

ECONOMY RANGE

GENERAL PURPOSE ROLLER SHUTTER MODEL



ECO-DD Face fixed model



ECO-FM Reveal fixed model

ECO-ELECTRIC INDUSTRIAL

MAX SIZE OF APPROX 90m²

GALVANISED STEEL CONSTRUCTION

RANGE OF CONTROL OPTIONS

EASE OF REPAIR

RANGE OF OPTIONAL EXTRAS

The Economy range is the entry level general purpose roller shutter door designed for multiple environments, where insulation is not a requirement. The ECO-DD is electrically driven via a shaft mounted direct drive motor (3 Phase power as standard) and is configured for a face fix installation, (for reveal fix see the ECO-FM) complete with a manual emergency hand chain. The shutter is controlled as standard with our level one controls which includes the following features. One touch impulse opening, load monitoring in the open direction, digital display of door status and/or fault diagnostic. a programmable maintenance indicator to inform the user when the door requires servicing and plug in operation. Fully automatic operation is available with additional safety features as shown in the image above, Other options include airlock systems, radar detectors, digital keypads, personnel doors. See our website for more details

IMAGE INFORMATION - SHOWN HERE IS THE ECO-FM AND TJE ECO-DD MODEL ROLLER SHUTTERS, COMPLETE WITH OPTO SADETY EDGE AND REFLECTIVE SAFETY CELLS THE ECO-DD IS SHOWN WITH A FULL COIL CASING

ECO-DD 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. Additional steel windlocks are installed as standard to large shutters.

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

Shaft mounted Guthrie Douglas Safedrive motors as standard, Complete with integral safety break and manual hand chain for emergency operation.

ROLLER HEAD BRACKETS

Fabricated from steel plate 406 mm laser cut plate as standard, bespoke designs for larger shutters

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

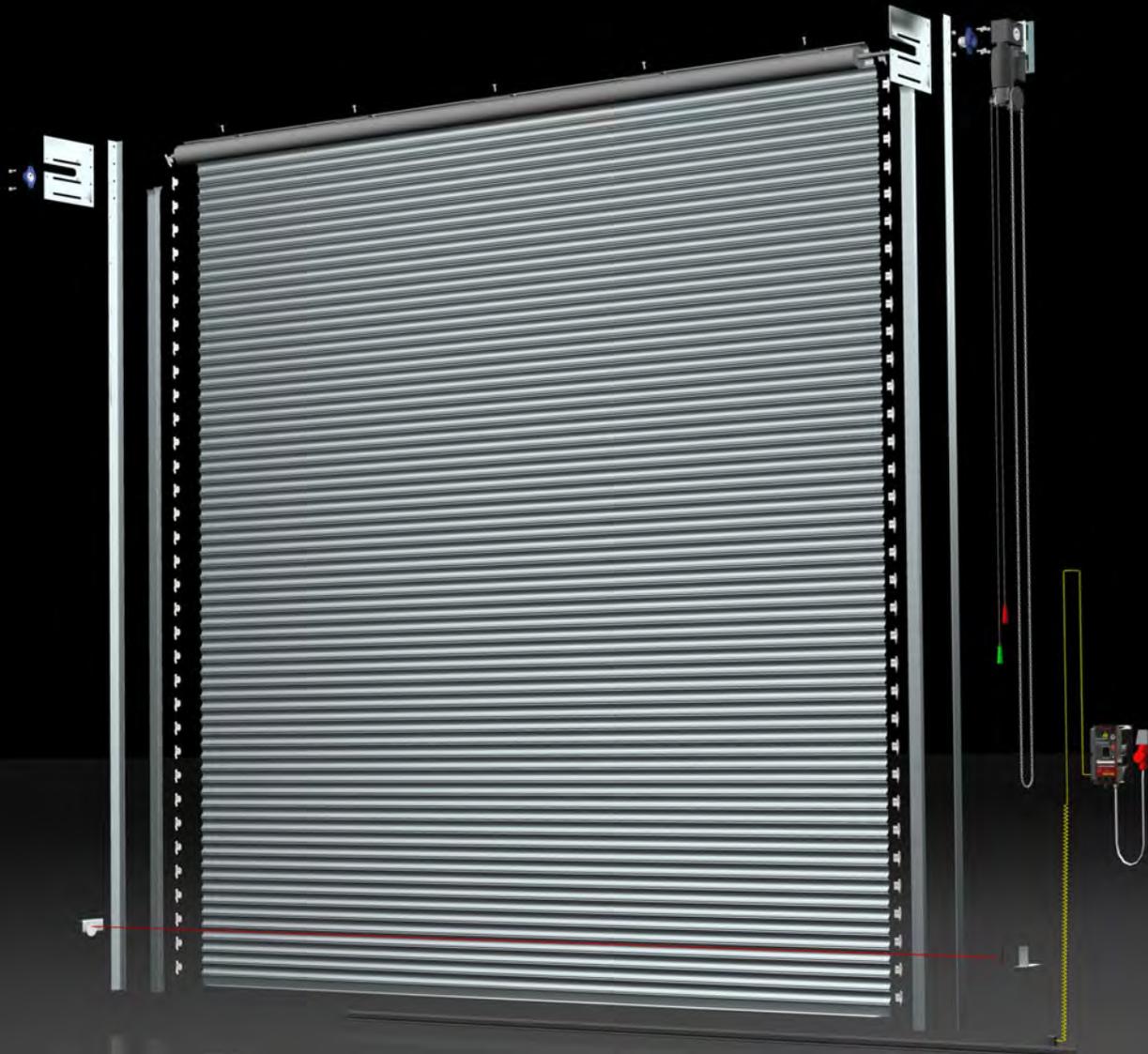
All parts not galvanised are painted with one coat primer
CURTAIN - Constructed from a 50mm flat / 75mm curved steel scroll laths interlocked with steel end locks and galvanised double formed bottom rail.

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

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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 performance**

ECO DD test overview

1. Identification code - ECO-DD
2. Serial Number – Unique Ref
3. Intended use - Internal or external access door.
4. Manufacturer - Guardian Industrial Doors LTD 45 Progress rd, Leigh – On – Sea, Essex, SS9 5PR
5. Authorised representative : N/A
6. Relevant harmonised standards: BS EN 13241-1:2003+A1:2011 PDQ labs 11040 0621 performed initial type tests under EN13241-1 2003, EN12424:2000, EN12444:2001, EN12604:2000, and issued test report no's 158735, 157386
7. European Technical assessment: Not applicable.
8. 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
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: Not applicable.

9. 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 4.



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: GUARDIAN ECO RANGE – ECO-DD MODEL

Performance: Not applicable

Arrangement: Vertical roller shutter

Accreditation: BS EN 1324A multipurpose steel vertically operated roller shutter available with either solid punched or perforated curtain.

Dimensions:

Opening height up to 8000mm, opening width up to 8000mm.

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.

Curtain Modification

Perforations 2 mm O/D

Punchings 119mm w x 19 mm h Brick bond - Inline

Punchings 152mm w x 25 mm h Brick bond - Inline

Punchings 150mm w x 38 mm h Brick bond – Inline

Tube and link grille A

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 sections secured to the opening structure by full height mild steel fixing angles.

Roller Assembly

Constructed from mild steel tube of sufficient gauge to prevent deflection, mounted on bright steel shafts running in ball races, reduction drive gearing where applicable is by machine cut steel gears or chain 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

415v 50Hz 3 phase SafeDrive - motor with emergency hand chain override.

240v 50Hz 1 phase SafeDrive motor with emergency hand chain override (only used when necessary due to site power restrictions, the duty cycle of is reduced by 40%)

Control panel – With lcd status display, one touch impulse opening, hold to close. Also features maintenance alert system, fault recording, operation counter,

Finish

Galvanised and primed ready to paint, Or 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.)

Induction loop control

Radar detectors

Radio controlled (**will require additional safety pressure edge.**)
Mobile phone operation module

Safety Systems

Safety bottom edge if safety bottom edge strikes an object the shutter stops and returns to the open position
Safety photo cell beam if safety beam is broken the shutter stops and returns to the open position

Seals

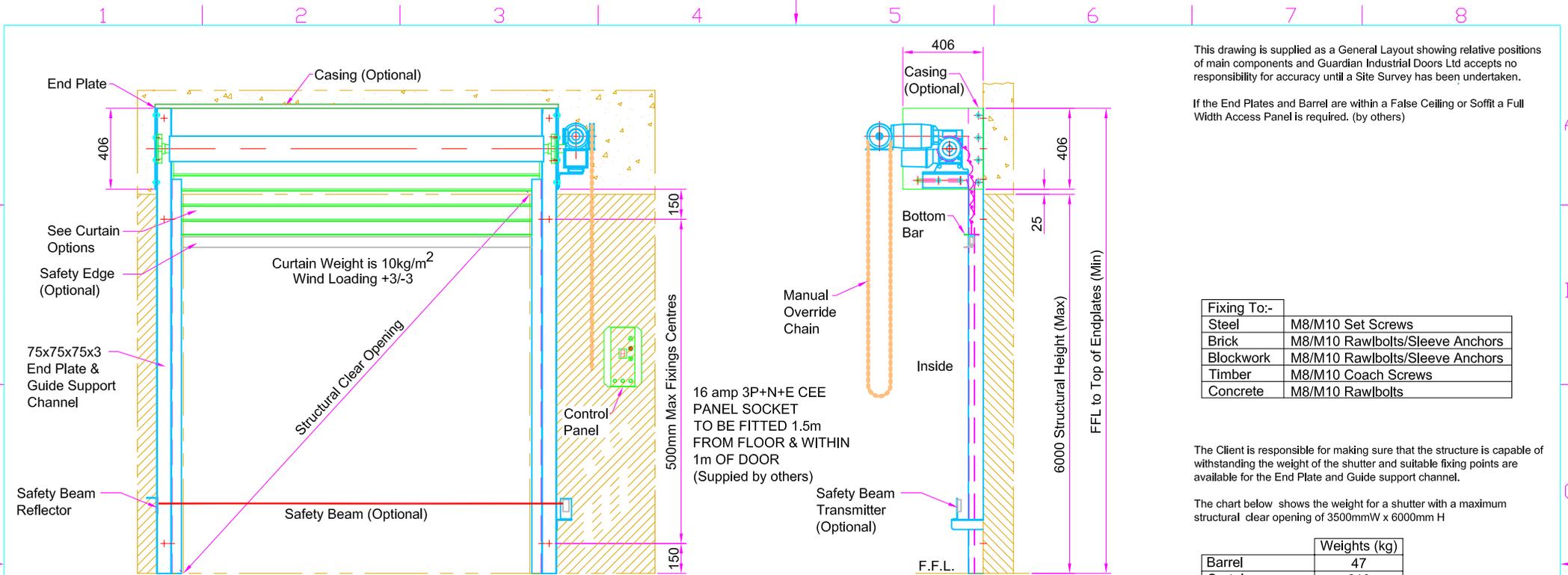
Guide rail brush strip
Rubber bottom seal
Soffit brush strip

Security

Ground locks and interlock facility
Bullet lock interlock box

Finish

Powder coated to any standard BS or RAL number



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.

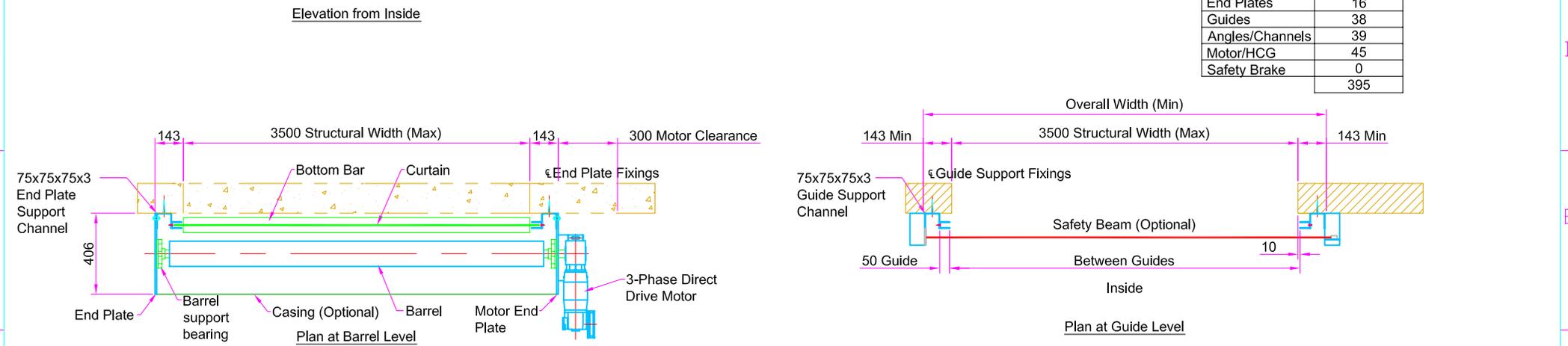
If the End Plates and Barrel are within a False Ceiling or Soffit a Full Width Access Panel is required. (by others)

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.

The chart below shows the weight for a shutter with a maximum structural clear opening of 3500mmW x 6000mm H

	Weights (kg)
Barrel	47
Curtain	210
End Plates	16
Guides	38
Angles/Channels	39
Motor/HCG	45
Safety Brake	0
	395



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DRAWN

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SCALE

Drwg No: ECO DD-1

ISSUE

DATE

APP'D

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TITLE

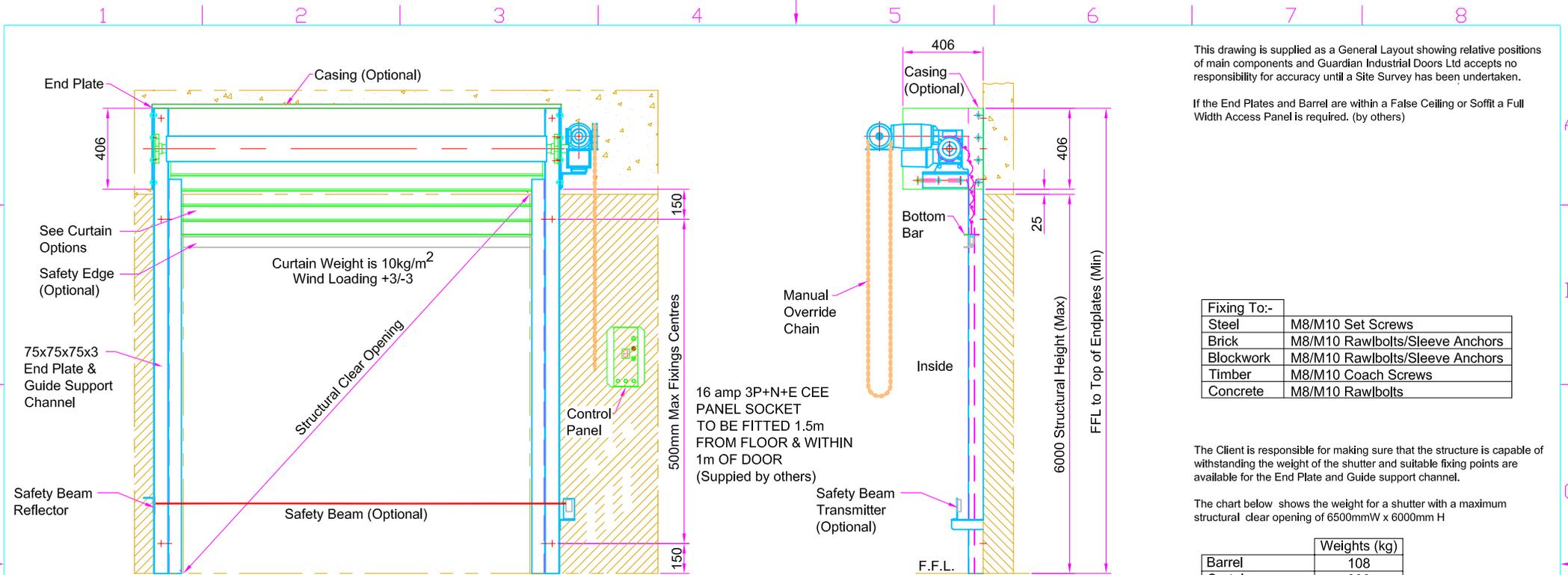
ECO 3-ph DIRECT DRIVE FACE FIX.
3500mm W x 6000mm H Max.

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

1

04/07

PN



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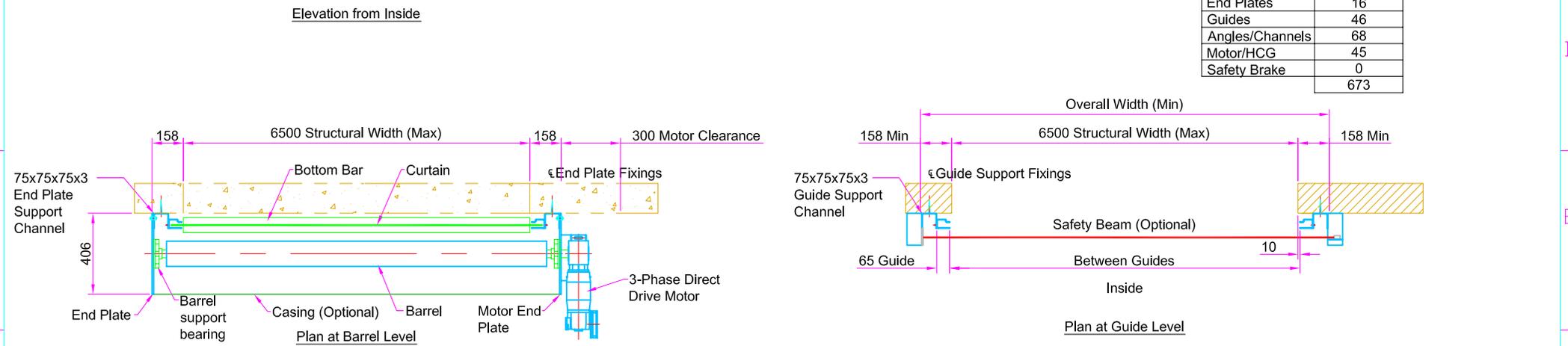
If the End Plates and Barrel are within a False Ceiling or Soffit a Full Width Access Panel is required. (by others)

Fixing To:-	
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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.

The chart below shows the weight for a shutter with a maximum structural clear opening of 6500mmW x 6000mm H

	Weights (kg)
Barrel	108
Curtain	390
End Plates	16
Guides	46
Angles/Channels	68
Motor/HCG	45
Safety Brake	0
	673

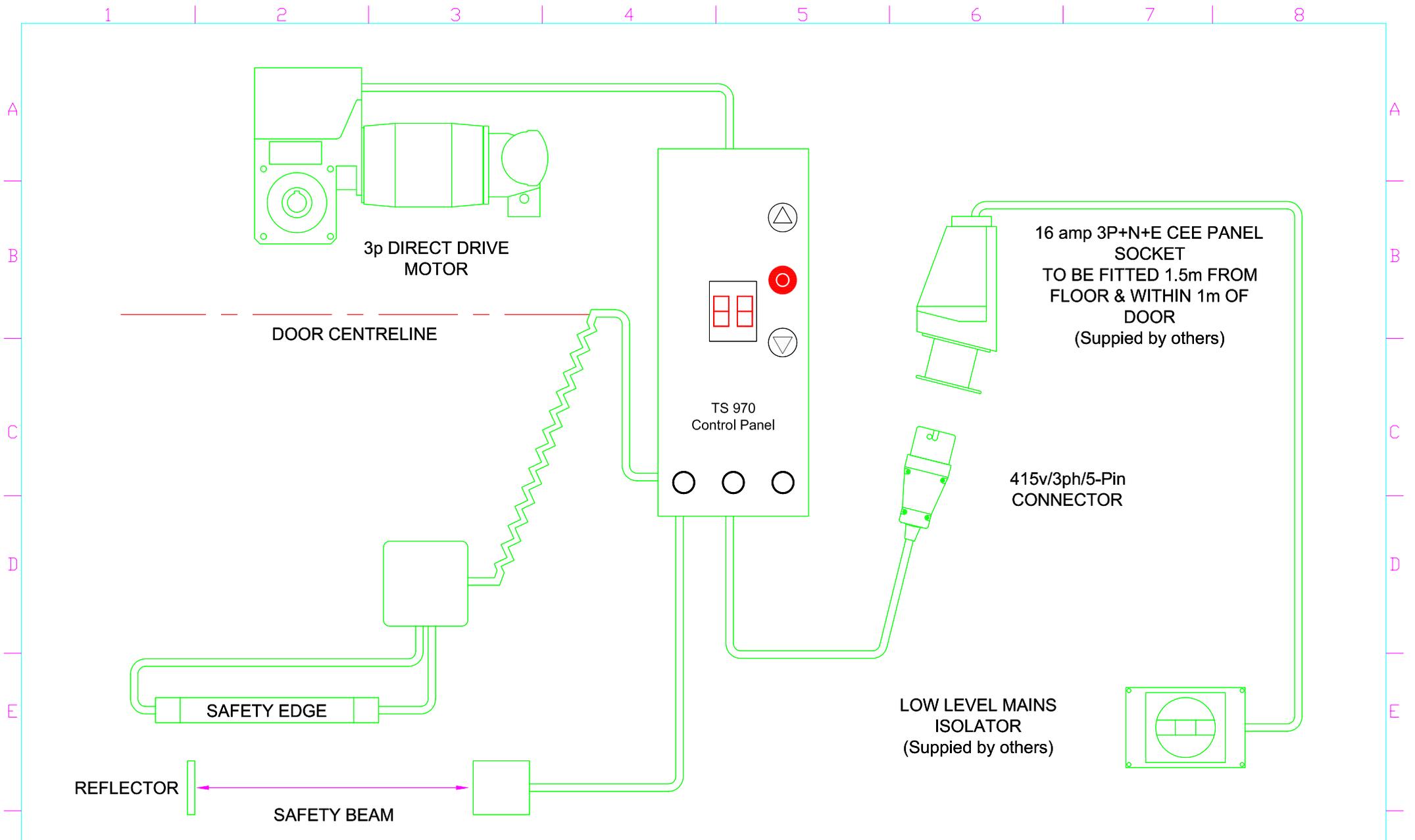


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DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No:	ECO DD-2	ISSUE	DATE	APP'D
MB				NTS	Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing				
TITLE					ECO 3-ph DIRECT DRIVE FACE FIX. 6500mm W x 6000mm H Max.		1	04/07	PN



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DRAWN	CHK'D	APP'D	DATE	SCALE
MB			06/06/06	NTS
TITLE ELECTRIC SYSTEM FOR DIRECT DRIVE MOTOR WITH TS 970 CONTROLLER				
FINISH				

Drwg No: Zeus-ES-DD-TS970
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ISSUE	DATE	APP'D
1	06/06	RWE

AESTHETIC UPGRADES

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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.

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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

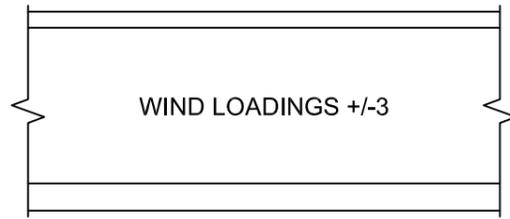
Polycarbonate glazing
Solid translucent glazing which is UV resistant and impact resistant. Offered in various shades.

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

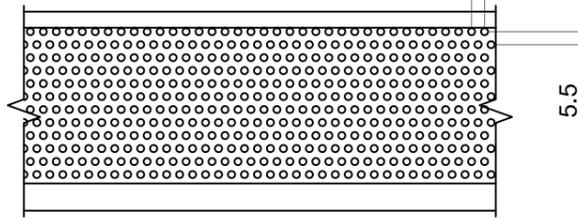


75mm SOLID STEEL CURVED LATH



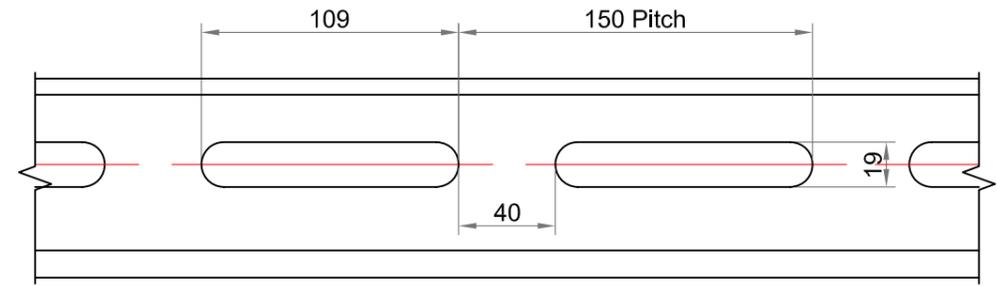
Air Flow 0%

75mm PERFORATED STEEL CURVED LATH Ø3mm Holes



Air Flow 14.6%

75mm PUNCHED STEEL CURVED LATH 109 lg Slots

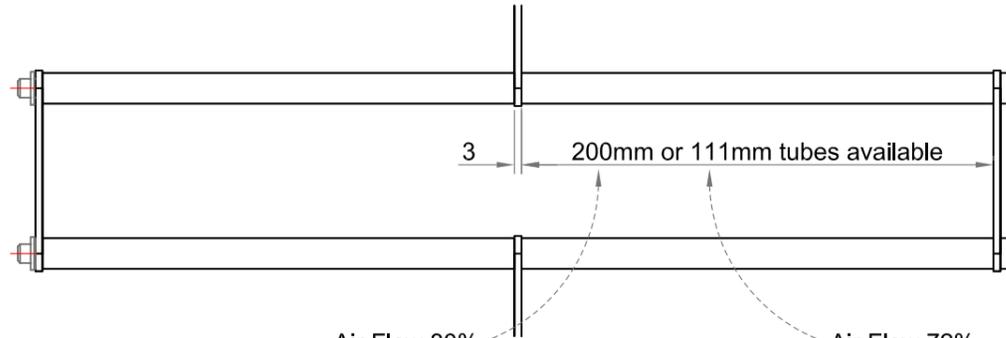


Air Flow 18.15%

CURTAIN WEIGHTS
 Tube & Link = 13kg/M²



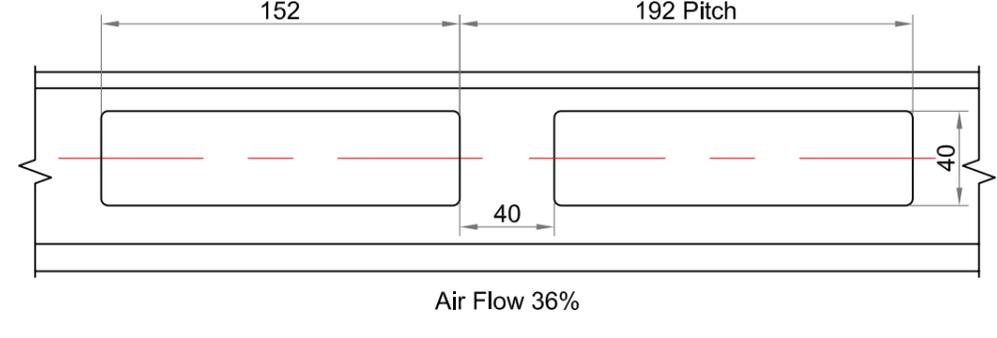
TUBE & LINK GRILLE
 (available in Brick Bond or Inline Pattern)



Air Flow 80%

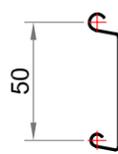
Air Flow 72%

75mm PUNCHED STEEL CURVED LATH 152 lg Slots

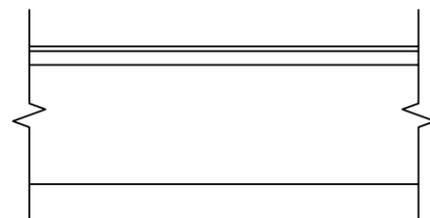


Air Flow 36%

CURTAIN WEIGHTS
 50mm x 22g = 8kg/M²

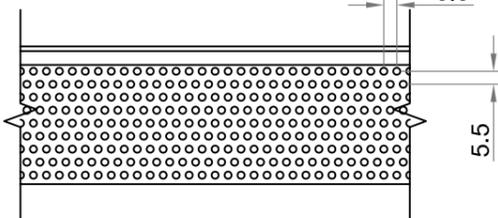


50mm STEEL FLAT LATH Ø3mm Holes



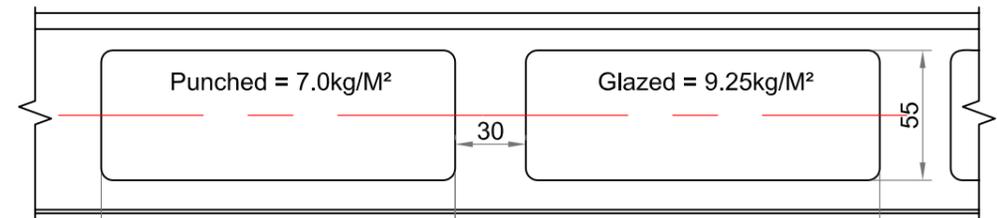
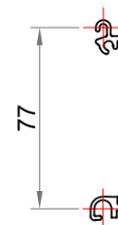
Air Flow 0%

50mm PERFORATED STEEL FLAT LATH Ø3mm Holes



Air Flow 14.6%

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



(available Punched or Glazed)

Air Flow 75%

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

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Drwg No: Curtain Options 01

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TITLE

CURTAIN OPTIONS

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



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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

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