



Roller Shutters

Retail

Industrial

Commercial



Retail and Industrial Shutters

Welcome to Ascot Doors Limited, manufacturer of individually made-to-measure high performance roller shutter doors

Made to measure

Ascot Doors offer the complete service from design, manufacture & installation to on-going service and emergency repairs.

Unrivalled aesthetics and performance have become the hallmark of Ascot's shutters in all applications from retail and warehousing to industrial units and factories.

Based in Bolton, UK, Ascot manufacture it's made to measure shutters in it's own purpose built factories using the

latest manufacturing equipment and under ISO 9001 quality assurance.

Together with powder coating technology, the highest quality standards are applied, not only to products, but to peoples daily work processes.

Recognised internationally for high levels of quality and safety, Ascot produces doors for UK, and overseas customers



retail shops
loading bays
warehouses
public buildings
museums
local authorities
utilities & factories
industrial units
aste handling stations
supermarkets
distribution centres

For LPS 1175 rated high security shutters and fire shutters please refer to specific brochures.











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Roller Shutters

Ascot Roller Shutters combine strength with elegance and durability with cost effectiveness. They are hard wearing and designed to cope with high traffic levels for internal and external applications.

Highly versatile and cost effective. Ascot Shutters are individually designed and manufactured to suit the specific opening and are suitable for all types of applications.

Our range of Roller Shutter doors have been designed to meet and comply with the requirements of Product Standard BS EN 13241-1:2003 Industrial, commercial and garage doors and gates. For openings above 4500 mm wide, Shutter Doors are fitted with our tested wind anchor guide system as standard. Smaller sizes can be fitted with this system if required.



Shutter curtains are constructed from either traditional steel laths or steel insulated laths. All curtains are securely held using an end lock to suit the curtain configuration which prevents lateral movement. Steel laths are available with perforations and punched slots, with an option for glazing. All Ascot shutter curtains are complete with a heavy duty 'T' section bottom rail.

Curt	ain types	
depth mm	n lath construction	used for
75	galvanised steel (curved)	most applications
75	galvanised perforated steel (curved)	where visibility, ventilation and security is required
75	galvanised punched steel (curved)	where visibility, ventilation and security is required
85	steel double skin	when insulation $\&$ acoustic values are required

Endplates

Steel endplates of appropriate thickness to accept the barrel and curtain assembly are complete with either galvanised steel tube motor brackets, or high quality two-bolt flanged bearings for direct drive relative to the door size. Endplates are supplied with angles for fixing to the structure.



Standard endplate



Tube motor endplate



Solid Steel Lath
0.71mm, 1.0mm or 1.2mm



Steel Perforated Lath 0.71mm, 1.0mm or 1.2mm



Steel Double Insulated Lath



Punched Lath



Steel Bottom Rail

Shutter Construction

Guides

Formed from rolled steel, vertical guides are specified according to the size of opening, wind loading and security rating. They are supplied with suitable angles for fixing to the structure.

Wind loads

All of our door curtains have been tested to BS EN 1341-1 and fully comply. All testing was completed in conjunction with the supporting wind loading standards BS EN 12424:2000 and BS EN 12444: 2001.

Fixing arrangements

Ascot shutters are installed to a variety of buildings and construction materials. Shutters are installed to most type of wall or openings using a combination of fixings, (see below).

Fixings are calculated for every location and torques specified for individual bolt-sets within our fixing instructions. Recommended bolt sizes for fixing the door to the opening structure are calculated.

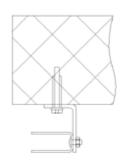


Fixings to suit any type of construction material

Max standard size 8000×8000 other sizes available on request



brickwork fixing



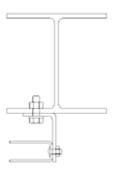
blockwork



Steel Guide & Standard Angle Section



Steel Guide & Insulated Angle Section



steelwork



steelwork



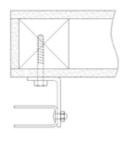
Wind Anchor & Insulated Angle Section



Guide & bottom rail interface



steelwork



timber

Manual Push Up (self coiling)

The roller assembly is constructed from 9 SWG gauge (3 mm) galvanised steel tube. High quality helically wound counter balance springs, mounted inside the tube allow 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. Ascot recommend that shutters exceeding $2500 \text{ mm} \times 2500 \text{ mm}$ should be hand chain or electrically operated.

As standard, Ascot fit bullet locks to manual push up doors - other locking options are available on request.

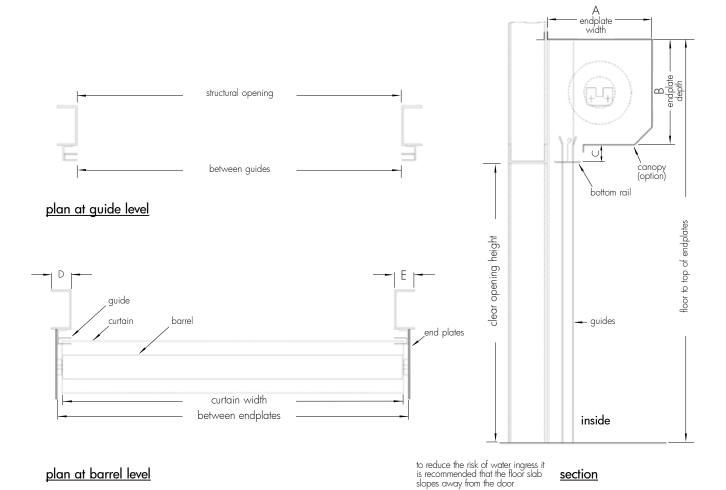
Head space requirements			
opening height mm	A mm	B mm	C mm
up to 2000	250	250	50
up to 3000	300	300	50

Space requirem	nents o	n plan
opening width mm	D mm	E mm
up to 3000	75	75





Maximum size 3000 x 3000 other sizes available on request



Hand Chain Drive

Manual operation is by means of a continuous galvanised haul chain through single or double reduction gearing.

The barrel is constructed from high quality steel tube of varying diameters and wall thickness. Exact dimensions are dependant upon overall door width and height. The barrel also contains a bright steel shaft with a minimum diameter of 25 mm up to a maximum of 80 mm. The counter balance spring arrangement is captivated by using a combination of machined blocks and bearings. The barrel is fully supported on mild steel cups that are securely attached to the endplate assembly.

As standard, Ascot fit a chain keep to hand chain operated shutter doors other locking options are available.

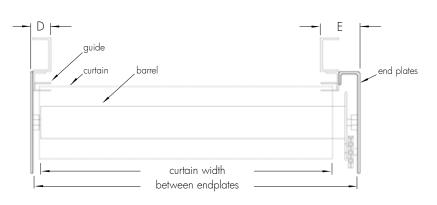
We strongly recommend that shutters exceeding 22 square metres should be electrically operated.

Head space requirements					
	opening height mm	A mm	B mm	C	
	up to 3500	400	400	50	
	up to 4500	450	500	50	
	up to 6500	550	550	50	

Space requirem	nents o	n plan
opening width mm	D mm	E mm
up to 6500	100	175



plan at guide level



plan at barrel level

hand chain operation can be positioned at either side of the opening

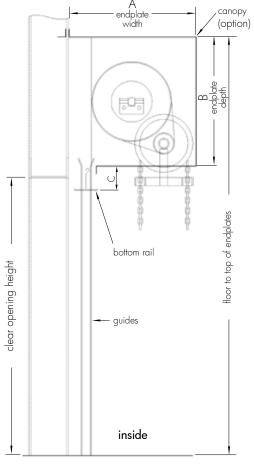
to reduce the risk of water ingress it is recommended that the floor slab slopes away from the door



Low cost option No electrical supply needed



Maximum size 6500×6500 other sizes available on request



<u>section</u>

Electric Tube Motor

The roller assembly is constructed from high quality steel tube, the outside diameter and wall thickness suiting the door size. Contained within the barrel is a 240 volt (415 volt three phase on larger shutters) single phase tubular motor set in high grade blocks 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. The motor is mounted within the roller mechanism, which offers space saving characteristics.

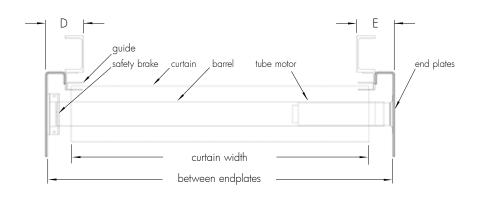
Single-phase tube motors are typically used on shop-front, office buildings, window or entrance security and low use applications. Safety brake anti fall-back devices are fitted where necessary to comply with European regulations. Emergency hand operation is provided as standard via a manual eyelet for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

Head space requirements				
opening height mm	A mm	B mm	C mm	
up to 2500	300	300	75	
up to 3500	350	350	75	
up to 4500	400	400	75	
up to 6000	450	450	75	
up to 6500	500	500	75	

Space requiren	nents o	n plan
opening width	D	Е
mm	mm	mm
up to 6500	200	200



plan at guide level



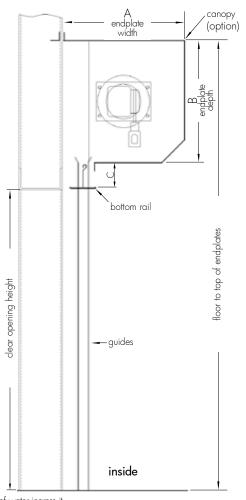
plan at barrel level



Single & Three phase motor Ideal for confined areas Lower cost option



Maximum size 6500×6500 other sizes available on request



to reduce the risk of water ingress it is recommended that the floor slab slopes away from the door

Electric Direct Drive (safe-drive)

The roller assembly is constructed from mild steel tube, the outside diameter and wall thickness is dependent 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.

Fundamental to our design is safety. The SAFEDRIVE® digital direct drive system allows us to build a springless door which is simple to install, easy to wire and commission yet complies with the requirements of BS EN 12453 and BS EN 12604. The SAFEDRIVE® digital direct drive motor incorporates a patented safety brake (anti fall-back device) which has been certified by an independent laboratory, to comply with European safety regulations. An 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 to more advanced control options.

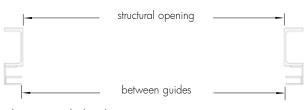
Fewer moving parts Single & three phase motor Internal safety brake



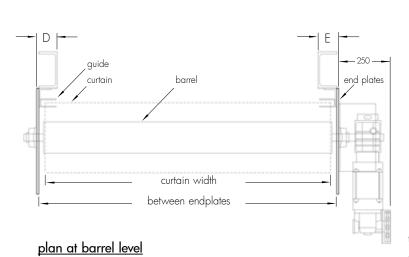
Maximum 8000 x 8000 other sizes available on request

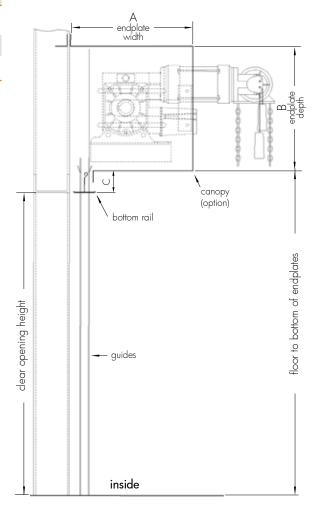
Head space requirements				
opening height mm	A mm	B mm	C mm	
up to 5000	430	430	75	
up to 7000	500	500	75	
up to 8000	550	550	75	

Space requirements on plan			
opening width mm	D E mm mm		
up to 6500	100 100		
over 6500	125 125		



plan at quide level





to reduce the risk of water ingress it is recommended that the floor slab slopes away from the door

<u>section</u>

Flectric Geared Drive

The barrel is constructed from high quality steel tube of varying diameters and wall thickness. Exact dimensions are dependant upon overall door width and height. The barrel will also a contain a bright steel shaft, minimum diameter 25 mm up to a maximum of 80 mm diameter. The counter balance spring arrangement is captivated by using a combination of machined blocks, blocks and bearings. The barrel is fully supported on mild steel cups that are securely attached to the endplate assembly.

The Ascot geared motor operation is available with an extensive range of plug-in, pre-wired, low voltage control options, varying from a simple pushbutton or keyswitch to more advanced control options.

Head space requirements				
opening height mm	A mm	B mm	C mm	
up to 4500	600	400	75	
up to 6500	650	450	75	
up to 8000	700	500	75	

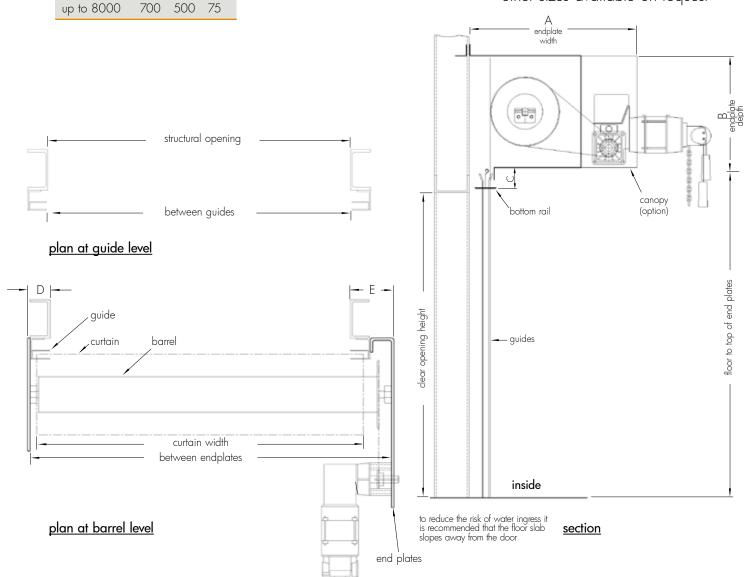
Space requirements on plan			
opening width mm	D E mm mm		
up to 6500	100 175		
over 6500	125 200		



Ideal for openings with side room restriction



Maximum 8000 x 8000 other sizes available on request



Insulated shutters with Electric Direct Drive

Where heat loss is a primary concern, an insulated shutter is the obvious choice. The door curtain has a weighted sound reduction of 18db and an insulation of 0.69 w/m2 (u-value). These shutters use steel laths with an insulated in-fill.

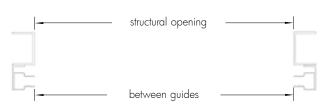
The roller assembly is constructed from mild steel tube, the outside diameter and wall thickness is dependant on the door size and is mounted on 8 mm (min) thick steel spools and solid keywayed shafts, eliminating the need for counter balance springs or gear trains.

Fundamental to our design is safety. The SAFEDRIVE® digital direct drive system allows us to build a springless door which is simple to install, easy to wire and commission yet complies with the requirements of BS EN 12453 and BS EN 12604. The SAFEDRIVE® digital direct drive motor incorporates a patented safety brake (anti fall-back device) which has been certified by an independent laboratory. An Emergency hand chain, operable from floor level is provided as standard in the event of electrical or mechanical failure.

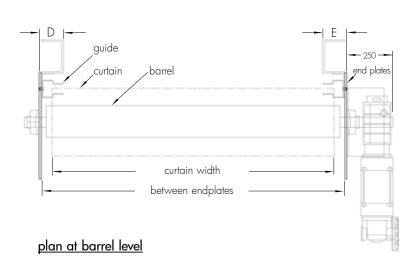
The Ascot insulated shutter operation is available with an extensive range of plugin, pre-wired low voltage control options.

Head space requirements				
opening height mm	A mm	B mm	C mm	
up to 2500	430	430	75	
up to 4000	500	500	75	
up to 5500	550	550	75	
up to 7000	600	600	75	
up to 8000	650	650	75	

Space requirements on plan			
opening width mm	D mm	E mm	
up to 8000	110	110	



<u>plan at guide level</u>





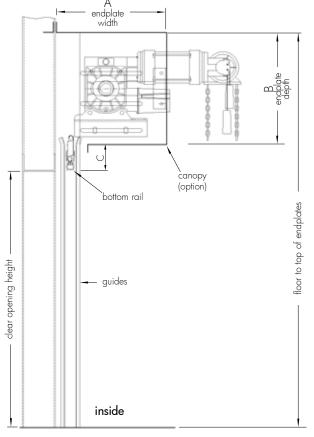




Rubber bottom seal Insulated lath



brush seals



to reduce the risk of water ingress it is recommended that the floor slab slopes away from the door

<u>section</u>

Roller Shutter Options

Coil casing

The roller assembly can be encased in a galvanised steel pressed coil casing and soffits to provide protection for the barrel and curtain. This finishes off the shutter aesthetically. Casings can be powder coated to match the shutter curtain.

Fascias

Where required, a fascia can be fitted to give an aesthetic finish to the

Motor casing

On shutters under 2500 mm high a motor cover is fitted as standard. On larger shutters this can be fitted as an option and can be powder coated to match the shutter where applicable.

Locking options

Our range of integrated and retrofittable locking options provide increased levels of security and includes industry leading locks. Our standard range includes:

Bullet Locks (interlocked) Chain keep locks Shoot bolts (interlocked) Ground locks Centre locks

Wicket doors

Where pedestrian access is needed in larger shutters, wicket doors reduce the need to raise the whole door for pedestrian access and reduces the amount of heat lost. Wicket doors are constructed from the same materials as the shutters to give good aesthetics whilst maintaining a robust and durable door. Wicket doors fit into roller shutter with a maximum width of 5500 mm (or 25M2). For electrically operating doors, interlocking is recommended.

Rubber bottom strips

Rubber bottom strips can be fitted to the under side of the bottom rail.

Brush seals

Brush seals can be fitted to the door head and guides.

Interlock switch

Used in conjunction with shoot bolts to prevent electrical operation while locks are engauged.

Wind anchor guides

On wide door openings or where problems exist with gusting winds, we offer an anchor guide system which is designed to withstand wind loadings in accordance with BS EN 12424:2000 and BS EN 12444:2001.

Finish

Ascot shutters are finished in standard galvanised steel. Polyester powder coat finish in a range of RAL or BS references is available as an option.







fascias



motor covers



bullet lock



Bullet lock interlocked



centre lock



chain keep



shoot bolt



rubber bottom strips



interlock switch for shoot bolt



finish RAL & BS shades

Standard electrical controls

Keyswitch (tube motor shutter)

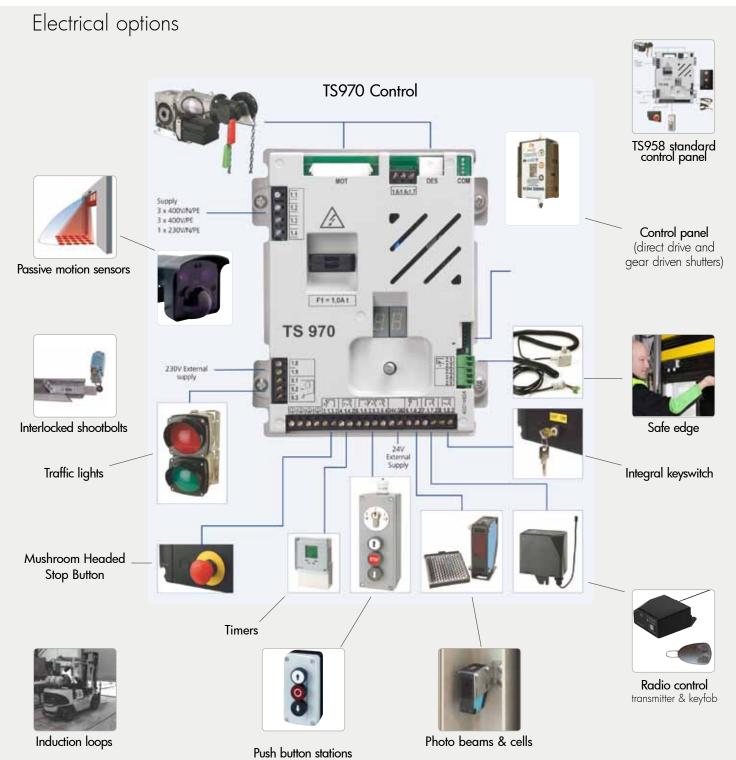
Keyswitches provide a secure, safe and easily operable method of door operation for authorised users. Tamper proof and mounted internally or externally, flush or surface mounted, the keyswitch operates electrically operated shutters by inserting and turning the key. Available on direct drive and geared shutters as an option.

37:

Control panel (direct drive and gear driven shutters)

Electrically operated shutters are installed with a TS958 control panel as standard. The control panel is supplied with a pluggable cable for connecting to the motor, a 3 pin red CEE plug on a 0.5M lead for connection to the power supply and allow the door limits to be programmed from floor level. The TS958 control panel can be programmed to allow the door to 'impulse' open and has a service counter, life time cycle counter and fault diagnosis. Special electrical controls are available on request.





Electrical options

Control

TS958 and TS970 allows easy and rapid setting of limit switch positions and door parameters. Digital limits can monitor the load on the door whilst opening to prevent objects or persons being accidentally lifted. A programmable door maintenance indicator allows the installer to set suitable maintenance intervals of between 1000 to 99000 operations which indicates when the shutter door needs servicing.

Passive motion sensors

Sensors can differentiate between vehicular and pedestrian traffic, also between cross and approaching traffic. Passive motion sensors can also be selected to detect a stationary presence in the selected area.

Interlocked shootbolts

Electrically isolate the door when required or prevent door operation when integrated personnel doors are being used by pedestrians.

Traffic lights

Can be set to offer a number of light combinations. They provide visual door status and warning of doors position or ovement.

Mushroom Headed Stop Button - For latching/stopping the door in its required position and preventing further operation until released.

Timer

For automatic operation, a 7 day 24 hour timer allows the shutters to be triggered by a set time.

Induction loops

For selected operation by vehicles, induction loops can open a closed door or reopen a closing door. They also keep the door in the open position as long as the vehicle stays in the looped area.

Push button stations

A range of push buttons stations for remote operation or operation for authorised users only, with the selection of push button with built-in key-switch facility.

Safe edge

To comply with BS EN 12453 minimum level of safeguarding at the main edge and the limitation of forces a requirement for all automatic doors, safe edges either ensure immediate stopping or stop and reverse (re-open), should the leading edge of the door make contact with an object during it's closing mode.

Integral keyswitch

For allowing authorised personnel only to isolate the door from use, by means of a key.

Radio control

Ideal for multi-user sites, a remote control key fob gives easy access on and off the premises where the unit is installed, ideal in buildings such as retail outlets and grilles. The encrypted rolling code offers high security whilst allowing multi users into the building. Fork lift truck mounted hand set transmitters for industrial applications are available.

Photo beams & cells

Required by BS EN 12453 combined with safety edge for automatic doors. Offering a limited level of safety before the door makes contact with an object, or used to trigger the operation of the door. Mounted at high level both inside and outside of shutters doors where the possibility of accidental lifting of persons could take place.

Industrial & Commercial Doorsets

Ascot Doors provide the complete door solution from design, made-to-measure 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, Ascot manufactures their made to measure doors using the latest computer controlled production equipment. Ascot's technical sales team can arrange a site visit to discuss your individual requirements and can provide a free no obligation quotation.

The Ascot Range

Ascot supply a range of doors to suit any commercial, retail or industrial building. We are happy to discuss any application requirement and the regulatory standard required for each door.

High Security Doors LPS1175, SR1-SR5
Security Shutters to LPS1175, SR1-SR4
Fire Hinged Doors to LPS1056
Fast Acting Rapid Roll Doors
Sectional Overhead Doors
Fire Shutters to LPS1056
Fire & Smoke Curtains



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