

OPENINGDOORS

The Newsletter of the Automatic Door Suppliers Association

ISSUE 4: AUTUMN 2023



THE OPENER...



Welcome
to the new issue of **Opening Doors**. It's been a busy time for us at ADSA – when isn't it? But this year, we've been called upon to work in partnership and contribute to a number of 'bigger picture' projects.

It's always an honour to represent you, our members, and the automatic door industry within the wider construction landscape. Our involvement, helping establish and maintain standards ensures that the interests of PPD manufacturers, engineers and end users are represented.

This has included involvement in the Joint Competency Initiative and as an advisor to the Health and Safety Executive which has prompted an initiative of our own (P8).

2023 is also a year of change and progress. The first and second cohorts of PPD apprentices are soon to graduate. Apprenticeship cohort five commenced studies in May and six will start in the Autumn.

We are soon to reach a landmark with our 500th member!! ADSA's membership has doubled over the past four years and this is testament to our growing reputation, enriched through additional member benefits, industry initiatives and a market which has extended into wider entrance solutions and products.

Mark Ayton, ADSA Chair



Cover story: Sovereign at The Star is the largest invitation only VIP gaming room in Australia with every element of the design focusing on luxury and quality. record Automatic Doors was engaged to design, supply and install all the automatic revolving, sliding and swing doors used on the project.

The main entrance has a circular reception room with a full height curved sliding door entrance using record CURVED 180/360 Sliding Door (recorduk.co.uk) They are 4100mm high x 1100mm wide, made from custom designed steel framing and clad in Rimex quartz champagne stainless steel sheet with frosted glazing.

Ready for Tee Off



The ADSA Charity Golf Day looks all set to be a soaraway success – selling out within weeks of tickets going on sale.

The event, at Branston Golf and Country Club, in Staffordshire, on 21 September, has attracted 110 players, with more than 130 people attending its evening gala dinner.

This year's charities are **Golfanatics** which provide mobility equipment for young people with disabilities, **Lighthouse** which supports the physical and mental wellbeing of construction workers and **Changes**, a Tamworth based mental health and wellbeing charity.

Proud Sponsor

ADSA is again one of the official sponsors for the biennial AI Spec Awards 2024 and is encouraging members to showcase their innovation in the Product Design and Innovation – Electronic category.

The coveted title is for 'new products which utilise electronics in the context of architectural ironmongery'.

It is the second time that ADSA has sponsored the award which was clinched last year by Strand Technologies. It won for Virtual

Engineer a control and diagnostic products used in the operation of automatic doors, gates and barriers.

Entries are now open (closing 1 December 2023) and to enter, products must have been completed or released between 1 October 2021 and 30 September 2023.

AI SPECIFICATION
AWARDS 2024

OFFICIAL AWARD SPONSOR

[More Information](#)



New Window to the World

ADSA's new website went live this summer - boasting improved functionality with a brand-new look and feel.

It has slicker mechanisms for booking courses and events and a member search facility with postcode and mapping features to enable customers to find products and service providers.

www.adsa.org.uk reflects ADSA's extensive learning and development content, industry news, updates and independent compliance assessment services.

With a fresh new look - rolling home page - and enhanced integration for improved booking/payments, the site has greater clarity and is more intuitive. The online membership application process has been fully digitised and course/event bookings have a Microsoft Outlook calendar interface to allow users to sync events with their own diaries.

There's also a shop with a range of branded workwear which can be personalised with company/name.



www.adsa.org.uk

Darren is New BSI Chair

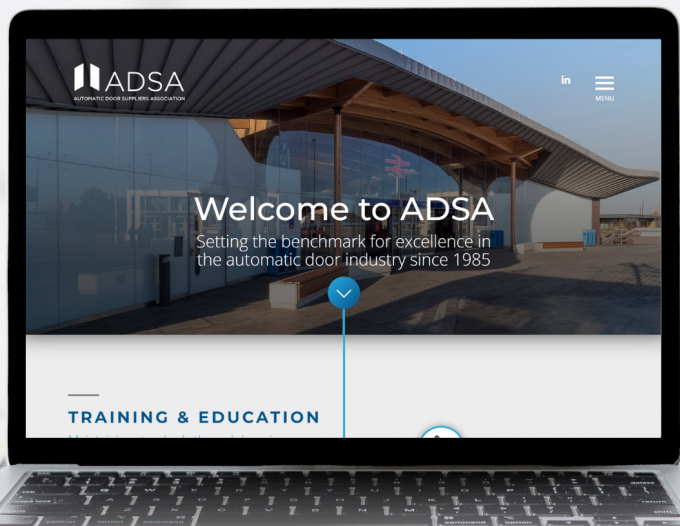
ADSA Technical and Training Manager Darren Hyde has been named as the new Chair of BSI MHE/31 (Automatic) Power Operated Pedestrian Doors Working Group.

Since its foundation in 1985, ADSA has recognised the importance in working with the British Standards Institute (BSI) to help create standards and codes of practice for the industry.

Now 38 years on, Darren will lead this key group - his appointment ensuring that ADSA continues to support its members and the wider industry by actively contributing to new standards and best practice.

Darren is also a member of the CEN TC33 working group which ensures a strong representation in Europe on alignment with European standards.

He succeeds ADSA Executive Team Member and RTR Sales and Marketing Director Paul Watson in the role.



Spearheading Competence

ADSA is part of a ground-breaking initiative to increase levels of competence and confidence in the UK building envelope sector.

The Joint Competence Initiative (JCI) has been established in response to the Building Safety Act - considered the most significant change to health and safety legislation affecting the construction industry in the past 40 years



The JCI is an "association of associations" - providing guidance and support to move industry standards forward and raise the bar higher.

Ken Price, ADSA's managing director, said that it was an honour to be involved in an initiative which would "radically reform and improve quality and standards throughout the industry."

“ It has brought together leading associations which have responsibilities in establishing and maintaining competence levels within their own sectors. By working together, we have been able to define what competence looks like, how we measure and achieve it against specific roles and requirements. ”



Rising to the Challenge

Here we reproduce a feature recently published by Architects Datafile. Originally created for an architect/specifier audience, it is however, a 'must read' for everyone in the industry.

When identifying powered pedestrian door (PPD) solutions for commercial buildings, there are a variety of challenges that architects and specifiers need to consider.

Darren Hyde, ADSA Technical and Training Manager, outlines how to balance safety, security and accessibility requirements.

We all love a challenge and identifying the right door, for the right building, in the right place, will keep you on your toes.

To begin with, the right solution needs to conform with various standards, acts and building regulations to ensure that it is fit for purpose – encompassing safety, security and accessibility, along with complementing the overarching design.

A bigger picture view is essential to maintain this equilibrium - a view that considers the location and position of the building, its intended use and foot fall, how the volume of traffic may need to be channelled around the building and identification of key entrances and exits – externally and internally.

This includes accessibility requirements, safety and security, alongside an ever-increasing awareness of fire resistance and escape routes. An awareness of all of these standards, acts and/or regulations will also help build a clearer picture of what is required for your specification.

This may seem like a lot to consider, but taking a common-sense approach can help you arrive at a decision – ruling out the impractical and including the essential. Asking the 5 W's and an H – who, what, where, when, how and why – is a good place to start, especially when balancing client wishes with practicalities.

The location of the built environment will have a significant effect on the outcome. Is there likely to be an effect from wind loading onto elevation and the door? Is the building in a coastal location, or among other tall buildings where wind is channelled?

A door is similar to a sail: wind loading may detrimentally affect its operation if the 'sail' is too large or the wrong type. It could cause operation and/or safety issues, resulting in damage. The effectiveness of door operators, sensors and mechanical elements can be compromised by force or environmental conditions such as salt in the air.

Building use and considering who it is for, is also a cornerstone when it is likely that vulnerable people are occupants or users. Special measures may be required to enable accessibility and safety while maintaining security. This is particularly pertinent in buildings used for specialist or supported housing and education.

Quite rightly, the role of an architect is to stretch the boundaries of aesthetics, form and function, but this should never be at the expense of user safety. For example, safety sensors and signage can be viewed as an unsympathetic addition to an expensive door but they are essential for the safe operation of the door. The look of activation devices has improved significantly over the last ten years, they are now slimmer and less





obtrusive, discreetly enabling state-of-the-art technology without negatively impacting the appearance of the installation.

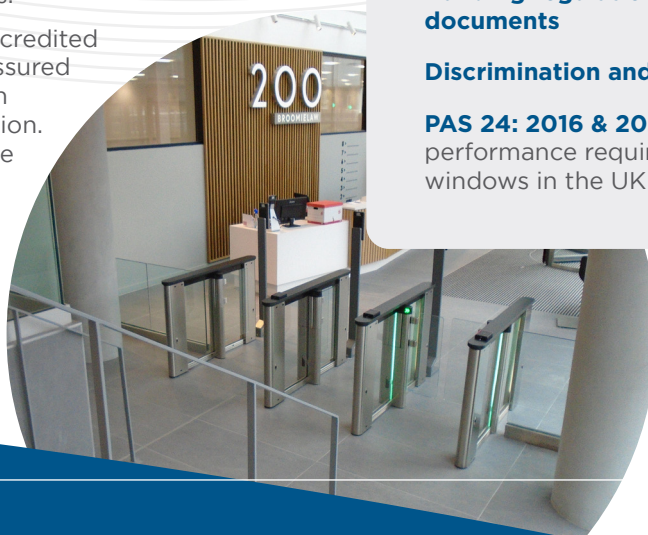
The same can be said of other entrance devices, powered turnstiles, swing lanes and retractable lanes, which are frequently found in larger or shared commercial buildings. These must meet the new EN 17352:2022 standard which addresses safety in use and machinery safety requirements and test methods.

The need to protect and secure our buildings is ever-increasing but specification of high security doors must be balanced with escape requirements.

The introduction of the Building Safety Act has highlighted these issues in respect of high-rise living, but as city landscapes change and taller buildings begin to dominate the commercial centres, we should look to how this can best be achieved in these environs. A correctly specified system should take both needs into account, and if correctly specified, will achieve the desired outcome.

The demand for smart buildings, with integrated building management systems and access control, will also determine choices. Again, these need to be factored in from the start. Most powered pedestrian door and window operators can be linked for wider estate management but selecting the right solution at the start can avoid expensive mistakes.

By working with an ADSA accredited member, architects can be assured that they will be supported in system design and specification. Although, the process may be challenging, when properly realised, it can ensure that the outcome is not only fit for purpose but can be incorporated with dynamic design that will enhance our communities.



Legislative Considerations



BS 8300:2018-1-2 Design of an accessible and inclusive built environment,

BS 9999:2017 Fire safety in the design, management and use of buildings – code of practice (Building other than residential)

BS 9991:2017 Fire safety in the design, management and use of buildings – code of practice (Residential Building)

BS 7036-0:2014 Power operated pedestrian doorsets – Safety in use

BS EN 16005:2012, EN 16005: Power Operated Pedestrian Doorsets Safety in Use - Requirements and Test Methods.

The Supply of Machinery (Safety) regulation\ Machinery Directive 2006/42/EC

Building regulations and codes or technical documents

Discrimination and the Equality Act 2010

PAS 24: 2016 & 2022 Enhanced security performance requirements for door sets and windows in the UK



Training Course Provides New Gateway

A training course launched this summer is fast becoming a 'gateway' to a new standard regulating power operated pedestrian entrance control equipment such as powered turnstiles, swing lanes and retractable lanes.

The introduction of EN 17352:2022 is the first standard for this product group. It addresses industry concerns about safety in use and sets out a machinery safety standard around requirements and test methods, to ensure systems are safe.

To date, three pilot courses have been undertaken and courses for all members are planned from September 2023.

The sessions outline the standard's requirements, ensuring all systems can be correctly specified, fitted, inspected, and maintained and enables employees and their employers to demonstrate their knowledge of the safety requirements and test methods within this product group.

Said ADSA's technical and training manager, Darren Hyde: *"There has been an increasing demand for products of this type and it seems only right to bring them in line with safety standards for the wider industry. These products can be operated electro-mechanically or electro-hydraulically and can be used for normal access as well as in escape routes and emergency exits. So, it is critical that they are properly specified, installed and maintained."*



"Many leading manufacturers, who are already ADSA members, include them within their existing product ranges, while as a result of the introduction of the standard, we have seen new members join us whose businesses are solely within power operated pedestrian entrance control equipment."

"We feel that this new course will meet the needs of many who work with the industry, across different roles and at different levels. It will also provide public confidence in those companies that have acquired accreditation and can evidence their competence."

The course costs £190 including examination.

[More Information](#)



15 Minutes With

Ken Price on Guidance for Security Rated Powered Pedestrian Doors

What is the Guidance for Security Rated Powered Pedestrian Doors document?

It's a free 20-page illustrated guide which has just been launched that defines the principal burglary resistance security standards used in the UK. It outlines the scope of each standard, how they vary from each other and how they align to exacting benchmarks such as Secured By Design.

Why has it been produced?

It was the subject which prompted most calls to the ADSA technical support line. We were frequently asked to advise and help with an understanding of the various standards and test methods that security rated doors can meet.

We thought that if there was that much confusion within our industry, then architects, specifiers, building owners, facilities managers and other partners were probably as equally confused about the subtle differences between the likes of RC2, RC3 and LPS 1175.

What does it include?

The document outlines the range of physical attack ratings against damage which may be caused during burglary or vandalism and the testing methods undertaken for products to achieve certification. These are depicted through diagrams and flow chart to help the reader make better sense of each standard and its processes.

It is also packed with interactive links for further reading and access to standards documentation – helping keep all related content in one place.

For whom is it intended?

Everyone who has involvement in manufacturing, specifying, procuring or installing security rated PPD. Our Technical Team drafted the content to provide an outline of the various standards. There are also sections that drill down into further detail for those that need to identify the right products against the desired levels of protection needed within their buildings.

How is it obtained?

It is available to download from the ADSA website:

www.adsa.org.uk/about-us/news/post/security-rated-ppd

We decided on a digital publication to allow magnification of the various flow charts and illustrations if required.

Download Now



4. Further Specifics

Requirements:

A Publicly Available Specification (PAS) is a fast-track standardisation document – the result of expert consulting service from BSI. It defines good practice standards for a product, service, or process. Sponsored by industry leaders, government and public sector, trade association, and professional bodies.

PAS 24:2016 Enhanced security performance requirements for door sets and windows in the UK.

Like most British Standards, this is a minimum standard. In other words, it doesn't include higher or lower-grades for security and so doors that are tested to the specifications of the standard either pass or fail. To claim conformity to this PAS, doorsets shall meet the requirements of 4.2, 4.3, 4.4 and Annex A of this PAS and either Annex B of this PAS or EN 1627:2011, RC3.

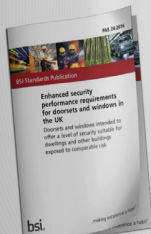
PAS 24 is a guarantee that the production of the door is being monitored by a UKAS accredited certification body to ensure ongoing compliance. Although some of the door sets that pass will be a little stronger than the minimum required, a minimum standard encourages engineers to design the door to pass at the minimum requirements, this makes economic and environmental sense. The standard also refers to the relevant material-specific standard for general performance referenced in BS 6375 Parts 1, 2, and 3. The original equipment manufacturer is responsible for providing compliance evidence, such as a certificate of conformity.

Implementation:

The manufacturer or distributor of the door submits a range of doors to a United Kingdom Accreditation Service (UKAS) accredited notified test laboratory which is approved for testing to PAS 24 and the relevant 'fit for purpose' standards. Having achieved passes on these doors, the factory and the manufacturing processes are examined by a UKAS accredited Certification Body. Providing the independent certification body is satisfied with the manufacturing facility and how it is managed they will award a certificate to the manufacturer, which will enable them to market their doors as 'certificated' to PAS 24 and the 'fit for purpose' standards.

Factory Process Control (FPC) is required, this could be achieved via ISO9001.

The test method use a variety of mechanical hand tools, various static load applicator pads and jigs, soft and hard impact tests using dynamic test bodies.



Sample photographs of an aluminium-glazed swing door undergoing impact tests.



Grading / criteria

Security hardware & cylinder test

Hand tools

Test to: Total time 15 mins

Test to: Single attack time 5 mins

Test to: Total time 5 mins

Manual check test: general door structure for vulnerability

Hand tools

Total test time 15 mins

Single attack time 5 mins

Single insertion attack 5 mins

Manipulation test to hardware

Hand tools

Manual cutting test attempt to cut a hole through the door structure

Hand tools

Mechanical loading test, perpendicular push & pull loads

Load applicator pads & attachment jigs

Perpendicular max

Articulated max 10

Soft body impact test

Pendulum with a leather spherocylindrical bag

Hard body impact test

Pendulum with cylindrical steel test body

GUIDANCE FOR SECURITY RATED POWERED PEDESTRIAN DOORS

In the Pipeline

ISO accreditation – for the past year ADSA has been working towards ISO 9001 and 450001 – relating to quality and safety and 270001 around data management. This has involved a helicopter view of processes, gap analysis, with work streams to make key improvements prior to assessment.

Code of Practice – as a benchmark to competence, ADSA is publishing its 'Blue Book' – a complete guide to compliance, safety and control – including hazard analysis and outline of danger points – and service and maintenance guidance. This will be a cornerstone publication for the industry and will be given to every engineer who successfully achieves Standards Authorised Training.

Whitepaper – following involvement with the Health and Safety Executive relating to a PPD related fatality. ADSA is working on a whitepaper based on the HSE's report, examining its findings with recommendations for those who share a duty of responsibility in the specification, installation and maintenance of powered pedestrian doors.

Hello & Goodbye

Lisa Newport recently joined the ADSA Team as Business Administrator. She is responsible for training, renewals and CSCS.

She has previously worked within the industry at GEZE UK.

Said Lisa: "I'm looking forward to a new challenge within the industry. It's nice to be working in a team environment and I feel like I can make a difference."

Beth Rutherford, who joined ADSA four years ago as a Business Administrative Apprentice, has moved on to pastures new. She completed a Level 2 Diploma in Business Administration, made a great contribution to the team and recently moved to a new role within Purchasing at ALDI UK.



Industry Apprentices

Seven students who formed the first cohort of the PPD Technician Apprenticeship at South Staffordshire College are soon to graduate – closely followed by members of cohort two, who are nearing their end point assessment.

Assessor NOCN tested candidates on three elements: a two-hour multiple-choice exam with a short scenario response, an interview and a practical assessment. The interview was a professional interview and a practical assessment demonstrating installation and fault repair skills.

Cohort got underway in May with another group starting this autumn.

Project Spotlight

Take a peek into Arbor Bankside Yard – the UK's first major fossil fuel-free mixed-use building that operates net-zero carbon. This stunning new development comprises 223,000 sq ft across 19 floors and provides light-filled, health-centred workspaces and amenities with incredible views across London. Designed by **PLP Architecture**, with products from **Boon Edam**, Arbor is a future-focused workplace prioritising sustainability, wellness, and intelligent technologies.



Candidates who have achieved 100% Exam Passes in 2023

Gary Handley - LP Doors

Daniel Cox - KSCM (new member)

Andrew Jackson - Boon Edam

David Bench - Record UK

Mark Parker - Sole Trader (new member)

Shaun Evans - ABCA Systems Ltd

David Jefferies - dormakaba

Kurt Taylor - Automatic Door Company

Andrew Sutcliffe - DSI

Peter Flynn - Industrial Door Systems

Steve Howes - GDUKDS