**ROLLER SHUTTERS**

**(3 PHASE ELECTRIC OPERATION)**

**SPECIFICATION 3-1**

**Curtain**

Constructed from 76mm curved section galvanised steel laths with pressed steel endlocks fitted to alternate laths to prevent lateral movement. Windlocks are fitted where excessive windloads are specified. The bottom rail is a galvanised steel inverted “tee” section.

**Guides**

The side guides are formed from galvanised steel channels and prepared for fixing to the opening structure by means of continuous fixing angles.

**Endplates**

Fabricated from mild steel of adequate thickness relative to door size and supplied with angles for fixing to the structure.

**Roller**

The roller is manufactured from mild steel tube of sufficient diameter and wall thickness to resist deflection and is mounted in bearings or cups on each end plate.

**Finish**

The majority of parts are galvanised with other parts prime painted. They are also available in stainless steel and polyester powder coated in a range of standard RAL colours at extra cost.

**Weight**

Approximately 35 kgs per m².

**Operation**

Electrical operation is by means of a direct drive 3 phase geared motor mounted on the outside of one endplate. The motor has an inherent safety brake thus meeting all relevant Health & Safety requirements and the standard unit is pre-wired obviating the need for a site electrician.

**Controls**

The standard controls are by means of open / close / stop push buttons fitted adjacent to the shutter.

**Casings**

Coil casings fabricated from galvanised steel sheet are available as an optional extra.

**To specify state:**

**Roller Shutters shall be by**

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