

ROLLER DOOR SPECIFICATION

CURTAIN: Consists of Deep Profile 75mm Galvanised or PVC Coated Steel curved lath, interlocking along their entire length to form a continuous curtain. Lateral movement is reduced by Nylon End Locks fixed to each end of alternate laths, which also reduces friction in the guides. A bottom extruded aluminium rail, complete with rubber seal is fitted to the bottom of each curtain as standard.

All doors are designed using a combination of curtain gauge, guide depth and Wind-bars depending on the opening width/height and location. Galvanised Steel lath to BS 2989. PVC Coated Steel Lath – Colorcoat HP 200 to BS EN 10147.

NOTE: The Extruded Aluminium Rail complies with latest regulations on Bottom Bars and Base Angles.

GUIDES: The Guides manufactured from heavy gauge 3mm Zintec Steel. Guides are 64, 76mm and 102mm deep for normal conditions. In cases where extreme conditions are encountered, extra deep wind lock guides can be provided.

BRACKETS: All Industrial Roller Door brackets are manufactured from mild steel. The drive is achieved using an ASA-75 drive chain from the motor to a 46tooth sprocket on a bearing drive; a safety device is incorporated on the drive bracket to engage the axle sprocket in the event of the drive chain breaking, thus preventing the curtain from rolling down. The brackets are bolted to concrete or anchored to steel.

AXLE: The axle is manufactured using Circular Hollow Section (CHS); specification BS4360-43C, a disc is welded on the drive end and a shaft suitable for the Inertia Brake is welded to the offside end.

ELECTRIC OPERATION: Suitable rated motor with built-in limits and hand chain. All motors are pre-wired to their control panel. Voltage supply is 220V AC Single Phase or 380V AC Three Phase. To conform with the Low Voltage Safety Directive, the control circuit to the Up-Stop-Down push buttons is extra low voltage at 5V. Motors come with a 3 Year Warranty.

NOTE: Hand Chain should be used ONLY in the event of power failure. Where there is no power on site, and where the door is operated regularly with the Hand Chain, irreparable damage, not covered by Warranty, may be caused to motor.

HAND CHAIN OPERATION: 9" Cast Aluminium Chain Wheel using a 17/32 tooth combination sprocket to 70tooth barrel sprocket. Sheradised Hand Chain and ½" x 5/16" BS Drive Chain.

HEAVY DUTY INERTIA BRAKES

Features/Benefits:

- Wide range of brakes that can stop loads from 480kg to 1700kg.
- Products can serve as a bearing, support and safety brake.
- Through-bored shaft allows for left or right side installation.
- Standard bore sizes promote ease of installation.
- Sturdy/quality construction and unique design enhance product reliability.
- Inertia brakes are similar to shock absorber – when breakage/malfunction of the end product assembly occurs and the downward speed increases to an unsafe rate; they react immediately, absorb the added energy and stop the load safely.
- After activation in the locked position, the unit can be reset with an easy back drive action. This can be accomplished only after the end product assembly is properly repaired to ensure for safe continued operation. It should be noted that the end product remains in a safe locked position until the assembly is serviced/repaired.
- Stainless steel rollers provide for maintenance-free operation.

HOODS: Formed from pre-galvanised sheet steel or PVC Coated Steel can be provided as an extra to enclose the coiled shutter.

WEATHER AND DRAUGHT SEALS: Purpose built tubular rubber astragals can be fitted to bottom rails for weather proofing. Draught excluders of various depths consisting of a 'brush' of poly propylene fibres held by an aluminium carrier can be fitted to top and sides of door.

GROUND LOCKS: For added security, specially hardened purpose made locks and robust anchorages, fitted to the bottom rail and floor, may be fitted.

The following EN Safety Directives and national Building Regulation guidelines have been applied including:

- 98/37/CE Machinery Directive
- 73/23/CEE Low Voltage Directive
- 89/336/CEE Electromagnetic Compatibility Directive

The following technical specifications and standards have been applied:

- IS EN 12453
- IS EN 12445
- IS EN 12604
- IS EN 12445
- IS EN 13241-1