we source in the UK," he explains. The group owns its own factory in China, managed by ex-pats, so they have complete control over quality and consistency and Jason is proud to point out that Carlisle Brass is the only manufacturer of hinges in China which carry a Kitemark.

The group's latest venture is an expansion into the Middle East with the opening of a business in Dubai. "We have an excellent product range for this market but found we were not doing the business we should have been doing through our distributors there," says Jason. "So we decided to go there ourselves and offer our British service, which is quite unusual in Dubai. So far so good and we are very busy in that market."

Carlisle Brass is also not letting up in its programme of new product launches and one of the latest additions is the Serrozetta range of door handles on back plates and roses. This contemporary range comprises six variants called System, Equi, Zone, Stratus, Scope and Shape. Each is available in Latch, Lock, Euro and Bathroom variations and finished in polished chrome finish. The Equi and Zone handles are also available in satin chrome. There are three new handles on round rose 50mm diameter backplates and three new handles on round rose 50mm diameter. The range was designed and developed exclusively by Carlisle Brass to complement contemporary interior design by combining sleek good looks with first-rate engineering.

Like all new products, these new handles were designed by the group's in-house R&D team in the UK and China. The companies also carried out in-house cycle testing which was then followed up by independent third party testing.

So what next for the Carlisle Design Group? Jason is predicting slow growth – but growth nonetheless – and believes that a steady rise in trade will be good for the sector. The company has plans to expand into new sectors such as access control and to retain its positive position of growth and innovation. It looks like the future is bright and polished in Carlisle – just like some of their products!

Contemporary, modular handrails and balustrades have dramatically improved installation standards through use of pre-engineered, factory finished components says Roy Bradburn, Operations Director – Handrail Division of Laidlaw Solutions Ltd. As a result, featureless, often ‘site welded’ elements have made way for systems which are designed to be fit for purpose rather than ‘made to fit’. Specification of materials of appropriate light reflectance value (LRV) and profile and the widespread acceptance of tactile indicators has enabled buildings to become more inclusive.

From a purely aesthetic perspective, however, stainless steel, timber and nylon-sleeved handrails and structural glass balustrades provide distinctive features which have prompted a fresh approach to interior design. All this has one primary underlying purpose of course – safety. Statistics for slips, trips and falls had shown no discernible downward trend for a number of years and though reporting of incidents may have increased, there was still concern over the number of unreported ones. In 2007, the number of serious injuries actually outnumbered those due to falls from height.

Systems today are designed to accommodate all users, and legislation prompting inclusive design ensures that use by the disabled, visually impaired and children is key. Use of handrails of fixed height encourages confidence and use through familiarity. In busy settings such as schools, central rails are required on wide staircases and though they give no guarantee of use, narrower aisles limit traffic flow and place individuals in closer proximity to a point of safety. Progress made has, however, been severely compromised by the failure to control importation of components sold as ‘like for like’. Premature wear and fading of nylon sleeved handrails, use of inappropriate pigments and lack of resistance to cleaning chemicals are just a few of the problems that have prompted premature replacement.

The new Day Services Centre at St Oswald’s Hospice in Gosforth has, not surprisingly, been the focus of considerable media attention. J.D.D.K. Architects’ specification included extensive use of Laidlaw Solutions’ stainless steel handrail system and door ironmongery. J.D.D.K. Architects’ Stuart Franklin said of the project, “We worked closely with Laidlaw Solutions on this project to develop a contemporary adaptation of their existing balustrade range to suit the scheme aesthetics, at no extra cost to the project”. A peaceful and welcoming haven for those suffering from terminal illness and their families meant that interior design was of critical importance. No further comment is necessary in terms of the implications of using materials which were not fit for purpose.

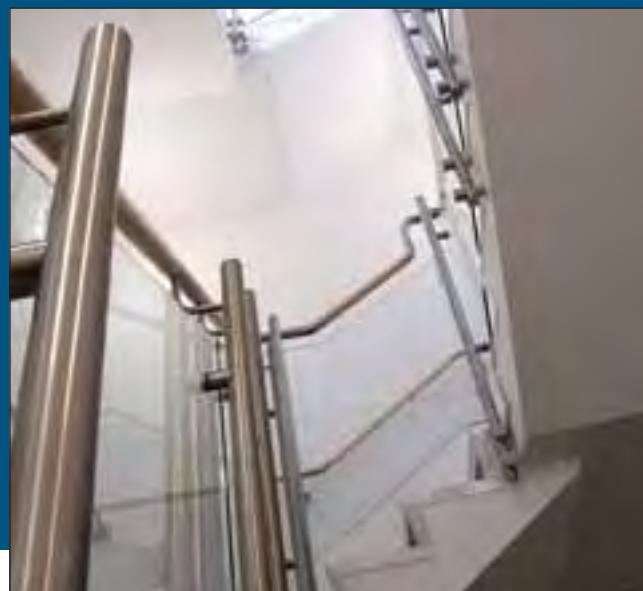
There could be no greater contrast to such a project than a busy retail environment. Structural glass in particular offers a barrier-free aesthetic which is perfect in such settings, in which a sense of open space is required. Teresa Clark, head of store design at Marks & Spencer said of the recently opened Westfield White City store, “Westfield asked retailers to produce something special for the centre and this offered a great opportunity for us to trial a range of new design features. We have focused on helping our customers to shop easily in an environment which feels really special”. The implications of system failure take on a different context but to the client are no less severe.

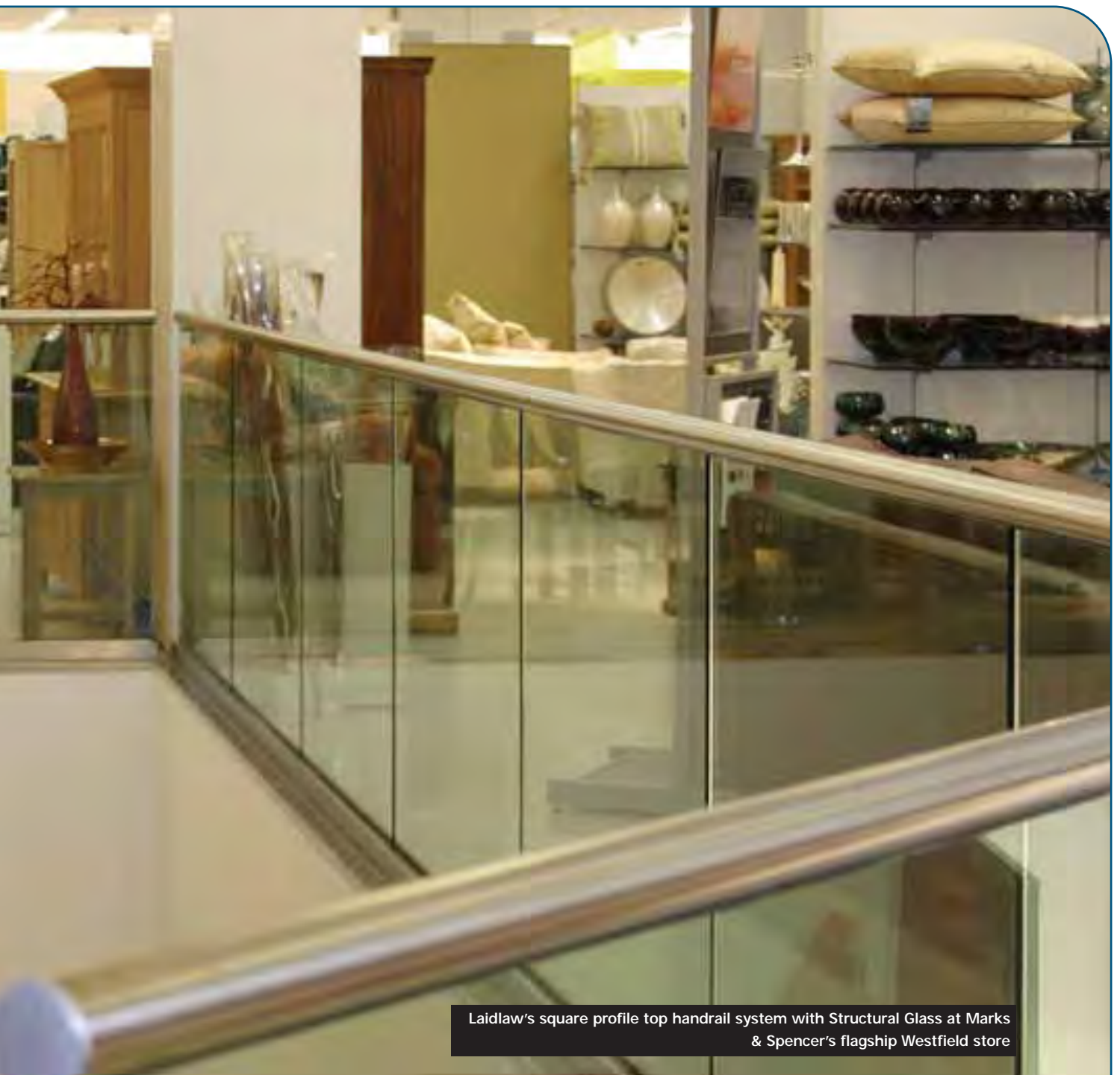
A wealth of evidence, both research based and anecdotal, has confirmed how interior design improvements in working environments produce positive results. Building upgrades may be linked to increased rental values and the visible contribution of handrails and balustrades in such situations is invariably immediate. The precise, clean lines provided by components which can be used in combination and the extensive list of infill alternatives means there is no reason to compromise either performance or aesthetics. The only limitation on performance is driven by component source.

THE RAILWAY



“Use of handrails of fixed height





Laidlaw's square profile top handrail system with Structural Glass at Marks & Spencer's flagship Westfield store

encourages confidence and use through familiarity."



St Oswald's Hospice – a contemporary adaptation of an existing balustrade system to suit scheme aesthetics



GAINING GREATER CONTROL OF YOUR SECURITY

Architect Christopher Sykes looks at the issues of key control and spotlights how one innovative manufacturer is leading the way with flexible, scalable access control solutions that can adapt to your changing needs.

In today's fast paced world one thing is guaranteed, nothing stays the same for long. It is vital that security is able to keep up with the fast pace of change, as buildings and workspaces need to be flexible and able to adapt to changing people and changing environments.

The traditional way of securing commercial buildings is using a masterkey system, which allows a hierarchy of security access within a building. This is still a valid and widely used solution, however it does need careful control of keys, which can become a onerous task depending on your building usage. It is worth asking yourself some simple questions to determine the security of your current system:

- Do you know who has the keys to which rooms in your building?
- Do you know how many keys have been lost or copied over the years?
- Have you replaced your locks every time a key has been lost?
- Do you know every time a key has been duplicated?

If the answer is "No" to any of these questions then you cannot be sure of the integrity of your current building security.

As technology develops and society changes, there is a constant and growing need to adapt and upgrade existing buildings and facilities to comply with the latest legislation and to provide the safest and securest possible environments. Regardless of the reasons for upgrading, there is usually one overriding principle - to be as cost-effective as possible.

New systems are available which allow for such transformations on a strictly controlled budget. PegaSys, for example, is the latest in wireless intelligent access control. This system was developed by Ingersoll Rand Security Technologies and provides an instant and cost effective way to upgrade and convert traditional mechanical doors into an electronically-controlled access system. The system is designed to provide a simple solution to common access control and key management problems, such as replacing cylinders when keys are lost, unauthorised key duplication and the inability to track who went where and when. Increasingly companies are citing shrinkage in consumables due to employees as an issue they are finding difficult control, which is backed up by recent studies that show a staggering 82% of UK workers admit to

having stolen from the workplace.

Often just the threat of increased visibility of movement and access control is enough to show a significant decrease in shrinkage. PegaSys is an easy to manage system aimed at facilities looking for a cost-effective solution to improve their building's security and staff safety and to monitor who has access to their premises. PegaSys can be used on existing doors without the additional cost of providing power or network cabling. It provides many of the benefits of a networked hard-wired access control system in terms of function, flexibility, control and security but at a fraction of the cost. The system is backwardly compatible with many existing technologies, so that sites which already have applications such as Mifare Classic can be easily adapted.

The premise of the PegaSys system is why introduce complexity and cost when it is not needed. The system has been designed to allow you to choose a level of complexity to suit your environment and your access control needs and can easily be expanded and adapted to suit your changing requirements.

The entry level system is simple and easy to program, using stand alone off-line electronic locks to provide a secure access control solution. As the locks are completely independent they can be fitted across multiple doors and multiple sites with no restrictions. To increase the functionality of the system up to 16 online validation readers can be fitted to the building's initial entrance and exit points or other strategic locations. These readers are used to download an individual's access

" IT IS VITAL THAT SECURITY IS ABLE TO KEEP UP WITH THE FAST PACE OF CHANGE, AS BUILDINGS AND WORKSPACES NEED TO BE FLEXIBLE AND ABLE TO ADAPT TO CHANGING PEOPLE AND CHANGING ENVIRONMENTS. "

rights for that day to their card, enabling them to access only the parts of the building they are authorised to enter. This makes the system very flexible meaning it can be easily and cost effectively upgraded to meet the changing needs of the environment.

When considering an upgrade to your security it is important to consider how your building is used. Using the PegaSys system you only need to ask yourself two simple questions:

- How many sites do I need to control?
- How often do I need to change access rights?

In this way the system can be easily tailored to your requirements and as your needs change your system can be adapted too.

The PegaSys system is being specified and serviced through a network of Approved Installers throughout the UK, who are specialists in providing and installing electronic access control solutions.

Information about these and other security systems and products is available from Ingersoll Rand Security Technologies (tel 01922 707400) or by visiting security.ingersollrand.com/pegasys.



Pegasys - the wireless intelligent locking system from Ingersoll Rand Security Technologies

PIVOTAL ISSUE

SIMON GARDINER, SALES & MARKETING DIRECTOR AT ROYDE & TUCKER, PROVIDES A GUIDE TO EMERGENCY RELEASE DOOR PIVOTS.

Changing accessibility requirements and more enlightened design have led to an increased use of double action pivots and emergency releases (pivot sets) for a much wider range of building types and door/room applications. Traditionally pivot sets have been installed mainly in hospitals or those environments with specific "perceived" disability and accessibility needs, however, as both the guidance with regards to design for accessibility and on-the-ground practice evolves, the increasingly varied scope of application of these items presents new challenges.

Most AIs are familiar with the concept of pivot sets – doors which, ordinarily open in one direction only, but which are required to open in the opposite direction, in certain situations can be fitted with a pivot set. For example, in relation to inward opening doors for accessible WCs, it is important that the door can also be opened outward in the event that someone falls against the back of the door; if the person loses consciousness or is unable to move themselves the pivot set is the only way to gain access into the room without forcibly moving the incapacitated individual as well. In addition, all locks and indicator bolts should incorporate an emergency release facility.

Recent design guidance has increasingly included pivot sets as an appropriate solution to many applications; Approved Document M states: "Preferably, all doors to WC cubicles and wheelchair-accessible unisex toilets open out or, if they open in, the door swing should not encroach into the wheelchair turning space or minimum activity space", in addition "WC compartment doors, and doors to wheelchair-accessible unisex toilets, changing rooms or shower rooms have an emergency release mechanism so that they are capable of being opened outwards, from the outside in case of emergency".

More recently BS 8300 2009 states: "Any door to sanitary accommodation, whether opening inwards or outwards, should be capable of being opened in an emergency if a person inside has fallen against it and is unable to move. The use of pivot hinges, in conjunction with an emergency release door stop and bathroom lock, that can be opened from the outside, can provide this facility. A door fitted with a privacy lock should have an emergency release, that can be opened from the outside and, if not sliding or opening outwards, should have an alternative means of gaining access in an emergency. A means of indicating whether or not a compartment is in use should be provided, preferably with the words "vacant" or "occupied" clearly visible and with a change in the colour of the indicator". Also, with regards to WC compartments, BS 8300 2009 states: "inward opening (only) compartment doors should be used only in existing buildings where there is no alternative".

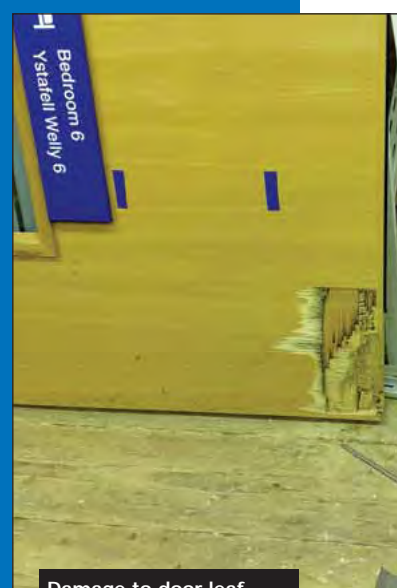
In addition to the accessibility focussed areas above there is one key safety issue that pivots help resolve and that's in reducing the occasions where an otherwise outward opening door could obstruct emergency escape routes, such as in corridors. For these particular situations, the guidance and in general the spec-by-spec practice is well understood and implemented. Other circumstances however present their own unique idiosyncrasies and challenges, such as in corridors, and in secure situations where an anti barricade facility is required to allow access if the door is being forcibly prevented from opening inwards - in the case of a mental health unit, by the patient, or inmate in secure accommodation.

This can present pivoted doors with several issues, for slightly different reasons. One being site orientated, as corridor doors tend to be either far more frequently used and possibly abused, such as being crashed into by trolleys, beds, etc and in the case of secure where patients and inmates physically attack the door - what might be termed "abnormal usage". These arduous door locations, in conjunction with the fact that the door leaf itself is mounted at only two points (top and bottom), mean that the door can be vulnerable to damage when subjected to exceptional forces, specifically where the door mounted components are fixed. In essence there is nothing wrong with the doorset itself, however in the real world extraordinary occurrences happen, sometimes frequently, and the net result is that the door leaf becomes damaged.

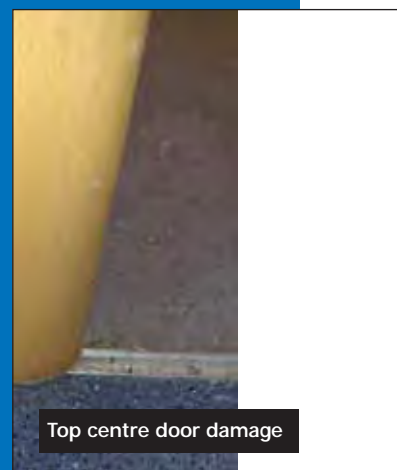
To avoid this situation, specifiers should consider the use of pivot protectors to pre-empt possible future damage and increase the door leaf's resistance to either accidental harm or abuse. Pivot protectors are effectively purpose made protective shoes that wrap around the vulnerable areas of the door and significantly reduce the likeliness of the door mounted pivot, floor spring or transom closer components, putting stress on the opposite door face when subjected to pressure, reducing the likeliness of the opposite door face splitting.

Royde & Tucker have recently launched two pivot protectors, one for 44mm thick door leaves (H131-P44) and one for 54mm thick door leaves (H131-P54). Produced in conjunction with Systembox, these two units are manufactured in grade 304 stainless steel as standard and offer a real solution to the above issues with a proven record either as a retrofit product - negating the need to replace the whole door leaf – with all the associated costs and as an initially specified item preventing any damage in the first place.

For more information on Royde & Tucker's Emergency Release see www.ratman.co.uk



Damage to door leaf from abuse



Top centre door damage



Pivot protector shoe



FAMILY TIES

The Monaghan name is well known in the AI trade and Helen Curry has

been talking to the family's matriarch, Marilyn who has recently retired from the family business about how the name was established, and its plans for the future.

Marilyn started her own career in architectural ironmongery at 18 as a secretary at G Cartwright in Leeds where she stayed for ten years. Her potential was quickly recognised and her role developed into sales and estimating. "There were not many women in the industry in those days," Marilyn remembers. "It's great to see so many women coming through now and in key positions too – that's one of the biggest and most positive changes I've seen in my time in the trade."

She was eventually promoted to the board at G Cartwright, with responsibility for pre-packed ironmongery. She helped set up a specialist division called Saxon Hardware which sold exclusively to Builders Merchants. "Pre-packed hardware was quite a new idea in those days," she says "but the business went very well from the start. The packaging was quite crude compared to what we have now – remember this was the very early days of door packs – but merchants soon accepted the idea." It was at G Cartwright that Marilyn met John Monaghan, the MD, who she later married.

John left Cartwrights to set up his own business John Monaghan Ltd with his brother Bernard in 1974. The business, which originally operated from John's home garage, took off quickly and had moved to its own premises with a trade counter in Ossett within twelve months. Marilyn rejoined her husband in business to set up a new division called Dale Hardware to distribute imported and pre-packed hardware – a business which she headed up for the next 20 years. The company imported product from China and Marilyn soon built up considerable experience in dealing with the Far East and has fond memories of travelling with John to Hong Kong and Taiwan regularly on business.

In 1989 John expanded into the Midlands with Dave Baker and Paul Mason and 1991 saw the launch of a new company in Rochester with John Planck. Sadly, John died unexpectedly following a very short illness just as this new venture was being launched, and it fell to his brother Bernard who took over the role of MD to move this new business forward with John Planck.

In 1994 the company took the opportunity to broaden its base further in

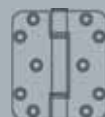
Being absolutely certain of the design, materials, components, assembly and product reliability remains an ongoing challenge for specifiers; and any uncertainty, putting you and your company's reputation on the line in terms of quality and longevity a potential risk.

HI-LOAD hinges from Royde & Tucker are unique in their construction and performance and are designed for longevity and as a 'fit-and-forget' solution and are maintenance free. In addition HI-LOAD's construction creates exceptionally low resistance to door opening/closing and importantly, ensures this high level of performance throughout the hinge's lifetime, allowing door closer power to be kept to a minimum and contributing to a highly efficient doorset. HI-LOAD hinges have a 25 year performance guarantee as standard and where appropriate are Certifire approved, CE marked and conform to BS EN 1935.

Peace of mind is available at www.ratman.co.uk



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HI-LOAD® Hinges out

HI-LOAD is a Royde & Tucker registered trademark

RAVEN
Acoustic, Fire & Smoke Seals

Newcastle when Paul LePatourel and John Boulding opened a trade counter operation with John Monaghan Ltd's backing and J&P Hardware was established.

When Bernard retired in 1996 Marilyn became Group MD and John Monaghan (Holdings) was formed. "It was the right time in our development to merge the various factions of the Group under one umbrella and provide a stronger more streamlined infrastructure," says Marilyn. "This process and the integration of our various systems created efficiencies that benefited everyone in the Group." The Monaghan Group has developed and adapted to various market situations in its lifetime and there are now currently eight trading companies under the JM Holdings umbrella, all involved in the distribution of architectural ironmongery into most sectors of the construction industry.

While Marilyn has seen the industry change a lot during her career, some things have remained the same. "The industry is almost unrecognisable now to what it was in those early days, when stockholdings were huge and there were no computers, phones or internet! But the things that mattered then were good customer service and quality products and this is still the case now. This philosophy has always been at the heart of what the Monaghan Group offers and consistently delivers and what has sustained us over the years. We have survived two recessions and are currently negotiating our way, successfully - so far, through these current difficult times."

Marilyn retired in April this year but says she is still coming to terms with the fact that she is retired and is still setting herself new personal challenges - the first is to trek the Inca trail in Peru to raise money for Wakefield Hospice, a cause close to her heart since it provided John's palliative care. (You can sponsor Marilyn by visiting www.justgiving.com/marilynmonaghan).

But while Marilyn is no longer in daily control of the Monaghan empire, it still remains very much a family affair. Four of John's five children - Simon, John, Daniel and Frances - are all involved in the business and one of Marilyn's proudest achievements is to manage this clear succession plan

ensuring stability and security for the group's employees. "I know that the strong family ethos that has always prevailed will carry on," she says. Simon is Group MD while John is MD of John Monaghan Ltd and Daniel is Purchasing Director of Dale Hardware. Daughter Frances McCann is HR manager for the group.

"I leave the Monaghan Group at the 36 year point in the Group's history," she reflects. "The next generation have now picked up the baton and I know they have a long term approach to the business. They are committed to taking the Group forward by building on the hard work of previous generations and I fully expect the Monaghan name to feature prominently in many areas of the hardware industry for years to come."

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perform, outsell and most definitely, outlast.



**Double-Action Pivots &
Emergency Releases**

HI-LOAD® Hinges

UNHINGED? YOU COULD BE...

ROBIN GUY, Dip GAI, M Inst AI MANAGING DIRECTOR OF SIMONSWERK UK,
ANSWERS SOME OF THE FREQUENTLY ASKED QUESTIONS REGARDING DOOR
HINGE SPECIFICATION

What grade of hinge should I specify?

BS EN 1935:2002 (performance test) hinges are graded from grade 3 to grade 14, grade 3 is for hinges to carry a door mass up to 20Kgs and grade 14 is for doors up to 160Kgs. Most of the time it's not necessary to specify above a grade 11, which covers doors up to 80 kilos in weight. But don't forget to consider the adjusted door weight with the weight of other hardware added and consider the effects if fitted with a door closer.

What should I look for when specifying hinges for fire doors?

For both 30 minutes (FD30) and 60 minutes (FD60) fire doors, ensure the hinges are CE marked which means the hinges have been manufactured in a quality controlled environment, normally under ISO 9001 or similar standard, the hinges have been performance tested to BS EN 1935:2002 and tested as part of a door set to BS EN 1634-1 2000. It's not always the case that a CE marked hinge is suitable for 30 min and 60 min fire doors and it's best to check this with the manufacturer. It's also worth checking if the hinges need to be fitted with intumescent pads behind the hinge leaves.

How many hinges should I fit to a door?

BS 4787 part 1 states that three hinges per door should be fitted to each door leaf if

doors are taller than 2.1 Metres (2100mm) a fourth hinge should be used.

Where should I position the hinges?

Normally 3 hinges per door leaf fitted 250mm from the top of the door to the centre of the top hinge and 250mm from the bottom of the door to the centre of the bottom hinge the middle hinge should be fitted centrally in the door leaf. For four hinges it's worth checking with the manufacturer.

If fitting a door closer what differences will this make?

Adding a door closer will put extra strain on the hinges due to the external forces applied by the closer. This has a disproportional effect on the calculated door weight by around + 20%. If fitting a door closer with a back check function +75% should be added to the actual door weight and if possible try to use longer fixing screws in the hinges for extra support into the door frame.

What material should the hinges I select be made from?

There are pros and cons for all materials:-

Stainless Steel:-

Pros:- Strength, high melting point, corrosive resistance (dependent on grade supplied, 316 being the best)

Cons:- Limitation of finishes available, accuracy of rolled joints, Cold appearance, little or no anti bacterial properties.

Rolled Steel Hinges:-

Pros:- Strength, high melting point, relatively inexpensive

Cons:- Accuracy of rolled joints, low corrosion resistance.

Extruded Brass:-

Pros:- Accuracy and sizes of extruded sections, multitude of finishes available, corrosive resistance, natural anti bacterial qualities

Cons:- Low melting point (although certain brass hinges are tested to FD60), hardness of material.

Extruded Aluminium:-

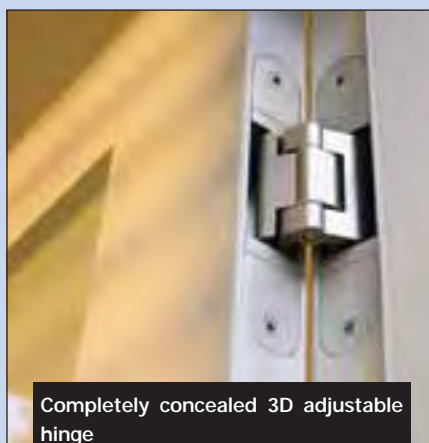
Pros:- Accuracy of extruded sections, relatively inexpensive, corrosive resistance.

Cons:- Low melting point (certain aluminium hinges are fire tested), hardness of material

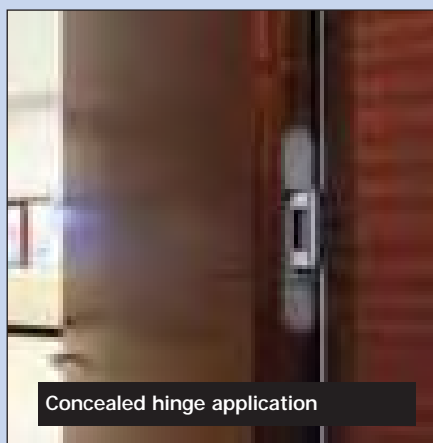
There are of course other materials cast iron, cast brass, cast bronze, nylon etc but the above are the most commonly used materials.

Should I inform my customer to lubricate the hinges once fitted?

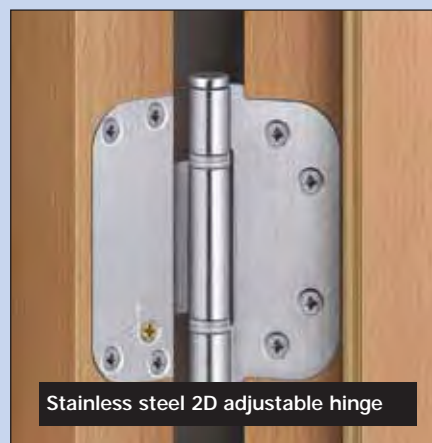
It's always best to refer to the manufacturer's guide lines, but normally once after fitting and



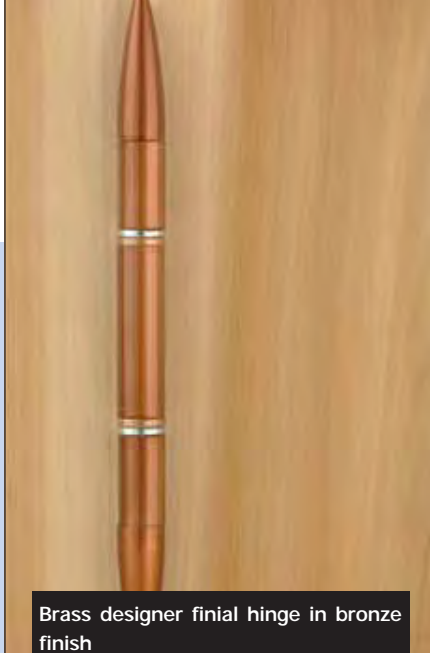
Completely concealed 3D adjustable hinge



Concealed hinge application



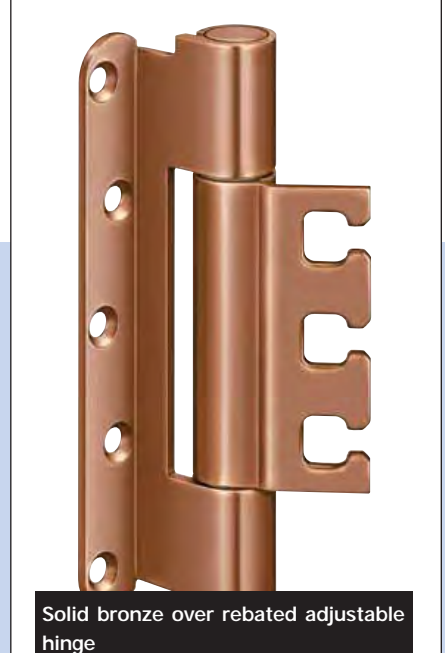
Stainless steel 2D adjustable hinge



Brass designer finial hinge in bronze finish



Adjustable butt hinge with compact receiver



Solid bronze over rebated adjustable hinge

then once every six months with a light oil such as SAE 80 MIN or equivalent.

Some hinges are maintenance free which means they require no lubrication because they have special Teflon type bearings or sinter bearings which are impregnated with tiny pockets of oil and will self lubricate as they start to wear.

What should I clean my hinges with once fitted?

We all hate to see it, beautiful expensive hinges with paint all over them! It's obvious but worth a mention to remove or at least mask off hinges when treating timber doors and frames. Some varnishes and stains can attack the finish or base material. General cleaning of hinges should be done with a damp cloth with a light oil or lanolin (ensure to avoid the woodwork). This should be enough to keep the finish in its original condition. Some cleaning agents can also attack the finish of a hinge and could affect the bearings.

What if my door is unusually high or wide?

BS EN 1935:2002 offers a chart which explains the increase factor of a door leaf mass as a door becomes wider than 1 metre (1000mm) this is printed in most hinge manufacturer's literature. For doors higher than 2.1 metres (2100mm) a fourth hinge should be

considered but double check with the manufacturer and ask for the recommended positioning.

How does the handing work on Lift off hinges and Rising hinges?

The GAI and most UK manufacturers refer to the ISO figure 5 Clockwise closing (Left hand) and figure 6 Anti-clockwise closing (Right hand) method of handing. Please double check this with the manufacturer if in doubt, as some European manufacturers use the German DIN method which is the opposite way.

What about adjustment once the door is fitted?

Adjustable hinges are available from certain manufacturers that allow the hinge to be adjusted insitu by means of an Allen key or Screwdriver. The hinge can be altered in the height, side and on the compression, enabling the fitter to achieve the perfect gap around the door or alter the door after building settlement which often causes problems long after the original fitting.

What hinges should I use for a Coastal Environment?

Salt water will eventually penetrate most lacquered finishes and cause hinges to discolour and in the case of steel start to rust. 316 Marine grade Stainless Steel is the best material for resisting harsh salt water

environments but also polished unlacquered brass is one of the best metals providing it is maintained and is used by boat and yacht builders. Manufacturers normally offer test evidence to BS EN 1670:1998 where hinges are hot salt spray tested for up to 240 hours.

If I fit a fourth hinge does this automatically increase the weight carrying capacity of the hinges?

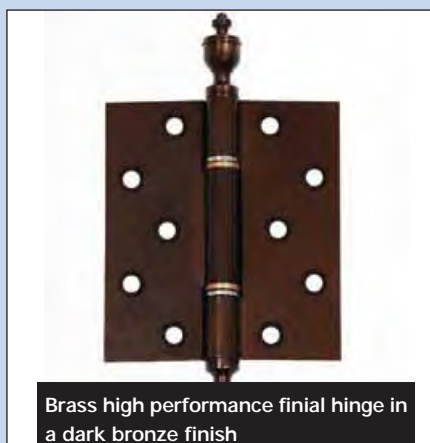
Normally it is possible to increase the weight carrying capacity of the hinges by approximately 30% by adding a fourth hinge, but this depends on the hinge type and should always be double checked with the manufacturer.

If I fit a door in the entrance to a busy office building should I over specify the hinges?

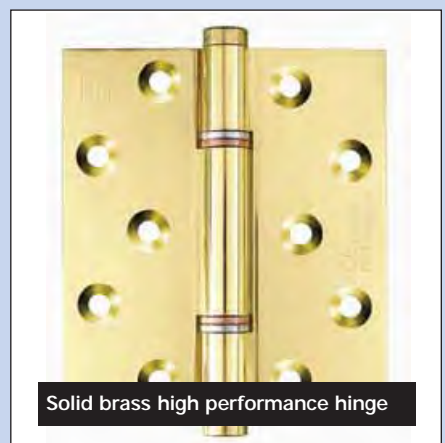
In this type of environment the hinges will operate approximately 1 million times per annum and require a heavy duty hinge, which can withstand more than just the weight carrying requirement. Hinges with maintenance free bearings and larger hinge knuckles to give the largest bearing surface are normally best for these situations. If the hinges look heavy duty enough and all the manufacturers test evidence reflects the door requirements they should be up to the job.



Stainless steel heavy duty adjustable hinge



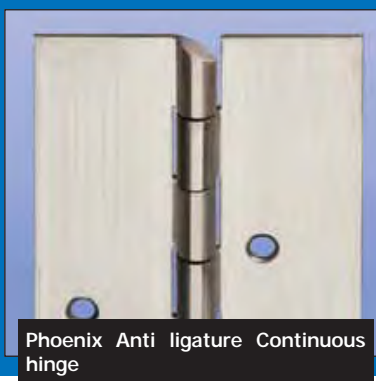
Brass high performance finial hinge in a dark bronze finish



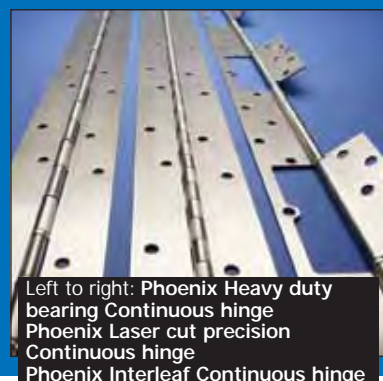
Solid brass high performance hinge

HINGES UNDERGO A REVOLUTION

Ahead of the arrival of the updated EN 1935 single axis hinges standard, Philip Cooke, Managing Director of Cooke Brothers highlights dynamic changes in the industry.



Phoenix Anti ligature Continuous hinge



Left to right: Phoenix Heavy duty bearing Continuous hinge
Phoenix Laser cut precision Continuous hinge
Phoenix Interleaf Continuous hinge

Whilst hinges have not always been the most exciting of products in the Architectural Ironmonger's bag of tricks, the number of changes at present hitting this sector of the market quite literally make it somewhat of a revolution.

The human race has long had a need to close off, re-open, and secure access routes from one space to another, a function admirably performed by doors, and yet it is only really in the last few decades, and especially the last few years, that true aesthetically pleasing choice has come to the aid of the architect and property owner.

First and foremost the engineering needs have to be met. Commencing with BS 7352 in 1990, and followed by EN 1935 in 2002, hinges were endurance tested for first 120 kilos, and then up to 160 kilos, maximum door mass. Now the standard is on the move again, with a new release anticipated later in 2010. There is still considerable conjecture over the final version, but as a leading UK hinge manufacturer, we are hopeful that at least some of the following will be incorporated. Higher overall load ratings, with grades anticipated at 200 kilos, 250 kilos, and a 250+ kilos door mass.

In our experience doors are getting larger and heavier, with Approved Doc M advising on 1,000mm openings for entrances accessed by the public. As well as the actual door mass, complete with all ironmongery, use of a door closer increases the calculated door mass by 20%, by 75% for a back check door closer, although it is pleasing to see that the requirement for a simple spring hinge or uncontrolled sprung door closer in 3 storey residential properties was dropped a few years ago following a steep rise in finger trapping incidents.

Secondly, although currently less likely to be adopted, recognition of the split in the marketplace between 'lubricate regularly', and 'maintenance free' hinges is somewhat confusing. The present test allows for an initial lubrication, plus re-lubrication every 25,000 cycles, something rarely carried out in the real world. Bearings designed to be self lubricating such as those made as an oilite bush or of a high performance polymer tend to give the best 'maintenance free' performance, whilst many traditional ball race bearing hinges start off well from the initial high packing of grease, but as this leaches out both unsightly staining and bearing collapse can

quickly follow.

Thirdly, higher cycle testing, 200,000 cycles can easily be surpassed in just a couple of years in corridor applications, and although an onerous burden, the addition of $\frac{1}{2}$ or even 1 million cycle test would certainly be of interest to the marketplace.

The revised standard is proposing the incorporation of an architectural continuous hinge. This product, designed to cover the full height of a door, is growing in popularity, and it is pleasing to see its likely ability to now be available certified within EN 1935. Having potentially far more capacity for extra bearing surfaces, the move up to 250+ kilo door mass grades will undoubtedly further increase the popularity of this product on high load, high security, applications.

To summarise, when installing in a fire door application, and even when not, select a CE marked hinge. This is not a mandatory requirement in the UK yet, but it does fall on the shoulders of the specifier to ensure that the hinge is both fire tested and endurance tested, and CE remains the best route to fulfilling that obligation. Certifire registration assists this process further, as it allows use of the product over a wider range of door sets than might otherwise have been the case from a single fire test assessment. Aim for selection of maintenance free whenever possible, particularly if annual cycles are likely to exceed 25k per annum, the usual case in commercial environments. The small premium usually outweighs the longer-term costs of routine re-lubrication. An annual inspection remains a worthwhile investment; involving re-lubricating maintained hinges and wiping any contaminants off maintenance free hinges.

Whilst many specifications still state 'ball race bearings', this should not be interpreted too literally. In most cases it means the specifier is being asked to provide a high performing, low friction hinge. Modern polymer bearing hinges work on opening forces of under 1 Nm, assisting in meeting the recommendations of BS 8300 and Approved Doc M, a solution within our own Phoenix range but also one which architectural ironmongery outlets will be pleased to offer options on.

Whilst the above is rather evolutionary, the revolutionary comes in the form of the actual hinge design.

Contemporary design is very much in vogue at present, simple, clean lines, so too is safety. These demands can be met in a number of ways. Concealed bearing butt hinges, typically of a free knuckle configuration, half let in to the door and frame with an anti ligature part angled end cap are considered very 'of the moment'. So too are the new interleaf continuous hinges, having one hinge leaf cut out of the other, with long, typically 200mm, knuckle lengths adding to the clean line appearance. Geared aluminium continuous hinges have a cover plate to give a similar wipe clean appearance.

Fully concealed hinges fitted between door edge and frame, whilst a pricey solution, present an excellent solution to the connoisseur, maximising the effect of a magically hinged door with minimal ironmongery. Even higher up the cost chain, but well suited to contemporary design, is the pocket door, becoming completely concealed when open.

An interim stage is the widening group of semi concealed adjustable hinges, still having a visible knuckle, but having 2 or 3 axis adjustment for ease of installation.

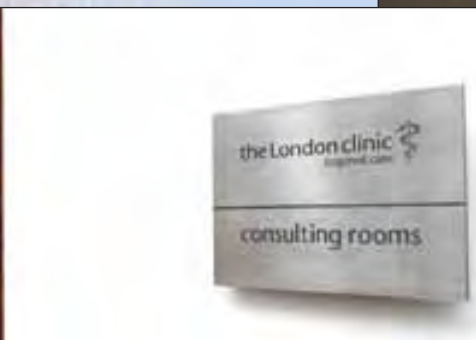
Growth in the safety needs of the marketplace is spawning loads of new solutions. Anti, or technically 'reduced' ligature hinges, designed and tested to DHF Technical Standard TS 001, for which the relevant Phoenix products have been tested and passed, are becoming a must for almost all buildings used by the public. Door edge safety can be overcome with hinge guards or rounded door hinging edges and the use of door pivots.

For healthcare applications where emergency access is required by opening the door in the opposite direction, quick release systems coupled to a two way hinge design is required. Traditional double acting spring hinges cannot fulfil this function owing to their inability to hold the door tight to the frame if lent upon, but there are now some very innovative solutions coming to the marketplace – watch this space in the coming months.

For too many of these hinge options the development of a test standard lags a long way behind, but where EN 1935 has led, it is to be hoped other standards will follow.

For further details contact Philip Cooke, Cooke Brothers Ltd on 01922 740001 or visit www.cookebrothers.co.uk

DOCTOR'S ORDERS



Two completely different architectural styles within one major refurbishment project posed a real challenge for architectural ironmongers Laidlaw Solutions. Helen Curry talks to the team behind the project on London's famous Harley Street to find out more.

When Wimbledon-based architects Floyd Slaski were tasked with the refurbishment of 114 - 120 Harley Street in the West End's famous medical neighbourhood by client The Howard de Walden Estate, the project presented a number of challenges.

The client's brief was to provide an open plan speculative commercial building by completely gutting the three existing buildings in the block. The façades of 114 and 118 had to be retained as a requirement of the conservation officer but the existing façade of 116 had to be demolished due to the difference in floor levels between 116 and the two adjacent buildings, 114 and 118.

As is typical for buildings in this area, the buildings extend back to two mews buildings which have also been incorporated into the scheme. The Planning Authority required that the mews retained its residential function so two one-

23

DOCTOR'S ORDERS

bedroom flats were provided behind the front elevations to the mews whilst behind the rear elevation of the mews, commercial space was retained. The total commercial floor area of the scheme is 2500sq feet and the project has an estimated value of £10.8 million.

After the work had started on the buildings, The London Clinic - the UK's largest independently-owned hospital - signed a deal to occupy the space and made plans to fit out the building as a pathology lab and consulting rooms. The redevelopment took 36 months to complete. It includes 29 new consulting rooms for, amongst others, a select number of gastroenterologists, neurosurgeons, general surgeons, and those consultants forming both The London Clinic's Liver Centre and the renowned London Spine Clinic.

"The fit out fell into two distinct parts," says Mike McCann who handled the project for Laidlaw Solutions. "However, for both parts the architects required a very high level of finish and spec throughout."

In numbers 114 - 118 the fit out was modern and contemporary and the architects specified hardware in satin stainless steel to reflect that. Elliptical levers and pull handles were selected from Laidlaw's Orbis Premier range together with special sized push plates from the same range. These featured insert holes to take 50mm insert discs with "fire door", "keep shut" and WC signs. Where appropriate, locks from Laidlaw's Orbis Commercial range



with 72mm centres were specified. Orbis Premier is a co-ordinated range of architectural hardware featuring lever and pull handle designs which can be combined with a distinctive backplate system and in a 'Dual' finish if required. Its design features are combined with high quality performance and contemporary style which makes them ideal for such high-profile applications.

In the back of house areas the client selected standard adjustable power closers from Laidlaw's Commercial range but in front of house and public access areas, Dorma cam-action TS93 door closers were used.

Unlike conventional rack and pinion closers the Dorma TS93 cam-action closer has

ai profile

laidlaw

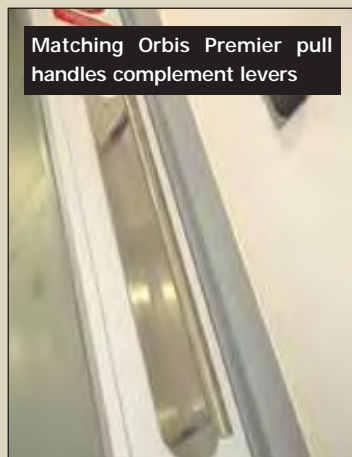
Orbis Premier Return to Door lever handle with matching escutcheon



Contemporary door styling for numbers 114 - 118



Matching Orbis Premier pull handles complement levers



Orbis Premier adjustable door closers



LAIDLAW SOLUTIONS

Helen Curry takes a look at Laidlaw Solutions, the AI responsible for the Harley Street project.

For over 130 years Laidlaw has been supplying door hardware and fittings to some of the most prestigious buildings in the UK and overseas, building an enviable reputation during that time. The Laidlaw philosophy is to work closely with architects and specifiers to provide a total solution to suit each particular application. Each element is selected to meet the performance, aesthetic and budgetary requirements of the project. The company supplies to a nationwide network of contractors and delivers solutions in all areas of the construction industry.

"At Laidlaw we pride ourselves in knowing our marketplace. Our unrivalled expertise coupled with product development and continual innovation across all aspects of our business enables us to respond to the changing needs of our customers. With a client list which includes Sainsbury's, Tesco, Asda, HBOS, Portakabin and Virgin and a long list of leisure, health and education projects, those needs can be very demanding," says Managing Director, John Jefferies.

Laidlaw's long history, dating back to 1878, has involved the company in a series of transitions, including ownership by Newman Tonks and Ingersoll Rand. In 2003, the business was taken over by a management team led by John Jefferies who, as soon as he looked at the company, realised its potential. "It was a gem of a company but it was lacking leadership," he says.

John has built a new management team and changed the culture of the business to focus on delivering against specific objectives to support sales and service to Laidlaw's customers. "Our key goals were to reacquaint ourselves with our customers, understand their needs and devise ways in which we could add value to their business as well as ours," says John. "We also looked at the market to find ways to expand our product and service offering and through the supply chain see how we could extend our involvement – from manufacturing right through to contracting."

The doorset and handrail divisions established at this time have provided a bedrock of growth for the company. Both are a logical extension to conventional ironmongery and give Laidlaw even greater project involvement. The addition of Access Control and an extended Signage range has further enhanced the offering.

Laidlaw's entire product range is supplied through a sales force which incorporates experts in the various specialist areas. Despite the new initiatives, traditional ironmongery is still at the heart of Laidlaw's business. They remain the largest independent AI in the country with 13 locations - 10 with trade counters, around 200 staff and an increasing range of products manufactured to their own designs.

// AT LAIDLAW WE PRIDE OURSELVES IN KNOWING OUR MARKETPLACE. OUR UNRIVALLED EXPERTISE COUPLED WITH PRODUCT DEVELOPMENT AND CONTINUAL INNOVATION ACROSS ALL ASPECTS OF OUR BUSINESS ENABLES US TO RESPOND TO THE CHANGING NEEDS OF OUR CUSTOMERS. //

24 a linear drive mechanism and heart shaped cam which means that opening forces well below 30N can be achieved when adjusted to size EN3, the power requirement for fire doors. As a result, when the door is opened the opening force falls away rapidly after the first few degrees resulting in little resistance throughout the opening cycle, yet it will always ensure full and correct closure of the door.

The doors were manufactured specially for the project by LS using an American cherry timber. The architraves were special design and Laidlaw had to provide the channel and arm of the closer in as close a match as possible to enable it to be cut into the architrave.

The contrast in hardware at number 120, however, couldn't have been greater since its front of house areas had to retain the original period style. To achieve this, the architect chose satin brass knobs and levers with a clean, simple traditional design from the Brassart range. Brassart knobs and handles are manufactured in the Black Country using local materials and hand finished and polished by craftsmen using traditional techniques. A mix of horizontal and upright lock cases with suited cylinders completed the package. All the external entrance doors fronting onto Harley Street were fitted with period hardware in keeping with the area's original Georgian style architecture.

“ ALL THE EXTERNAL FRONT ENTRANCE DOORS FRONTING ONTO HARLEY STREET WERE FITTED WITH PERIOD HARDWARE IN KEEPING WITH THE AREA'S ORIGINAL GEORGIAN STYLE ARCHITECTURE. ”



Brassart knobs at number 120



orpington

debenhams



BEST DRESSED DOORS

The many shoppers enjoying a visit to the desire by Debenhams store at the Nugent Shopping Centre in Orpington are benefiting from trouble-free access and egress - thanks to the installation of a highly efficient and reliable automatic sliding door system by GEZE UK,

The desire by Debenhams store features a striking double height frontage to attract customers through the doors. The type and style of entrance door was therefore crucial both to accommodate the high volume of traffic, trolleys and pushchairs, and to complement the stylish glass-dominated frontage of the store. Designed both for performance and for its aesthetic appeal, GEZE UK's Slimdrive SL system was chosen to maximise that all-important entrance facility for desire by Debenhams.

The Slimdrive SL is part of a range of electronic automatic door systems that are unique to GEZE UK. It comprises an extremely slim automatic door operator that blends almost invisibly into the glass door frames and features integrated movement sensors and a fully compliant safety system. It is also quick and easy to assemble and install.

hertfordshire

parmiter's school

NO DRAMA WITH ED 100

DORMA's new ED 100 low energy swing door operator has been fitted to the entrance doors to the new Drama Department at Parmiter's School, Hertfordshire.

The award-winning building, designed by local architect ACP Co-Partnership, is designed for easy access for all, in accordance with Part M of the Building Regulations and the requirements of the Disability Discrimination Act.

The ED 100 is the latest development in DORMA's range of door operators and combines low-energy operation with the company's highly successful heart-shaped cam technology.

The main entrance employs the ED 100 with push-pad actuator to ensure ease of use for people with disabilities. When fitted to a traditional door, the ED 100 allows the door to be used conventionally until assistance is required. If assistance is required the low energy operator takes over and opens the door under power. This is most commonly achieved via push-pads fitted to the wall on both sides of the door, alternatively hand held remote transmitters can be used to operate the door.

The drive unit is an electromechanical system consisting of a powerful DC motor and multi-stage high-performance gear which is so quiet in operation it is barely audible. Although smaller than previous units, the ED 100 is the most powerful swing-door operator DORMA has ever manufactured. Despite its power, the ED 100 consumes less energy than most comparable operators.



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GEZE MAKES HISTORY IN HULL

GEZE UK has secured a place in Hull's historical archives, by installing two circular entrances to the new History Centre's unique curved atrium.

Part of a £10.7m project, the Hull History Centre is a purpose-built facility designed to make historical archives accessible to the public and for the first time, priceless records of the city's past have been gathered under one roof. With accessibility in mind, GEZE's automatic curved sliders were chosen to create a stylish, minimalist and functional glass entrance that provides both impact and ease of use. At both ends of a linear glass arcade running along the south face of the building, four Slimdrive SC automatic operators were fitted in pairs to create two cylindrical draft lobbies, keeping heat loss to a minimum, while enabling easy ingress and egress for all members of the public.

GEZE UK's team of engineers worked with the contractors on site to modify one entrance, which needed to incorporate a slope. This was achieved through alterations to the design of the sub-floor stainless steel rings and the door assembly.



AUTOMATIC FOLDING DOORS SOLVE A PROBLEM

Dor-O-Matic folding lobby doors from Ingersoll Rand Security Technologies, have solved the problem of accessing an awkward entrance at the Ibis Leeds Centre Hotel.

Due to the central city location and restricted access resulting from the angle of the entrance, traditional automatic doors would have been too large and would have caused an obstruction. To solve this problem, Dor-O-Matic folding doors were installed at the entrance and inner lobby. This double door system not only creates a draft-proof lobby but also provides a shelter against bad weather and a contained area for trapping dirt and cleaning shoes. The lobby also reduces exterior noise pollution from the street, creates a cleaner and warmer reception area and enhances the luxurious feeling for the hotel reception.

Dor-O-Matic folding doors are specially designed for this type of application, providing maximum access when space is limited. They are available as a single or simultaneous pair of folding doors, requiring less space, creating unobstructed opening and easing bi-directional traffic flow.

luton

high school



NEW SCHOOL BUILDING PUTS SAFETY ON TOP

As the staff and pupils of Challney Girls High School in Luton look forward to moving into the school's new building towards the end of this year, Bilco has ensured safe and easy access to an area that most of them will never see.

Bilco has supplied five D-50T roof hatches which will provide access to the roof area for cleaning and maintenance purposes.

Each hatch measures 2,000 x 2,000 mm and features overlapping covers and a spring operation system to enable smooth, easy-to-operate access at all times.

Their heavy gauge construction and positive latching mechanism ensures that the hatch remains secure while providing safe and easy access to and from the roof area.

The overlapping cover design, fully welded corners on the cover and curb, EPDM rubber gasket and fully insulated cover and curb help architects and specifiers to meet Building Regulation requirements for air tightness and thermal efficiency. The curb features the Bil-Clip® flashing system, an innovative method to quickly and easily secure single-ply roofing material to Bilco roof products.

The access hatches were specified by the project architect, ACP and installed by contractor Tilbury Contracts.

newport

civil court



THE LETTER OF THE LAW

Laidlaw Solutions' Orbis Premier door hardware has been used throughout the refurbishment of Newport Gwent's Civil and Family Courts. 120 doors were fitted on two floors using the distinctive handle and backplate design. Andy Jones of Stephen George Architects' commented, "The Orbis Premier Satin Stainless Steel handles, closers and accessories were chosen for their appearance and styling and because we required ironmongery which was sufficiently robust to withstand very heavy usage". All Orbis Premier ironmongery carries a 15-year defects guarantee.

aberdeen

international school



AN EDUCATION BY DORMA

DORMA has supplied in excess of 260 door closers and floor springs for installation in a new building project at the International School in Aberdeen.

The project, designed by leading Scottish architects Holliday Fraser Munro, employs 207 of DORMA's TS92 door closers, 4 TS92 EM and 14 TS93 EM electromagnetic door closers, 38 BTS 80 EMB electromagnetic floor springs. Due to the busy environment and high level of traffic in the schools corridors 4 additional TS92 closers were supplied with DORMA's EM electromagnetic slide channel assembly. This enables the door to be held open securely at a pre-selected position without fall-back.

In the event of an alarm or a fault in the power supply, the hold open device is released and the door is closed by the closer. The hold-open device can be adjusted without tools and can be manually overridden.



■ COPPER PLATED HINGES

COPPER HINGES

Following a review of clinical research into the antimicrobial efficacy of copper, SIMONSWERK UK has introduced into their popular hinge range new copper plated hinges. A case study by the Copper Development Association at Selly Oak Hospital, Birmingham in 2009 highlighted the scientific evidence to support the replacement of hardware on hospital and surgery doors, with those incorporating copper, overwhelmingly proven to kill or inhibit the growth of micro-organisms, reducing contamination and diminishing the risk of infection. Prompted by the research conclusions SIMONSWERK have developed the first copper plated door hinges which they believe will, along with copper door hardware, be an environmental asset in reducing the spread of infection.

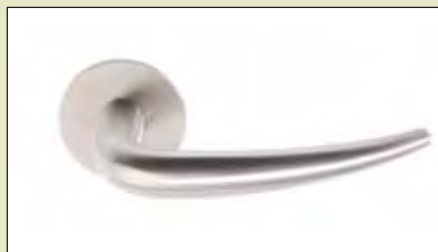
■ HARDWARE

INCREASING FUSION

Monaghan Group launched Fusion Architectural Hardware in 1991 and since then the range has evolved into a comprehensive and co-ordinated range of quality products designed for use in today's demanding buildings. The collection includes Lever Handles, Knob Furniture, Pull Handles, Push Plates, Back Plate Systems and Kicking Plates.

By using the latest manufacturing technology, the Monaghan Group has introduced new and innovative designs to the range, which are available in both Stainless Steel and the more traditional Polished Bronze finishes.

Fusion hardware is only available from the Monaghan Group, a GuildMark company, which has branches and group companies across England.



■ HIGH SECURITY PANIC HARDWARE

NO PANIC WITH ASSA ASSURE

ASSA has launched a ground-breaking range of high-security panic hardware, a range which includes the UK's first panic exit device to integrate a push pad or bar with an escape sash lock and has solutions for either panic escape or emergency escape exits, such as office buildings and staff areas.

At the forefront is the ASSURE 1520, the only single-point escape device to incorporate a 25mm hardened steel deadbolt for maximum security. This high-level security solution is supplied with either a push bar or push pad, plus an ASSA Modular 1520 escape sash lock with deadbolt. It provides automatic deadlocking and can be incorporated into an ASSA master key system.

The ASSURE range also offers a three-point locking option, ASSURE 300, or a five-point system, ASSURE 500, for double-rebated doors in cases where the utmost security is required.



■ ARCHITRAVE FREE SYSTEM

ARCHITRAVE FREE POCKET DOORS

Portman Pocket Doors has introduced a range of custom precision cut metal profiles for its pocket door system, for a clean architrave free look.

The Portman architrave free system comprises pocket door sets inclusive of new heavy duty metal profiles which act as both door frame reinforcement and provide a beading edge to skim up to, to allow for a minimalist aesthetic.

The metal profile sets are available for both single and double timber door leaves, for installations where a discreet and simple aesthetic is required and where the door opening needs to be frameless, for instance without architrave. In addition, the sturdy and robust metal profiles are quick and easy to install and minimise potential damage that could occur on site.

The entire range of metal sections is custom made to fit the desired Portman Pocket Door system. As standard, the kits accommodate maximum 44mm thick timber/framed door leaves or frameless glass leaves using Portman glass door clamps. The profiles are designed to form the door opening and provide for a neat and tidy finish.



■ ANTI-THRUST NIGHTLATCH

DIN LOCKS RANGE EXTENDED

A new Din Euro Escape lock and Din Euro Anti-Thrust Nightlatch are the latest additions to Eurospec's range of Architectural Din Locks.

The Escape Lock is suitable for left hand or right hand, inward or outward opening fire doors installed on fire escape routes. The lock's escape function allows the inside lever handle to withdraw both the latch bolt and dead bolt together in an emergency exit situation and can be easily changed on site for left hand or right hand opening doors. The latch bolt is also easily reversed using Eurospec's Patented Easi-T latch reversing tool. The lock has been successfully tested to BS EN179:2008 using Eurospec's new innovative Easi-Grip half spindle, together with a comprehensive range of Eurospec safety levers.

Both the Escape lock and new Nightlatch feature an Anti-thrust deadlocking trigger which prevents the unauthorised retraction of the latch bolt from outside when the door is closed and both locks have also been successfully tested to BS EN12209.

All the Architectural Din Locks are CE & Certifire approved and are supported by Eurospec's 10 year mechanical warranty. They are all available in Square or Radius formats ex-stock in a satin stainless steel finish with polished stainless steel and PVD Brass fixings packs available as an option.



■ HINGES & LOCKING SYSTEMS

MORE FUHR LESS!

Nico Manufacturing, manufacturers of friction hinges and locking systems, has joined force with one of Europe's foremost manufacturers of door locks.

In a recent distribution agreement, Nico is expanding its product portfolio with the Fuhr range of quality door locks – available now at surprisingly affordable prices.

With 150 years experience in the field, Fuhr has a reputation for designing and manufacturing quality products with excellent reliability.

Nico's new Fuhr range is suitable for PVC-u, composite and timber doors and will be continually expanding to meet the needs of UK customers. This includes the development of locks specifically for the UK market, such as products with extendable shoots for French Doors.



■ RIM LOCKS

CHUBB RIM LOCKS JOIN UNION RANGE

The famous range of Chubb rim locks is now available from UNION in the new C-Series.

This is the final stage in the plan to migrate Chubb products to the UNION and Yale brands, ahead of the discontinuation of the licence to use Chubb on locking products from August 2010, other than on a limited range of specialist custodial locks.

Eight Chubb rim locks in a choice of standard, narrow and traditional styles are now available in the new UNION C-Series, including the BS high security 4L67E rim lock.

The kitemarked BS3621:2007 4L67E rim lock still features a high security cylinder with anti-drill and anti-pick features, as well as automatic deadlocking action and a lockable internal knob. This lock also carries Secured by Design approval.

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■ OVERHEAD DOOR CLOSER

OPENING DOORS JUST GOT EASIER

Ingersoll Rand Security Technologies has launched the Briton 2700 Series, an innovative cast-iron and high efficiency overhead door closer. The Briton 2700 is a precision-manufactured cam-action, slide channel door closer in a compact, overhead surface fixed unit that combines easy opening with safe, reliable closing.

Designed specifically to protect buildings against fire and smoke whilst providing ease of accessibility, the new closer incorporates the innovative and unique FAST PowerAdjust™ function that provides installers and maintenance engineers with a visual guide to the strength of the closer, resulting in a more accurate power setting for a door. This allows installers to quickly identify and adjust spring power, which helps solve the problem of determining the correct door closer spring adjustment for the size of door.

■ CONSULTATION SERVICE

IN A FIX

Cambridgeshire-based Al BJ Waller has been appointed UK distributor for FIX AB products part of the ASSA ABLOY group. FIX develops, manufactures and markets a broad range of locks and fittings for windows, doors and hatches. Founded in 1925, today it is market leader in the Nordic countries and has a very strong market presence in many other countries. FIX specialise in espagnolettes and multi point locks for windows and doors along with a full range of products to complement this vast range. Flexibility enables FIX to produce customer adapted solutions in small or large quantities with short delivery times at a competitive rate.

"We are delighted to take on this range for the UK market, there is already a market for FIX products in the UK but we feel we will be able to grow this market considerably offering great service and a very high standard of technical support. We also believe that the FIX range goes hand in hand with IPA System fittings and Deventer seals, who we are also distributors for in the UK market," says Luke Piper from BJ Waller.

FIX lends itself to architect specification work and also offers complete solutions for small joiners and large joinery manufacturers being a superior solution for almost every external window and door application.



■ BLACK PORCELAIN KNOB

BLACK IS BACK

Carlisle Brass has added a new plain black Porcelain knob to its popular Delamain range. The DK34 is a mortice knob designed as a contemporary twist on the original Victorian version which is popular for refurbishment projects. The new black complements the other knobs in the Delamain porcelain range which include ivory crackle glaze, blue crackle glaze and plain white.

Delamain is a range of exquisitely hand-finished, well-designed concealed and face-fixed mortice knob furniture. The knobs are available in a range of different styles and finishes such as wood, porcelain and solid brass.

Other Delamain knobs include the Beaded, Flower, Reeded and Ringed styles available in different finishes including polished chrome, polished brass, Florentine brass and satin chrome.

■ BESPOKE SERVICE

SIGN OF THE TIMES

In addition to its range of standard Orbis door signage products, architectural ironmongery market leader Laidlaw Solutions now offers a bespoke service for interior and exterior commercial signage. 10 -14 days turn round In addition to standard interior requirements, custom-made dual language, tactile warning and Braille text signage can be supplied as part of a full door, hardware and access control package. In addition to using stainless steel letters/numbers in a variety of thicknesses, signs are produced in PVC and aluminium, while traditional engraved brass nameplates can also be supplied. Existing fittings can be matched and supplied in any standard RAL, BS or Pantone colour.



■ SOFT CLOSING DOORS

SOFT CLOSE COMES OUT OF THE CLOSET!

Soft closing doors are no longer limited to cabinets and wardrobes thanks to the new Smuso softclose 80 system from Häfele UK for full sized sliding doors. Hidden away in the top track the Smuso 80 softclose mechanism means sliding doors are smoothly and silently brought to a stop when they are closed and gently pulled into the end position, where they are securely held.

Reducing the chance of any damage to the users' fingers or the door The Smuso 80 softclose system is designed to be used with Häfele's most popular sliding door gear range: Hawa Junior 80 allowing door weights up to 80kgs made of wood, glass or a combination of the two.





■ SQUARE SHAPED HANDLES

NOT SO SQUARE

Square shaped handle styles are very much in demand and HOPPE has launched the new Acapulco series, which starts from the basic square shape but has a unique, distinct style to develop it beyond minimalist rigidity.

With its elliptic elements, the Acapulco series represents a further development of the commonly used basic, square shape providing the combination of handle and rose with a more subtle design than current square handle designs.

As with all HOPPE door handles the series is backed by a 10 year operational guarantee as well as Resista® offering a 10 year surface guarantee on the polished brass, satin chrome and polished chrome finishes the series is available in. The handle set is supplied with the HOPPE quick-fit connection.

■ TRANSOM CLOSERS

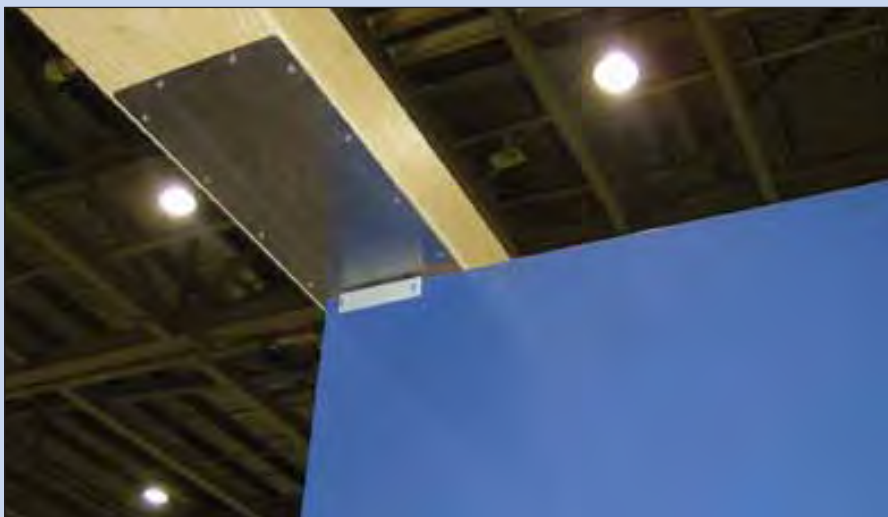
FIRST FOR CE CONCEALED TRANSOM MOUNTED CLOSERS

GEZE UK has launched the industry's first range of closers that are fully certificated to EN 1154 and EN 1155 (Electro hold-open models) for concealed transom mounting.

This new range of transom closers called Invers, provides the solution for double action doorsets, where the use of conventional floor closers is not possible due to floor slab depths or where penetrations into pre-stressed concrete floors are not permissible.

The Invers closers are concealed within the transom, with the spindle connecting neatly to the top strap mounted in the top of the door. This direct connection between closer and door leaf effectively replaces the guide rail or arms, which are features of conventional surface mounted or concealed closers. Aesthetically this is an improvement and in an anti-ligature environment, this installation significantly reduces risk.

This pioneering closer range has been developed alongside Leaderflush Shapland, the UK's leading performance doorset manufacturer, who can now supply doorsets complete with the new Invers transom mounted closers. It is also available direct from GEZE.



■ ELECTRIC STRIKES

ONE STRIKE AND YOU'RE OUT

The Alpro Hardware Division of IEC Limited has announced the release of the new Alpro range of electric strikes.

The new range comprises the AL110 (an ANSI style footprint) strike, along with the AL2000 series of monitored strikes and the AL1500 range of rim strikes, and all of the products within the range have been independently tested.

Available as both fail safe and fail secure and both AC compatible (using the RM1 rectifier) and DC along with 12/24v facilities, the range boasts an innovative change over of function from fail safe to fail secure. The features built into the strikes, allow the Alpro range to be used in a variety of applications.

The strikes are available with a long and short stainless steel faceplate, and 15mm, 25mm, 50mm and 75mm extension lips as required. The strike is complete with a comprehensive fixing kit, affording the customer ease of installation. The strikes are fully CE marked.



■ NEW CYLINDER SYSTEM

KEY TO SUCCESS FOR NEW UNION CYLINDERS

UNION has launched keyULTRA, a new cylinder system made in the UK and with a 19 year patent. Manufactured and built at UNION's Willenhall factory, keyULTRA benefits from DuraPIN patented technology along with anti-drill, anti-pick and GuardPIN bump resistant features.

keyULTRA is built to suit a variety of applications with its wide range of designs and functions. Cylinder sizes range from 30mm x 30mm to 85mm x 85mm. With a key-related security Grade 6, there are over half a million possible key differs providing extensive master keying flexibility. keyULTRA is already proven in durability as it has been tested to half a million cycles and has high corrosion resistance so it can be used to equal effect in a variety of environments.

Due to the fact that keyULTRA has a patent until 2028, users can rest easy in the knowledge that these cylinders and keys cannot be copied.

■ CUSTOM COINING KEYS

MUL-T-LOCK KEY CHANGE IS PERSONAL

Mul-T-Lock has adapted its standard card and key products to allow locksmiths the opportunity to brand key heads with their company details and ensure they are the first port of call for security enquiries.

The unique concept for custom coining keys from Mul-T-Lock will see future product supplied with Mul-T-Lock's own branded inserts. But these can be easily replaced with customer's own details. Mul-T-Lock has set up a special section of its website www.mul-t-lock.co.uk/personalise.aspx to allow customers to design their own personalised key head and preview it on screen prior to submitting an application.



■ CYLINDER CHANGE FUNCTION

ALL CHANGE AT CODELOCKS

Codelocks has recently introduced a front cylinder change function to its CL5000, CL4000 heavy duty electronic locks and CL600 heavy duty mechanical lock, giving users the option to repin or replace cylinders to enable a keyed-alike facility without removing the lock.

The front cylinders on the locks can now be changed by: 1. removing the handle and cylinder, 2. turning the key 90° anticlockwise and removing the cylinder from the boss, 3. replacing the cylinder and refitting the handle. A quick and convenient solution to replace the cylinder without having to remove the lock from the door, saving on time and cost.

The new feature will benefit organisations with multiple, access restricted areas that require a keyed-alike facility in high traffic environments such as offices, schools and hospitals and provide the ability to quickly change cylinders as and when required.



■ MOVABLE PARTITIONS

MORE LIGHT AND LESS NOISE

The MOVEO Glass system from DORMA creates flexible room solutions that optimise space, aid light penetration and transmit less noise. The slim lines preserve the openness of the interior space at all times. This system minimises the transmission of noise through the walls, designers can now incorporate flexible room configurability with noise reduction values of up to 50dB.

This solution is ideal for interior environments such as offices, restaurants, hotels, schools and colleges; optimising the use of space by enabling the creation of rooms within rooms. To maximise ease of use, the manual cranking routine commonly employed by movable partitions is replaced by DORMA's ComforTronic actuator, a fully automatic propulsion system, which guides the upper and lower sealing strips in and out. When two MOVEO Glass elements touch at the front edge sealing strips automatically engage within a few seconds.



>> LITERATURE



NEW SERVICE BROCHURE FROM GEZE

The full range of repair and maintenance services provided by GEZE UK is now featured in the company's new Service brochure.

This comprehensive guide to the after sales services provided by GEZE details all the support services offered by the GEZE service team. This includes the benefits of regular servicing, information on GEZE UK's individually tailored planned preventative maintenance plans (PPM) and details of GEZE UK's immediate response service – an all year round, 24 hour reactive call out service.

Also featured are MMS, a Mobile Service Solution that uses PDA devices to capture all job details and requirements on site and communicates these for immediate processing; an asset management service that tracks the history and manages the cost effectiveness of every door in a building; and iContact', which enables remote monitoring and control of door systems.

>> WEBSITES



CROFT CRAFT

Croft Architectural Hardware has recently launched an updated website www.croft-arch.co.uk, showcasing their range of products which are aimed at discerning end users, all of which are produced at their factory in Willenhall. To enable easier use for Architectural Ironmongers, Architects and end users each product now has a downloadable specification sheet with product drawings showing all the relevant dimensions and the finishes available.

A variety of new products have been introduced on the new site including a full range of Art Deco items, various new styles of Espagnolette window handles with 16mm backplates, as well as new styles of Centre Door Knobs, Flush Pulls, Pull Handles and a variety of Turn and Releases on covered roses.

A New range of finishes have been added including Aged Brass, Oil Rubbed Bronze and Antique Nickel together with a unique 'distressed' range.



AN ARRAY OF PRODUCTS – NEXT DAY

Owlett-Architectural has unveiled its integrated online services, www.owlett-architectural.com and www.ojtrade.co.uk

The online offering boasts a wide array of products for almost any specification available with next day delivery. The Owlett-Architectural website www.owlett-architectural.com is packed with information about the new range of products including unique Certifire codes and testing information.

OJ Trade www.ojtrade.co.uk is the online ordering service for the whole Owlett-Jaton group. Any product in the Owlett-Architectural portfolio can be ordered online and as part of a large organisation, the online service and UK-wide infrastructure can handle the most complex orders and deliver the next day to almost anywhere in the British Isles.



POCKET DOORS WEBSITE UPDATED

www.portman-pocketdoors.co.uk has been updated to include the full range of Portman pocket doors, including the innovative curved door system and the architrave free system.

Portman Pocket Doors is a pocket door system with sliding door gear. Their patented design allows the door to cleanly fit into a wall's cavity, providing increased flexibility with a contemporary finish.

Users can browse the dedicated website and by utilising a 'shopping basket' type functionality build a specification by door set type and design option, to specific dimensions and to include a choice of door furniture and closer type.

The revamped website includes details on the Portman architrave free system, a range of custom precision cut metal profiles for its pocket door system, for a clean architrave free look and the new curved pocket doors, an aesthetically pleasing design for a previously difficult area. A collection of closers and dampers also feature, providing additional protection for doorframes and ensuring a smoother, quieter closing mechanism.

CUSTOMER BRANDED KEY SECTION

DOM DEALER PROFILE



As a DOM service centre you will enjoy the freedom to build and manage your own master key systems and single coded cylinders with the full support of our customer services department and technical team. DOM offers three levels of service centre package ranging from sub assembled cylinders right through to full assembly and key cutting under your own dealer branded key section.

Benefits for you:

- In house assembly
- On site replacements
- Optional anti-snap modular solution
- Individual dealer branded keys
- Patent and trademark protection with restricted dealer key section
- Starter kit, assembly box and full product training provided
- High precision DOM key machine



SECURITY, QUALITY, DOM.

SECURIDEV