



## GENERAL

**Introduction** The Mercian A400 Mastergrille will provide physical security to openings that previously have been either too large or have required the use of intermediate removable mullions. They offer an extremely cost effective security screen whilst still displaying goods to potential customers with much lower risk of vandalism and pilferage. Small sizes can easily be opened and closed by one person. Particularly suitable for tailored security packages.

Maximum opening size; 10000 mm wide x 6000 mm high.

Special features of this range are:

- Individual parts can easily be replaced if damaged.
- Wide choice of finishes/colours including mill or anodised aluminium, powdercoated
- Rapid installation by factory trained engineers.
- Tried and tested design manufactured to a quality control system to ensure long, trouble free life
- Flexible range of options to suit customers specific requirements.

## COMPOSITION

**Curtain** Constructed from extruded aluminium tubes and links which form a grille pattern of 420 mm x 113 mm. Smooth operation is assisted by nylon guide rollers.

**Bottom Rail** Rigid and robust section in aluminium, give additional strength to the bottom of the curtain.

**Side Guide** Profiled aluminium or steel section which offers minimum resistance to the movement of the curtain. Flares at the top of the guides provide an accurate lead for the grille curtain.

**Torsion Springs** As required by our design specification. Mild steel heavy duty endplates and rolled steel fixing angles are used to transfer the barrel weight back to the structure. Not required where tubular motor operation is specified.

**Locking** The curtain is not usually locked with electrical operation, various types are available for manually operated grilles.

## Accessories

The following are available as factory fitted extras or as supplementary items at a later date;

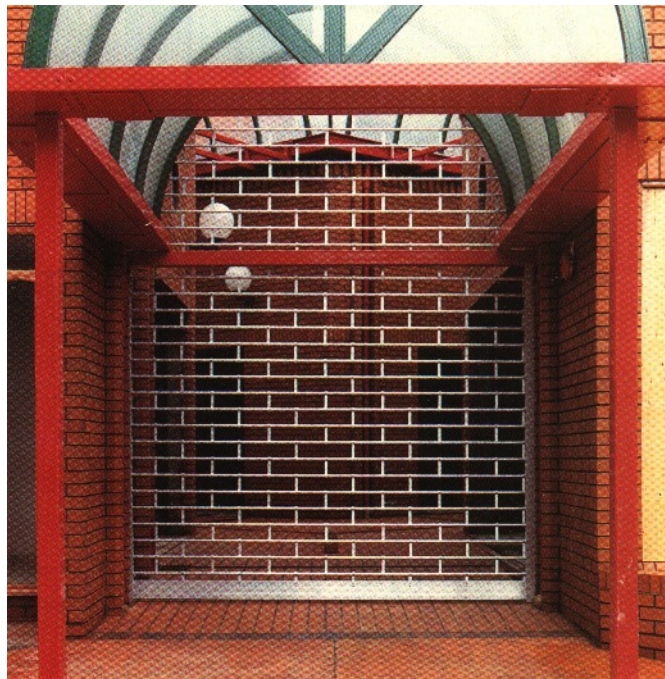
- Electrical operation.
- Hoods, fascias and soffits.

## OPERATION

**Push Pull A400P** For openings up to 3000 mm x 2500 mm. The most common and economical type of operation. Supplied with reach pole for taller height openings.

**Handchain A400C** Preferred for openings over 3000 mm x 2500 mm. Operation is by endless handchain through mild steel spur gears to give ease of operation together with rapid response from fully closed to fully open.

**Electric operation A400T** 240 volt single phase tubular motor with limit adjustment. Various types of operating switches available. Rapid conversion to emergency manual operation. **A400E** 440 volt 3 phase motor with limit switches, reversing contactor starter and provision for rapid conversion to emergency manual operation. May be specified as original equipment or as a conversion at a later stage.



Assessed to ISO 9001:2008  
Certificate number 355

Mercian Industrial Doors is a trading name of Mercian Shutters Limited  
Pearsall Drive Oldbury West Midlands B69 2RA Tel: 0121 544 6124  
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Mercian Industrial Doors has a policy of continuous product improvements and reserve the right to amend specifications and details without notice.

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**Note!** All Mercian Mastergrilles are carefully counterbalanced for ease of operation, but consideration should be given to frequency of use and size when deciding on the provision of electrical operation.

**SITWORK**

**Construction** Openings may be formed in masonry, steel or concrete. The building structure must be suitable to support the loading imposed by the door. Our technical staff will be happy to advise on specific requirements.

**SUPPLY**

**Delivery** The doors are delivered to site on Mercian transport. Delivery periods are flexible to meet the demands of our customers but usual delivery times are 3/4 working weeks from settlement of details.

**Technical** For further information or technical advices please contact our Sales department.

**INSTALLATION & MAINTENANCE**

The company has teams of specially trained installation engineers and offers a comprehensive programme of preventative maintenance, upgrade and emergency repair service to **ALL** types of industrial doors, Free survey and quotation service.

Unless otherwise stated all dimensions are expressed in mm. Tolerances as noted.

**NOTE!! BOXING IN OF THE COIL BY OTHERS**

**NOTE!! SOFFIT COVERING COIL & BARREL TO BE REMOVEABLE FOR MAINTENANCE.**

	A	B	C	D	E	F	G
Up to 2000mm	440mm	410mm	85mm	Up to 4000mm	150mm	170mm	
Up to 3000mm	450mm	470mm	95mm				
Up to 4000mm	500mm	530mm	105mm	Up to 7000mm	200mm	220mm	
Up to 5000mm	550mm	550mm	115mm				

Over 7000mm wide & 5000mm high to be considered on request

**TYPE A400**

**TITLE:**  
TECHNICAL DATA INFORMATION & TYPICAL DETAILS - MASTERGRILLES TO SUIT SHOP FRONTS AND MALLS.

**DRAWING No.:** RSDDETLS | **REV:** 0

**SCALE:** NTS | **PRODUCT:** A400

**FILE REF:** D:\CADFILES\CONTRACTS\STANDARDROLLER

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**MERCIAN INDUSTRIAL DOORS**

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1. THE CLIENT MUST ENSURE THAT THE STRUCTURE AROUND THE OPENING IS ADEQUATE TO TAKE:  
A) THE WEIGHT OF THE TYPE OF FIXINGS  
B) SUITABLE FOR THE TYPE OF FIXINGS  
STANDARD FIXINGS:  
M8/M10 BOLTS TO STEEL  
M10 RAWLBOLTS OR  
M8 COACHSCREWS WITH PLASTIC PLUGS TO BRICK OR BLOCKWORK

**FOR ELECTRIC MOTOR OPERATED DOORS:**

**ELECTRICAL SPECIFICATION:**  
CLIENT TO PROVIDE FUSED SPUR WITH 240 VOLT 15 AMP SINGLE PHASE SUPPLY FUSED SPUR RATED 15 AMPS. FUSED SPUR TO BE POSITIONED WITHIN 1 METRE OF THE OPENING ON THE MOTOR SIDE APPROX. 1.5 METRES ABOVE FFL.  
CLIENT TO PROVIDE ISOLATOR WITH 400V 15 VOLT 15 AMP 3 PHASE & NEUTRAL SUPPLY FUSED 10 AMPS. ISOLATOR TO BE POSITIONED WITHIN 1 METRE OF THE OPENING ON THE MOTOR SIDE APPROX. 1.5 METRES ABOVE FFL.  
MERCIAN: RESPONSIBLE FOR WIRING FROM FUSED SPUR/ISOLATOR TO MOTOR ONLY.

ALWAYS SWITCH OFF THE POWER AT THE FUSED SPUR ISOLATOR BEFORE FIXING OR TOUCHING ANY PART OF THE ELECTRICAL EQUIPMENT  
YOU SHOULD CONTACT MERCIAN TO CARRY OUT ANY NECESSARY ADJUSTMENT OR FAULT FINDING



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