

# Shoreditch Electric Light Station

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## Power supply overview

Power at Shoreditch Electric Light Station is provided via standard 13A Ring Final Circuits (ring mains) and 3 phase supplies. We strongly recommend that you do not use the ring main for general event use such as lighting, sound & catering equipment. However, should you need to use this please note the following:

1. Power demands of portable items not installed via the 3 phase supply must not exceed the capacity of the circuits available.
2. Before starting work, any electrical **items** used at Shoreditch Electric Light Station must be tested for electrical safety, have a valid test certificate and be in good serviceable condition.
3. Establish the total amount of power you require by adding up the power needed by each item.
4. Assume that each item will be on and running at the same time.
5. **A maximum of 7KW may be drawn from any ring main.** If the total power required exceeds 7 Kilowatts (KW) then any excess power requirements over the 7KW must be sourced from alternative supplies.
6. **Any item with a rated power exceeding 2.5 KW must be supplied with a dedicated circuit** (i.e. have its own supply, independent of the ring main).
7. Alternative supplies are available from 32 A & 63 A, 3 phase outlets throughout the building.
8. If in doubt consult a qualified electrician.
9. Where necessary Shoreditch Electric Light Station can provide a duty electrician to facilitate electrical arrangements that adhere to current regulations and standards. A charge may be made for this service.

**If the maximum power required is under 7KW then you must:**

- Share the load around the ring
- Not plug multiple appliances into one socket outlet
- Not plug any single item exceeding 2.5 KW into the sockets. Alternative supply must be used that is independent of the ring main.

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## Studio overview

### Combustion Chamber

- There are a total of 9 double switched socket outlets located around the combustion chamber on two ring final circuits.
- The MCB's for these circuits are located on distribution board 16, located in the rigging room.
- There are 3 phase power supplies located within the equipment store in The Combustion Chamber for event and show use.
- DB 9 has a 63 A 3 phase supply feeding two 32 A 3 phase outlets. Both have overcurrent and RCD protection (30mA)
- DB 10 has a 63 A 3 phase supply feeding one 63 A and one 32 A, 3 phase outlet. Both have overcurrent protection, however the 32 A supply does not have RCD Protection (Please refer to note 1 for additional information).
- The main breakers for the boards are located in the meter room, located within the physiotherapy room.

### Creation Studio

- There are total of 6 double and two single switched socket outlets located around the creation studio on two ring final circuits.
- The breakers for these circuits are located on Distribution board G1 (DBG1) located in the ground floor Energy Centre meter room.
- There are 3 phase power supplies located in the utility cupboard for event and show use.
- There is one 63 and one 32 A 3 phase supply. Both have overcurrent protection but only the 63 A socket outlet is RCD protected (Please refer to note 1 for additional information).
- The main breaker for this board is on the MDB located in the ground floor Energy Centre meter room - "Creation Dimming supplies".

### Generating Chamber

- There are 8 double switched socket outlets located around the Generating Chamber. The breaker for these sockets is located on DB3, located in the physiotherapy room.
- There are two 32 A 3 phase supplies located at the Fly Bay end of the catwalk.
- The distribution board for these is located in DB8 which is in the Projects Office (1<sup>st</sup> floor).

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## Ground Floor Link Corridor

- There are four double switched socket outlets in the ground floor link corridor.
- The breaker for these is on DB17 located in the utility cupboard on the 1<sup>st</sup> floor link corridor.

## 1st Floor Link Studio

- There are a total 4 double switched socket outlets located on the window side of the upper link corridor.
- The breaker for these is located in DB 17 in the utility cupboard on the same floor.
- There are three 32 A single phase outlets in the utility cupboard.  
These supplies are 30 mA RCD protected, and have “commando” type sockets.  
The breakers for these are in DB17 in the same cupboard

## Top & Middle Studios

- There are 3 double switched socket outlets in each of these studios.
- The breakers for these are located on DB5, which is on the 2<sup>nd</sup> floor corridor.

## Note 1

Where Power supplies are intended for general use by ordinary persons, or in outdoor areas, the distribution equipment must be fitted with Additional protection (i.e 30 mA RCD)

An exception to this is permitted where a documented risk assessment determines that the RCD protection is not necessary , or

for a specific labelled or otherwise suitably identified socket outlet provided for connection of a particular item of equipment.

In both cases, skilled or instructed persons should be consulted.