

# Roll-A-Shutter™

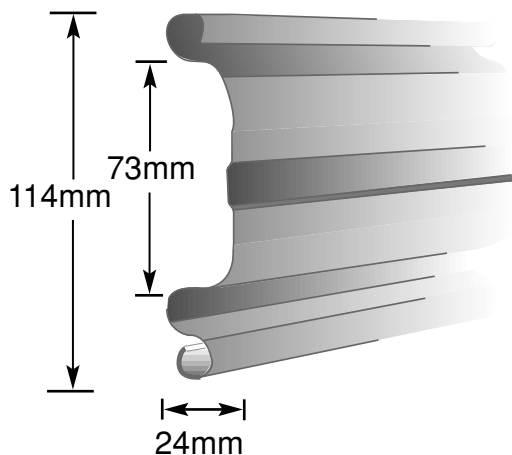


## Industrial Slat Type Shutter

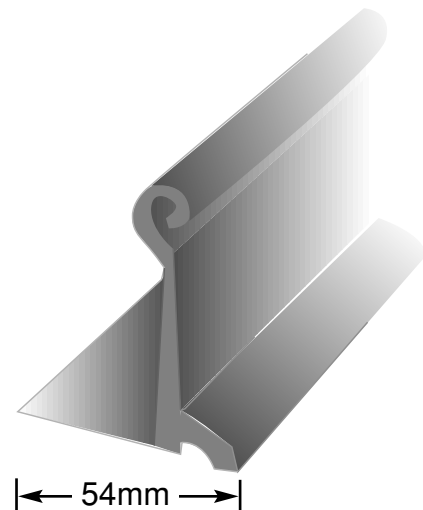
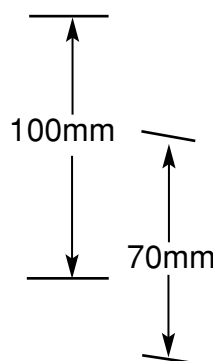


### APPLICATIONS

- ◆ The Model 6/100 B & D Roll-A-Shutter features a steel curtain.
- ◆ Compatible with modern architectural styling
- ◆ Specially designed for commercial and industrial openings requiring a strong yet Closure.
- ◆ Available for a range of openings from 900mm x 900mm to 6000mm x 6000mm
- ◆ The 6/100 is easily operated manually (no chain wheel)
- ◆ Chain geared or electrically powered, to suit any size through out the range.



SLAT PROFILE



BOTTOM RAIL (ALUMINIUM)

Roll-A-Shutter™ 6/100



**SPECIFICATIONS**

**CURTAIN** – The curtain shall be from 0.6mm thickness continuous roll formed interlocking type coated galvanised steel slats, having a nominal effective width of 100mm and a zinc coating of not less than 250g/m<sup>2</sup>.

**CURTAIN CLIPS** – The curtain shall have moulded nylon clips fitted to the ends of alternate slats by means of three nylon rivets. When specified, special malleable iron windlocks shall be fitted to the slat ends at the recommended intervals on shutters exposed to excessive wind loading.

**BOTTOM RAILS** – The bottom rail shall be of extruded aluminium “T” section with the top edge formed to interlock with the bottom slat of the curtain.

**GUIDES** – The standard guides provided for nylon clipped roll-a-shutters are steel channels cold roll formed from 2.0mm steel, having a minimum depth of 70mm and measuring 38mm across the back. The 100mm deep guide option uses steel channels cold roll formed from 2.5mm steel, with a depth of 100mm and measuring 38mm across the back. When fixing to masonry, these guides shall be fixed securely to walls at intervals of not more than 750mm by 9.5mm diameter masonry anchors and hex head bolts, or as specified for steel work.

**WINDLOCK GUIDES** – When specified, windlock channel guides cold roll formed from 2.5mm steel with a minimum depth of 85mm and measuring 50mm across the back, with a 40mm x 12mm mild steel bar welded to the inside surface of the guide will be provided. Fabricated windlock guides are also available as an option. The recommended method of securing windlock guides is by 40mm intermittent stagger welds to the steel building structure at 400 mm centres.

**DRUM** – The drum shall be of steel tube having a minimum O.D of 168mm x 3.18mm wall thickness and designed so that the drum stress does not exceed 124MPa. The drum shall be fitted with bearings and mounted on a bright mild steel spindle having a minimum thickness of 35mm.

**SPRINGS** – Drum springs shall be helical torsion type, made from spring steel wire conforming to AS1472, designed to fit the drum assembly and of selected length to match the operating revolutions of the drum without exceeding the safe working stress.

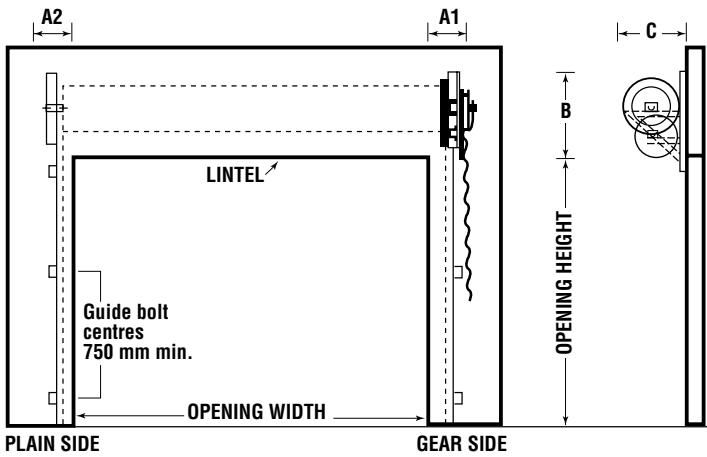
**BRACKETS** – The shutter support brackets shall be fabricated from 50mm x 50mm x 6mm M/S angle and supplied with spindle support angles fitted with 12mm steel bolts, each bracket shall be fixed to the wall with no less than three 12mm masonry anchors and hex head bolts or as specified for steelwork.

**GEARS** – The gearing shall be spur gears with the gearing ratio selected in accordance with shutter size.

**LOCKING** – Locking shall be provided for by chain lock cleats welded to guides so as to be lockable by padlock means. Key locking optional. (Electrically power driven shutters have optional locking bars or chain cleats.) Manually (no chain gears) operated shutters shall be fitted with sliding locking bars.

**FINISH** – Shall be galvanised steel finish with all M/S components prime coated. Optional powdercoat finish available when specified. Hauling chains shall be passivated. Colorbond® is optional.

CLEARANCES



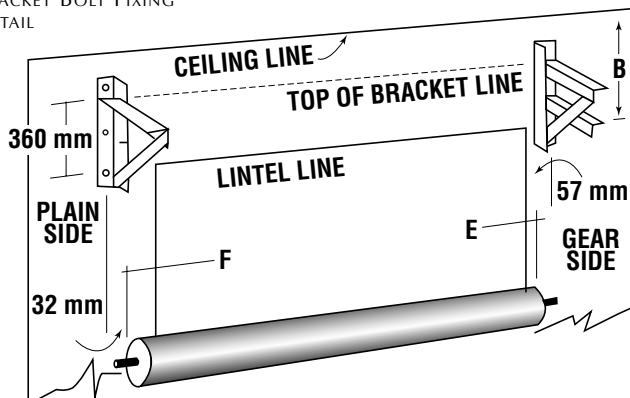
**A1 = GEARSIDE, A2 = PLAIN SIDE, B = HEADROOM, C = END VIEW (REFER TO CLEARANCE PANEL)**

CLEARANCE DIMENSIONS

	A1	A2	B	B <sub>mi</sub>	C
<b>MANUAL (No chain wheel) (electric operation optional)</b>					
UP TO 7.5m <sup>2</sup> windlocks every 4th	200 mm	200 mm	580 mm	530 mm	355 mm
	210 mm	210 mm	750 mm	700 mm	425 mm
<b>4.7:1 CHAIN GEARED (electric operation optional)</b>					
UP TO 15.7m <sup>2</sup> windlocks every 4th	240 mm	200 mm	680 mm	630 mm	455 mm
	250 mm	210 mm	835 mm	785 mm	510 mm
<b>18.8:1 CHAIN GEARED (electric operation optional)</b>					
UP TO 36m <sup>2</sup> windlocks every 4th	280 mm	200 mm	680 mm	630 mm	455 mm
	290 mm	210 mm	835 mm	785 mm	510 mm
Electric inside mount	230 mm	570 mm to back of STR motor			
Electric outside mount	460 mm	570 mm to back of STR motor			

NOTE: Should the headroom available be less than that shown for dimension “B”, the 6/100 may be installed to give satisfactory operation by fixing the drum support brackets so that the support arm is situated 230mm below the ceiling for doors up to 3350mm high, and 280mm below for doors over 3350mm height. However, the nominal daylight opening height will be reduced by the amount of the deficiency in headroom.

BRACKET BOLT FIXING DETAIL



**FIXING**

**Masonry:** 12mm ragged bolts or masonry anchors.  
**Steel:** 12mm engine bolts.

**Timber:** 12mm coach bolts.

“E” = measurement from end of drum (not the gear wheel) to the fixing bolt centre line.

- GEAR SIDE

“F” = measurement from end of drum to the fixing bolt centre line.

- PLAIN SIDE.

APPROXIMATE WEIGHTS

NOMINAL SIZE	WEIGHTS	NOMINAL SIZE	WEIGHTS
2400mm x 2400mm	175 kg	4200mm x 4200mm	375 kg
3000mm x 3000mm	230 kg	4800mm x 4800mm	440 kg
3600mm x 3600mm	305 kg	5000mm x 5000mm	500 kg

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