TECHNICAL DATA
SHEET
3AS

Q100 STEEL ROLLER SHUTTERS

DRIVE OPTIONS & INSTALLATION CLEARANCES

Manual Operation

Operated manually by hand - the maximum recommended size is 6m^2 to meet the specified amount of force to safely operate the load - 220N.

Chain Operation

Operated via hauling chain operated reduction gearbox - the maximum recommended size is 22m^2 (Grifco P/N #HDHWO) or 25m^2 (Grifco P/N #EHDHWO).

Electric Operation

- Operated electrically by heavy duty industrial worm & wheel reduction gearbox/electric motor unit through chain drive to shutter drum.
- Standard position of motor is below the drum.
- The drive has built-in limit switches and is operated by Up/Stop/Down push button controls. The Down button requires continuous pressure for the entire down cycle of shutter for safety reasons.
- Remote control activation, key switches, induction loops or other means of operation may be fitted as an optional extras.
  Remote down must have PE Beam.
- 3-Phase openers are standard. Single phase openers are available as optional extra. All standard openers have Short Time Rated Duty Cycle (10 minutes operation every hour).
- High Cycle Rated openers are available in 3, or single phase versions. These are recommended for shutters exceeding 20 cycles per day, or for car parks securing more than 6 vehicles.
- Motor sizes:
  - 0.75kW (1HP) for shutters up to 36m^2
  - 1.1kW (1.5 HP) for shutters up to 50.0m^2
  - 1.5kW (2.0 HP) for shutters up to 80.0m^2

  Typical operating speed - 6 meters per minute.

Note: Fitting windlock to doors decreases the square meter capacity of the motor by 10%.

- The openers are fitted with emergency hauling chain drive in the case of power failure.

Table 1 SERIES 100 SLAT THICKNESS AVAILABILITY

Slat (mm)	Thickness Availability	
	0.8mm	1.0mm
100mm	Yes	Yes

Q100 Standard Headroom & Sideromm Clearances

Type	Operation	Max. Size	Guide	"A" Inboard	"A" Outboard	"B"	"C"	"D"	"D1"	"E"	"F"
Q100	Manual	6m²	60mm	170mm		190mm	650mm	400mm	N/A	400mm	N/A
Q100	Manual	6m²	100mm	210mm		230mm	650mm	400mm	N/A	400mm	N/A
Q100	Manual	6m²	Windlock	210mm		230mm	650mm	400mm	N/A	400mm	N/A
Q100	Chain	25m²	60mm	170mm	410mm	190mm	700mm	500mm	550mm	400mm	790mm
Q100	Chain	25m²	100mm	210mm	450mm	230mm	700mm	500mm	550mm	400mm	790mm
Q100	Chain	25m²	Windlock	210mm	450mm	230mm	700mm	500mm	550mm	400mm	790mm
Q100	Electric	36m²	60mm	170mm	410mm	190mm	700mm	540mm	700mm	400mm	790mm
Q100	Electric	36m²	100mm	210mm	450mm	230mm	700mm	540mm	700mm	400mm	790mm
Q100	Electric	36m²	Windlock	210mm	450mm	230mm	700mm	540mm	700mm	400mm	790mm
Q100	Electric	8m H x 10m W	Windlock	250mm	450mm	230mm	800mm	640mm	840mm	400mm	950mm

Codes - Refer Tech. Sheet 9B for drawing: A - Inboard / Outboard sideroom. B - Capstan end sideroom. C - Minimum Headroom from underside lintel to ceiling. D - Inside clearance of capstan side of curtain. D1 - Inside clearance of drive side. E - Underside of lintel to centreline of shaft. F - Headroom from underside of below mount motor to top of rolled curtain.

NOTES:

1. Dimension 'A' is shown for RH operation. For LH operation swap dimensions 'A' & 'B'.
2. All headroom dimensions allow for 250mm high guide feed-in extension above lintel height.
3. * - If release arm set below motor this dimension increases to 1200mm.
4. For restricted clearance applications, discuss options with Arco (Qld) engineer.
5. The typical life span of roller shutter springing is defined as follows:
   - Low cycle (i.e. open 1-20 cycles per day) - Spring life of up to 10,000 cycles;
   - High cycle (i.e. open 20-40 cycles per day) - Spring life of up to 80,000 cycles;
   - Extreme high cycle (i.e. open more than 40 cycles per day) - Spring drums are not recommended. A springless drum and brake motor is recommended for these applications.