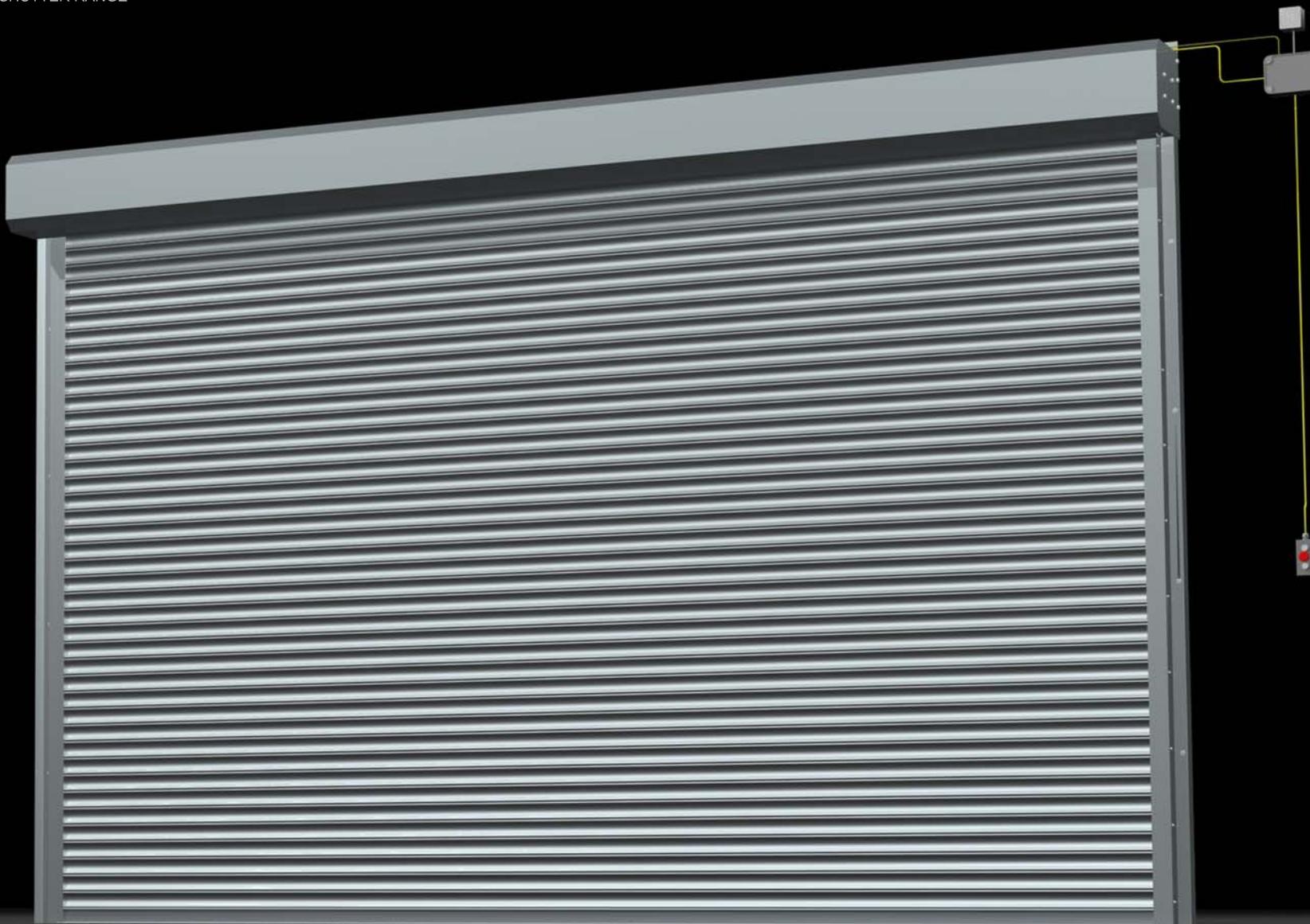


ECONOMY RANGE
INDUSTRIAL ROLLER SHUTTER RANGE



ECO-TM

MAX SIZE OF 4m x 4m

RANGE OF FITTING CONFIGURATIONS

SOLID STEEL CONSTRUCTION

COST EFFECTIVE

GUARDIANS ECO-TM - This range of roller shutter doors are purposely designed for industrial useage where insulation is not a requirement. They are constructed from galvanised steel with a minimum of 22 gauge. They can be manually operated up to a size of 4m x 4m or electrically operated via single or 3 phase motors dependant on application

IMAGE INFORMATION - SHOWN HERE IS THE ECO-TM MODEL ROLLER SHUTTER. NUMBERED ITMES 1 PUSH BUTTON CONTROL. 2 LOW VOLTAGE CONTROL UNIT. 3 13AMP FUSED SPUR. 4 EMERGENCY MANUAL OVERRIDE POINT (OPTIONAL) 5 COIL CASING (OPTIONAL)

ECO-TM SPECIFICATION

SHUTTER CURTAIN

Constructed from interlocking curved 75mm galvanised steel laths, gauge depending on the opening size. Alternate laths are fitted with nylon end locks to hold the curtain within the guide channels.

BOTTOM RAIL

Formed from cold rolled steel T - section to give rigidity and strength. As an extra rubber buffers can be added to provide a water tight barrier when the door is closed.

ROLLER BARREL ASSEMBLY

Constructed from steel tube, of sufficient diameter to resist deflection.

ELECTRIC MOTOR

Internal tubular motor with auto cut out limit switches.

ROLLER HEAD BRACKETS

Are fabricated from mild steel plate with fixing angles to support the shutter from the structure

COIL CASING

Constructed from steel sheet thickness dependant on shutter width (Optional Upgrade)

GUIDE ASSEMBLY

Guide assembly is of sufficient depth to withstand normal wind loadings. The exact size varies depending on the size of the opening. Guides are formed from cold rolled channel sections secured to the opening by continuous steel angles, or from specially designed pressed steel section to give additional protection from high winds.

LOCKING

Via the geared electric motor – additional locking systems available, Ground locks, Side locks, (with electric interlocks)

FINISH

All parts not galvanised are painted with one coat primer

CURTAIN - Constructed from a 50mm flat / 75mm curved steel scroll laths interlocked with steel end locks and galvanised double formed bottom rail.

OPTIONAL EXTRAS

Powder coated finish to any BS or RAL number

Battery Backup

Tube and link grille section

Eurolook Glazed Section

Ground locking units and interlock

Burglar alarm connection

Timer activation

Remote operation

Sentinal security gate



GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

TEL : 0800 7836602

GUARDIANDOORS.COM



GUARDIANDOORS.COM

0800 783 6602

ROLLER SHUTTERS - SECTIONAL OVERHEAD DOORS - INSULATED DOORS - FOLDING DOORS
 STEEL DOORS - FIRE RATED DOORS - SECURITY DOORS - SLIDING GATES - HIGH SPEED DOORS

Construction Products Regulation

Declaration of conformity and performance

1. Identification code – ECO-TM
2. Serial Number - _____
3. Year of manufacture _____
4. Intended use - Internal or external access door.
5. Manufacturer - Guardian Industrial Doors LTD - 45 Progress rd, Leigh – On – Sea, Essex, SS9 5PR
6. Authorised representative : N/A
7. Relevant harmonised standards: BS EN 13241-1:2003+A1:2011, PDQ labs Warrington APT 1104 performed initial type tests under EN13241-1 2003, EN12424:2000, EN12444:2001, EN12604:2000, and issued test reports, 158735/1, 158735/2, 158735/3 157386
8. European Technical assessment: Not applicable.
9. Declared performance

	Guardian Industrial Doors LTD 45 Progress Road Leigh –On –Sea Essex SS9 5PR	
Characteristic	Declared Performance	Harmonised Standard
Resistance to wind load	Class 3	BSEN 13241-1:2003 + A1 :2011 (In accordance with the machinery directive MD/98/37/EC.)
Dangerous substances	None	
Safe opening	Pass	
Mechanical resistance and stability	Pass	
Operating forces	Pass	
Thermal resistance	NPD	
Air Permeability	NPD	
Durability of Water tightness, Air permeability and thermal resistance against degradation.	NPD	

Specific technical documentation: Operation and maintenance manual.

10. The performance of the product in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is the sole responsibility of the manufacturer identified in point 5.

Signed on behalf of the manufacturer by:

R. Everitt.

General Manager



Guardian Industrial Doors Ltd
 Managing Director: RW Everitt Company Secretary: E Everitt
 Registered Office: 45 Progress Road, Leigh on Sea, Essex SS9 5PR
 Fax No 01702 260117
 Registered in England No 1447746

L20 DOORS / SHUTTERS / HATCHES

610 ROLLER SHUTTER

Product reference: ECO TM

Performance: Not applicable

Arrangement: Vertical roller shutter

A multipurpose steel vertically operated roller shutter available with either solid punched or perforated curtain. See our PDF Curtain modifications, or ask for cosmetic options.

Dimensions:

Opening height up to 4000mm, opening width up to 4000mm.

Shutter weight: 35 kg/m² of door opening.

Curtain

Constructed from 75mm galvanized cold rolled scroll sections of suitable gauge, each alternate lath is fitted with a steel or nylon end lock to prevent lateral movement and wind anchor locks on larger doors.

Bottom Rail

The base of the curtain is fitted with a steel angle reinforcing rail of adequate size forming an inverted 'T'.

Side Guides

Formed from cold rolled mild steel channel guide.

Roller Assembly

Constructed from mild steel tube of sufficient gauge to prevent deflection, mounted on bright steel shafts running in ball races, drive to suit the size of the opening.

Endplates

The roller assembly is supported by mild steel endplates with mounting angles for fixing to the support structure.

Roller Enclosure (optional extra)

Formed from galvanised pressed sheet metal to enclose the rear of the shutter barrel and curtain assembly.

Operation

1-PH Tube Motor

Finish

Curtain from standard color range. All other elements powder coated to any standard BS or RAL number

Consult with Guardian Industrial Doors Ltd technical literature for details. Guardian Doors can also provide a design and specification advisory service and it is recommended that they are consulted early in the design process.

Manufacturer: GUARDIAN INDUSTRIAL DOORS 45 Progress Road Leigh On Sea Essex, SS9 5PR Tel: 01702 512424. Fax: 01702 510015. Email: mail@guardiandoors.com Web: www.guardiandoors.com

OPTIONS

Controls and operation

Key switch control unit – flush mounted

Key switch control unit – surface mounted

External weatherproof push button

Key lockable push button control

Group control unit for up to 6 shutters simultaneously (**will require additional safety pressure edge.**)

Radio controlled (**will require additional safety pressure edge.**)

Safety Systems

Safety bottom edge wireless

Safety bottom edge wireless

Safety photo cell beam

Security

Ground locks and interlock facility

Bullet lock interlock box

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

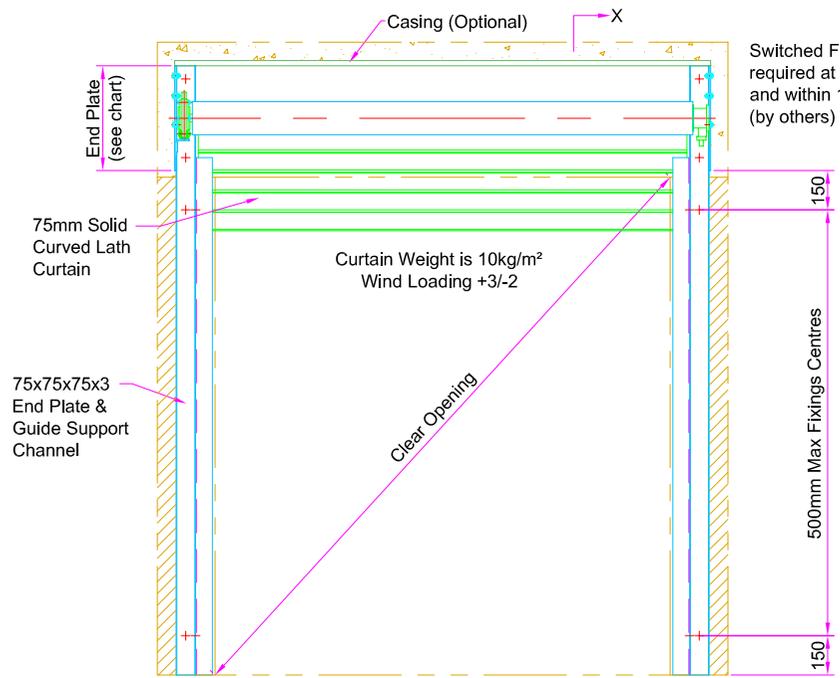
B

C

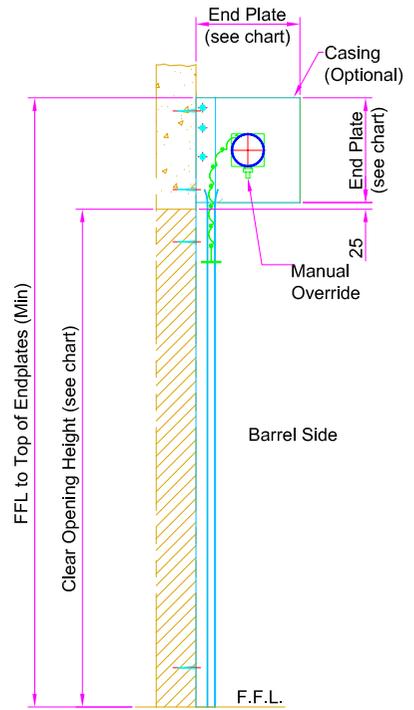
D

E

F



Elevation from Barrel Side

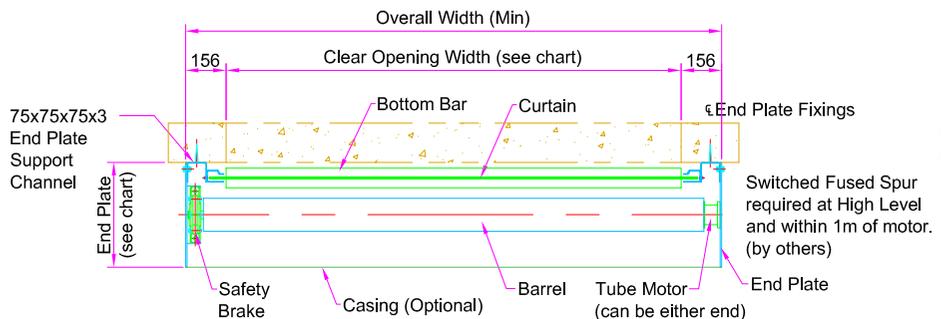


Section on 'X-X'

This drawing is supplied as a General Layout showing relative positions of main components and Guardian Industrial Doors Ltd accepts no responsibility for accuracy until a Site Survey has been undertaken.
If the End Plates and Barrel are within a False Ceiling or Soffit a Full Width Access Panel Is required. (by others)

Fixing To:-	
Steel	M8/M10 Set Screws
Brick	M8/M10 Rawbolts/Sleeve Anchors
Blockwork	M8/M10 Rawbolts/Sleeve Anchors
Timber	M8/M10 Coach Screws
Concrete	M8/M10 Rawbolts

The Client is responsible for making sure that the structure is capable of withstanding the weight of the shutter and suitable fixing points are available for the End Plate and Guide support channel.
Shutter Weight is approx 25kg/m²



Plan at Barrel Level



Plan at Guide Level

GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 Progress Rd,
Leigh on Sea, SS9 5PR
Tel: +44(0)1702 512424
Fax: +44(0)1702 260117
www.guardiandoors.net

UNLESS OTHERWISE INDICATED
ALL DIMENSIONS IN MILLIMETERS
AND ALL TOLERANCES ±1.0

DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No: ECO TM-6-GENERIC	ISSUE	DATE	APP'D
MB				NTS	Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing			
TITLE								
ECO TUBE MOTOR FACE FIX SHUTTER. INSTALLATION REQUIREMENTS								
						1	04/07	PN

1 2 3 4 5 6 7 8

ECO FACE FIXED SHUTTERS CLEAR OPENING SIZES

CLEAR OPENING WIDTH

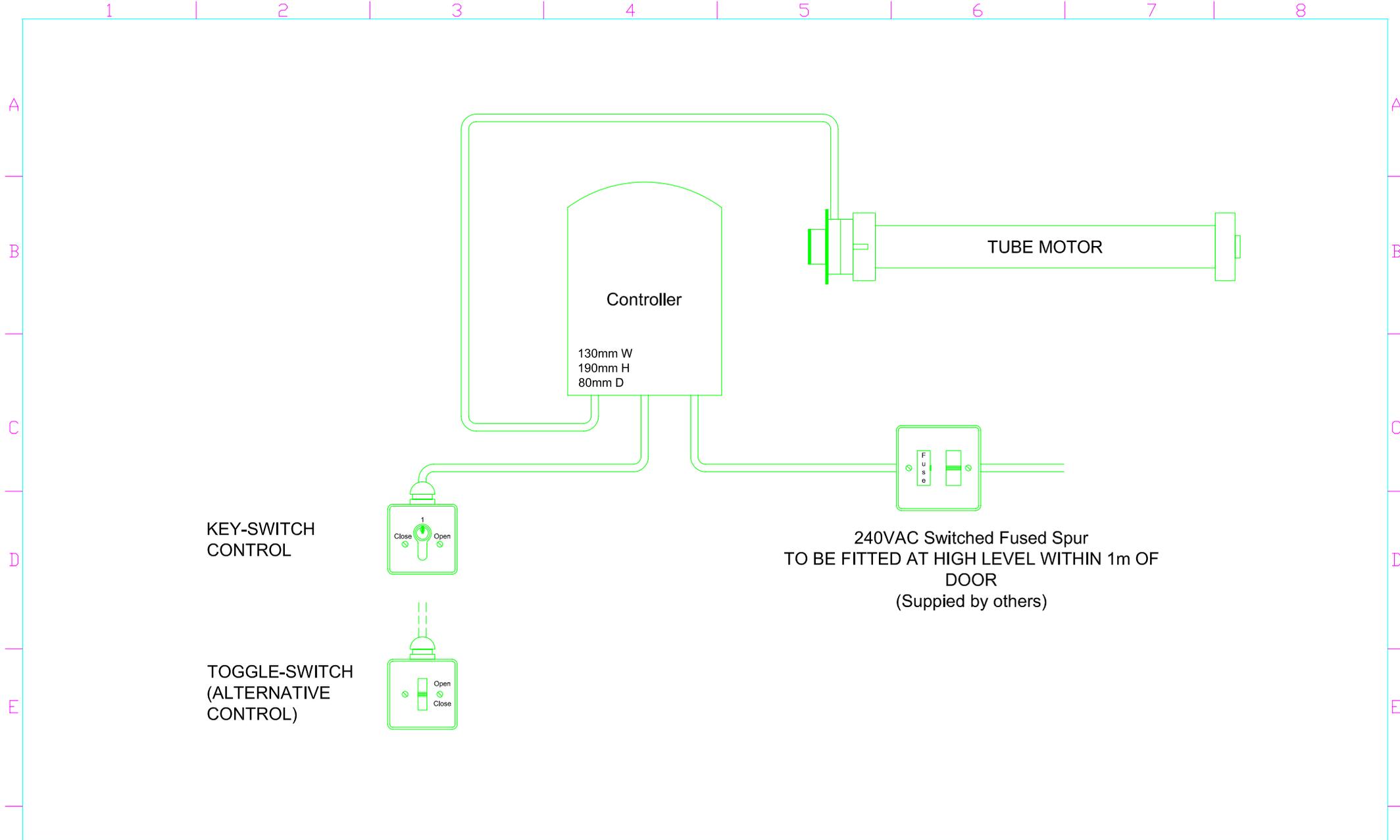
CLEAR OPENING HEIGHT		MM	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	
		300 sq End Plate	1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1750	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2750	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3750	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4500	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4750	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 Progress Rd.
Leigh on Sea, SS9 5PR
Tel: +44(0)1702 512424
Fax: +44(0)1702 260117
www.guardiandoors.net

UNLESS OTHERWISE INDICATED ALL DIMENSIONS IN MILLIMETERS AND ALL TOLERANCES ±1.0

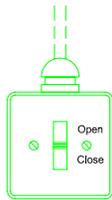
DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No: ECO TM-6-Chart	ISSUE	DATE	APP'D
MB					Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing			
TITLE	ECO TUBE MOTOR FACE FIX SHUTTER CLEAR OPENING & END PLATE SIZES							
FINISH								



KEY-SWITCH CONTROL



TOGGLE-SWITCH (ALTERNATIVE CONTROL)



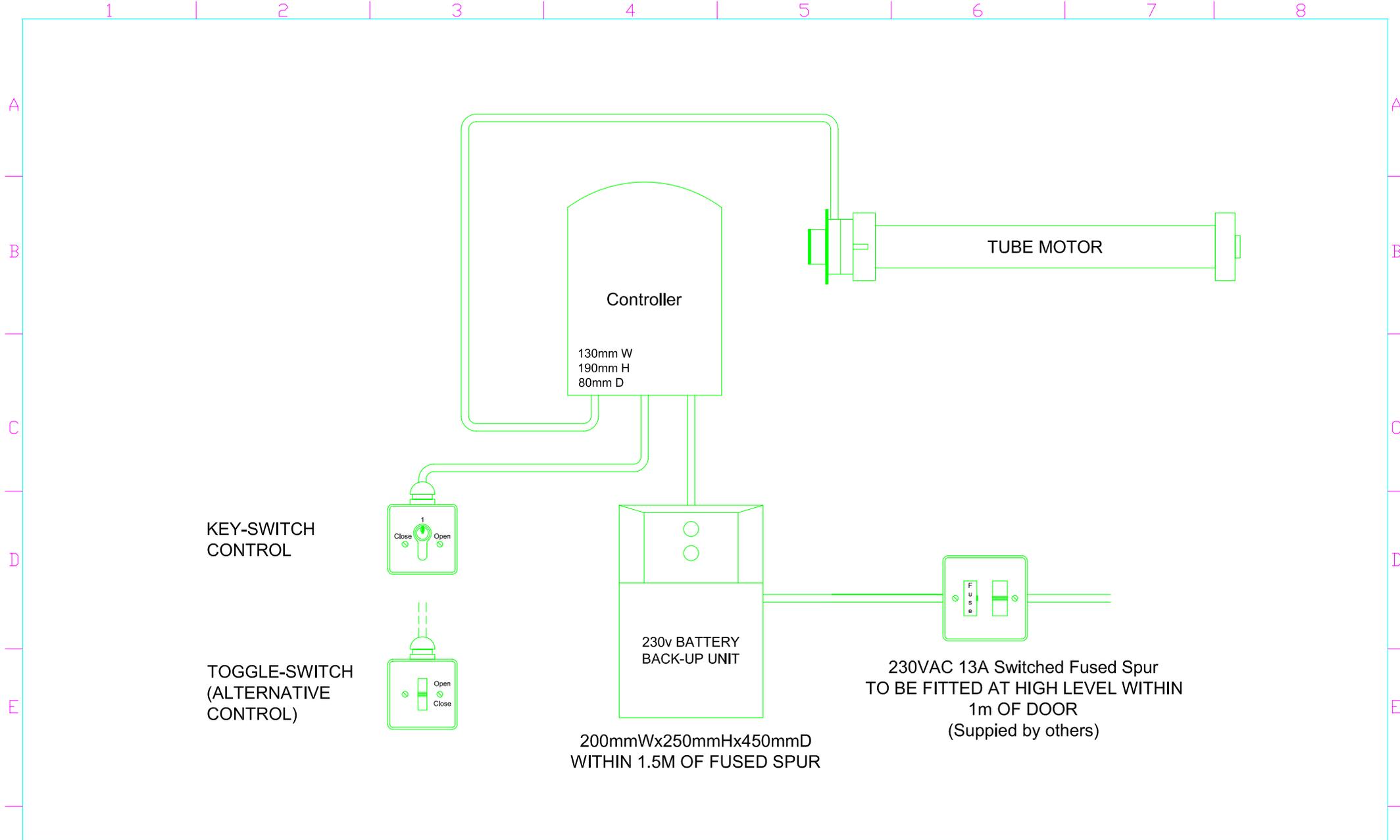
240VAC Switched Fused Spur
TO BE FITTED AT HIGH LEVEL WITHIN 1m OF DOOR
(Supplied by others)

GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 Progress Rd.
Leigh on Sea, SS9 5PR
Tel: +44(0)1702 512424
Fax: +44(0)1702 260117
www.guardiandoors.net

UNLESS OTHERWISE INDICATED ALL DIMENSIONS IN MILLIMETERS AND ALL TOLERANCES ±1.0

DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No: ES-TM	ISSUE	DATE	APP'D
MB				NTS	Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing			
TITLE								
FINISH								
ELECTRICAL SYSTEM FOR TUBE MOTOR SHUTTER						1	01/06	RWE



GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 Progress Rd.
Leigh on Sea, SS9 5PR
Tel: +44(0)1702 512424
Fax: +44(0)1702 260117
www.guardiandoors.net

UNLESS OTHERWISE INDICATED ALL
DIMENSIONS IN MILLIMETERS AND ALL
TOLERANCES ± 1.0

DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No: ES-TM-FM-BB	ISSUE	DATE	APP'D
MB				NTS	Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing			
TITLE		ELECTRICAL SYSTEM FOR TUBE MOTOR SHUTTER WITH BATTERY BACK-UP						
FINISH						1	01/06	RWE

AESTHETIC UPGRADES

GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

Various aesthetic upgrades are available for this model. This photograph shows a combination roller curtain. Due to its modular design different cutains can be mixed together.

TEL : 0800 7836602
GUARDIANDOORS.COM

Shown in the main photograph is a combination of our 75mm perforated steel and tube and link grille in a brick bond pattern (inline also available)



Perforations

Perforations
2 mm punched holes. Used in retail situations to create translucent shutters at night Also used in carpark situations where airflow is needed through the shutter



Punchings

Punched slots
Various sizes available, dependant on shutter width.

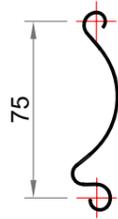


Polycarbonate glazing

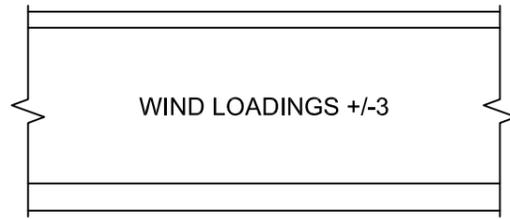
Polycarbonate glazing
Solid translucent glazing which is UV resistant and impact resistant. Offered in various shades.

Tube and link grille
As shown in the main photograph, various sizes of tube and link available.

CURTAIN WEIGHTS
 75mm x 20g = 10kg/M²
 75mm x 22g = 12kg/M²
 75mm x 18g = 16.50kg/M²

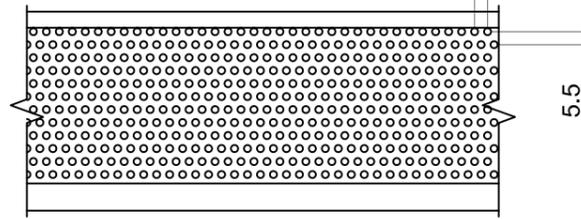


75mm SOLID STEEL CURVED LATH



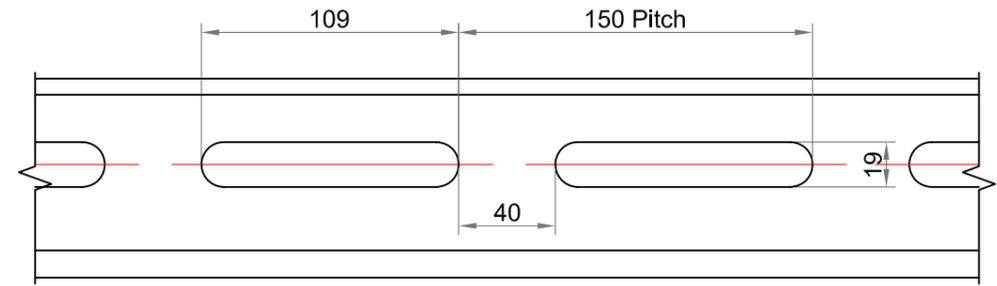
Air Flow 0%

75mm PERFORATED STEEL CURVED LATH Ø3mm Holes



Air Flow 14.6%

75mm PUNCHED STEEL CURVED LATH 109 lg Slots

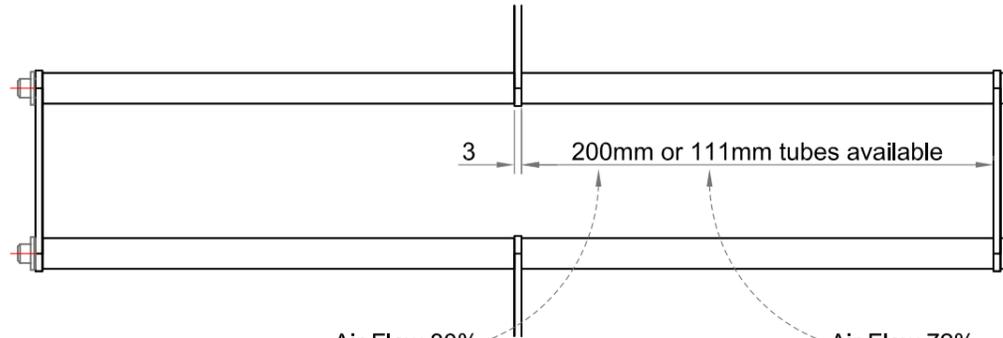


Air Flow 18.15%

CURTAIN WEIGHTS
 Tube & Link = 13kg/M²



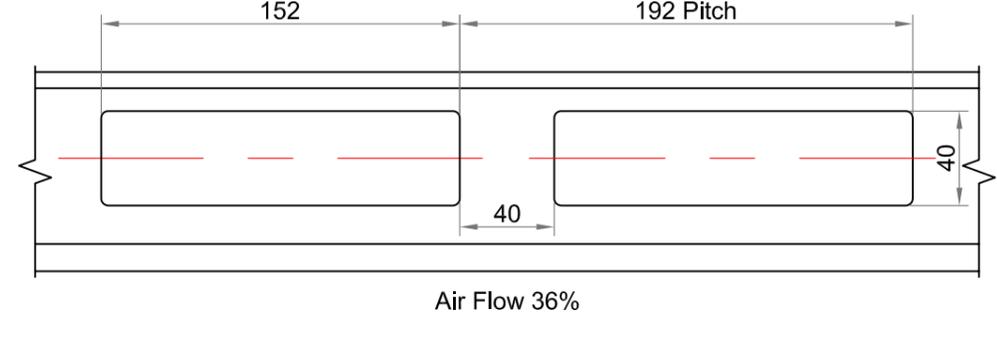
TUBE & LINK GRILLE
 (available in Brick Bond or Inline Pattern)



Air Flow 80%

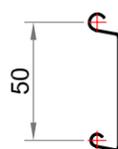
Air Flow 72%

75mm PUNCHED STEEL CURVED LATH 152 lg Slots

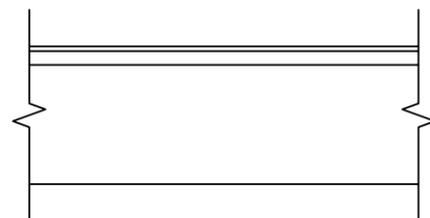


Air Flow 36%

CURTAIN WEIGHTS
 50mm x 22g = 8kg/M²

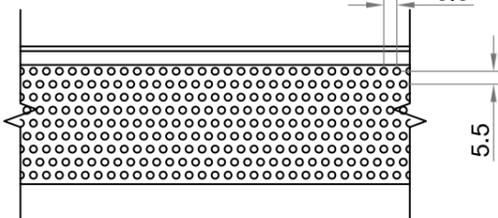


50mm STEEL FLAT LATH Ø3mm Holes



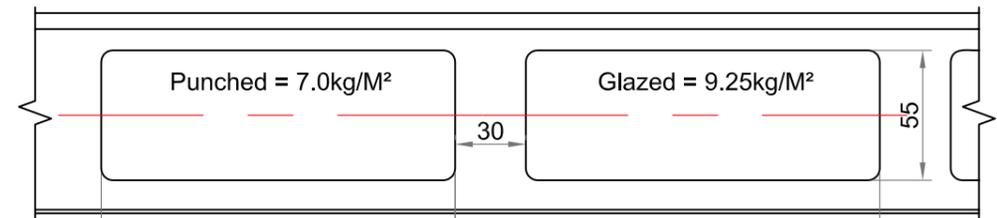
Air Flow 0%

50mm PERFORATED STEEL FLAT LATH Ø3mm Holes



Air Flow 14.6%

77mm EXTRUDED AND PUNCHED ALUMINIUM LATH (also available as a Solid Lath)



Punched = 7.0kg/M²

Glazed = 9.25kg/M²

(available Punched or Glazed)

Air Flow 75%

NOTE:- 50mm Flat Laths are only available on 3m² Max openings

GUARDIAN
 DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 Progress Rd.
 Leigh on Sea, SS9 5PR
 Tel: +44(0)1702 512424
 Fax: +44(0)1702 260117
 www.guardiandoors.com

UNLESS OTHERWISE INDICATED
 ALL DIMENSIONS IN MILLIMETERS
 AND ALL TOLERANCES ±1.0

DRAWN

CHK'D

APP'D

DATE

SCALE

Drwg No: Curtain Options 01

ISSUE

DATE

APP'D

CH

TITLE

CURTAIN OPTIONS

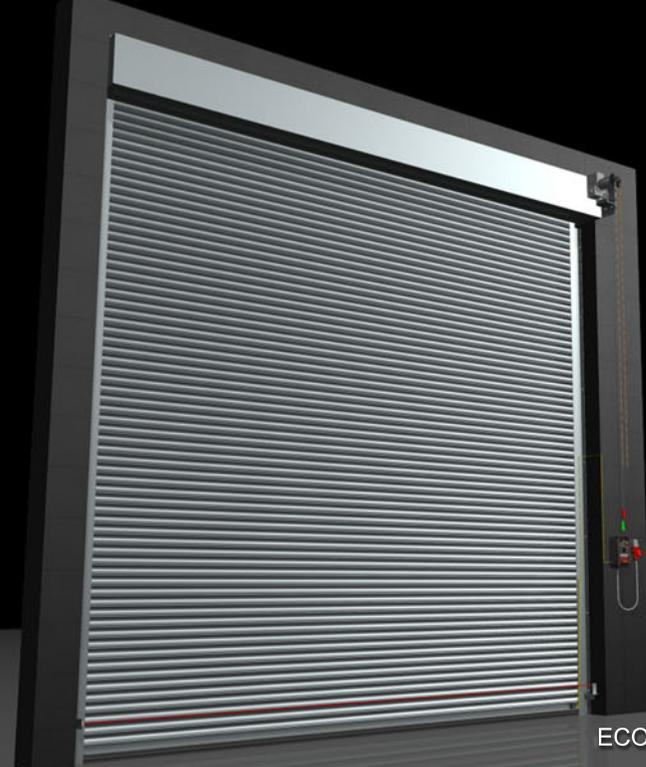
Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing

GUARDIAN

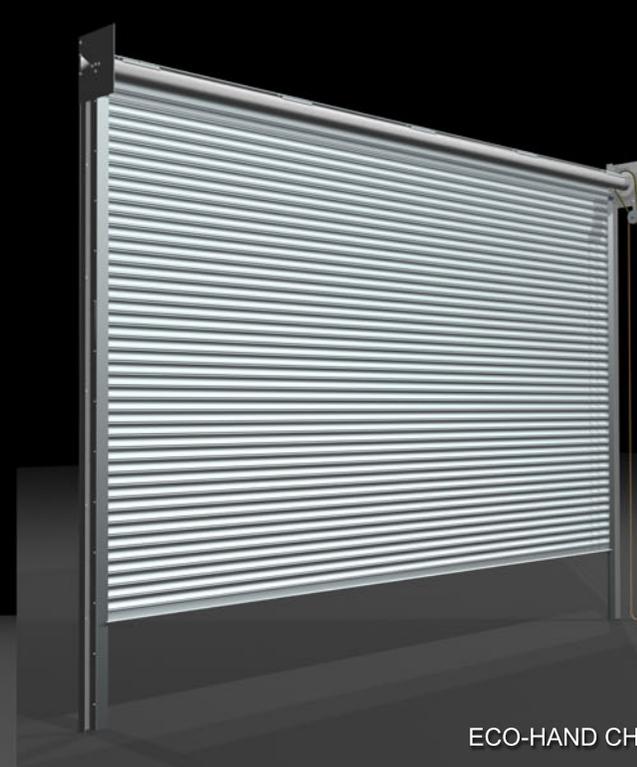
ECONOMY RANGE

OVERVIEW

- MAX SIZE OF 12m x 12m
- RANGE OF ACTIVATION OPTIONS
- RANGE OF FITTING CONFIGURATIONS
- 3 OR SINGLE PHASE OPERATION
- SOLID STEEL CONSTRUCTION
- COST EFFECTIVE



ECO ELECTRIC INDUSTRIAL



ECO-HAND CHAIN



ECO-ELECTRIC COMMERCIAL



ECO-MANUAL



GUARDIAN
DOOR SOLUTIONS FOR ALL REQUIREMENTS

45 PROGRESS ROAD
LEIGH - ON-SEA
ESSEX
SS9 5PR

TEL : 0800 7836602
GUARDIANDOORS.COM

GUARDIANS ECO RANGE - This range of roller shutter doors are purposely designed for industrial useage where insulation is not a requirement. They are constructed from galvanised steel with a minimum of 22 gauge. They can be manually operated up to a size of 4m x 4m or electrically operated via single or 3 phase motors dependant on application

© GUARDIAN INDUSTRIAL DOORS 2007 - ALL RIGHTS RESERVED

