

Steel Hinged Doors

Personnel access

Fire resistant

Fire exit

Acoustic

Insulated



ascot
DOORS

made to measure

Industrial & Commercial Doors

Welcome to Ascot Doors Limited, manufacturer and installer of individually made-to-measure high performance steel hinged doors.

Made to measure

Ascot offer the complete service from design, manufacture and installation to on-going service and repair.

Unrivalled aesthetics and performance have become the hallmark of Ascot Doors in all applications from personnel access, fire and high security, to energy efficiency and sound reduction, internally and externally.

Based in Bolton, UK, Ascot manufactures purpose-made doors in it's own factories using the latest computer controlled production equipment.

Together with modern welding techniques and powder coating technology the highest quality standards are applied, not only in products, but in peoples daily work processes.

Installation teams undergo rigorous training to ensure that your doors are installed to the highest standards and in all cases, in the most effective and safest manner possible.

Recognised internationally for high levels of quality and safety, Ascot make doors for UK, Irish and overseas customers.



stadia
public buildings
retail parks & utilities
factories & warehouses
hospitals & surgeries
banks & offices
leisure & sports halls
schools & colleges
water treatment works



| | |
|-----------------------------------|-------|
| Doors, materials and construction | 1 - 2 |
| Frame profile and fixings | 3 |
| Astragals and handing | 4 |
| Access | 5 |
| Door configurations | 6 |
| Ironmongery | 7 |
| Threshold, seals and finishes | 8 |
| Service and repair | 9 |



Certificate No. 131a

ISO 9001
ISO 18001

Steel Hinged Doors

Ascot fire and non-fire rated steel hinged doors for internal and external applications combine strength with elegance and durability with cost effectiveness.

Proven in a wide variety of buildings where safety, security and aesthetics can't be met by traditional timber doors. Ascot steel doors are hard wearing and designed to cope with high traffic levels. Doors can be fitted with door furniture to meet the most demanding specifications. Where a greater level of security is required, the Ascot range

includes LPS1175 Security Rated level 1, 2, 3, 4 & 5 (please see security brochure for full details). A resilient polyester powder coat base zinc rich primer onto a zinc coated steel substrate reduces maintenance and improves the life of the finished coat. A factory applied polyester top coat or paint to most BS or RAL colours is available as an option.

Door widths

Maximum seamless single door 1,400 mm structural opening width, maximum seamless double door 2,770 mm structural opening width. Wider seamed doors available to any width*.

Door heights and overpanels

Increase overall height with overpanels, they can be hinged, fixed or removable.

Non-fire resistant

Innovative design, in-built adaptability with co-ordinated hardware have led to a generation of doors which are pleasant to look at, fit for purpose and give years of enduring service. Individually made to specification to fit any door opening, Ascot steel hinged doors don't shrink, warp or twist, they are immune to insect attack and will not support bacteria, mould or fungi.

non fire range

door code

A500 fire exit & personnel hinged door light to heavy duty

Fire rated - 240 minutes

Flush faced, attractive, available as single or double doorsets with a four hour fire rating. Ascot fire rated steel hinged doors provide a robust, durable door, available with a wide range of options and finishes and an extensive variety of ironmongery for escape and security functions as well as fire for all commercial & industrial buildings.

fire range rated up to 240 minutes

door code

A240 fire rated hinged door

Environmental and Acoustic Doorsets

For increased heat insulation and lower energy loss, environmental doorsets provide good sound reducing properties to abate normal operating noise levels in and around commercial, industrial and public buildings for the privacy and comfort of its occupants.

environmental

door code

A600 insulated and acoustic doorsets

A630 fire rated insulated and acoustic doorsets



Steel hinged doors technical specifications

A240 Series Fire doors - 240 minutes

Tested by EXOVA, Warrington to BS EN 1634/1 for up to four hour fire resistance in the latched or unlatched condition on single, double and leaf-and-a-half doors. These doors can be with or without solid overpanel.

Ascot fire doors are made for high traffic volumes and can be fitted with a variety of door furniture. Smoke seals are fitted to the head, jambs and thresholds to ensure a high level of smoke resistance. Ascot also supply unlatched double doors without an astragal.

Door and frame construction

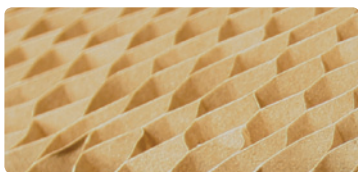
Our unique and carefully constructed door, is finished to provide a 46 mm thick leaf with integral astragal. Skin thickness at the vulnerable edge are the thickest available in the market and come as standard at Ascot.

Doors are assembled from a double tray to provide an edge thickness of between 3.0 mm and 4.8 mm for maximum strength. Each door leaf is supported on a minimum of three 102 x 76 high load ball race hinges to BS EN1935 Class 13 or Class14.

Standard door and frame skins are made from Zintec BS sheet. Where high corrosion resistance is a prerequisite, Aluzinc to BS EN 10327 (AZ:150G) or galvanised steel sheet is used with a wide choice of hardware and core infills.

Infills

A choice of core infills are bonded into the door, whether it's honeycomb for strength and fire protection, mineral wool for insulation and sound proofing or urethane block for reduced heat loss, the technical team can advise on the best infill for the application.



honeycomb
(standard infill)



mineral wool
(reduces heat loss & noise levels)



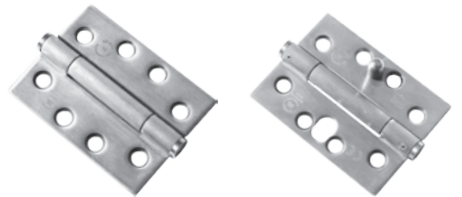
urethane block
(increased thermal properties)



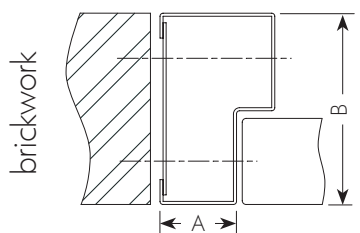
fire door test at
Exova - Warrington



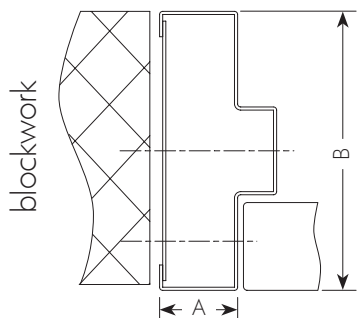
stainless steel hinges EN1935
grade 13 light weight doors
plain and with dog bolt



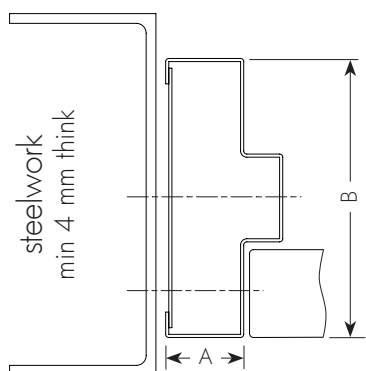
stainless steel hinges EN1935
grade 14 heavy weight doors
plain and with dog bolt



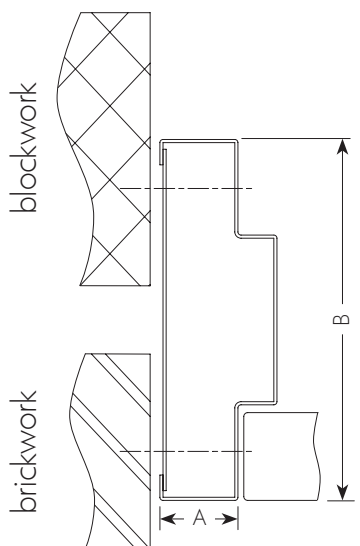
single rebate profile SR1 to SR3



double rebate profile DR1



double rebate profile DR1 A



double rebate profile DR2 to DR7

Frame profile

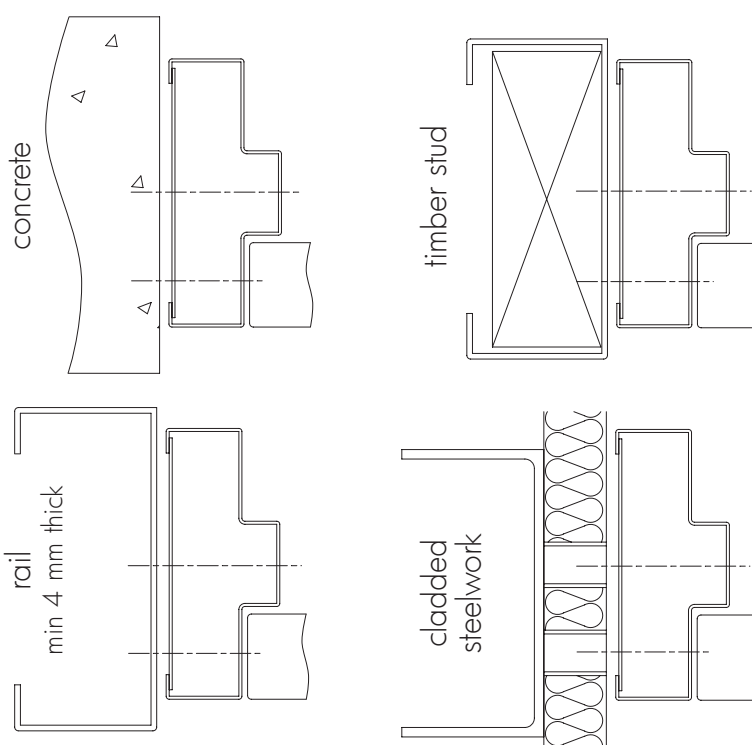
A 1.5 mm thick, single or double rebate folded steel section is fitted with butt joints at the head. Each frame is provided with fixing plates welded into the back of the frame for installation into conventional openings by fixing bolts, packing and shims. Frame faces are 40 mm wide as standard, other frame face widths from 20 to 60 mm are available.

| frame sizes frame reference | A frame face width mm | B frame face width mm |
|--------------------------------|--------------------------|--------------------------|
| SR1 | 20-60 | 127 |
| SR2 | 20-60 | 100 |
| SR3 | 20-60 | 85 |
| DR1/DR1A | 20-60 | 143 |
| DR2 | 20-60 | 143 |
| DR3 | 20-60 | 185 |
| DR4 | 20-60 | 225 |
| DR5 | 20-60 | 250 |
| DR6 | 20-60 | 275 |
| DR7 | 20-60 | 300 |

*more sizes available, ask the technical team

Fixing arrangements

Installing frames to most type of wall or opening, construction is possible using a combination of fixings and frame design. To maximise security and longevity of the installation, frames should be fully supported by a strong structure. Standard 100 mm brickwork 140 mm blockwork, or other wall thicknesses can be accommodated. Brick and blockwork should ideally be solid and dense. Steel structure thickness should be a minimum of 4 mm.

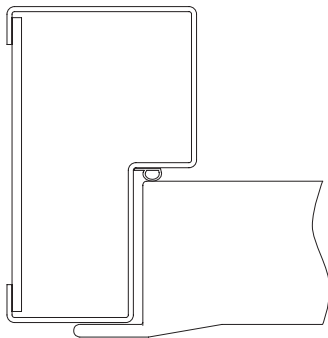


Astragals and handing

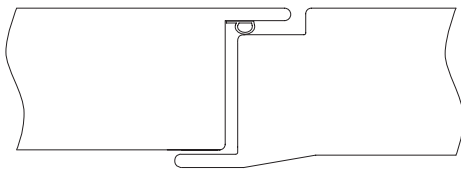
Security features

As standard and only at Ascot Doors, double doorsets have a unique integral meeting style, giving added protection and, in conjunction with seals, a reduction in heat loss. Single doors have a full height integral astragal whose design gives added strength in comparison with astragals that are added by welding or riveting.

Also available are stainless steel dog-bolt hinges, increased skin thicknesses and anti-jemmy channels as options to the standard door.



single door astragal



double door meeting style



single door edge profile



double door edge profile

LPS1175 Security Rated

Where security has to be given the upmost priority. Ascot high security steel doors are approved by the Loss Prevention Certification Board to LPS 1175 security rating levels SR1 to SR5 and Secured by Design. Please see High Security Publication on our web site for more details.

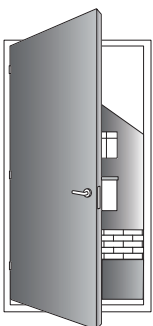


Official Police Security Initiative

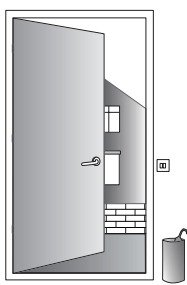
Secured by Design is a crime prevention initiative managed by ACPO CPI limited on behalf of the UK Associated of Chief Police Officers (ACPO)

Handing

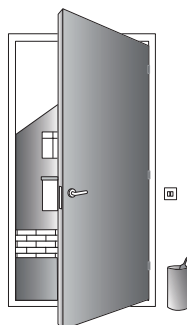
A simple rule to determine the handing of a doorset - stand in front of the closed door on the side where you can see the hinge knuckles. If they are to the right, it is a right hand door - if they are to the left, it is a left hand door. All door handing styles are available in single and double doorsets



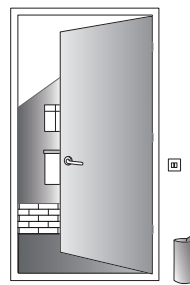
left hand inward opening



right hand outward opening



right hand inward opening



left hand outward opening

Access

Fire exit and Disabled access

Effective clear widths take into account the projection of hardware ironmongery from the face of the door. Only hardware that is within the zone affecting a wheelchair user need be considered. Minimum dimensions complying with BS 8300 and Advisory Document M for disabled access.



Disabled access

| minimum effective clear widths of doors Advisory Document M | | | | | | |
|--|--|-----------------|-----------------|---|-----------------|-----------------|
| All dimensions in mm | new buildings structural opening required | | | existing buildings structural opening required | | |
| | dim A min | width diag 1 | width diag 2 | dim A min | width diag 1 | width diag 2 |
| direction & width of approach | | | | | | |
| straight-on (without a turn or oblique approach) | 800 | 965 | 1065 | 750 | 915 | 1015 |
| at right angles to an access route at least 1500 mm wide | 800 | 965 | 1065 | 750 | 915 | 1015 |
| at right angles to an access route at least 1200 mm wide | 825 | 990 | 1090 | 775 | 940 | 1040 |
| external doors to buildings used by general public | 1000 | 1165 | 1265 | 775 | 940 | 1040 |

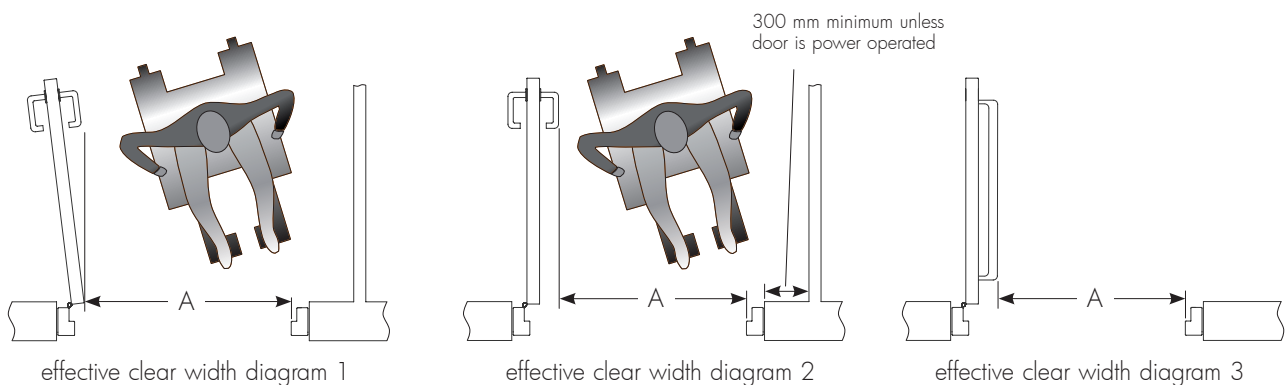
source DHF guide to approved document M

Fire exit openings

Dimensions comply with Advisory Document B for fire exits.

| minimum effective clear widths of doors Advisory Document B | | |
|--|----------------------|----------------------------------|
| | clear width required | structural opening size required |
| no of persons to exit | dim A min | width diag 3 |
| 60 | 750 | 1015 |
| 110 | 850 | 1115 |
| 220 | 1050 | 1315 |
| >220 | 1050+5 per person | +265 to clear width required |

source DHF guide to approved document B



minimum effective clear widths of doors Advisory Document M and B

Door configurations

Profiles

Doorset profiles are made to suit any configuration, a varied combination of louvers and vision panels are available to suit the individual applications, here are a few common examples:

Vision panels

Standard or bespoke door-set shapes are sized to specification. Ascot can supply a wide range and variety of vision shapes. A maximum glazed area applies to fire rated door-sets but is generous enough to meet most needs. Our standard non-fire rated glass is 6.4 mm thick clear laminate. The double glazed units are made from a 6 mm toughened outer plane and 6.4 mm clear laminated inner. Other glass types and reflective films are available. Ascot's fire rated glass is 9 mm thick clear laminated Firelite (TM).

Louvred panels

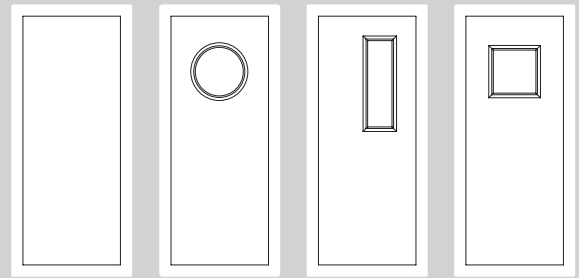
Steel or aluminium louvres can be fitted in many standard and specially made sizes. Bird and insect mesh are available as options. Louvres are supplied in mill finish (aluminium) or primer (steel) or powder coated to match the leaves. All louvres except the smallest give 50% free air. Louvre panels can be fire rated to 60 minutes.

Over & side panels

Any combination of side panels and over panels to suit applications and openings are available.

Hinged over panels

For large over panels that can be difficult to remove, Ascot has designed hinged over panels that can be opened with the personnel doors below or left closed.

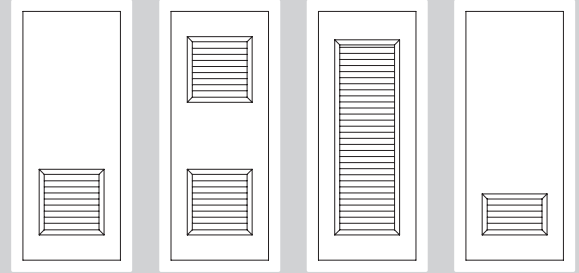


plain

round vision

safety vision

square vision

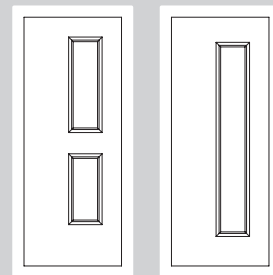


louvre bottom

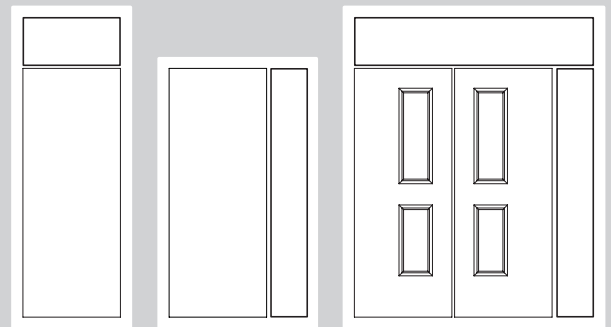
louvre top & bottom

louvre full

louvre small

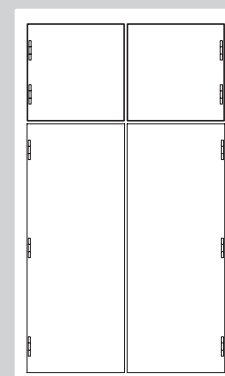


advisory document M disabled compliant



side & over panels single doors

side & over panels double doors



double doors with hinged overpanels

Ironmongery*

- lock cases BS EN 12209
- cylinders BS EN 1303
- panic hardware BS EN 1125 & BS EN179
- closers BS EN 1154
- door co-ordinators BS EN 1158
- levers BS EN 1906
- pull handles satin stainless steel
- Advisory Document (AD) M compliant ironmongery



lock cylinder & case
stainless steel high security sash lock



lock cylinder
stainless steel high security lock



panic bolt
used on single or double doors
available with morticed latch



22 mm safety lever
AD M compliant



inactive leaf flush bolt



pull handle
AD M compliant



door selector
used on push side of double
doors when closers are fitted.



friction stay



door selector
used on pull side of double
doors when closers are fitted.



door closer
required on fire doors
in most cases

Door hardware

A full range of hardware, disabled compliant, in stainless steel or aluminium is available. Alternatively, Ascot can prepare your door to accept client free issue or specified hardware.

All standard lock cases, pull and lever handles, push plates, and escutcheons are made from stainless steel and meet BS EN8300 and are AD M compliant. Standard ironmongery is positioned on the door leaf in accordance with AD B for fire exits and AD M for disabled.

For advice on Advisory Documents B, M and L2, please call the technical team.

Controlled access doors can be fitted with mechanical & digital locks or electrically operated hardware such as magnetic locks, electrical strikes, solenoid locks or bolts controlled by either electronic keypad, card swipe, card reader or fob. We recommend door closers where these features are specified.



Signs

Rigid plastic, aluminium or stainless steel signage is fitted as required by the application.



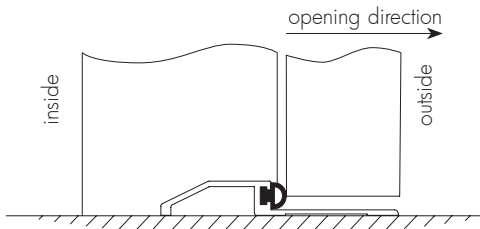
brushed stainless steel



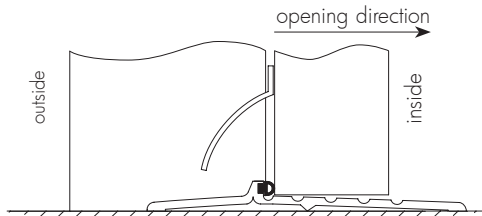
rigid plastic



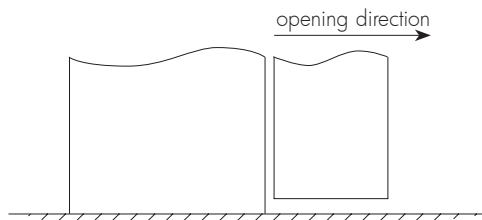
Thresholds, seal options & finishes



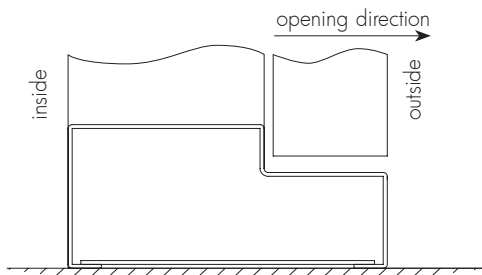
standard threshold
AD 'M' compliant



threshold
inward opening with drip plate



no threshold
internal doors



4 sided frame
bunt prevents fluids egressing

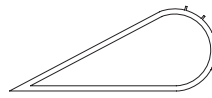
Threshold options

A wide range of low level thresholds for internal and external use that satisfy the requirements of AD M for wheelchairs are available. Thresholds are offered in mill finished aluminium as standard, other finishes are available.

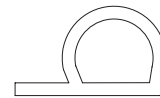
A low level threshold is ideally suited for external applications and incorporates a rubber seal for improved weather sealing, thermal insulation, acoustic and smoke sealing performances. By fitting drop seals or door shoes, extra smoke sealing or acoustic performance requirements can be met.

Sealing

For improved weather and thermal insulation Ascot fit as standard EPDM cellular rubber seals and on fire rated or acoustic door sets self-extinguishing silicone fire seals are employed.



fire seal
(fire and acoustics)



P weather seal
(weather and thermal)

Door and frame finishes

The extensive range of Ascot steel doors and frames are coated in polyester powder coat primer to RAL 7004 (grey) ready for on-site painting or can be factory finished with polyester powder in any available BS or RAL reference. For doors in high salinity or high pollution areas, such as within 5 km of the coast, abattoirs, swimming pools, water treatment works or heavy industrial areas, we recommend a marine grade finish is applied. In addition, the substrate of the doors can be changed to Aluzinc to BS EN 10327 (AZ150G) to give vastly improved door life.



powder coating



Ascot powder coating plant



choice of door and frame colours

Ascot Service and Repair

Fast and reliable for peace of mind. To ensure your doors are maintained in good working order, our UK-wide network of Service Centres are strategically placed to provide the fastest possible response time. If you have a breakdown our stocked service vans can be at your site fixing your door, FAST!



Service

Our nationwide service centre network attend scheduled maintenance visits and on-site repairs. Emergency repairs are often attended within 4 hours. With over 25 years experience manufacturing, installing and repairing doors and 11 service centres, Ascot is the ideal partner you can rely on to maintain your industrial, commercial and retail doors.

Repairs

Damaged doors cause downtime to operations, whether it's people traffic or moving goods in and out of buildings. Business today is moving faster, damage and malfunctions must be repaired quickly and professionally by trained technicians, whether it's one of our doors or another make, Ascot Service and Repair can fix it.

Maintenance agreements

A maintenance agreement offers regular service levels to make sure the frequency of door usage is maintained and to diagnose problems before failure and disturbance to traffic flows occurs. Planned regular maintenance increases functionality and reduces expensive downtime.

Upgrades and replacements

In time, your door requirements will change. Improvements in operations and technology will place greater demands on movements in and out of buildings. Whether it's moving or resizing doors, changing or adding safety and security features the Ascot Service and Repair team can handle it.

Conversions

Converting existing roller shutters, sliding doors, folding doors and sectional overhead doors to electric operation, fully or semi-automatic systems to speed up operations can be incorporated where required. Moving or modifying doors quickly to minimum disruptions are all part of our service.

contact service:
0870 555 6644
service@ascotdoors.co.uk
**maintenance
replacements
all types of doors**

The Ascot Range

Ascot offer a broad selection of doors to suit any commercial, retail or industrial building. We are happy to take you through any application requirement and the regulatory standard required for each door.

steel hinged doors
service and repair
fast acting doors
PVC strip curtain
roller shutters
folding doors
dock levellers
sectional doors
high security doors
fire shutters and doors
LPS1 175 hinge & shutter doors



service centres

North East

Unit 1C, Dean & Chapter Industrial Estate
Ferryhill, COUNTY DURHAM DL17 8LN
Tel: 01740 657 171
Fax: 01740 657 931

Scotland

Unit 59, Evans Business Centre, Bellshill Ind Est
Bellshill, LANARKSHIRE ML4 3NP
Tel: 01698 574 540
Fax: 01698 748 625

North West

Britannia Way industrial Park
Union Road, BOLTON BL2 2HE
Tel: 01204 547 798
Fax: 01204 547 797

Yorkshire

Unit 2, Wortley Court, Fallbank Industrial Estate
Dodworth, BARNSLEY S75 3LS
Tel: 01226 246 667
Fax: 01226 248 436

West Midlands

Unit 18, Block D, Wednesbury Trad. Est.
Wednesbury, BIRMINGHAM WS10 7JN
Tel: 01215 025 934
Fax: 01215 025 931

East Midlands

Unit 7, Oaks industrial Estate,
Coalville, LEICESTER LE67 3NQ
Tel: 01530 817 682
Fax: 01530 817 680

South Central

Unit 2, Lennox Industrial Mall, Lennox Road
BASINGSTOKE RG22 4DF
Tel: 01256 322 566
Fax: 01256 353 002

East Anglia

Unit G3, Seedbed Centre, Wyncolls Road
COLCHESTER CO4 9HT
Tel: 01206 843 413
Fax: 01206 843 319

South West

Unit 21, Blake Mill Business Park,
Brue Avenue, BRIDGWATER TA6 5LT
Tel: 01278 439 313
Fax: 01278 439 200

London

Unit L, The Business Centre, Faringdon Avenue
Harold Hill, ROMFORD RM3 8EN
Tel: 01708 386 900
Fax: 01708 386 886

South East

Unit 36, Thomas Way, Lakesview Business Park
Hersdon, Nr. CANTERBURY CT3 4JZ
Tel: 01227 711 757
Fax: 01227 713 786



head office

Ascot Doors Limited

Britannia Way Industrial Park
Union Road, Bolton BL2 2HE
Tel: 01204 545 801
Fax: 01204 545 800

www.ascotdoors.co.uk

