

## TRADITIONAL SINGLE SKIN ROLLER SHUTTER DOORS

**Curtain:** The curtain material is generally constructed from individual inter-locking pre-galvanized steel lath incorporating a zinc alloy die cast endlock riveted in position.

**Bottom Rail:** A pre-galvanized T bar formed to connect on the base of the curtain material.

**Barrels:** Constructed from mild steel tube with inner blocks, shafts and helical springs to BS 970 EN 498. The sizes and types of spring are designed to accommodate the appropriate curtain weight. Where additional gearing is provided for operation this may consist of either spur gearing or chain drive

**Brackets:** Fabricated from mild steel plate fitted with mounting angles for securing to opening structure. Where gearing is applicable spur gearing or chain drive will again be used, dependant upon final design and upon size of door. Normal operation through the gearing would be by means of an endless hand chain operated at floor level.

**Side Guides:** Formed in rolled steel channel, wind anchor type, complete with suitable mounting angle where necessary. The depth and type of guide being subject to design dependant on door size and location. Door guides are finished primed.

**Top Brush Seal:** The top brush seal is fixed off the client's soffit to close the gap between the curtain face and the building line and consists of a heavy duty brush in an aluminium carrier.

**Casings:** As an optional extra a pre-galvanized sheet steel casing/soffit/fascia can be provided to the coil at the head of the opening. We would recommend casing where a door is fixed to the exterior face of the opening, likewise motor covers where electrical equipment is fixed outside and subject to the weather.

**Plastical Finishes:** As an optional extra shutter curtains can be provided in the HP200 standard range of plastical colours, plastical finishes being to the external face of the shutter only. Standard colours are Van Dyke Brown, Merlin Grey, Goose Wing Grey, Mushroom and Poppy Red.

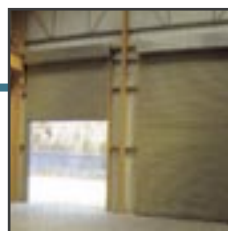
**Powder Coated Finishes:** As an optional extra powder coated finishes can be provided to the shutter in standard RAL or BS standard colours as well as non-standard colours if samples are provided for us to analyse.

**Power Operation:** An electric motor unit of suitable rating would be mounted at high level to the gear end of the bracket, the motor being complete with controlling limits, brake unit and emergency hand chain facility. A standard starter unit would also be provided with raise, lower and stop buttons. All electrical equipment would be to suit 380/415 volt 3 phase 50-cycles supply (single-phase equipment also available).

**Site Wiring:** Unless otherwise agreed site wiring is to be undertaken by the client. If it is separately agreed we are able to provide on-site wiring should the client wish. This could be effected on the basis that a suitable mains supply would be provided at the starter position and to within one metre of the starter position terminated by an isolator by others (please note that in all instances it is assumed that the starter is positioned on the motor side of the opening, approximately 1.5 metres above finished door level). A Kaiser Doors electrician would site wire from the isolator to the motor starter and controlling limits normally in black PVC conduit to current I.E.E. Regulations, other than where the client provides alternative wiring specifications.

**Warranty:** We warranty all parts free from manufacturer's defects for a period of twelve months from the commissioning date. The warranty also covers call out charges and fitting charges for replacement parts supplied under the warranty. The warranty does not cover repairs due to accidental damage or misuse, fair wear and tear or any loss of use while replacement parts are being supplied or fitted.

**Maintenance:** Most doors are subjected to a certain amount of abuse and everyday wear and therefore it is advisable to identify and correct any faults at an early stage. This ensures trouble free operation and avoids potentially costly repair damage. In accordance with the Supply of Machinery (Safety) Regulations 1992, it is a requirement that the end user of all industrial doors establish a fully documented maintenance regime in accordance with the manufacturer's recommendations. Failure to do so may result in prosecution in the event of an accident. Our Planned Maintenance can help you fulfil your legal requirements and ensure that Health and Safety obligations are met. We will recommend a maintenance programme for your doors relevant to their application, usage, duty, speed of operation and any other relevant local conditions.



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## Various Typical Roller Shutter Configurations

