

Specification - Clearseal II / Clearseal IIs, Vertically Sliding

I General

Supply and installation a vertical electrically operated transparent / transparent and ventilative security shutters Clearseal II / Clearseal II + Clearseal IIs, with all necessary accessories, supporting frames, hood and casing, guiderails, electrical motors and switch boxes as required.

The installation shall fully comply with the “Code of Practice for Installation of Electric Operated Sliding Gates, Sliding Glass Doors and Rolling Shutters” published by the Hong Kong Electric and Mechanical Services Department.

II Shutter curtain

- 2.1 Transparent shutter curtain is formed by polycarbonate panel, which is made by hot runner manifold system.
- 2.2 Using CS IIs slats on the top two rows, the shutter is transparent and also ventilative.
- 2.3 Polycarbonate panel is jointed by horizontal stainless steel / reinforced aluminium axis through their entire length to form a continuous hinge.
The ends of all slats shall be fitted with stainless steel end locks to prevent lateral movement.
- 2.4 Protective layer is added on both sides of polycarbonate panel, the layer will be removed after all the decoration finished.
- 2.5 The shutters shall be designed to withstand a wind load calculated in accordance with the “Code of Practice on Wind Effects, Hong Kong”, unless otherwise specified.
- 2.6 The contractor shall provide a relevant test report prepared by a laboratory accredited by the Hong Kong Accreditation Scheme (HOKLAS) to certify that inflammability of PC panel fulfills UL94-Vo and PC panels provides UV resistant and will not discolour or lessen its transparency even in strong sunlight or 60°C spotlight for three years.

III Component

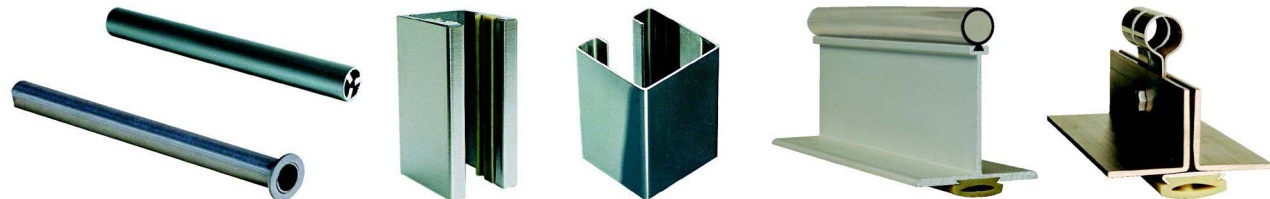
- 3.1 The horizontal steel barrel carrying the shutter curtain must be of suitable diameter and strength to resist deflection, and be rush proofed.
- 3.2 The vertical channel guide shall be of stainless steel / aluminium alloy of adequate size and depth to hold the shutter curtain running within the guiderail under high impact.
- 3.3 Silicone acoustic seal is installed on channel guide to lower noise in operating shutters.
- 3.4 Bottom bar is made of aluminium T-section / stainless steel T-section with PC joining tube jointing tube and silicone acoustic seal.
- 3.5 Shutter hood is made of GMS frame and metal sheet cover.

IV Electric operator

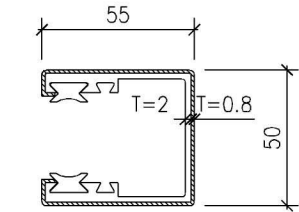
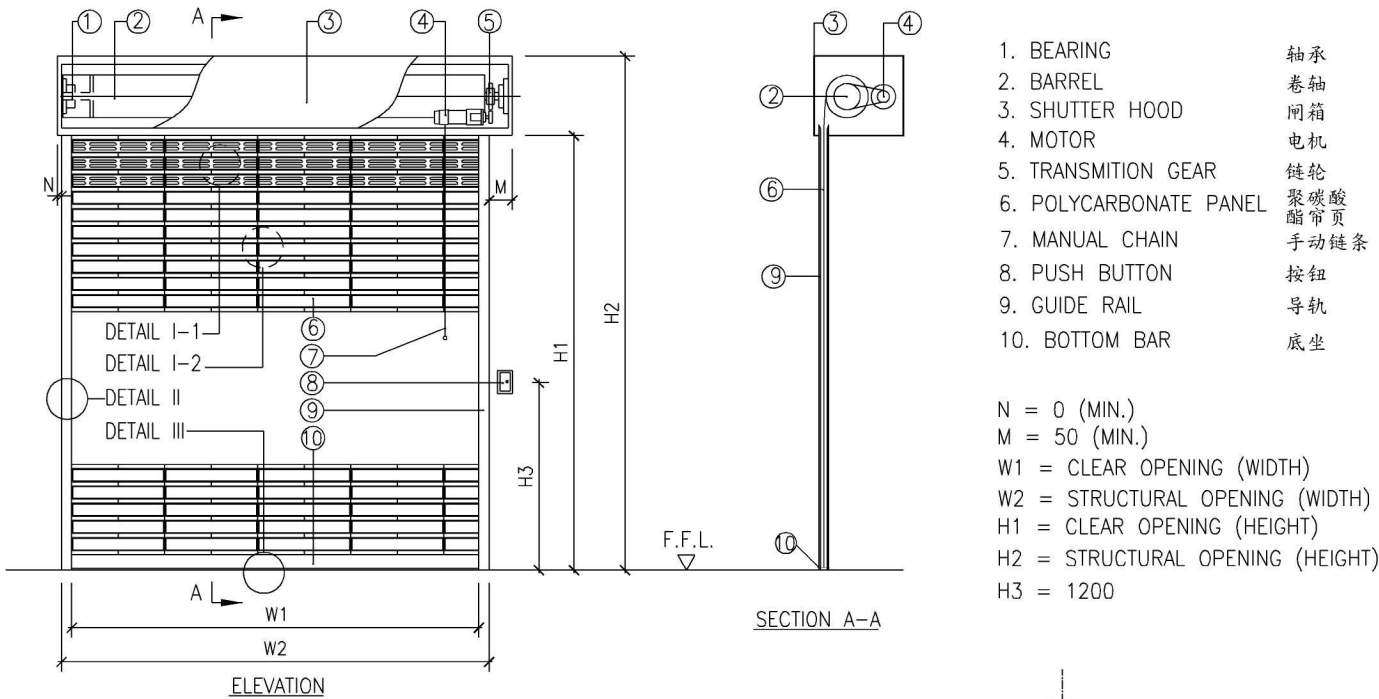
- 4.1 Provision of power point by electrical work subcontractor at a location within one meter near the shutter motor.
- 4.2 The motor, the associated control and protective devices must be suitable for operating on local electricity supply.
- 4.3 The motor, driving gears, limited switch and control mechanism must be accessible for inspection and servicing.
- 4.4 An isolating switch is to be provided to isolate the electricity supply during inspection and servicing.
- 4.5 Auxiliary manually operated gear is to be provided. The changeover should be easily effected without climbing up to the gearing drive mechanism to engage the gears for manual operation.
- 4.6 Electrical installations shall comply with the requirements of I.E.E. regulations for Electrical Equipment of Buildings.

V Manual control device

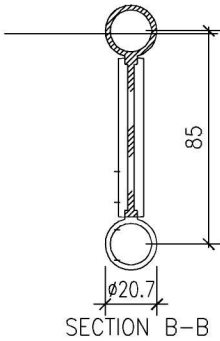
- 5.1 24V control voltage.
- 5.2 A close/ open / stop control push button switch shall be installed at 1200mm above floor level for each motorized shutter for controlling.
- 5.3 Push button switch is installed in stainless steel box with lockset. The box is made with grade 304 stainless steel with hairline finished and conceal on wall.
- 5.4 Or a key-switch shall be installed at 1200mm above floor level of each motorized for controlling.
- 5.5 Or a digital-switch shall be installed at 1200mm above floor level of each motorized for controlling.
- 5.6 For digital-switch, user can changes password regularly. It can also record the user's identity, number of times and time of operating the shutter.



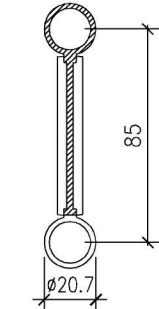
垂直开关秀丽II型及秀丽IIs型卷闸
CS II and CS IIs vertically sliding roller shutter



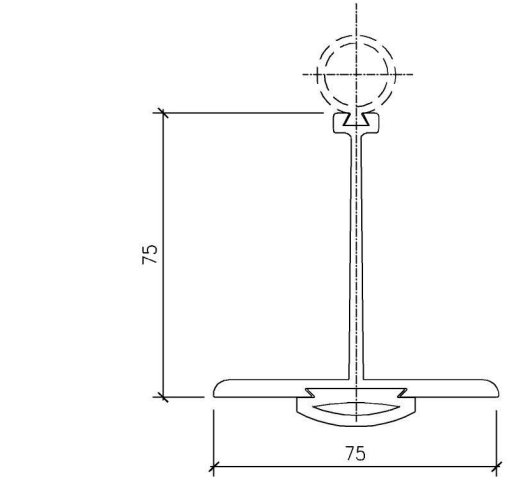
DETAIL II (GUIDE RAIL)



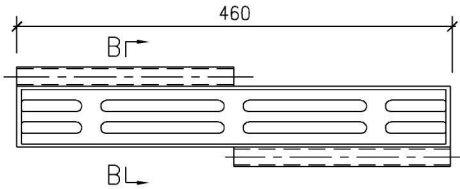
SECTION B-B



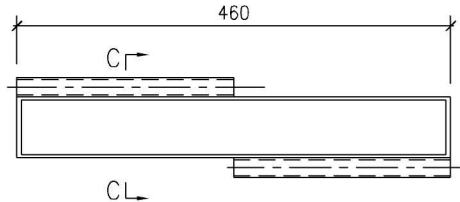
SECTION C-C



DETAIL III (BOTTOM BAR)



DETAIL I-1



DETAIL I-2