

Asda Super Store Front of House Roller Shutter Door Specification

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Revised **First Issue**

MANUFACTURING AND INSTALLATION METHODS

All Shutters shall be manufactured in accordance with the current **Industrial, commercial and garage doors and gates. Product standard. Products without fire resistance or smoke control characteristics BS 13421 -1** and all it's supporting standards (see list below). This will allow doors to CE marked which will become a legal requirement in July 2013.

BS 13241 – 1 Supporting Standards

BS 12453 Safety in use of power operated doors. Requirements

BS 12445 Safety in use of power operated doors. Test methods

BS 12606 Mechanical aspects. Requirements

BS 12605 Mechanical aspects. Test methods

BS 12635 Installation and use

Shutters shall be manufactured according to a system which complies with the requirements of **ISO 9001:2000** and which has been certified by an approved external authority.

The process of installation, and any shop fitting required, shall be undertaken by the supplier in a manner that causes minimum disruption to trading. At a new build site shall operate in compliance with the main contractors agreed programme of work and health and safety requirements.

MATERIALS

Aluminium Quality and Finishes

The shutter curtain and guides shall be manufactured using extruded aluminium section to specification **European Union Standard EN755-2 6060 T6**.

The extruded aluminium section specified shall have a tensile strength of **230 Newtons per sq metre**.

Rust prevention shall be ensured by the provision of a passive aluminium oxide film.

The material used shall be capable of accepting a coloured powder coat to an advised **British Standard** or **RAL colour code** specification.

Curtains

Shutter curtains shall be specified as being twin wall lath complete with integral steel anti cut rod every alternate lath. Lath wall thickness to be a minimum of 1.35mm and 66.25mm connection joints . Tolerances to BS 1474. The curtain will be finished of with a purpose made 73.3mm deep aluminium bottom rail section. Bottom rail section to incorporate a reinforcing leg ready to accept retro fit espagnollette locks.

The shutters will have the last lath (50.25mm aluminium top lath section) pinned tangential to the barrel when in the closed position secured by M6 bolts and riveted nuts.

Guides

All shutters supplied shall be held within a single piece 90mm deep aluminium guide section, 4 mm ruling section, 8 mm back plate section. The design of the guides shall allow for the inclusion of sacrificial nylon runners or brush strips to ensure minimum metal to metal contact during operation.

Guides will be attached to the structure via a steel fixing angle. Angle specification BS 4848: Part 4 1986

Security shutters shall be made **lift resistant** to the criminal employment of typically levers, jacks and winches by installing internally mounted, electronically interlocked, bullet locks. All bullets to be suited, supplier to keep a record of key number and barrel details for future repair / replacement.

Endplates

The head plate shall be fixed to the fabric of the building using suitable fixings. The head plate shall be manufactured from mild steel to specification **BS EN 10025 S275JR (1993)**. These fixings shall be determined by the nature and fabric of the building being fixed to.

Mild Steel canopies and fascia to be provided which will be installed using both the endplates and a supporting member provided by others.

Motor Drive Units

Doors up to 350kg in weight shall be operated by 220/240 Volt AC, single phase 50 HZ tube motor. Doors over 350kg shall be operated by a 400 Volt AC Three phase direct drive conventional motor unit.

They shall be built to **protection class IP44** or better and incorporate a built in thermal cut out device.

All electrical equipment must be manufactured and tested to comply with BS 12453 Safety in use of power operated doors, requirements and BS 12445 Safety in use of power operated doors, test methods

The motor drive units shall be capable of lifting and lowering the shutters and shall have a torque rating specified to include appropriate safety margins.

Shutters supplied over doorways must incorporate a suitable anti fall back device, .i.e. safety brake.

Tube motor to have a manual override eyelet at high level.

Direct Drive shutters to have low level handchain overrode and operation.

Shutter Operation

All shutters will be grouped together to operate via one key switch with the exception of the final exit shutter, this will be operated using a remote control fob.

Depending on the store layout two banks of shutters may be required to operate from two key switches

Any main entrance shutters will include electrically equipment to allow the door to drive open in the event of fire alarm.

Maintenance and Warranty

The supplier shall warrant that the security shutters, all component parts including the electric motor and the installation carried out by or on behalf of the supplier shall when installed be free from defects in materials and workmanship providing the doors are maintained as per the manufacturers operating and maintenance manuals.