

# **Specification**

**For**

## **Building 183/203 Lower Ground Floor Rear Fire Escape Opening**

2920

**ENGINEERING SERVICES SPECIFICATION**

**ISSUE 1 TENDER  
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## **1.0 General**

The following clauses set out the engineering scope of works in relation to forming a new opening at lower ground floor rear escape fire stairwell. A new structural opening is to be formed between Building 183 and 203.

The Contractor shall carry out a site survey and take cognisance of all existing services in the vicinity and what is to be retained and/or stripped out and removed from site.

See marked up drawing attached to the rear of this document.

All works shall comply with current IEE Regulations BS5839 and Building Control approval.

On completion test and commission the works and provide signed and dated commissioning certificates for the fire alarm, fire curtain, fixed wiring and emergency lighting.

Provide brief O&M manual with record drawing.

## **2.0 Fire Curtain Controls**

A fire curtain is to be installed at the opening. The fire curtain and controls are to be supplied by Cooper Fire.

Above the fire curtain install a Cooper Fire Mk5 controller.

The controller shall be sited no more than 1metre away from the fire curtain.

Provide an unswitched fused spur adjacent and terminate into the panel.

The spur shall either be fed from a local ring main or from a dedicated radial feed from the Landlords Ltg and Power distribution board located at first floor Building 183. Supply to be run in FP200 and protected via a 6Amp mcb.

## **Operation**

In the event of an alarm activation the electromagnetic brake will de-energise and the Smoke / Fire curtain will immediately deploy to it's Fire Operational Position (FOP).

If there is a mains power failure the Smoke / Fire curtain will be held in the retracted position for 30 minutes under Battery Backup (BBU) before deploying to its Fire Operational Position (FOP). If an alarm activation is received during a mains power failure, the curtain will immediately deploy to its Fire Operational Position (FOP). The Smoke/Fire curtain will descend under total & controlled GFS (Gravity Failsafe).

The Mk 5 controller to come with auxiliary 'standalone' detector mounted on the ceiling either side of the opening.

## **3.0 Fire Alarm Installation**

The Contractor shall install an input/output relay adjacent to the MK5 controller. The controller incorporates a normally closed contact. The relay will open the contact on receipt of a fire signal from the Building Fire Alarm System.

Wiring and devices shall be consistent with the existing house system and be supplied, installed tested and commissioned by the incumbent fire alarm maintenance company IAT. Include for revision of the cause and effect matrix and main fire panel addresses.

## **4.0 Lighting Installation**

The contractor shall remove the existing 2No bulkhead luminaires which are located in the new formed opening. Carefully chase and remove flushed in conduit and install junction boxes at high level. Extend conduit to tow new location on side walls and re-wire by extending the wiring using fixed based or crimped connections.

New luminaires to be LED bulkhead with integral emergency packs. Include for wiring in new permanent live feeds for the emergency packs.

