

High Security Doors and Shutters

Steel Hinged Doors

LPS1175 Security Rating 1, 2, 3, 4 & 5

Secured by Design

EN1627 TO EN1630 RC3



Roller Shutters

LPS1175 Security Rating 1,2, 3 & 4

Secured by Design



ascot

DOORS

A DORMA BUSINESS

made to measure

Centurion Hinged Doors & Shutters

LPS1175

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
- factories & warehouses
- education establishments
- banks & building societies
- pharmaceutical & research
- local authorities & hospitals
- public buildings & museums
- telecommunications & utilities
- 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
Shutter specifications	8
Shutter operation	9 - 11
Shutter options	12
Service and Repair	13



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



Certificate no. 8833
ISO 9001
ISO 18001



High security performance doors

Where security is priority. Ascot's doors are approved by the Loss Prevention Certification Board to LPS1175, EN1627 to EN1630 and Secure by Design 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 to Security Ratings 1-5 to resist a series of attacks from one minute to 10 minutes duration by 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. All grades of security door can be supplied fire rated for up to 240 minutes to BS EN 1634.

LPS1175 Security Rating 5 - tool category D+

SR5 rated doors are tested to withstand a determined attempt at forced entry using 18 volt cordless tools, powered disc cutters, a reciprocating saw as well as tools in categories A to D.

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 12 volt cordless powered hand tools, disc grinders, circular saws, power drills, jig saws, a sledge hammer, a felling axe, hole saws, plate shears, bolt cutters, steel wedges and 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 axe, cold chisels, brick bolsters, crow bar, lump hammer and cordless drill.

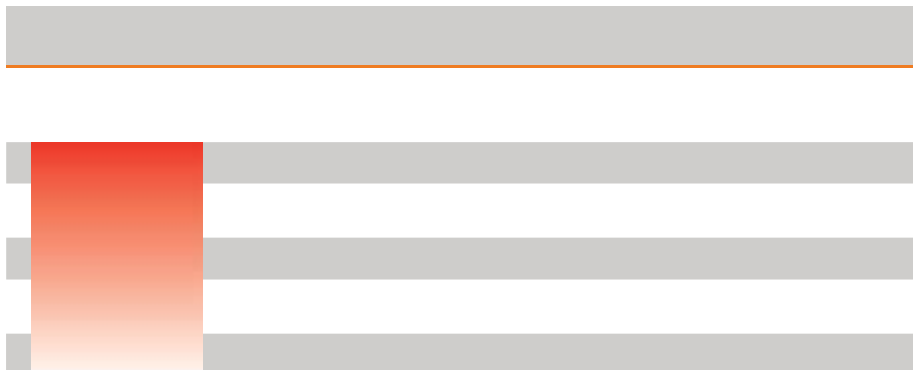
LPS1175 Security Rating 2 - tool category B

Hinged doors and shutters certified to these 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, screwdriver, steel tube and shears.

LPS1175 Security Rating 1 - tool category A

Hinged doors and shutters certified to these 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.

Steel hinged doors Roller shutters



High security Steel Hinged Door specifications

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 usually constructed from Zintec steel to BS EN 10152 which provides excellent corrosion resistance and improved paint adhesion than galvanised steel. Panels are reinforced with anti-jemmy channels. For increased corrosion resistance doorsets aluzinc or galvanised steel is used.

Door and frame construction SR4 & SR5

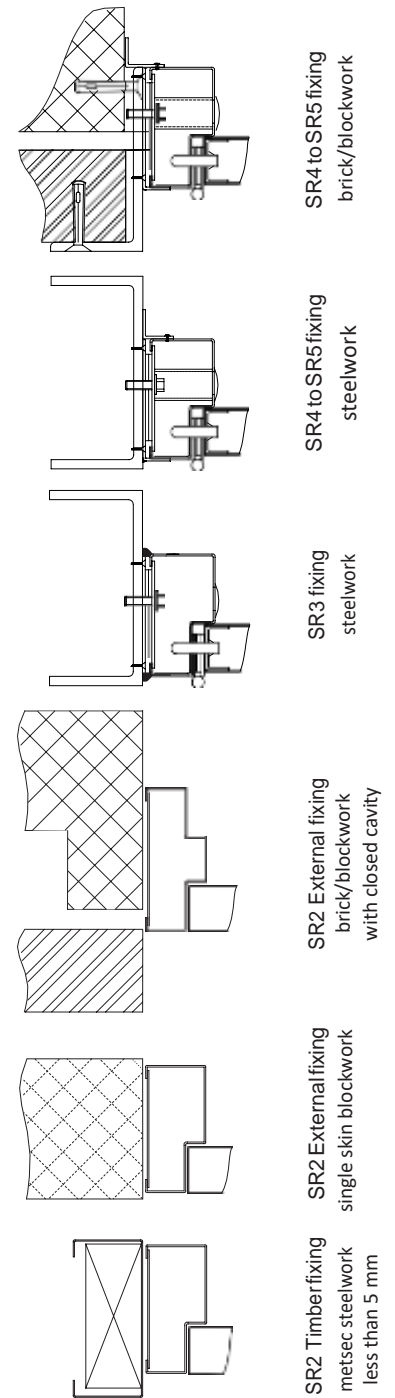
Panels are reinforced horizontally and vertically with 3.0 mm Zintec steel channels. Standard honeycomb infill is expanded and bonded within the door under pressure. The folded twin tray construction is welded resulting in a leaf thickness of 50 mm. Each door leaf is supported on continuous stainless steel high load hinges with integral security dog-bolts. Frames are made from 2 mm Zintec steel press braked to give standard or special profiles.

Door and frame construction SR3

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 thickness of 50 mm. Each door leaf is supported on continuous stainless steel high load hinges with integral security dog-bolts. Frames are made from 2 mm Zintec steel press braked to give standard or special profiles. Jointed & welded corners as standard.

Door and frame construction SR1 & SR2

Appropriate reinforcements for the specified ironmongery are assembled within the leaf. The twin tray construction, complete with paper honeycomb infill, is bonded under pressure and welded to form a 45 mm thick panel. Each door leaf is supported on stainless steel dog bolt hinges to EN1935 Grade 14. Frames are made from 1.6 mm Zintec steel press braked to form standard or special profiles, butt jointed and bolted as standard.



Fixing arrangements - installation configurations SR1 to SR5

			substrate				
			SR1	SR2	SR3	SR4	SR5
Rating	door ref no.	LPCB ref no	timber brickwork blockwork	timber (hardwood) brick/blockwork steelwork	brickwork blockwork Steelwork	reinforced brick/blockwork, steelwork reinforced concrete	reinforced concrete steelwork
SR5	A365S	131d					☑
	A365D	131d					☑
SR4	A355S	131d				☑	☑
	A364S	131d				☑	☑
	A364D	131d			☑	☑	☑
SR3	A363S	131d			☑	☑	☑
	A363D	131d			☑	☑	☑
SR2	A362S	131d		☑	☑	☑	☑
	A362D	131d		☑	☑	☑	☑
SR1	A361S	131d	☑	☑	☑	☑	☑
	A361D	131d	☑	☑	☑	☑	☑

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. The requirement for taller doorsets can be accommodated with hinged overpanels and removable transoms.



LPS1175 SR3, SR4, SR5						
structural openings mm						
product name	doorset configuration	min height	min width	max height	max width	security rating
Centurian A365S	single leaf	1800	700	2900	1350	5
Centurian A365D	single leaf outward opening	1800	1400	2900	1350	5
Centurian A355S	single leaf	1800	700	2500	1350	4
Centurian A364S	single leaf outward opening	1800	700	2900	1350	4
Centurian A364D	double leaf	1800	1400	2900	2610	4
Centurian A363S	single leaf outward opening	1800	700	2900	1350	3
Centurian A363D	double leaf outward opening	1800	1400	2900	2610	3



overpanel

LPS1175 SR1, SR2						
structural openings mm						
product name	doorset configuration	min height	min width	max height	max width	security rating
Centurian A362S	single leaf, outward opening	1800	700	2500	1350	2
Centurian A362D	double leaf, outward opening single point locking to active leaf	1800	1400	2500	2610	2
Centurian A362S	single leaf, outward opening	1800	700	2900	1350	2
Centurian A362D	double leaf, outward opening three point locking to active leaf	1800	1400	2900	2610	2
Centurian A361S	single leaf, outward opening	1800	700	2500	1350	1
Centurian A361D	double leaf, outward opening single point locking to active leaf	1800	1400	2500	2610	1
Centurian A361S	single leaf, outward opening	1800	700	2900	1350	1
Centurian A361D	double leaf, outward opening three point locking to active leaf	1800	1400	2900	2610	1

Max height for single point locking 2,500 mm

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.

Single point Abryll
single leaves or active leaf on double doors

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 surface mounted panic and escape hardware by Mico-Tindall is factory fitted. Mortice lock are available for SR1 and SR2 complete with cylinder guards to protect external cylinders.

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.

Ascot offer double fire escape doors with ironmongery to EN1125 and LPS 1175 SR4.



SLP504 Double panic bolt to EN1125



bar



pad



Abryll MD3
with heavy duty cranked lever



3 point panic
locking system

Locking options

Locks and access control

A choice of certified locking cylinders from Assa, Abloy, Kaba, Locken, Union, AMS, Medeco and others in various shapes e.g. Euro profile, Scandinavian Oval, Rim and Round threaded. Doors are fitted with Assa Scandinavian 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.

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, please ask the technical team



Internal Scandinavian oval cylinder



External Scandinavian oval cylinder



Euro single cylinder



ABLOY round cylinder



ASSA round cylinder

External access



USCH5 lock cylinder (Up to SR5)



USCH lock cylinder housing (Up to SR4)



ELK lock with lever

For a full list please refer to www.ascotdoors.co.uk

Ironmongery



22 mm safety lever



Stainless Steel
Mico tower bolt



Visions

We offer security rated visions approved to LPS1175 which can also be fire rated for up to 60 minutes. Our range is continually expanding, so please contact the technical team for up to date information.

Fan light SR2

Glazed fanlights can be supplied to LPS1175 SR2 level with glazing complying with LPS1270

Louvres

Steel louvres can also be installed in Ascot LPS1175 doorsets. Please contact the technical team for details.



Standard size
clear vision:
100 x 500 mm

High security
vision window
(internal view)

Hardware options



heavy duty door closer
(with hold open if required)



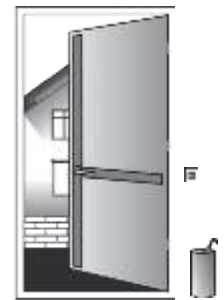
heavy duty stay

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

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.



Ascot powder coating plant

Choice of door and frame colours

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 lath, aluminium insulated lath or galvanised 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 (SR1 & SR2 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 safety brake 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
warehouses
loading bays
industrial units



Solid Steel Lath (SR1 & SR2)



Aluminium Single Skin Solid Lath (SR1 only)



Steel Perforated Lath (SR1 only)



Aluminium Punched Glazed Single Skin Lath (SR1 only)



Aluminium Double Skin Lath (SR4 only)



Aluminium Double Skin Lath (SR3 only)



Steel Guide & Angle Section



Aluminium Guide & Angle Section



Steel Double Skin Lath (SR2 to SR4)



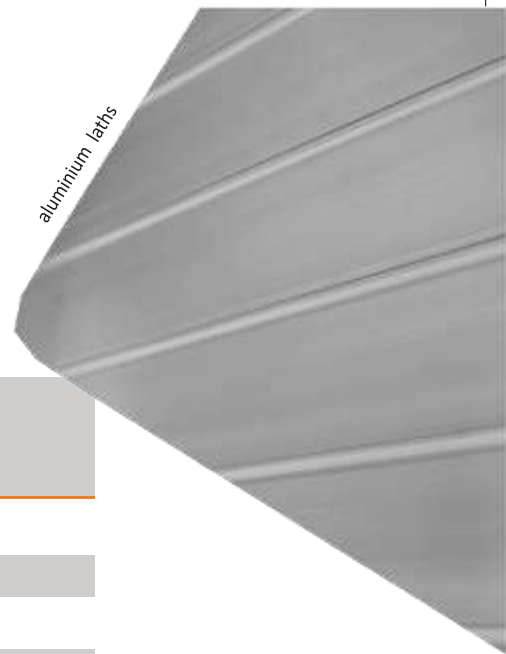
Steel Bottom Rail



Aluminium Bottom Rail

Construction & Shutter sizes

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.



Fixing arrangements

Installation configurations							
				substrate			
door	product ref	security rating	LPCB ref no.	brickwork	blockwork	concrete	structural steel
Centurion	A305SS	SR1	131e	⌘	⌘	⌘	⌘
Centurion	A305PS	SR1	131e	⌘	⌘	⌘	⌘
Centurion	A305SA	SR1	131e	⌘	⌘	⌘	⌘
Centurion	A305PA	SR1	131e	⌘	⌘	⌘	⌘
Centurion	A305PG	SR1	131e	⌘	⌘	⌘	⌘
Centurion	A310SS	SR2	131e	⌘	⌘	⌘	⌘
Centurion	A311IS	SR2	131e	⌘	⌘	⌘	⌘
Centurion	A315	SR3	131e	⌘	⌘	⌘	⌘
Centurion	A320	SR4	131b	⌘	⌘	⌘	⌘

Openings

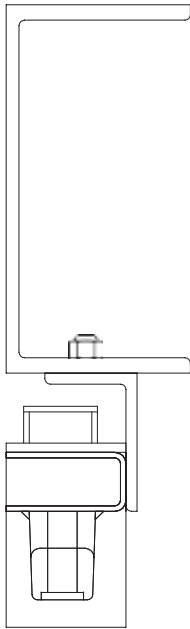
Roller shutters are manufactured to suit the specific opening. Maximum and minimum design sizes in the table below are approved by the LPCB to LPS1175.

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



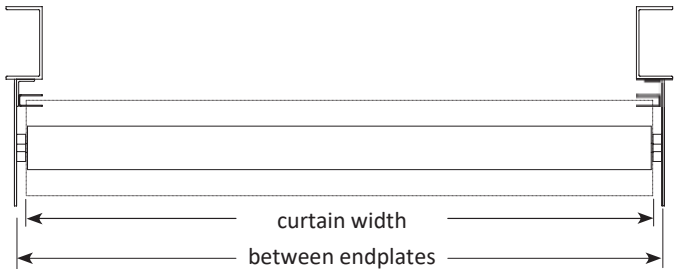
guide fixing detail

Operation			opening type			
Door	LPCB ref no.	push up	tube motor 230 V	direct drive 415 V	electric chain drive barrel 415 V	
Centurion SR4	131b		☑	☑	☑	
Centurion SR3	131e		☑	☑		
Centurion SR2	131e	☑	☑	☑		
Centurion SR2 Ins	131e		☑	☑	☑	
Centurion SR1	131e/01-05	☑	☑	☑		

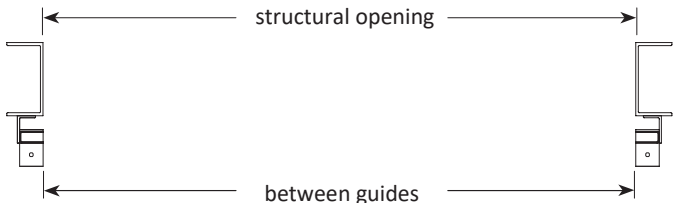
Manual Push Up

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.

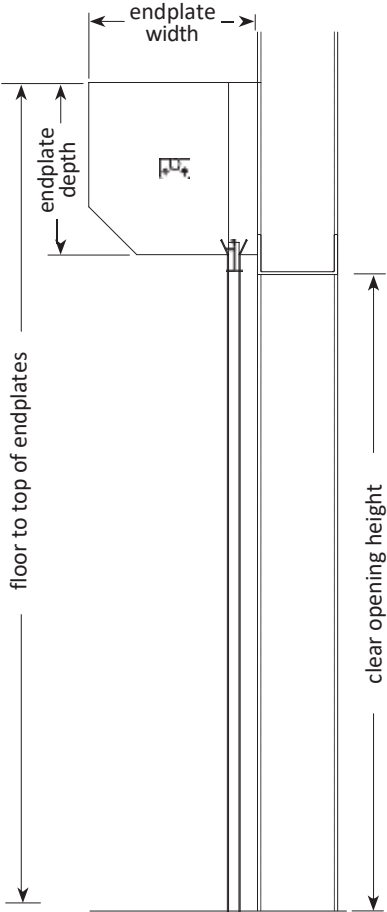
Push up operation is suitable for smaller openings where frequency of operation is limited and is typically used on smaller openings such as doorways, windows, serveries or bars. Openings exceeding 2500 mm x 2500 mm should be electrically operated.



plan at guide level



plan at barrel level



section

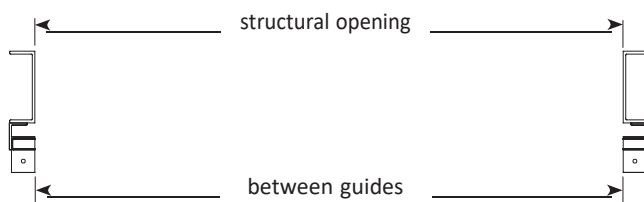
Operation

Electric Tube Motor

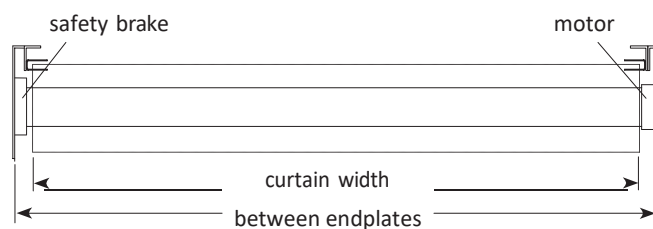
The roller assembly is constructed from high quality steel tubes, the outside diameter and wall thickness suits the door size. Contained within the barrel is a 240 volt tubular motor set in high grade castings and sleeves. The motor is totally concealed within the barrel and comes with a manual over-ride (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 safety brake.

Any shutters are 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.

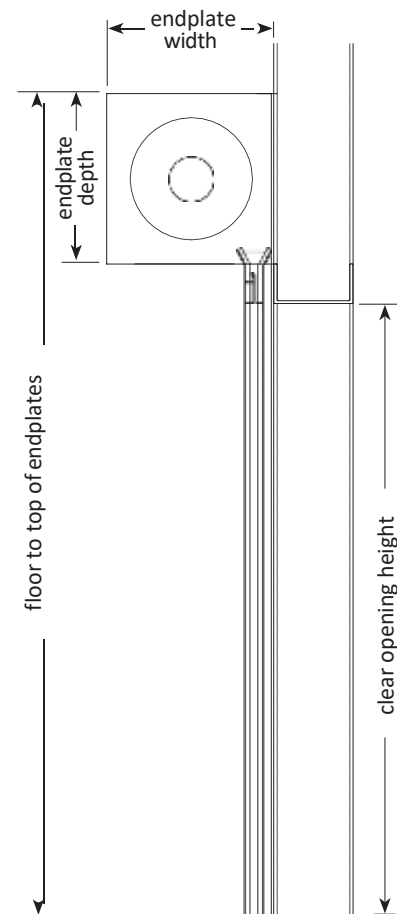
Single-phase tube motors are typically used on shop-front, office or domestic, low use applications. Safety brakes (anti fall-back device) are fitted on all shutters to comply with European regulations. Emergency hand operation is provided as standard via a manual eyelet for crank handle operation in 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

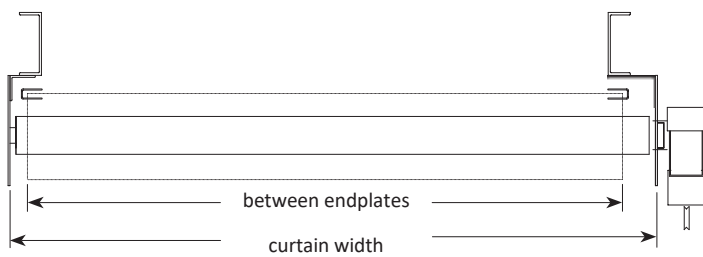
Operation

Electric Direct Drive (safe-drive)

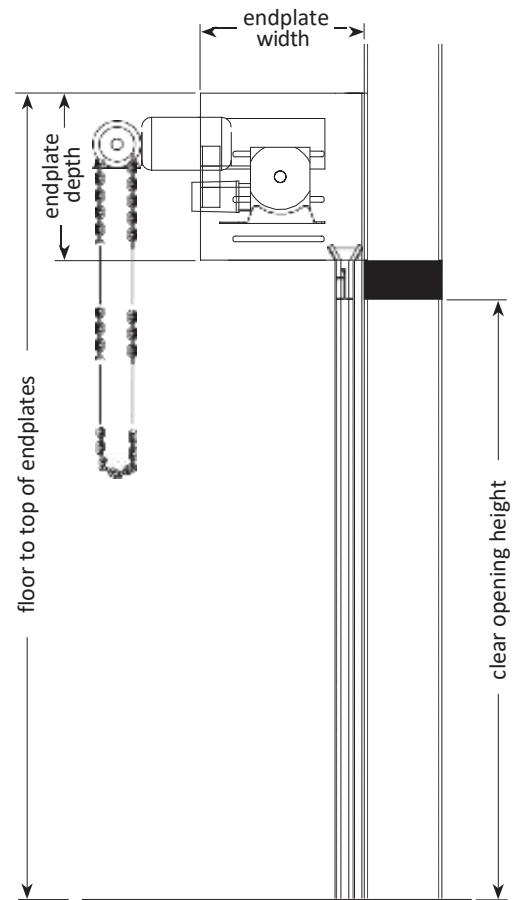
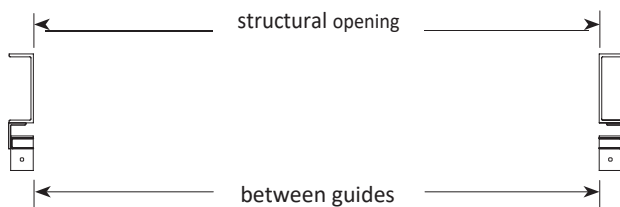
The roller assembly is constructed from mild steel tube, the outside diameter and wall thickness is dependant on the door size and is mounted on an 8 mm (min) thick mild steel spools and solid keywayed shafts, eliminating the need for counter balance springs or gear trains.

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



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.

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.

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.

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, and provides a better appearance.

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 tube motor shutter.



bullet lock



hoods & fascia's (option)



direct drive control panel



keyswitch



silver Lance Anti Ram Post



RAL & BS shades

Service and Maintenance

DORMA's acquisition of Ascot Doors gives an unrivalled capability to service and maintain all your access requirements, combining our respective skills in commercial and industrial doors.



Service

When you choose DORMA, you are supported by a nationwide team of local, accredited and fully trained engineers throughout the UK & Ireland, 24 hours a day, 7 days a week. Our specialised service covers all brands of automatic door, manual door closers, industrial doors and roller shutters to offer you a complete solution from front to back of house.

contact service:

0800 212 380

callout@dorma-uk.co.uk

Maintenance and 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, we can fix it for you.



Service Contracts

All doors, whether manual, automatic or industrial use complex components which are subject to punishing wear and tear. Therefore to ensure that they continue to function as they should, regular service, maintenance and modernisation is imperative. Regular door maintenance helps prevent accidents, reduces breakdowns and the accompanying inconvenience, and prolongs the life of the door.



Construction Skills Certification Scheme

Construction Skills Certification Scheme CSCS was set up to help the construction industry improve quality and reduce accidents. Our engineers hold CSCS cards which are increasingly demanded as proof of occupational competence by contractors, public and private clients and others.



Gold award

c

