Multisteel Ltd, Multisteel House, 117-119 Brent Terrace, London, NW2 1LL, Tel: 020 8208 8300, Fax: 020 8208 8209

A CLIENTS BRIEF,

New Doors and Screens to be manufactured as per below brief & specification

The Client shall receive new doors and screens that meet the requirements of contemporary Inclusive Design Guidance as BS8300:2009 and the Approved Document to Part M of the Building Regulations

The entire assembly of Doors / Screens and frames shall be constructed and manufactured from the proven steel seamless welded cold rolled sections only, with the doors incorporating the proven European slim line sections. No aluminium, plastic or folded steel sheet materials are acceptable in the construction of these items.
Doors / Screens and frames shall be constructed from high tensile mild steel box and European slim-line cold rolled seamless welded sections.

All fabrication of the steel products must be approved by a coded welder & with the manufacturer capable of producing proven audited trails of inspections & sign offs to meet with British Standards – all information is to be provided in the O&M manuals.
Client reserve the right to inspect the manufacturing premises at any stage of production.
All fabrication, welded joints to be ground to a smooth finish.
All preparation & coating of steels to be documented & certified -
All preparation & coating of steels will comply with Environmental Standard ISO 12944-5:2007 with a minimum of durability grade medium, using the an approved Zero Zinc Primer ZF90017192420. Polyester powder seal and Polyester coat to a single Ral color - all Certificates / documentation is to be provided in the O&M manuals.
The client reserves the right to inspect the manufacturing premises at any stage of production
New doors, screens & frames must have the capability to be site up graded to offer 1hour fire protection upon any future contracted works.

Hinges

Hinges shall be full-length stainless steel type with an anti-nip device; it shall be designed such that fingers cannot be trapped by the opening and closing of the door.
Knuckle of hinge to be a minimum of 12mm & hinge to cater for doubled staggered fixings

Door Closures

These shall be heavy-duty types manufactured by LCN with steel cover and secured by means of anti-vandal type security screws. The opening force, when measured at the leading edge of the door, should be not more than 30 N from 0° (the door in the closed position) to 30° open, and not more than 22.5 N from 30° to 60° of the opening cycle. The opening force should be checked using a plunger-type force measuring instrument.

Where the existing openings allow, all manual closers should be installed to a minimum of 1000mm steel frame headed section so to allow any possible future upgrades to auto openers.
New doors, screens & frames must have the capability to be site up graded to offer 1hour fire protection upon any future contracted works.

Magnetic Lock Releases

2 No. Side fixed Magna locks (Securitron type 32) of which 1 magnet to be monitored with the other magnet non monitored shall be fitted into each door and frame. To be protected by use of full length steel box section / mag lock housing with hidden security screw fixings.
The armature plates shall be flush fitted into each door with the use of metal housing, which is welded into each door leaf, the armature plates secured with the use of an M8 stainless security fixings. Couch bolts are not acceptable.
The door manufacturer shall supply and fit these items.

Hardware

Hardware shall comprise the following: -
A solid stainless steel offset D handle shall be fitted to the opening side of each door. This shall be bolted through each door. The handle shall be 225mm long with the bottom of the handle 1000mm from finished floor level.

The D" pull handle shall conform to the dimensional criteria as described in BS8330 (2009).

i) Stainless steel kick plates and push plates shall be fitted internally and externally to each door. (Grade 304 DP1)

ii) All screws are to be anti-vandal type.

Vision Panels

This shall be minimum thickness of 11.5 mm, Anti vandal laminated glass with a 3mm glazing tape and with a mastic or rubber seal finish to the outer view.
Vision panels shall be secured internally, with individually fabricated steel box cassettes & security steel fixings.

"If to be upgraded to future fire protection, the existing glazing is to be removed & be existing door is to be capable of having fire rated glazing installed along with the existing beads"

Wiring Ways

Adequate wiring ways shall be provided within the frame details. No rough edges shall be present which may damage any wiring installed within the frame etc.

Fixing of Equipment within Screens

All equipment that is to be installed within the frame and screen etc shall be securely fixed. Equipment back boxes shall be screwed into purpose made brackets and lugs etc which shall be welded into the frame and screen. The use of timber battens or packing pieces shall not be permitted.

The Contractor shall supply the necessary back boxes for the door entry equipment (door entry panels, fire override switches, push to exit buttons etc) to specialist door and screen manufacturer who will build these in at the factory prior to attending site for installation.

The drawings show the general arrangements of the doors and screens only. The Contractor will be required to visit the site to determine the exact dimensions and details required.

Entrance Doors

All entrance doors should be a minimum 1030mm clear effective width to allow for wheelchair users and double buggies to enter without difficulty. Where reasonably practical all entrances shall be step free access.

Working Drawings

The Contractor shall provide shop drawings for each door and screen for comment and approval by the Contract Administrator before manufacture.

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Multi steel Ltd. Standard Specification For Communal Doors With Electro Magnetic Locks
(the below specification of doors & frames can be up graded to offer 1 hour fire protection)

1. Main Frame Work

All outer and inner frame work to be manufactured from 100 x 50 x 2 mm steel hollow section, fixed to jamb sides and head with Fisher Hammerfix Type M8 @ 600 mm maximum centres. All joints are welded and ground to a smooth finish.

Inset Screens/Doors

All leaves to be manufactured from 2 mm thick European rolled steel modular sections, all joints to be welded and ground to smooth finish. Door leaf to have a full-length 30 x 3mm flat bar welded to hinge area at 100mm centres. Thus incorporating the finger friendly design.

Magnalock Housing
Magnalock housing to be manufactured from 40 x 60 mm steel hollow section fixed with stainless steel security screws.

Glazing Beads
Glazing beads to be manufactured from 20 x 25 mm steel hollow section, all joints are welded and ground to a smooth finish. All sides fixed using stainless steel pop rivets, fixings inside area only.

Glazing
All glass to be 11.5 mm anti-bandit laminated clear glass with 3 mm glazing tape and Dow corning silicone pointing with the above Multisteel glazing bead.

1. **Ironmongery (Supplied & Prepared for by Multisteel Ltd.)**

Door to compromise of the following:-

- 1 No. 12 mm stainless steel continuous finger friendly hinge. (With staggered fixings)
- 1 No. Stainless steel kick plates internal & external (Grade 304 DP1)
- 1 No. Stainless steel solid pull handle 225 x 22 mm dia.
- 2 No. Push plate (Grade 304 DP1)(Back to back)
- 1 No. LCN 4101 Surface Mount closer
- 2 No. Magna Locks M32/M32C Securitron.

2. **Door Entry - Free Issue (Supplied by others but to be prepared for by Multisteel)**

- 1 No. Fireman's override switch
- 1 No. Push to exit button
- 1 No. Door entry panel

3. **Finish**

All items to **Degrease, Zero Zinc primer ZF90017192420 Metal Sprayed & Polyester Powder Seal & Polyester Powder Coat.**