

ECONOMY RANGE



ECO-M

MAX SIZE OF 2.5m x 2.5m

RANGE OF FITTING CONFIGURATIONS

RANGE OF LOCKING OPTIONS

SOLID STEEL CONSTRUCTION

COST EFFECTIVE

The Economy range is the entry level general purpose roller shutter door designed for multiple environments, 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 2.5m x 2.5m, with a hand chain operator the ECO-HCG they can be as large as 4 m x 4m. Electrically operated, the ECO-TM, ECO-FM and ECO-DD via single or three phase motors the max size is up to 15m x 15 m

IMAGE INFORMATION - SHOWN HERE IS THE ECO-M MODEL ROLLER SHUTTER

L20 DOORS / SHUTTERS / HATCHES

610 ROLLER SHUTTER

Product reference: GUARDIAN ECO RANGE – ECO-M MODEL

Performance: Not applicable

Arrangement: Vertical roller shutter

A vertically arranged manually operated roller shutter available with either solid or perforated curtain.

Dimensions:

Opening height up to 2500mm, opening width up to 2500mm.

Shutter weight: 15 kg/m² of door opening.

Curtain

Constructed from 75mm galvanised cold rolled scroll sections of suitable gauge, each alternate lath is fitted with a steel endlock to prevent lateral movement and wind anchor locks on larger doors. The perforated version has multiple micro circular perforations.

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 fitted with counterbalance high tensile helical springs, 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 or casing (optional extra)

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

Operation

Manual hand pull up and down operation.

Locking

Side guide pin locks and or central bottom bar lock

Finish

All parts not galvanised are painted in one coat of grey protective primer. Or powder coated to any standard BS or Ral number HPS 200 Plastisol finish available to shutter curtain

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

Optional Extras

Coil casing

Ground locking units

Pinlocks

Powder coated paint finish to any BS or RAL number.

75mm Curtain finished in HPS 200 plastisol colour

Perforations 2 mm O/D

50 mm flat lath steel curtain

50 mm curtain option - Punchings 150mm w x 25 mm h Brick bond - Inline

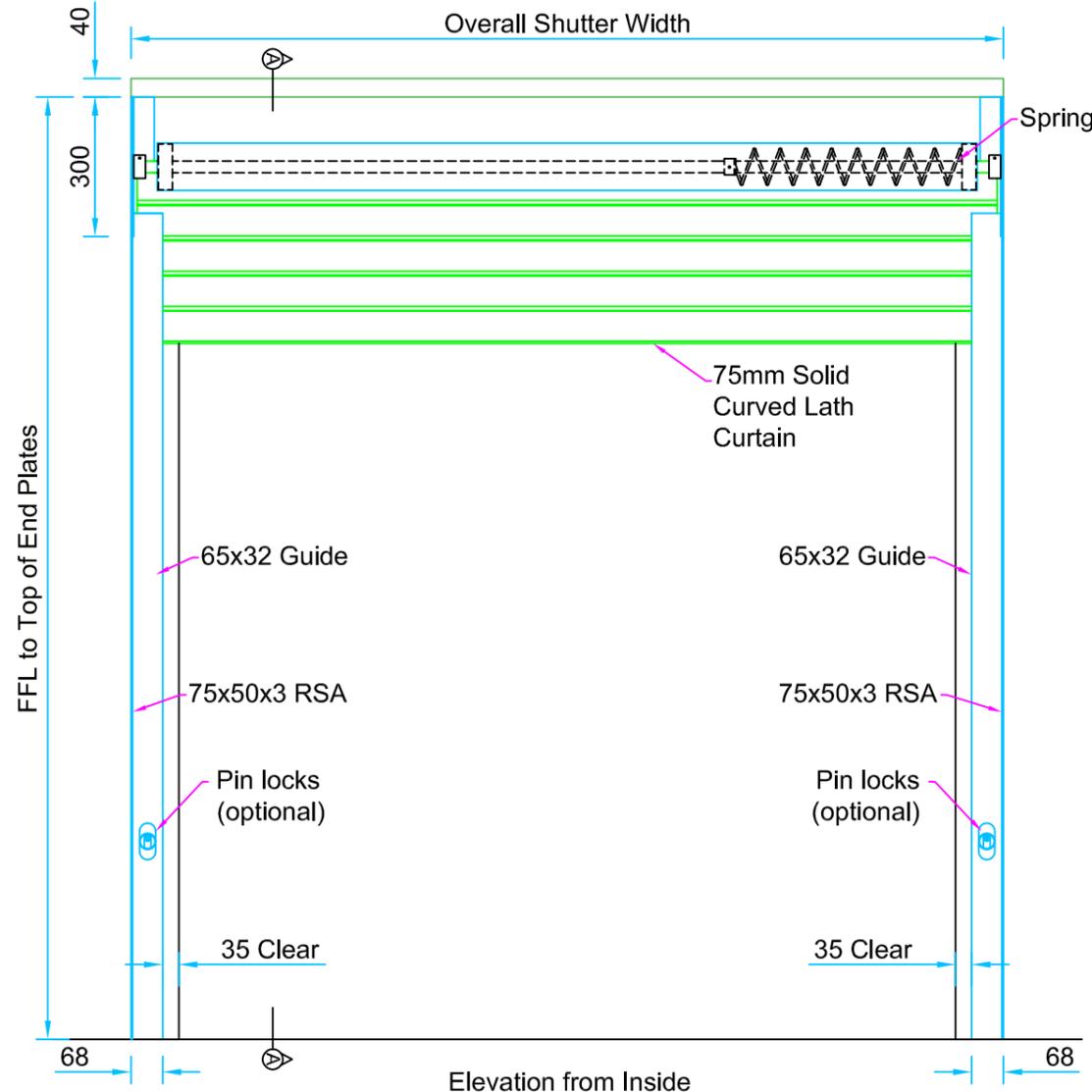
75 mm curtain option - Punchings 109mm w x 19 mm h Brick bond - Inline

75 mm curtain option - Punchings 152mm w x 25 mm h Brick bond - Inline

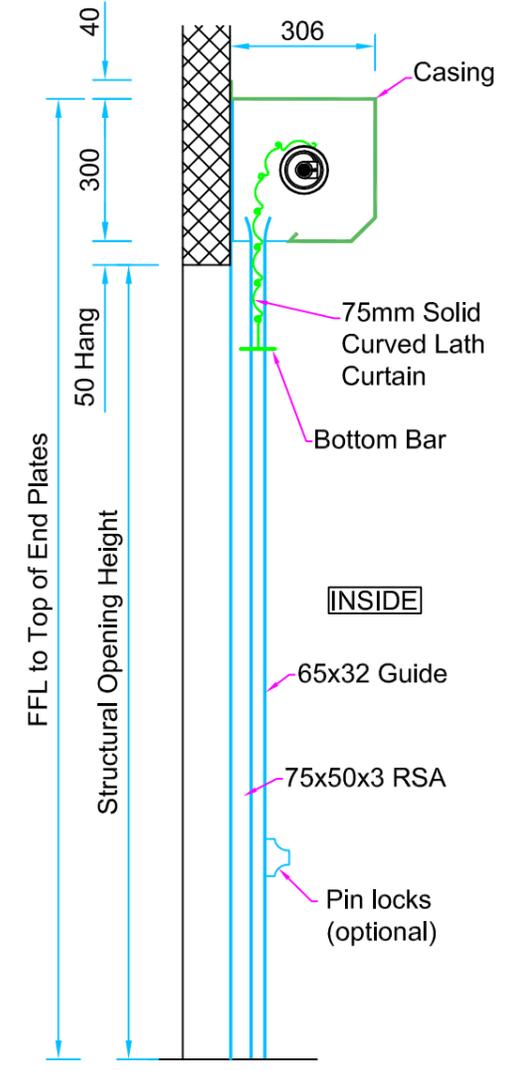
75 mm curtain option - Punchings 150mm w x 38 mm h Brick bond - Inline

Grille curtain 200mm w x 70 mm h Brick bond - Inline

Grille curtain 111mm w x 70 mm h Brick bond - Inline



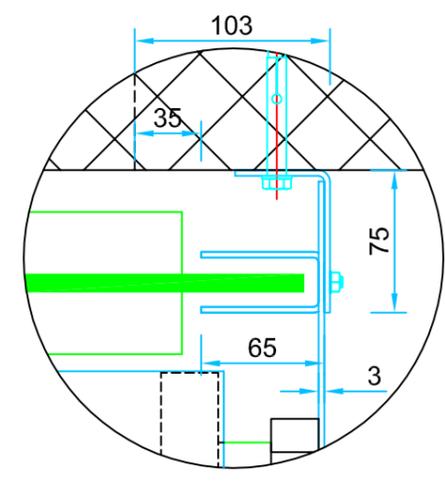
Elevation from Inside



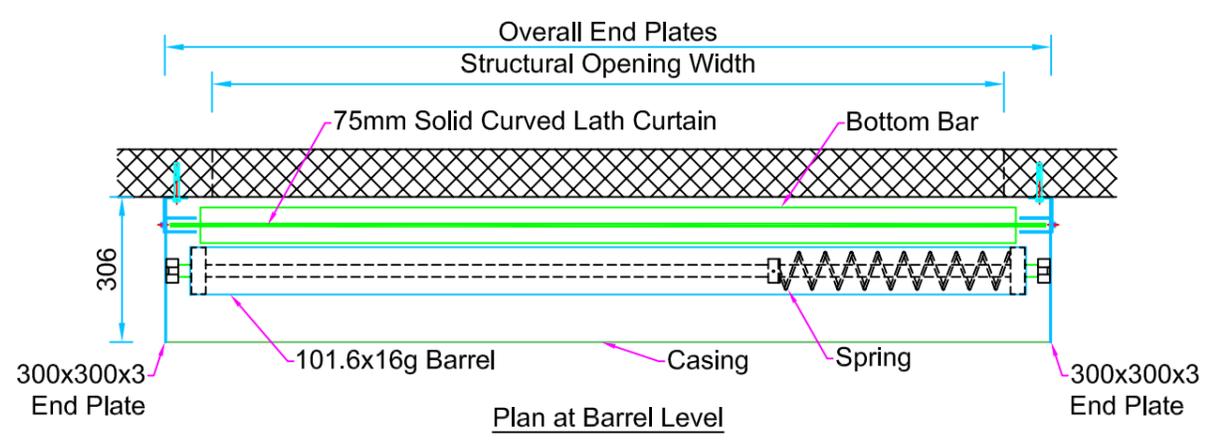
Section A-A

NOTES

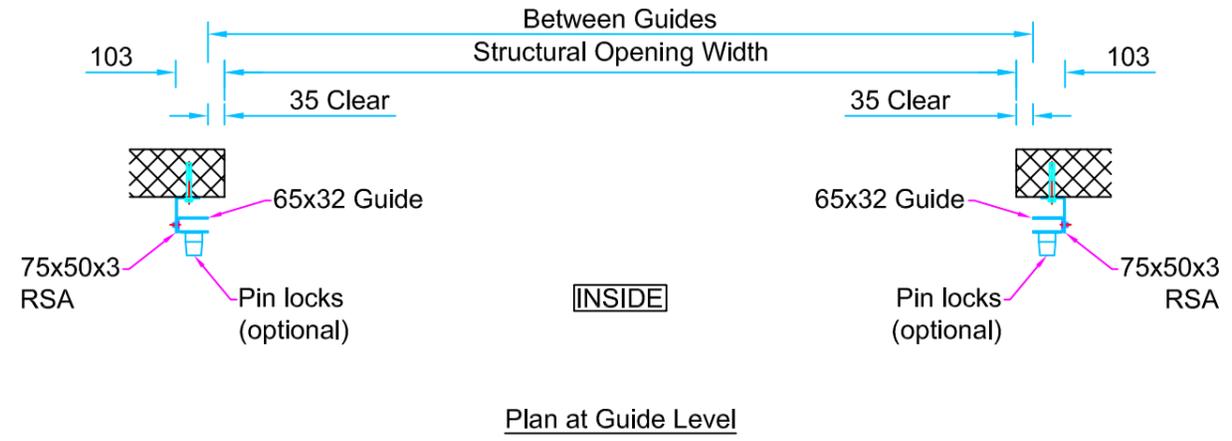
- *Client is responsible for ensuring the structure is capable of supporting the weight of the shutter
- *If the shutter head is concealed within a false ceiling/bulkhead, full shutter width removable access panels (by others) to be provided for maintenance/repair access
- *Approximate weight = 180kg (based on 2.5x2.4 structural opening)
- *Alternative access to inside required if pin locks fitted



Fixing Detail



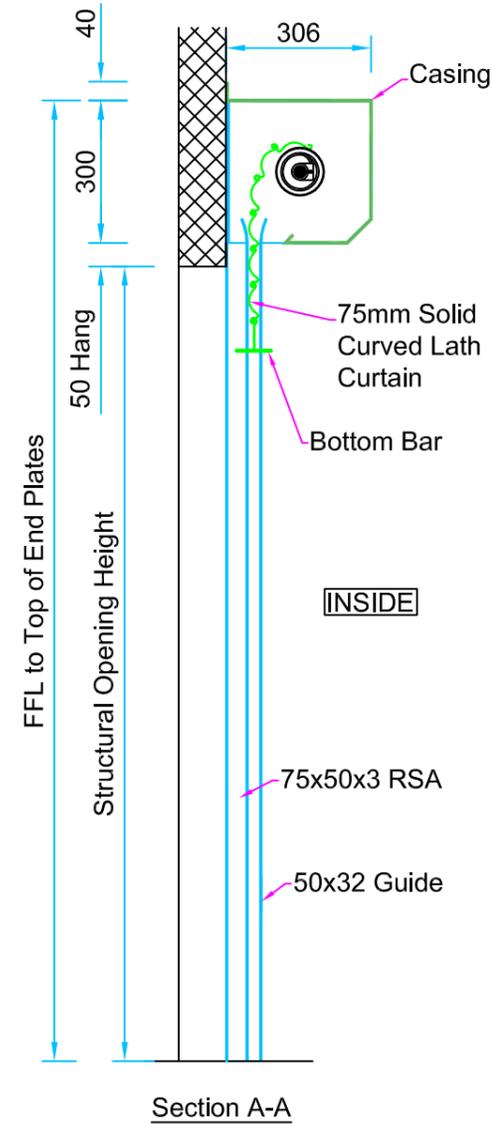
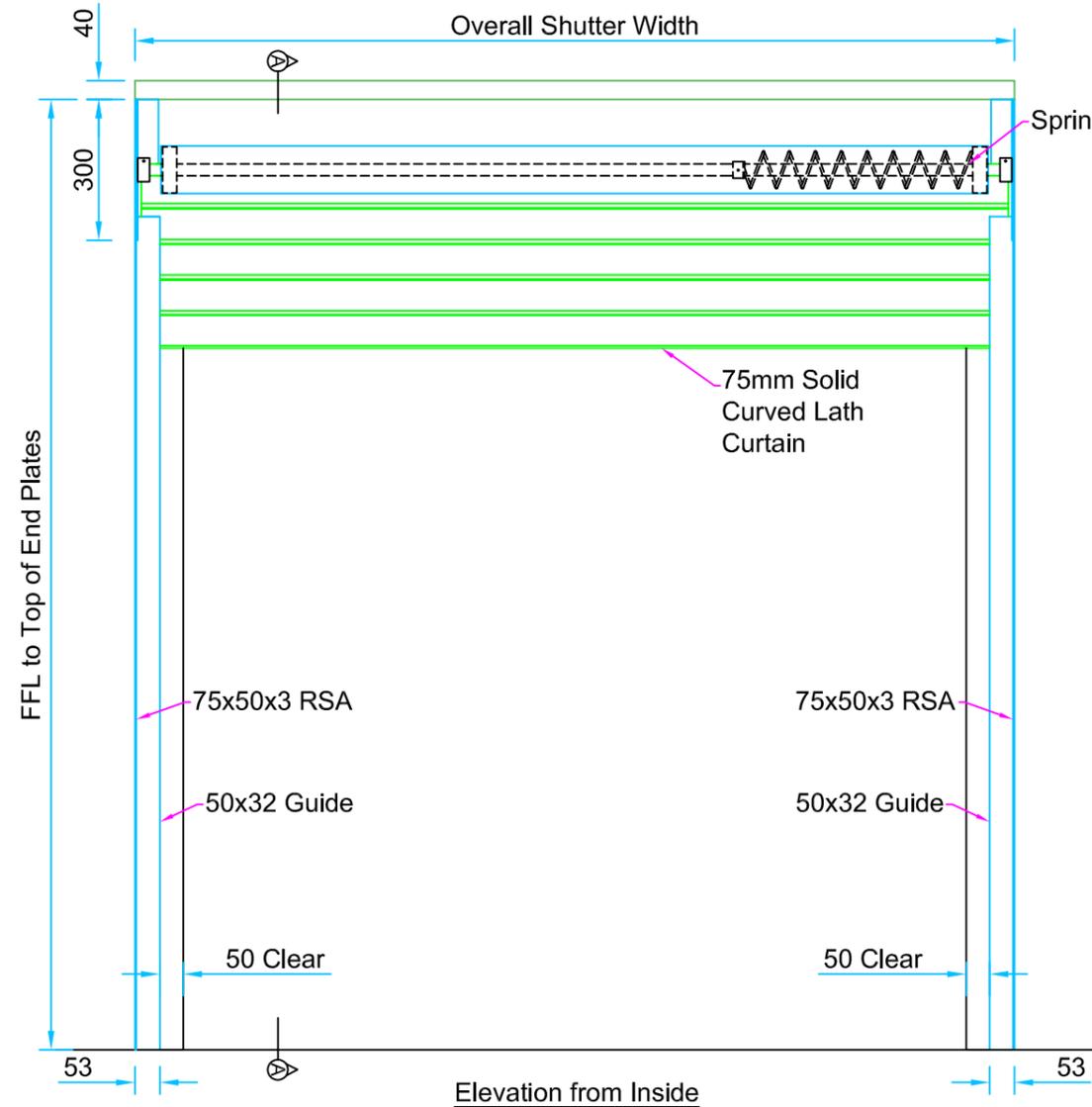
Plan at Barrel Level



Plan at Guide Level

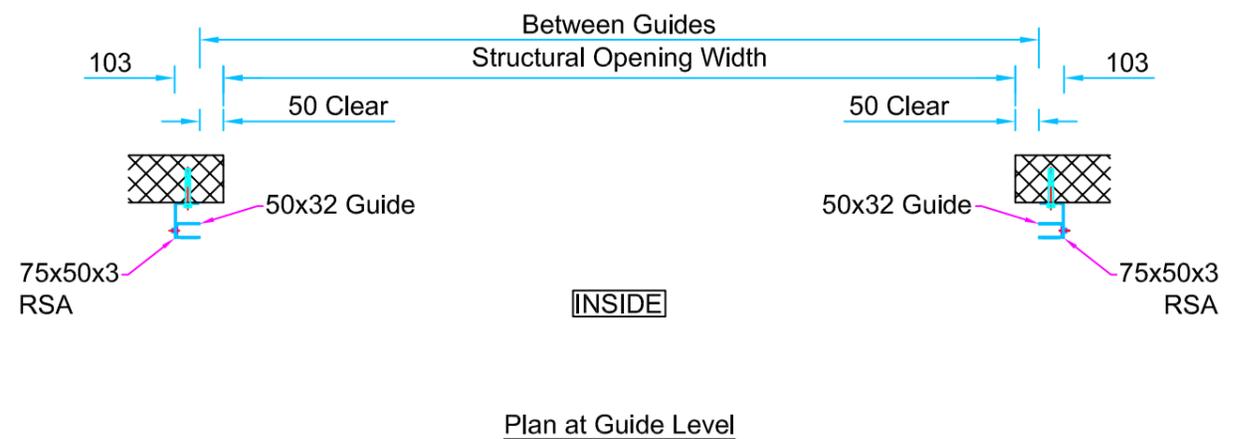
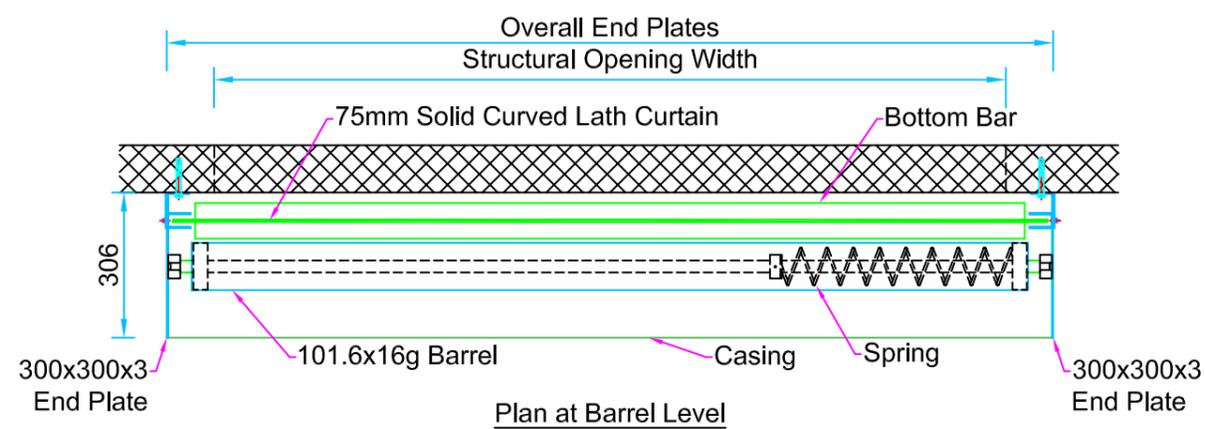
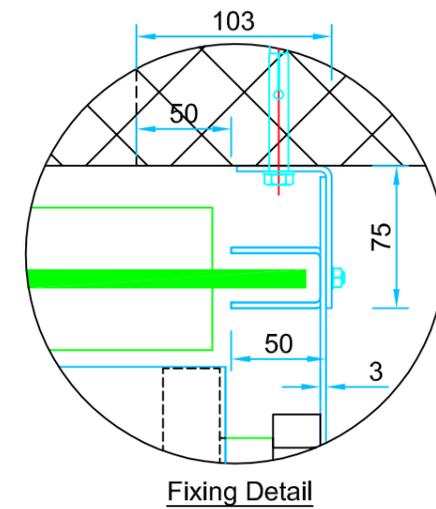
UNLESS OTHERWISE INDICATED ALL DIMENSIONS IN MILLIMETERS

DRAWN	CHK'D	APP'D	DATE	SCALE	Job No:	ISSUE	DATE	APP'D	
NC					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 Manual Roller Shutter 2500mm W x 2400mm H Max. Face Fixed Internally - 65mm Guides									
						1			PT



NOTES

- *Client is responsible for ensuring the structure is capable of supporting the weight of the shutter
- *If the shutter head is concealed within a false ceiling/bulkhead, full shutter width removable access panels (by others) to be provided for maintenance/repair access
- *Larger guides required if pin locks are to be fitted
- *Approximate weight = 180kg (based on 2.5x2.4 structural opening)



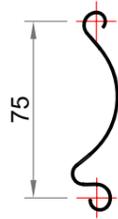
UNLESS OTHERWISE INDICATED ALL DIMENSIONS IN MILLIMETERS

DRAWN	CHK'D	APP'D	DATE	SCALE
NC				
TITLE Eco Manual Roller Shutter 2500mm W x 2400mm H Max. Face Fixed Internally - 50mm Guides				

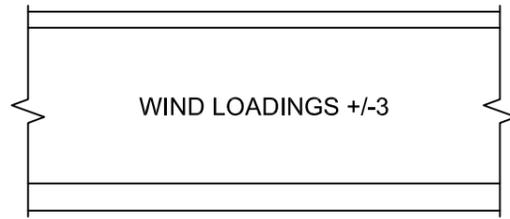
Job No:
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ISSUE	DATE	APP'D
1		PT

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



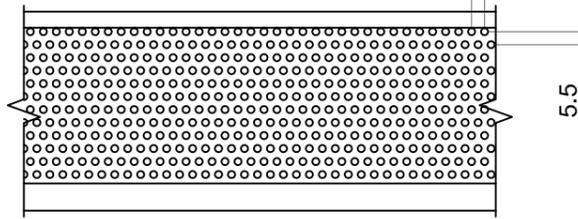
75mm SOLID STEEL CURVED LATH



WIND LOADINGS +/-3

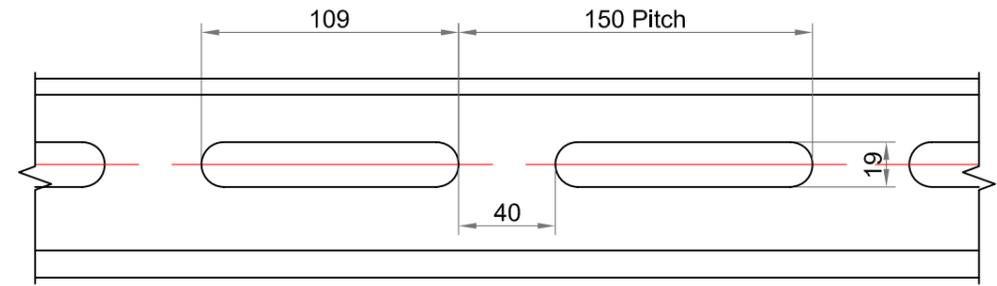
Air Flow 0%

75mm PERFORATED STEEL CURVED LATH Ø3mm Holes



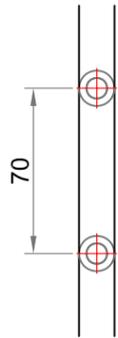
Air Flow 14.6%

75mm PUNCHED STEEL CURVED LATH 109 lg Slots

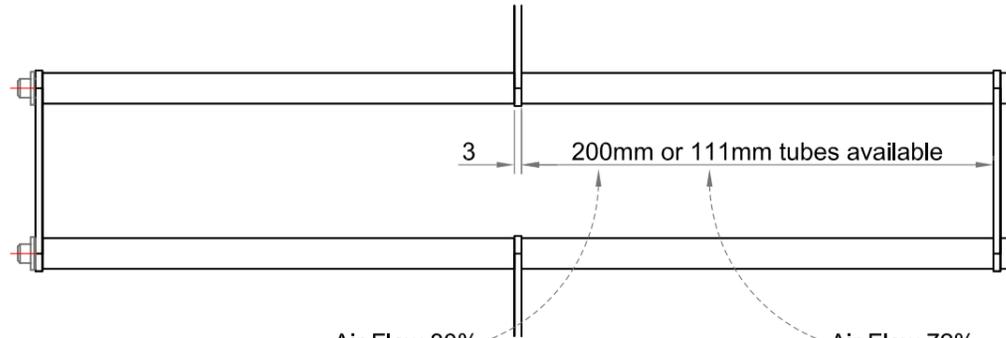


Air Flow 18.15%

CURTAIN WEIGHTS
 Tube & Link = 13kg/M²



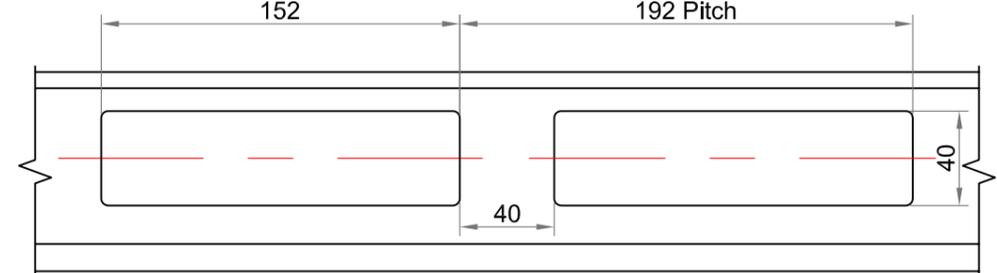
TUBE & LINK GRILLE
 (available in Brick Bond or Inline Pattern)



Air Flow 80%

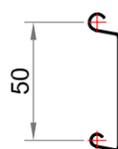
Air Flow 72%

75mm PUNCHED STEEL CURVED LATH 152 lg Slots

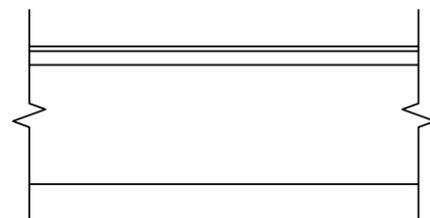


Air Flow 36%

CURTAIN WEIGHTS
 50mm x 22g = 8kg/M²

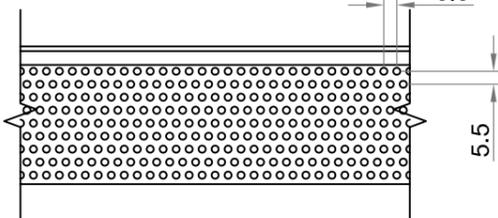


50mm STEEL FLAT LATH Ø3mm Holes



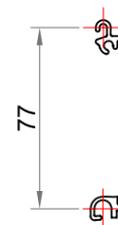
Air Flow 0%

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

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

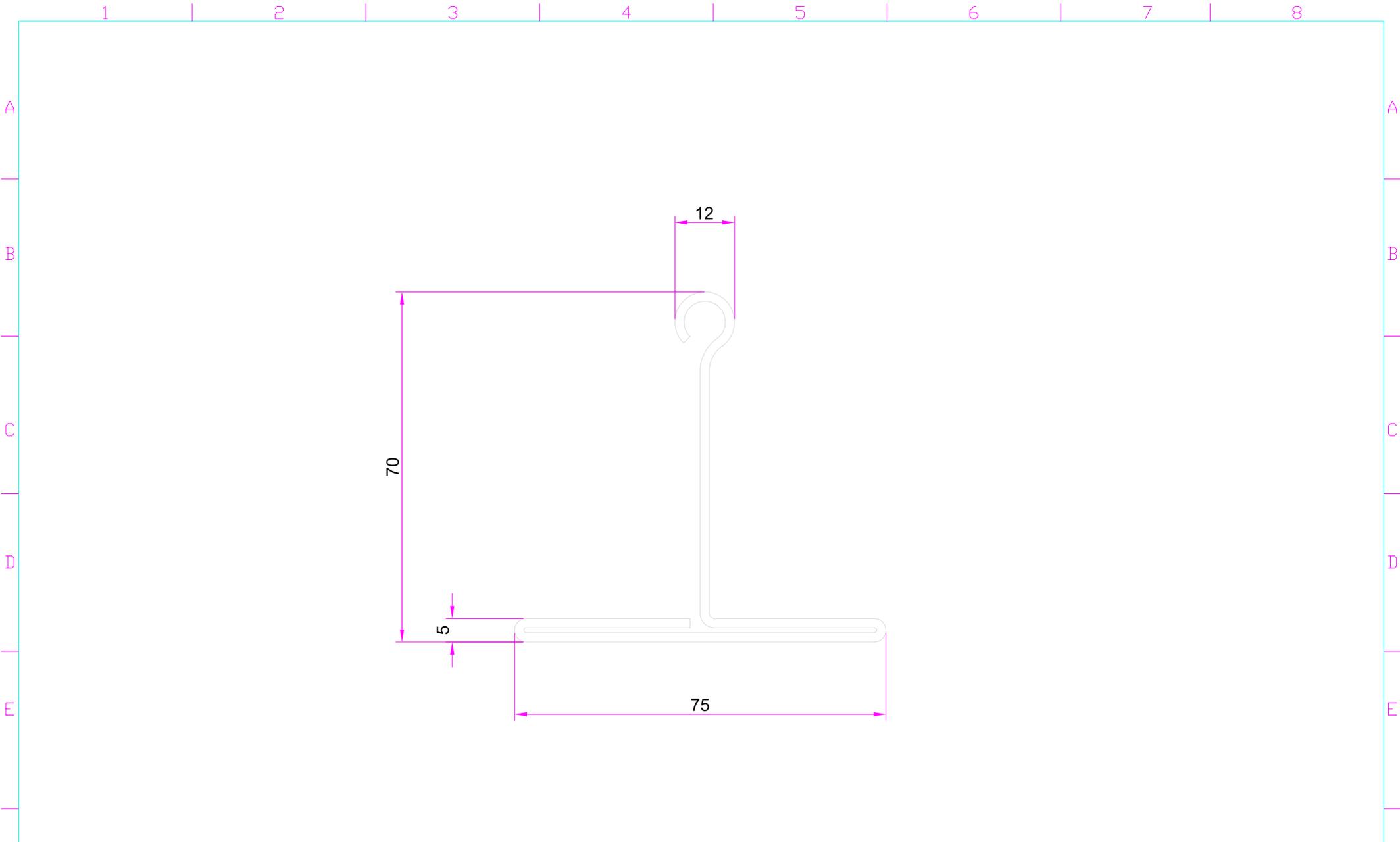
CH

TITLE

CURTAIN OPTIONS

NTS

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



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Tel: +44(0)1702 512424
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UNLESS OTHERWISE INDICATED ALL DIMENSIONS IN MILLIMETERS AND ALL TOLERANCES ± 1.0

DRAWN	CHK'D	APP'D	DATE	SCALE	Drwg No: 105x Bottom Bar	ISSUE	DATE	APP'D
MB			21/01/11	1:1	Guardian maintains a policy of progressive design and we reserve the right to modify specifications without prior notice or alteration to this drawing			
TITLE								
75mm Curved Lath Bottom Bar Detail								
FINISH						1	21/01/11	RE