



HART
DOOR SYSTEMS

Leading the way in the
design, manufacture and
installation of specialist
industrial doors



Welcome to Hart Door Systems

Hart Door Systems (Hart) is an engineering company that specialises in the design and manufacture of a wide variety of door systems relevant to the challenges of everyday business. Hart resolves many issues within the built environment as well as safety and security issues arising in many global sectors.

Hart's products are in daily use across countries world-wide in vital, economic, sectors such as aviation, energy from waste, infrastructure, food and beverage production as well as a host of manufacturing processes.

Of Hart's many brands, it's the internationally recognised Speedor range of high-speed doors that became successful in establishing Hart's outstanding reputation in as many as 35 countries. After all, a typical Speedor has on average a life expectancy of over 20 years and 500,000 operational cycles in normal conditions. This attests to the quality of Hart's engineering.

Doug Hart - Chairman

Questions

- 1 How many countries have Hart installations?
- 2 Where is the most unusual installation location?
- 3 What wind speed will Speedor Storm withstand?
- 4 How long will it take to break through a Terror Screen?
- 5 What would be the longest journey from Newcastle to see a Hart Installation?

Answers on page 29

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Controlling
your business
environment

speedor[®]



With Hart's bespoke manufacturing skills through its range of Speedor high-speed doors, Hart can offer tailor-made solutions to meet specific individual needs. As a result, Hart helps companies to control temperature, balance air pressure, deter pests, avoid contaminants, odour and noise as well as improving energy consumption.

SPEEDOR - THE BACKGROUND

Speedor is an engineered product and the Hart flagship, Speedor Super, has been in continuous production since 1983. There are now thousands of installations in the UK and across the world, where it is known for reliable operation and long life. Speedor Storm is now the leading variant and Hart's innovation made for low maintenance and high wind resistance and reliable operation.

Speedor is a range of automatic, high-speed doors which are reliable and robustly engineered for frequent use in high-traffic situations. Speedor models are for use internally or externally with almost limitless applications.

KEY FEATURES

- Automated fast open/close
- Variable door speeds
- Reliable robust doors capable of thousands of operations
- Speedor Storms offer wind resistance up to class 5 (over 90mph) as defined by DIN EN 12424
- Optional moisture control of electrics

BENEFITS

- Noise & odour containment
- Prevention of vermin
- Reduced energy costs
- Improved environment
- Improved working environment
- Temperature control

Controlling
your business
environment

speedor[®]



SPEEDOR STORM is an external facing high-speed door system designed for frequent use in high traffic situations where exceptional wind resistance is required on large openings up to 8m x 6m and 6m x 8m. The energy-saving potential of this door is also particularly high. This rolling door has a unique guide system offering wind resistance up to class 5, 90 mph, as defined by DIN EN 12424. It is a robust and reliable system.

SPEEDOR MINI is an internal high-speed door system for openings up to 4m or 12m². It is capable of many thousands of operations every week, year after year and is a favourite for manufacturing, automotive, and food sectors for example.

SPEEDOR CONVEYOR is a revolutionary high-speed door perfectly suited for specialist applications such as high-frequency conveyor belt systems, providing security and safety between the public area and baggage system mechanics. Doors are normally fully integrated with the conveyor system, together with all relevant inputs and outputs equipped to deal with any requirement.

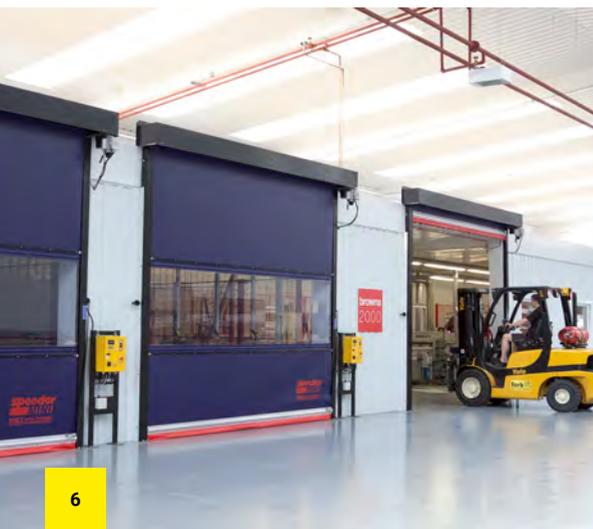
Operating at high speed, normally one metre per second, Speedor Conveyor is designed for exceptionally high cycle frequency ranging from 60 cycles per hour in normal use to 180 cycles per hour for high cycle requirement.

Variants with fire and security features are specifically used in airport conveyors allowing automatic interface with conveyors, lifts and other equipment.

SPEEDOR CLEANROOM is designed for specialist manufacturing processes or facilities where clean air is essential. Typically, cleanroom environments require strict air leakage control to ensure air pressure differentials can be maintained. The Speedor Cleanroom door attains a very good rating for the transfer of air particles at 18m³ per hour. Examples of sectors using Speedor Cleanrooms are pharmaceuticals and food processing where high hygiene standards are essential. The Speedor Cleanroom has a non-touch safety light curtain ensuring maximum protection for personnel and, like all Speedor systems, an intelligent control panel with digital display, reliable and clean in-line drive system complete with integral safety brake.

SPEEDOR TWINBLADE is a variant of the Speedor Cleanroom designed for industrial applications where the transfer of air particles is a perceived risk. The unique twin-blade construction reduces the air leakage rate to just 2m³ per hour with up to 30pa pressure differential over the door system ensuring efficient and effective separation from a contamination zone. The design incorporates brush finished stainless steel door frame, bottom rail and covers with additional high-performance electrically and pneumatically operated easy clean seals preventing contamination spread when the door is in a closed position.

This bespoke system is a significant step forward for industrial roll-up door development for potential contamination zones. It has passed third-party assessment over a rigorous testing procedure.



Securing
your assets

Terror Screen



Faced with increasing threats of international terror and serious crime, Hart Door Systems invested heavily in designing and testing high security rolling shutter systems from SR1 - SR4 on the LPS scale.

The range of shutters, branded as **Terror Screen**, are all to Loss Prevention Standards as approved by the LPC Fire and Security Board and Expert Group G. Over 20 organisations assisted in the preparation of this standard more commonly referred to as LPS1175.

Terror Screen shutters have a high-security weight and strength combination through the twin skin steel lath (SR3), reinforced by an aluminium substructure (SR4). This heavy door system is highly resistant to cutting, providing significant resistance to attack. Drives, particularly on larger doors, will be chain driven rather than the simpler direct Safedrive units.

Independent tests confirm the SR4 withstands 20 minutes of direct attack, including 10 minutes with drills, grinders and hand tools. This allows on-site security time to arrive and secure the location, protecting key infrastructure facilities and high-value businesses and their assets.

Qualifying products such as Terror Screen are listed in the LPCB Red Book/ Red Book Live which is the key reference for specifiers, regulators, designers and end-users of fire and security products and services. Each product and service listed in the Red Book is robustly checked by independent experts to ensure that it delivers the performance expected.

KEY FEATURES

- Tested and approved to LPS 1175 Issue 7
- Complies with BSEN 12453:2005, BSEN 12604:2000, BSEN 12635:2002, BSEN 12978:2003
- Sizes up to 9m wide x 8m high
- Operation by press button or various automatic operators
- Electric/manual locking arrangements

BENEFITS

- Attack prevention
- Security performance
- Asset protection
- Public safety
- Insurance compliance

Protecting
your people
and business
from fire

firebrand



Hart's Firebrand range of fire-resistant shutters, rated from 30 minutes up to 240 minutes fire resistance, are manufactured to customer dimensions and specification including powder coating in any RAL colour to suit.

Legislation enforced on 1st November 2019 requires fire doors to be tested to BS EN 1634-2 for compliance, substituting the BS 476 part 22 British standard. Doors supplied to the old BS 476 standard are not compliant with the law.

Hart Firebrand shutters are tested, assessed and certified by the LPCB to BS EN 16034 tested to BS EN 1634-2. ISO 9001 certification ensures production and installation are completed to all relevant standards, including compliance to safe use requirements. A BRE controlled labelling procedure ensures product identity, traceability and compliance.

Operation in a fire situation has five clear requirements:-

1. Doors permanently locked and only opened temporarily in a controlled environment do not have a requirement to self-close in the event of a fire
2. All other doors must operate in a fail-safe mode so that when power is removed, the door will close fully
3. Doors with local activation via a fusible link or heat sensor require audio visual warning when the door is closing

4. Doors operated via central fire and smoke control systems require audio visual warning and presence detection of pedestrians. The door will not close if the sensors detect people or objects
5. All doors should be maintained to a professional standard by trained operatives with full records kept

Increasing levels of automation and safety requirements are available such as operation via battery backup in varying levels of performance, from full operation reducing to control of the closing only. Optional ATEX compliance and security rating SR1-SR3 is available.

KEY FEATURES

- Activation from fusible link, fire alarm signal or local smoke/heat detection
- Fire control panel giving audio and visual warnings
- 30 minutes resistance up to 4 hours
- Certified to BS EN 16034 and tested to BS EN 1634-2 and or US standard NFPA80 UL10b
- Optional battery backup to comply with various levels of control

BENEFITS

- Compartmentalisation
- Fire barrier
- Public safety
- Temperature control
- Security

Delivering protection
for industry,
commerce and
the public sector

HART'S INDUSTRIAL ROLLER SHUTTERS



The extensive choice of industrial shutters and the ability to accommodate customers' specifications makes Hart a leader in this vital sector.

Hart's shutters are used in a wide range of industrial sectors as well as general commerce, schools, universities and hospitals to protect against vandalism, break-ins and theft. Sizes are normally up to 10m in width with an option for light or heavy-duty wind resistance. The operation can be automatic or manual and finish can either be specialist paint, plastisol or powder coat in a variety of colours. Standard finish is solid steel.

INSULATED ROLLER SHUTTERS

Insulation is a key feature of an energy-saving environment; essential in today's modern business context. Hart has a wide selection of lath profiles which are recommended. Steel, aluminium and stainless are all available in various profile sizes within our industrial shutters. These shutters have a thermal value of minimum 0.69w/m.sq.k and 18db as standard across the lath with increasing performance options available. Guides incorporate brush seals to seal and minimise operational noise.

HIGH SPEED ROLLER SHUTTERS

All Hart roller shutter models are available with automated and high-speed options. The speed is commensurate with the size and weight of the door and will be designed to provide maximum reliable life. Safety systems must

provide pedestrian protection to prevent contact between the pedestrian and the door. Hart Door Systems will provide support and discuss risk assessment analysis to provide the optimal solution.

SPECIALIST ROLLER SHUTTERS

Hart has the expertise to develop custom-made doors to maximise performance in any environment. Specification and application in corrosive, hazardous, high humidity and exposed locations requires careful consideration. These difficult environments may need stainless steel, ATEX compliance or special IP rated electrical equipment to provide the best long-term solution. If high performance, reliability and longevity are important, Hart has the solution.

KEY FEATURES

- Optional wind lock guides available for wind resistance class 5
- Safedrive or safety brake anti fall to comply with machinery directive 2008
- Choice of operators including push button, security key switch or automatic controlled
- Acoustic and insulation properties

BENEFITS

- Compartmentalisation
- Public safety
- Temperature control
- Access security

Project Profiles: WASTE



Hart's range of environmental, fire and security products are in daily use in key sectors such as airports, pharmaceuticals, defence, energy and the nuclear/electrical power industry, water, transport, food, automotive, pulp and paper, waste to energy, as well as major social projects such as sporting stadia. Hart's reach is global, its sector experience immeasurable.

Hart Door Systems is at the forefront of waste control through its energy-saving range of robust, high-speed, automatic doors. Increasingly there is a demand for door systems to help operators in the waste management sector to operate sympathetically with their neighbours.

Hart has developed a range of options including some very large high-speed doors specifically for the waste management sector. The fast open/close cycle delivered by Hart's doors is one of the important features preferred by operators.

WASTE CHALLENGES

- Local authority opposition to odour and noise
- Pests including rodents, pigeons, seagulls
- Difficult conditions on site - dust and moisture
- High traffic
- Large vehicles

HART'S PROVEN SOLUTIONS

Hart is supplying doors to a growing number of energy from waste projects across the UK, with many high profile clients in the renewable energy sector such as HZI, Veolia and Viridor.

Typically Hart installed two fast-action Speedors for a haulage company specialising in waste disposal at a Midlands facility. The two Speedor Storms were installed to minimise the escape of dust and smells as well as keeping out birds and rodents. The fast action allows for quick arrival and tipping of waste within a closed harsh environment so reducing the chance of smells leaving the building.

Both Storms were supplied with optional moisture control of electrics. The largest door was 6m high and 8m wide. It is Hart's reputation for delivering reliable, very large, high-speed automatic doors for the waste industry that leads to contracts such as this.

Three Speedor Storms were installed at an in-vessel composting facility capable of processing 60,000 tonnes of kitchen and green garden waste each year. Hart now has over 60 doors installed across 11 sites for the same client, all supported by Hart's Machinery Directive compliant planned maintenance service. Hart's experience on these projects highlights the many challenges for the operator for which Hart has engineered unique solutions.

Project Profiles: INFRASTRUCTURE



Hart has supplied thousands of industrial doors to **infrastructure** projects both across the UK and internationally across rail, ports, energy and utilities. The contracts indicate an ability to work within the strict disciplines of major, complex contracts. Hart's reputation for technical excellence developed over many years has given Hart a distinct edge when involved in major infrastructure projects like St. Pancras.

INFRASTRUCTURE CHALLENGES

- Advanced technical specification
- Access (operational areas)
- Security and fire risk
- Connectivity to external systems and software
- Heat loss
- Varying traffic e.g. vehicle and pedestrian.
- Securing zones from intruders
- Public safety
- Attack and threat prevention

HART'S PROVEN SOLUTIONS

These include the development of London St Pancras, where Hart manufactured and installed over 70 industrial doors and shutters, and Dubai Metro where Hart manufactured over 200 insulated roller shutters, both fire-rated and non-fire rated for the Jebel Ali, Rashidiya and Al Qusais train depots.

Hart also completed a major contract to replace old and unreliable shutters for Southern Railway. The £100,000+ contract included the removal of old doors and reinstallation of nine doors of varying sizes with the largest being 8.5m wide and 4.7m high.

Project Profiles: AIRPORTS



Hart Door Systems is highly experienced in airport contracts supplying safety, fire protection and security solutions to over 40 airports world-wide including Dubai, London Heathrow, Jeddah, Baghdad, Bergen, London Gatwick, Newcastle International, Aberdeen, Falklands, Vladivostok and Harare.

AIRPORT CHALLENGES

- UK, EU and international standards
- Airport security
- Connectivity to external systems and software
- Technical collaboration
- Securing zones from intruders
- Public safety
- Attack and threat prevention

HART'S PROVEN SOLUTIONS

A recent contract involved a specialist baggage handling system for Malta airport where Hart supplied eight fire shutters to form a baggage handling system capable of handling over 16,000 tonnes of cargo as well as enhancing the experience of its 6 million passengers annually.

Hart has worked with specialist engineering companies on international projects. For example, Hart delivered 177 fire and security shutters for the new King Abdulaziz International Airport, Jeddah. Originally designed to cater for 7 million passengers, the expansion will have a final capacity of 70-80 million passengers by 2035.

Additional security and fire protection is available for bespoke systems such as those supplied by Hart at Bergen, London Heathrow and Baghdad International as well as many other major airports. Continuous cyclic tests completed by Hart showed over 2,500,000 open/close cycles were achieved with no technical faults within a six month period.

Project Profiles: MANUFACTURING



Manufacturing covers a huge range of areas and as such, there is a requirement for a variety of doors in the industry. Hart's range of doors can enhance the thermal performance of manufacturing facilities helping to maintain the internal building temperature within precise tolerances critical for manufacturing processes.

The UK Manufacturing industry employs approximately 2.6 million people with £150 billion national economic output, so productivity and energy savings are of major benefit to manufacturers.

MANUFACTURING CHALLENGES

- Access (operational areas)
- Vehicle, forklift, pedestrian access
- Security
- Retaining heat
- Keeping vermin out
- Dust and dirty conditions

HART'S PROVEN SOLUTIONS

An installation at a foundry in the West Midlands involved several Hart Speedors and roller shutters. With the aid of sensors, the doors only opened when needed, helping to keep dust and dirt from the foundry out of the warehouse. The fast action helped control the working temperature within the warehouse while reducing noise from the main foundry. Not only did they look the part with the newly clad walls, but they also created a clean, safe and comfortable environment for all employees and visitors to the company.

Hart successfully designed an innovative solution for a new automotive battery production facility. The 70+ doors needed to give 60 minute fire resistance and be capable of completing up to 400,000 open/close cycles a year. They also needed to meet strict air leakage criteria and be able to withstand sudden air-pressure increases. Furthermore, they had to interface with third-party equipment such as conveyor belt controls and fire alarms. Each required an LCD display control panel that provided a quick and easy diagnosis of what each door was doing at any point in time.

Due to the engineering expertise developed over many years, Hart is able to develop individual products through invention and rigorous testing to deliver innovative solutions to meet client's unique requirements.

Project Profiles:

FOOD AND BEVERAGES



The food and drink industry is the biggest manufacturing sector in the UK with over 4 million people employed within the supply chain and generating over £100 billion for the economy each year.

Hart is familiar with the differing requirements of the sector and has a range of door systems appropriate for production, packaging and distribution facilities all requiring security, cleanliness, reliability and environmental properties.

MANUFACTURING CHALLENGES

- Access (operational areas)
- Contamination
- Strict hygiene regulations
- Wash down

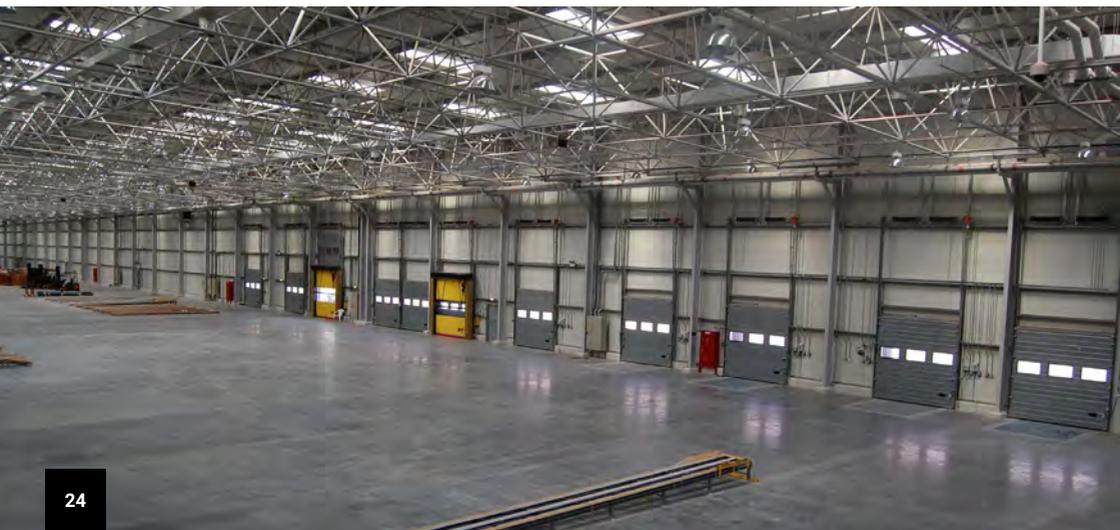
HART'S PROVEN SOLUTIONS

Hart recently installed over 30 doors in a new food production building ranging from high-speed Speedors to fire shutters, insulated shutters including two fast-action shutters and a Hart manufactured high-lift door, all designed to complement the production of powdered milk products.

Food production requires specialist door systems to ensure air quality is not compromised. Hygiene is a priority, so door systems must be effective and fast-acting from the goods-in goods-out part of the plant throughout the production process.

Hart has a tradition for innovative engineering and offers bespoke door design systems, including prototyping, testing and third-party certification. Its doors are also used for energy conservation, fire prevention and security, all with unique features and options to cover any specification requirements.

Project Profiles: GLOBAL PROJECTS



Hart is linked to many large-scale and export projects such as London's Olympic Stadium, St Pancras International, Dubai Metro and King Abdulaziz International Airport, Jeddah.

Found in over 35 countries worldwide, Hart's range of industrial door applications are a common sight. Hart has the knowledge and experience when working on large scale projects to advise, technically collaborate and offer cradle to grave support, which is a crucial ability when dealing with such projects.

Hart's unique level of product specialism comes from a policy to drive door systems development and product testing that ensures they are practical and work as specified. Quality, safety and reliability are very important features for doors that are largely in public areas.

GLOBAL PROJECTS CHALLENGES

- UK, EU and US international standards
- Challenging timeframes
- Technical collaboration
- International logistics

HART'S PROVEN SOLUTIONS

Hart manufactured and installed 21 fire resistant and security shutters to the Olympic Main Stadium, requiring advance battery backup and operational features. A further 50+ security and fire shutters were then required for the Olympic Stadium transformation project,

including kiosk shutters, security entrances and POD buildings surrounding the arena.

Hart supplied 32 Speedors and 17 fire shutters for a new production facility in Sharjah for IFFCO a United Arab Emirates based manufacturer of a range of mass-market consumer products including food and beverage products.

Supplying fire shutters to the oil sector in Kuwait, Hart demonstrated the ability to manufacture and supply superior high-quality products and provide technical backup all around the globe expanding further into the middle east.

Boosting the international presence of the Speedor range further, Hart worked on a £250 million expansion project by Qatari Diar Real Estate Investment Company of its landmark Msheireb mixed-use community development in Khartoum, Sudan.

Hart's international success comes from the ability to offer a bespoke design and engineered solution, along with a genuinely consultative sales process that builds trust.

Your Questions Answered

I am a plant manager and not an engineer. How can Hart ensure we get the right solution for everyone?

You don't need to be an engineer. Hart's technical engineers analyse your individual situation and only recommend the solution that is right for you. With industrial doors, one size does not fit all, and we never over or undersell unnecessary features. Our mission is to help you take control of your business environment, ensuring it is fit for purpose.

This is quite a commitment for us, so can you guide us through the process of installing the right doors?

Hart has been in business for over 70 years and will always be there to support you. We give free consultations ensuring our products are right for you. At each stage in your journey, we work with you to deliver the highest quality service.

We are particularly concerned about a number of issues in particular pests, odours and noise from the plant. How can Hart help?

With Hart's bespoke solutions tailored to individual needs, we help thousands of companies to control temperature, air pressure, pests, contaminants,

odour and noise. Our doors also help to improve energy consumption and protect against fire and security risks. Let us know your problem, and we will advise the best solution.

Damage is a risk in a busy warehouse or factory so what is the repair/parts back-up?

When fork truck drivers accidentally drive into your doors, what is the cost to you while parts are being sourced? Because our doors are designed and built in-house, parts are available from stock or can be made to order in our UK factory.

Do your doors come straight off the shelf?

No. We design, manufacture and install doors that are specific to your needs. Not only that, all our products are tried and tested and fully compliant to meet the highest safety and quality standards so you can rest assured that you and your employees can carry out your day to day activities in a safe and secure working environment.

Do you sub-contract installation and repair/maintenance work?

In the UK we never use sub-contractors which means you can

rely on our highly skilled mechanical and electrical engineers to fix faults or replace parts on the first visit. Our engineers are experienced, fully familiar with all our products and understand the challenging environments that they work in.

For international orders, we can send our engineers to advise or install your doors or we offer a training package to enable safe installation.

How long can we expect the doors to continue to operate, day in, day out?

The expected life of our high-speed doors is over 20 years and 500,000 cycles in normal conditions. Having recently replaced a door after 34 years we can attest to the quality of our engineering. Fault rates are low and when repairs are required, first time fixes are high. Due to the longevity of our doors, the total cost of ownership is low.

How much will it cost?

All Hart doors are made to order and custom to fit your requirements therefore, following consultation we will advise a fully inclusive cost to suit your needs.

How long will it take to get my door?

Our lead time is 4 - 6 weeks from approval of drawings. Please advise if a shorter lead time is required and Hart can try to accommodate this. For international orders, lead times may vary.

How long will it take to install the doors?

It all depends on the type of door, how

many doors there are and what challenges you have on site. But typically, it takes around one day per door.

What electrics are required?

Generally, for roller shutters and Speedor Storms you are required to provide a 415 volt 16 amp, 3 phase neutral and earth 5 pin industrial surface mounting socket (red), conforming to EN 60309, within 1 meter of the control panel position. On doors approximately up to 5m x 5m, it may be possible to utilise a 230 volt single phase supply.

For Speedor mini, a 230 volt 16 amp, 2 pin plus earth industrial surface mounting socket (Blue), conforming to EN 60309 (typically MK 9201 BLU), within 1 meter of the motor side of the door at approx. 1.5m from floor level is required. These must be available at the installation stage. This is a general guide, please consult Hart for the correct requirements for your purchase and international orders.

What structure do I need to have in place for fire shutters?

The preparation of the supporting structure of fire shutters must be constructed to a strict set of rules. Brickwork, and blockwork with concrete lintels in the case of 240 minute fire resistant shutters, fully encapsulated insulated and fire-protected steel for 120 minute fire resistant shutters and 60 minute fire boarded timber or metal stud partitioning in the case of 60 minute fire shutters.



WARRANTY

Each door comes with a parts and material warranty for one year, subject to conditions. Extensions can be offered for longer periods and include full maintenance support.

Service and maintenance is required by law to the manufacturer's recommendations and carried out by trained professionals using only bonafide original parts. Hart offer a full service tailored to your requirements.

MAINTENANCE

It's a legal requirement that employers take all reasonable actions to safeguard employees' welfare. Scheduled maintenance of machinery, including automated doors, is part of the Machinery Directive with a minimum annual visit required to comply with Health & Safety Legislation or more frequently on higher usage doors. Any injury sustained resulting from door malfunction, identified as a result of poor or lack of maintenance during a Health & Safety inspection, has the potential for criminal prosecution.

Planned preventative maintenance is a scheduled service visit carried out by a competent and suitable agent to ensure that an item of equipment is operating correctly, avoiding any unscheduled breakdown and downtime. Hart can offer a custom package to suit individual requirements where planned maintenance and site faults are responded to at the same time. This allows larger sites to minimise unplanned spikes in their maintenance budgets.

CASE STUDY

A customer had a service and repair spend of £33,000 – with Planned Preventative Maintenance and response offered by a Competitor. Hart Door Systems now visit on a weekly basis and have saved the customer £13,000 in the first year in visible costs (Hart versus Competitor Invoicing), that's without lost production and having to re-route forklifts etc. Pro-active rather than reactive actions, providing palpable savings.

Why Hart Doors?

What differentiates Hart Doors from other door manufacturers?

- ✓ Equal opportunity employer
- ✓ Apprenticeship programme
- ✓ Training good people
- ✓ Addressing the skills' shortage issue
- ✓ Performance - Quality and Capability
- ✓ British manufacturers - unsurpassed expertise
- ✓ Personalised solution specialist - safety, security, control of the environment, compliance, building business efficiency
- ✓ Trusted - people, products and brands
- ✓ Reliability - tried and tested, fit for purpose
- ✓ Track record - continuity, experience and skill, reputation, longevity
- ✓ Customer focus
- ✓ Parts on demand

Answers

- 1 35
- 2 Bolby Mine 1,400 metres (4,600 ft) deep below the North Sea
- 3 90 mph (closed, subject to size)
- 4 10 minutes within a 30 minute window using hand/small power tool
- 5 8,083 miles (Falklands)

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