

# High Speed Insulated Roller Shutter

# 230

Version 4

## Control Panel:

The IP 65 enclosure incorporates open, close and stop buttons with the provision for installing a key switch and/or latching stop button if required. It houses a digital control system which allows for limit switch setting from ground level, has a programmable door maintenance indicator, load monitoring in the open direction, digital display of door status and/or fault diagnosis, and meets the requirements of BS EN 12453.

## Wiring Connection:

The 3 phase, neutral and earth, 16amp 380/440V AC power supply will terminate in a socket within 1 meter of the door control panel agreed position (by others). The press button controls will be mounted at 1.5M FFL at a position to be agreed. The wiring connections between the control panel and the motor will be in braided cable with plug and sockets arrangements to allow for easy site installation. The cable will then be surface clipped.

## Power Supply:

3 phase neutral & earth, 415V 50 Hz 16amp supply terminating in a Euro 5 pin industrial socket position to be agreed by others.

## Motor Drive Unit:

The Safedrive unit has been specially developed for roller shutter doors which are non-spring counter balanced. The drive is provided by hollow shaft keyed drive through the door axle. It has been designed for a long service life and has a built in safety brake device which conforms to all current BSEN industrial and commercial safety standards. The unit also has a built in limit switch and an emergency endless hand chain and engagement chains.

## Roller:

A 140 x 5mm adequate to prevent deflection of less than 400:1 of welded construction steel tube with steel supporting axles on 30mm ball bearings brackets, all non counterbalanced i.e. no springs. The assembly will be prime painted with exception of the axles which will be wax coated.

## Door Curtain:

The door curtain will be made up of approx 85 x 25 double skin interlocking galvanised and plastisol coated steel sections to both the outside and inside face all in plastisol coating (colour to be confirmed). Retained at ends by nylon end locks This lath section will retain an insulating layer which will enable the door curtain to give a thermal insulation value of 0.69w/m.sq.k and an acoustic insulation value reduction of 18D.B. as standard.

## Bottom Rail:

Will be finished by a 75mm rubber seal as detailed on the door drawing which retains the pressure sensitive "Safety edge" system. This is connected via a moving coily cable which goes up and down with the door.

## Door Guides:

Continuous steel angle bolted to the door jamb supporting an 80mm deep guide channel. Channel to have nylon seals down internal edges of the guide mouth. Guides are pre-galvanized prior to rolling and can be optionally powder coated at extra cost to match the door colour.

## Seal at Head:

A brush seal will be provided across the head of the door to seal the opening from outside.



## Optional Roller Box:

The roller box assembly will be made from pre Galvanised sheet steel at a thickness of 0.9mm and folded around the end plate assemblies to form a three sided enclosure and be fixed along a flange provided along its top edge directly to the door support frame. The sections will be joined once with a vertical joggle connection. The hood may be powder coated to match the door colour at extra cost.

## End Plates:

Circa 500mm square shutter steel end plate with steel angle fixing to door frame. The end plates support the weight of the shutter and are fixed through the angles by 4 No. M12 hex bolts. These plates are powder coated( colour to be agreed).

## Safety Photocell:

A single reflective photocell is included which is fixed adjacent to the internal guide section about 1m/ffl.

Freezer option: - The standard photocell is upgraded to a sender/receiver unit which have heated lens, ensuring reliable operation.

## Finishes:

As described in each section either prime painted, plastisol, pre-galvanised or powder coat. Temporary spray coating may be applied to non coated materials for transport.

## Operating Speed:

Between 500mm to 800mm per second.



Speedor Super



Speedor Mini



Speedor Maxi



Speedor Combi



Roller Shutter Fire and/or Security



Automatic Conveyor Door



Machine Guard Automated



High Speed Fire Resistant Conveyor



Fire Shutter to UK or US Standards



## Hart Door Systems Limited

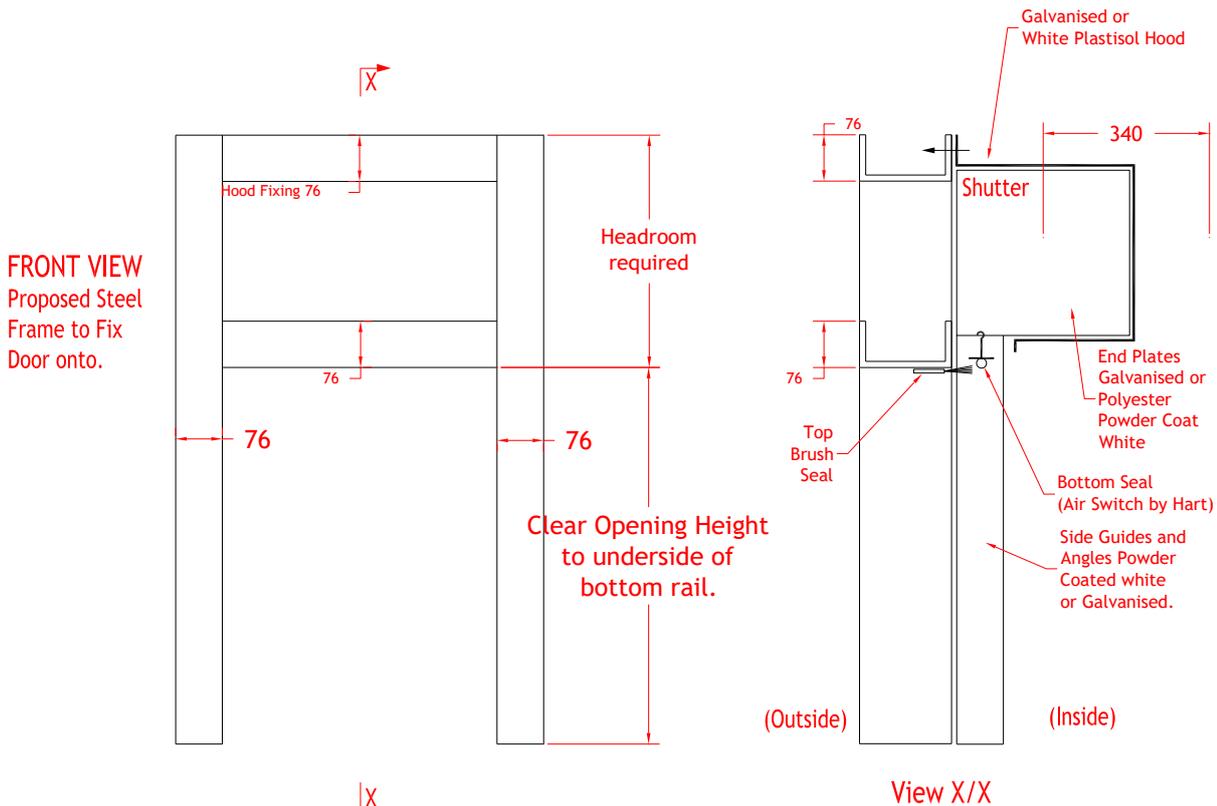
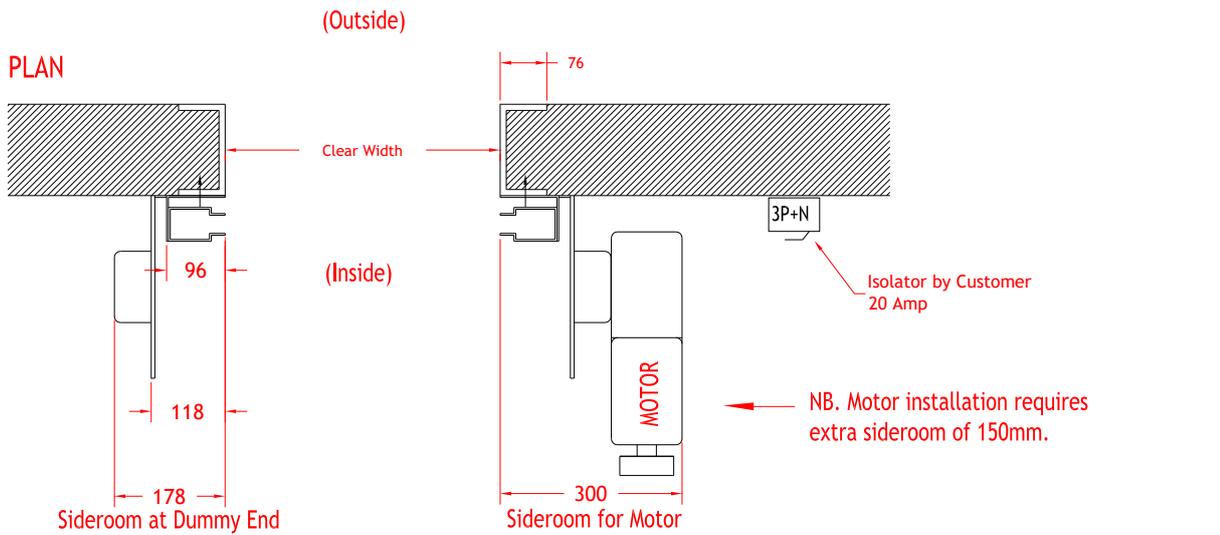
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Typical Steelwork Details



Approx. plastisol coated curtain weight = 21kg/m<sup>2</sup>

