

LPCB Approved Security Doors and Shutters

Steel Hinged Doors LPS1175 Security Rating 2, 3 & 4

Roller Shutters LPS1175 Security Rating 1,2, 3 & 4



ascot
DOORS

made to measure

Centurion Hinged Doors & Shutters

Welcome to Ascot Doors Limited, manufacturer and installer of individually made-to-measure high performance steel hinged and roller shutter 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 makes purpose-made doors in it's own factories using the latest computer controlled production equipment. Together with modern welding techniques and in-house 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 made and fitted in accordance with LPS1175 where appropriate, 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.



armouries & gun clubs
banks & building societies
public buildings & museums
local authorities & hospitals
pharmaceutical & research
education establishments
telecommunications & utilities
factories & warehouses
defence buildings & police stations

Centurion high performance doors	1
Hinged door specifications & sizes	2 - 3
Ironmongery & locking systems	4 - 5
Selection guide & finishes	6
Roller shutter doors	7
Construction & shutter sizes	8
Shutter operation	9 - 11
Shutter options	12
Service and Repair	13



Quality Systems Certificate No. 131
Assessed to ISO 9001:2000



Certificate No. 131/b
Certificate No. 131/d



High security performance doors

Where security is priority. Ascot's doors are approved by the Loss Prevention Certification Board to LPS1175 and combine strength with elegance and durability with cost effectiveness.

In buildings, where safety and security can't be met by standard doors, Ascot high security steel doorsets are designed to resist attempts at forced entry. Doorsets are individually made to specification to fit any door opening and are constructed up to Security Rating 4 to resist a 10 minute attack by

one person using powered tools. Ascot steel hinged doors don't shrink, warp or twist, they are immune to insect attack and will not support bacteria, mould or fungi. Ascot steel doors are hard wearing and designed to cope with high traffic levels for internal and external use.



steel hinged doors
roller shutters

LPS1175 Security Rating 4 - tool category D

Under this rating, doors are tested to withstand an experienced attempt at forced entry using tools which include high power cordless disc grinders, circular saws, power drills, jig saws, a sledge hammer, a felling axe, hole saws, plate shears, bolt cutters, steel wedges and a hooligan bar.

LPS1175 Security Rating 3 - tool category C

Under this rating doors are tested to withstand a deliberated attempt at forced entry using bodily physical force and a wide selection of tools including an axe, cold chisels, brick bolsters, a crow bar, a lump hammer and a cordless drill.

LPS1175 Security Rating 2 - tool category B

Shutters certified to this security standards have resisted a series of professional attacks, each lasting up to 2 minutes using a variety of hand-tools such as hammers, levers, a screwdriver, a steel tube and shears.

LPS1175 Security Rating 1 - tool category A

Shutters certified to SR1 security standards have resisted a series of professional attacks, each lasting up to 1 minute using a variety of hand-tools such as levers, screwdrivers, spanners and punches.



Security Rating			
level of risk	security ref no.	hinged doors	roller shutters
Very high	SR4	✓	✓
High	SR3	✓	✓
Medium	SR2	✓	✓
Moderate	SR1		✓

High Security Steel Hinged Door specifications

continuous dog
bolt hinge

Security specification

Ascot Doors employ a leaf and frame design and reinforcing techniques to provide high levels of security. Doors are fitted with door furniture to meet the most demanding specifications. A resilient polyester powder coat base primer reduces maintenance and improves the life of the finished coat; a factory applied polyester top coat or paint to most BS or RAL colours are available as options. Features include a unique double leaf anti-penetration full height astragal, single doors have a market 'first' leading edge design to prevent jemmying.

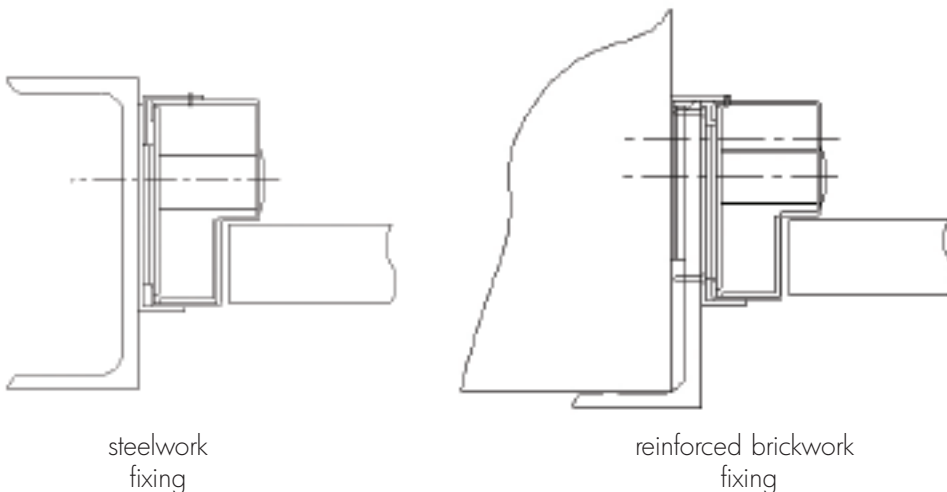
Door and frame construction

Centurion high security doors are available as single or double doorsets for internal and external use. Doors and frames are constructed from Zintec steel to BS EN 10152 which provides excellent corrosion resistance and improved paint adhesion than galvanised steel. Panels are reinforced horizontally and vertically with 3.0 mm Zintec steel channels.

Standard honeycomb infill is expanded and bonded within the door under pressure. The folded twin tray construction is welded resulting in a leaf of 50 mm thick. Each door leaf is supported on continuous stainless steel high load hinges with integral dog-bolts. Frames are made from 2.0 mm Zintec steel press braked to give standard or special profiles, butt jointed and welded corners as standard.

Fixing arrangements

Installation configurations SR4			substrate		
product name	LPCB ref no.	reinforced brickwork	reinforced concrete	structural steel	
Centurion A355	131d/01	✓	✓	✓	
Centurion A364S	131d/02	✓	✓	✓	
Centurion A364D	131d/03	✓	✓	✓	
Centurion A363S	131d/04	✓	✓	✓	
Centurion A363D	131d/05	✓	✓	✓	



Steel Hinged Door sizes

Openings

Ascot high security hinged doors are certified according to the sizes in the tables below, single leaf doors are 700 x 1800 minimum and 1350 x 2900 maximum. Double leaf doors are 1400 x 1800 minimum and 2610 x 2900 maximum.



LPS1175 SR4								
product name	doorset configuration	min height	min width	max height	max width	locked condition	security rating	LPCB ref no
Centurion A355	single leaf outward opening	1800	700	2500	1350	optimum minimum	4 2	131d/01
Centurion A364S	single leaf outward opening	1800	700	2900	1350	optimum minimum	4 2	131d/02
Centurion A364D	double leaf outward opening	1800	1400	2900	2610	optimum minimum	4 2	131d/03

source: LPCB cert.131d issued to Ascot Doors Limited

LPS1175 SR3								
structural openings mm								
product name	doorset configuration	min height	min width	max height	max width	locked condition	security rating	LPCB ref no
Centurion A363S	single leaf outward opening	1800	1400	2900	2610	optimum minimum	4 2	131d/04
Centurion A363D	double leaf outward opening	1800	700	2900	1350	optimum minimum	4 2	131d/05

source: LPCB cert.131d issued to Ascot Doors Limited

Handing

A simple rule to determine the handing of a door-set; - stand in front of the closed door or 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. High security door handing styles are available in single and double door sets and open outwards.



right hand outward opening



left hand outward opening

Hinged Door Selection

selection guide



1. number of bolts

3-point bolting

secure a single door or the active leaf of a double door set at the top, bottom and centre.

2-point bolting

secure the passive (first to close) leaf of a double doorset at the top and bottom only.

2. entry method

deadlocking with access control

12v solenoid, energise to unlock (fail secure) and handle entry.

no entry

exit door only.

deadlocking with key and handle entry

3. exit method

deadlocking with access control

handle, pad or bar release on the inside

no exit

entry door only

deadlocking with key

handle, pad or bar release on the inside

deadlocking with turnknob

handle release on inside

bolting with panic bar

release on inside

bolting with emergency breakdome

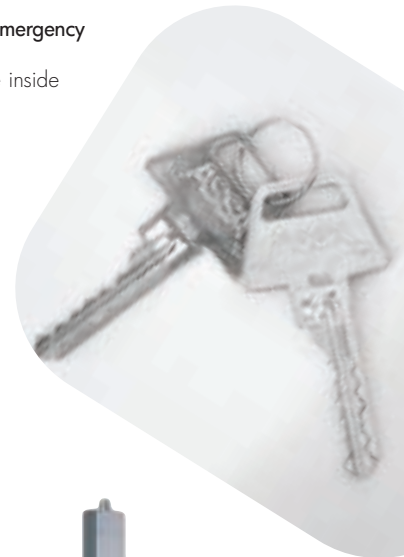
release on the inside

Ironmongery

Security

A range of high security panic and escape hardware by Mico-Tindall is factory fitted. Three point bolt units to single doors and five point bolt units to double doors.

The units can be operated by pad, lever or bar and be supplied as single action escape units or have the ability to be internally locked by key or thumbturn. Access externally is by cylinder in a high security housing and lever.



pad



bar



lever



3 point panic locking system

Locks and access control

Doors are fitted with Assa lock cylinders as standard, additional locking and access control methods are available. For controlled access, doors can be fitted with electrically operated hardware controlled by either keypad, card swipe, card reader or fob.



Assa 4803 lock cylinder



Assa 4801 Scandinavian oval lock cylinder



Assa 4807 Scandinavian oval lock cylinder

Access control options

- lock cylinder
- RFID swipe card
- magnetic card reader
- RFID fob
- thumb print recognition
- electronic keypad
- solenoid locks
- timed limited locks

more styles available, ask the technical team

Locking options



ELK4 lock with lever



EPCH4 lock



Mico tower bolt

Compatible locking systems

LPS1175 SR4 high security doorsets

compatible locking system

product name	LPCB ref no.	doorset configuration	active leaf	passive leaf	compatible cylinders
Centurion A355	131d/01	single leaf outward opening	Mico 942-3 INT MD 3-way auto bolting panic exit device with internal manual mechanical deadlock option	-	Assa 4803 Scandinavian oval
Centurion A364S	131d/02	single leaf outward opening	Mico 942-3, 3 way auto-bolting non-deadlock panic exit device - a total of 32 locking options	-	-
Centurion A364D	131d/03	double leaf outward opening	Mico 942-3, 3 way auto-bolting non-deadlock panic exit device - a total of 32 locking options	Mico 942-2, 2 way auto-bolting non-deadlock panic exit device operated by bar, pad or lever	-

source: LPCB cert.131d issued to Ascot Doors Limited

Locking options

Compatible locking systems					
LPS1175 SR3 high security doorsets					compatible locking system
product name	LPCB ref no.	doorset configuration	active leaf	passive leaf	compatible cylinders
Centurion A363S	131d/04	single leaf outward opening	Mico 942-3, 3 way auto-bolting non-deadlock panic exit device - a total of 32 locking options	-	-
Centurion A363D	131d/05	double leaf outward opening	Mico 942-3, 3 way auto-bolting non-deadlock panic exit device - a total of 32 locking options	Mico 942-2, 2 way auto-bolting non-deadlock panic exit device operated by bar, pad or lever	-

source: LPCB cert.131d issued to Ascot Doors Limited

Hardware options



heavy duty door closer
(with hold open if required)



heavy duty stay



22 mm safety lever

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.



High Security Roller Shutters

Where higher levels of security is a main concern, the LPS1175 approved Centurion Shutter resists attempts at forced entry from SR1 right up to SR4 to combat the most determined perpetrator.



Construction

Highly versatile and cost effective. Ascot Centurion High Security Shutters are individually designed and manufactured to suit the specific opening using stylish laths, which are much more attractive than conventional sections. A wide variety of curtains and guide sections are available which are dependant on the level of security rating required.

Curtains

Shutter curtains are constructed from either traditional steel laths, extruded aluminium or aluminium insulated lath dependant on the security rating required. All curtains are securely held using an end lock to suit the curtain configuration which prevents lateral movement. Traditional steel lath is available in perforated finish (SR1 only). The aluminium lath is available in punch and/or punched and glazed (SR1 only). All Ascot shutter curtains are finished off with either a heavy duty roll formed 'T' section (SR4 only) or mill finished extruded aluminium bottom rail.

Guides

Vertical guides are formed from rolled steel or extruded aluminium dependent on size, wind loading and security rating and are supplied with suitable angles for fixing to the structure.

Endplates

Mild steel endplates of appropriate thickness relative to door size are supplied with angles for fixing to the structure. Either 5 mm thick (min) for tube motor operation or 8 mm (min) thick primmed steel laser cut endplates for direct drive operation are provided to accept the barrel and curtain assembly. They are complete with either galvanised steel tube motor brackets and lost bobbin or high quality two bolt flange bearings.

Barrel

The barrel assembly is constructed from seamless steel tube of adequate diameter to resist deflection and is supported in bearings or cups attached to mild steel endplates.

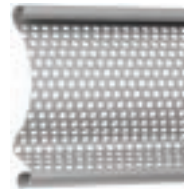
factories
retail shops
loading bays
warehouses
industrial units



Solid Steel Lath (SR1 only)



Aluminium Single Skin Solid Lath (SR1 only)



Steel Perforated Lath (SR1 only)



Aluminium Punched Glazed Single Skin Lath (SR1 only)



Steel Double Skin Lath (SR4 only)



Aluminium Double Skin Lath (SR3 only)



Steel Bottom Rail



Aluminium Bottom Rail



Steel Guide & Angle Section



Aluminium Guide & Angle Section

Construction & Shutter sizes

aluminium laths

The Ascot Centurion shutter is constructed to meet the demands of the Loss Prevention Certification Board. The following table illustrates the construction configuration in conformance to the specified Security Rating for the opening.

Construction			
LPS1175 roller shutter door sets			
product name	configuration	guide type	curtain construction
Centurion SR4	face fixed	steel reinforced	double skin laths with reinforced bars
Centurion SR3	reveal & face fixed internally	aluminium	double skin aluminium laths
Centurion SR2	reveal & face fixed internally	steel	18 gauge steel laths
Centurion SR1	reveal & face fixed internally	steel	solid 22 gauge steel laths perforated 22 gauge steel laths solid single skin aluminium laths punched aluminium laths punched and glazed aluminium laths

Fixing arrangements

Installation configurations							
door	product ref	security rating	LPCB ref no.	substrate			
				brickwork	blockwork	concrete	structural steel
Centurion A305SS	SR1	131e/01	✓	✓	✓	✓	
Centurion A305PS	SR1	131e/02	✓	✓	✓	✓	
Centurion A305SA	SR1	131e/03	✓	✓	✓	✓	
Centurion A305PA	SR1	131e/04	✓	✓	✓	✓	
Centurion A305PG	SR1	131e/05	✓	✓	✓	✓	
Centurion A310SS	SR2	131e/06	✓	✓	✓	✓	
Centurion A315	SR3	131e/07	✓	✓	✓	✓	
Centurion A320	SR4	131b	✓	✓	✓	✓	

Openings

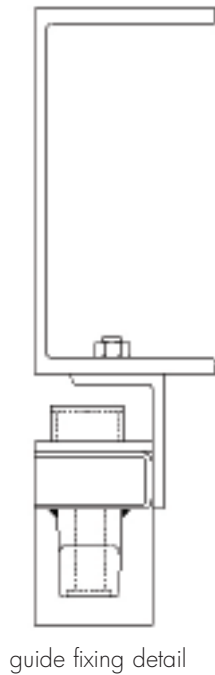
Roller shutters are manufactured to suit the specific opening. Maximum and minimum design sizes in the table below are approved by the LPCB to LPS1175.

Sizes				
product name	structural openings mm			
	min height	min width	max height	max width
Centurion SR4	2,000	2,500	7,000	9,000
Centurion SR3	2,000	1,000	7,000	7,000
Centurion SR2	1,000	1,000	7,000	7,000
Centurion SR1	1,000	1,000	7,000	7,000

Operation

Shutter operation

The method of opening security shutters depends on the size and weight of the curtain and customer preference. Single phase (230 V) and three phase (415 V) electrically driven doors are operated with an internal keyswitch.

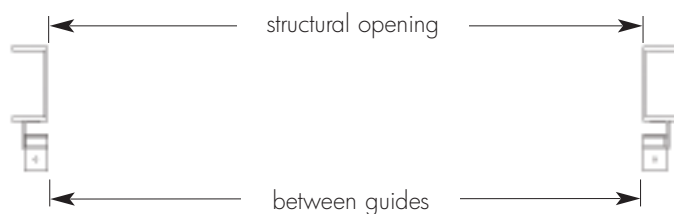


Operation			opening type			
door	LPCB ref no.	push up	tube motor 230 V	direct drive 415 V	electric counter sprung barrel 415 V	
Centurion SR4	131b		✓	✓	✓	
Centurion SR3	131e/07		✓	✓		
Centurion SR2	131e/06	✓	✓	✓		
Centurion SR1	131e/01-05	✓	✓	✓		

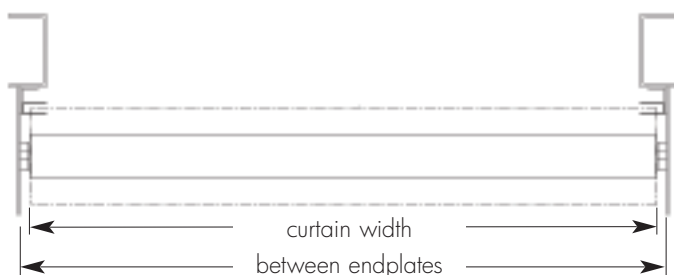
Manual Push Up

The roller assembly is constructed from a 9' gauge galvanised steel tube. High quality helically wound counter balance springs, mounted inside the tube allows operators to push-up and pull-down the curtain smoothly and effortlessly. The tube assembly is hung from endplates via galvanised cups.

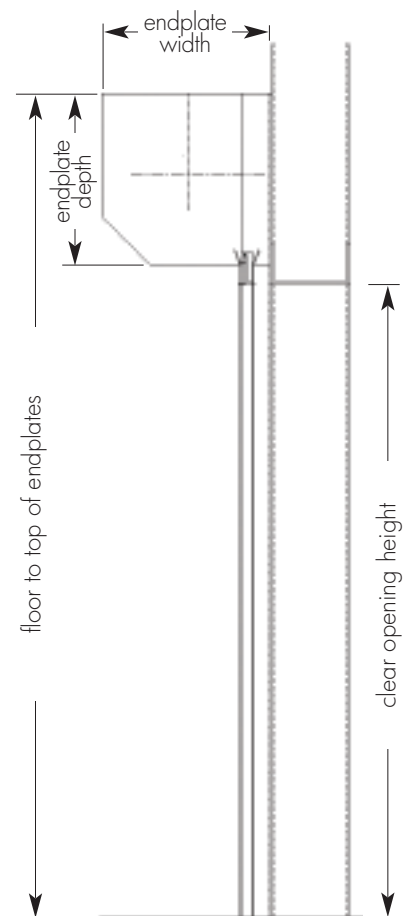
Push up operation is suitable for smaller openings where frequency of operation is limited and is typically used on doorways, windows, serveries or bars. Openings exceeding 2500 mm x 2500 mm should be electrically operated.



plan at guide level



plan at barrel level



section

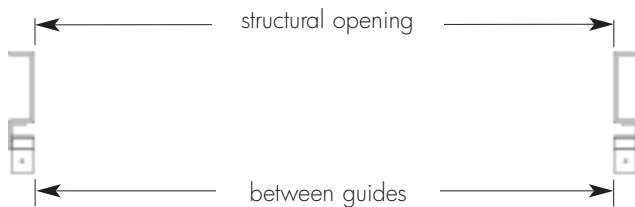
Operation

Electric Tube Motor

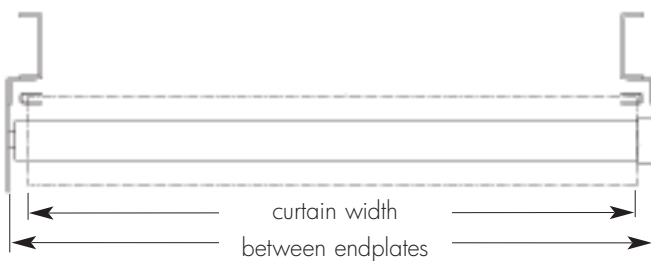
The roller assembly is constructed from high quality steel tubes, the outside diameter and wall thickness suits the door size. Contained within the barrel is a 240 volt tubular motor set in high grade castings and sleeves. The motor is totally concealed within the barrel and comes with a manual over-ride (at high level) to allow operation in the event of power failure. The full barrel assembly is hung from endplates via galvanised steel fixing brackets and bearing or lost bobbin brackets.

Any shutter installed over a door-way is fitted with a safety brake to prevent the shutter from falling under its own weight in the event of motor or gearing failure. The motor is mounted within the roller mechanism, which reduces the amount of space required to accommodate the head assembly.

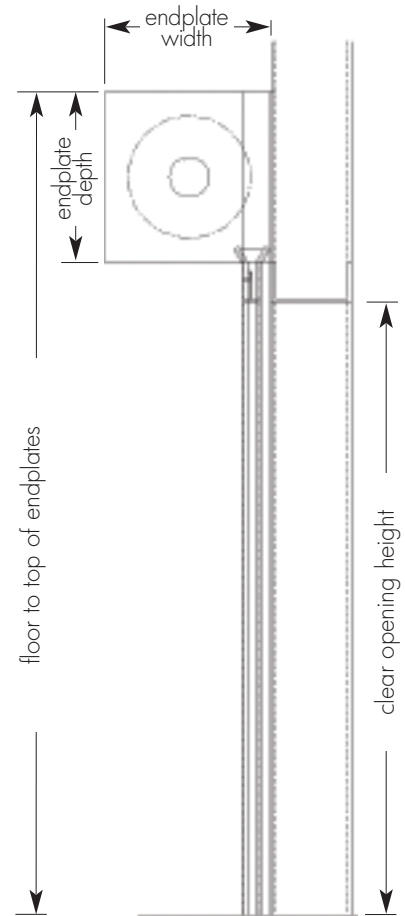
Single-phase tube motors are typically used on shop-front, office or domestic, low use applications. Safety brakes (anti fall-back device) are fitted where necessary to comply with European regulations. Emergency hand operation is provided as standard via a manual eyelet for crank handle operation in event of power or mechanical failure. Electric tube motors are available with a wide range of electrical control options.



plan at guide level



plan at barrel level



section

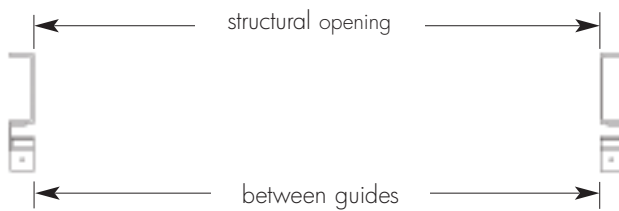
Operation

Electric Direct Drive (safe-drive)

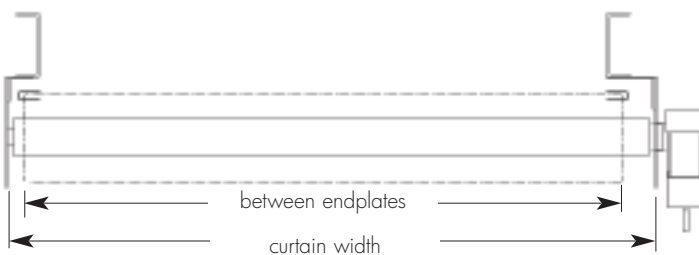
The roller assembly is constructed from mild steel tube, the outside diameter and wall thickness is dependant on the door size and is mounted on 8 mm (min) thick mild steel spools and solid keywayed shafts, eliminating the need for counter balance springs or gear trains.

EDD's are fitted with an integral safety brake (anti fall-back device) to comply with European safety regulations. Emergency hand chain, operable from floor level is provided as standard in the event of electrical or mechanical failure.

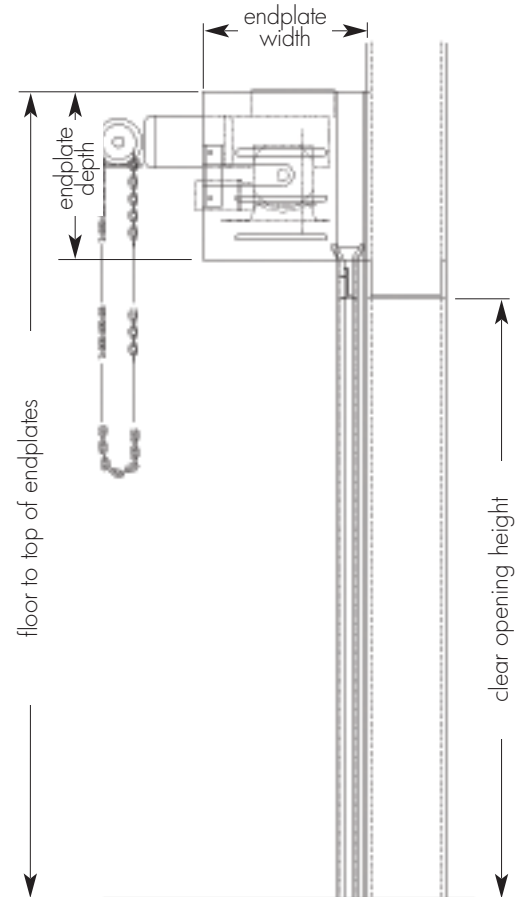
The Ascot EDD operation is available with an extensive range of plug-in, pre-wired, low voltage control options, varying from a simple push-button or keyswitch.



plan at guide level



plan at barrel level



section

Roller Shutter Options

Locking

All shutters are furnished with two high security bullet locks. The lock housings are bolted directly to the guide section. For shutters over 5000 mm wide, (SR4) a ground lock is fitted to the bottom rail for added protection against levering and jacking.

Finish

Centurion shutters are finished in standard galvanised steel or mill finished aluminium. Polyester power coat finish in a range of RAL or BS references are available as an option.

Bullet lock interlocks

On electrically operated shutters, bullet locks can be provided with a control panel to prevent operation whilst in the locked position, warning signs can be provided.

Hood coil casing & fascia's

The roller assembly can be encased in a galvanised steel pressed coil casing to provide protection to the barrel and curtain, it also finishes off the shutter for better looks.

Silver Lance Anti Ram Post

Where the risk of ram raids is high, the Ascot Silver Lance Post provides a second line of defence to buildings from the threat of a forced entry using a vehicle. Manufactured from 90 tonne grade high tensile steel, Ascot Anti Ram posts are positioned 750 mm apart behind the shutter and are easily removed during working hours.

Keyswitch

High security tamper proof keyswitch to operate the tube motor shutter.



bullet lock



hoods & fascia's (option)



direct drive control panel



Keyswitch



Silver Lance Anti Ram Post



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.

Spare parts

A comprehensive spare parts distribution network, together with well stocked service vans means we get engineers and parts to your site within 24 hours of ordering.



contact service:
01204 309 908
service@ascotdoors.co.uk

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.

- service and repair
- steel hinged doors
- roller shutters
- fast acting doors
- sectional doors
- high security doors
- fire shutters and doors
- dock levellers
- PVC strip curtain
- LPS1175 hinge & shutter doors
- folding doors



LPS1197
Certificate No. 131c

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: 01252 786 400
Fax: 01252 786 440

North West & National Accounts

Unit 1, Viola Street, Astley Bridge
Bolton BL1 8 NG
Tel: 01204 309 908
Fax: 01204 300 532

Yorkshire

Unit 20, Grange Lane Industrial Estate
Stairfoot Barnsley, S71 5AS
Tel: 01226 246 667
Fax: 01226 248 271

West Midlands

Unit 18, Block B, Wednesbury Trad. Est.
Wednesbury, Birmingham WS10 7JN
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Fax: 01215 025 931

Midlands

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

South Central

Unit 2, Lennox Industrial Mall, Lennox Road
Basingstoke RG22 4DF
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Fax: 01256 353 002

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Unit G3, Seedbed Centre, Wyncolls Road,
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