

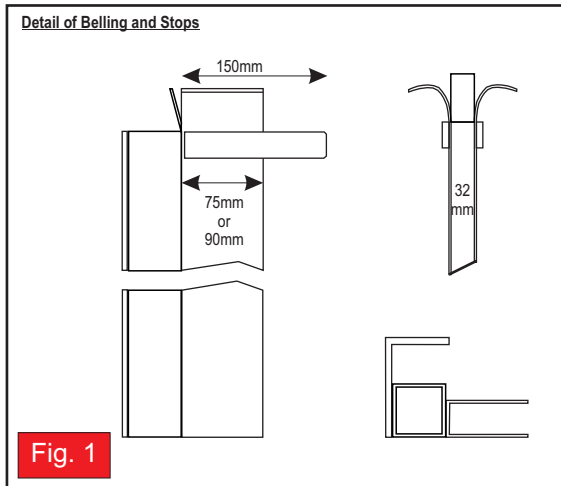
SteelGuard Industrial roller shutter

General

Industrial roller shutter employing steel channel and angle guides with electric or manual operation. SteelGuard roller shutters are compliant with the latest European products directives and standards including BSEN 13241-1 applicable from the 1st May 2005.

Guide channels

- 3mm galvanised steel
- 75mm x 32mm (standard on manual)
- 90mm 32mm (standard on electric)
- Windlock guide (optional extra)
- 75mm x 50mm offsetting boxes section.



Angle

- 3mm mild steel 75mm x 50mm. Drilled for bolting to guides with M8 Nyloc nuts and bolts.
- 6mm mild steel 75mm x 50mm supplied for reveal fixed shutter. Angle is drilled and tapped for attachment to guides with M8 bolts.
- 6mm angle will be used for all electric and manual shutters with curtains above 144kg in weight.
- Inset angle as standard, outset angle if preferred.

Head Plates

- Head plates are supplied loose for fixing above guides rails. 75mm x 50mm x 6mm angle is welded onto the head plates for face fixing applications.
- All head plate are pre drilled all have slots cut ready to except the flange motor.
- 6mm mild steel plate with 6mm plate welded perpendicular around top and bottom edges to increase strength and rigidity.
- For face fix shutters no box is required to bring the guide off the angle, instead the head plate is offset 75mm from the angle to allow for the motor (fig 5).

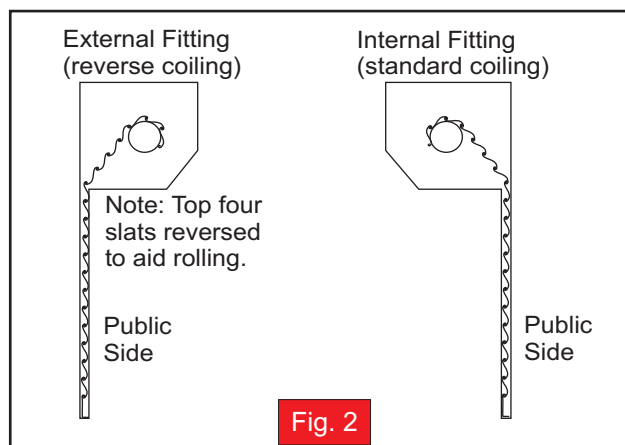
Standard Coiled (internal fit)	Reverse Coiled (external fit)	Head Plate Size (mm)
2.8m	2.5m	400 x 650
3.8m	3.4m	400 x 650
4.7m	4.7m	500 x 650



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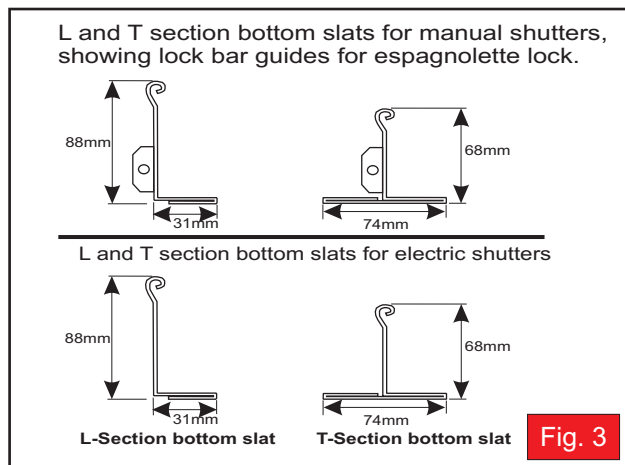
Curtain

- 75mm 20swg galvanised solid slats.
- Curtain is reversed coiled on external shutters.
- The top three slats on the reversed coiled curtains will be reversed to aid rolling of the curtain around the axle.
- Curtains attached to the axle with 400mm attachment strips attached to the axle 250mm from each end and every 500mm with M8 bolts.
- Wind-locked curtains have a wind-lock on the third slat up, then every eighth slat up to the middle of the curtain.



Bottom Slat

- Galvanised L or T section.
- T section more secure but has less clearance for handles ect.



Locks -Electric

- Electric commercial shutters only rely on their own weight to lock, However bullet locks are available as an optional extra if required. (not available on wind-lock guides).
- Optional isolator box is highly recommended if bullet locks are fitted.
- Optional bullet locks are fitted 345mm from the base of the shutter, two keys per bullet lock supplied.

Axle

- Corrosion treated axle.
- For safety the dummy end of the axle is fixed rigidly to the axle.
- Anti-fall back devices are required for shutters installed over doorways when the shutter curtain exceeds 26.5kg.

Motor & Controls

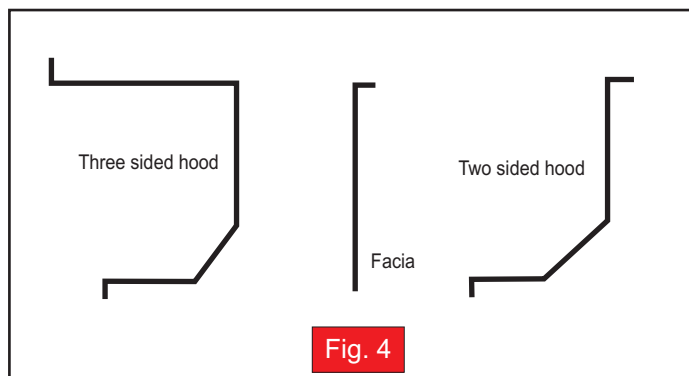
- Single phase inboard and outboard motors. (not suitable for continuous use).
- Three phase inboard and outboard motors.
- Surface mount internal switch supplied as standard.
- Key-switches available at a surcharge.
- Manual override supplied as standard via continuous hand chain.
- Battery back ups are available at a surcharge (single phase motors only and subject to size of motor).
- Remote control receiver and hand fobs available at a surcharge.

Manual Operation

- Manual operation via internal reduction geared endless hand chain.
- A second spring is supplied within the axle as an anti-fall back device when required.

Hood

- Galvanised steel three sided hood are available at a surcharge.
- 1mm gauge.
- Two sided and facia available if required at a surcharge.



Finish

- All external steel angle, head plates, guides and box section come in primer finish or galvanised.
- Optional plastisol curtain or powder coated finish on all components as required available at a surcharge.
- Plastisol finish on curtains will be on external side of shutter only.

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