EQUIPMENT

Useful Reference Points • www.hae.org.uk/businessguard

**Before Starting Work...** 

Check the equipment cables, plugs, sockets and stands. If anything is found damaged, do not use it – contact the hire

Check that the plugs on the cables match the supply. Do not try to force

a special 110v supply. The hire company will have provided a portable transformer Equipment with a cylindrical yellow industrial plug fitted is designed to run off connections or improvise them. rain and water. Keep electrical equipment away from

company.

- paper and cloth to ignite, check that no loose paper or rubbish can be blown into can produce as much heat as a 1kw electric radiant heater and can cause the area heated by the light. materials near floodlights. A floodlight
- they are going to be safe from vehicles, people, water, rain, strong gusts of wind For stand lights, choose an area where should be firm and level. them or knock them over. The ground and other hazards which may damage
- enough and secure. Take care to position lights up and away from where they may get struck by passing vehicles, For lights fixed to buildings or fixtures people or materials being carried. make sure that their support is strong

ELECTRICAL SAFETY - GENERAL

Equipment designed to run directly from 230v mains will have either a normal square pin plug fitted or a blue industrial

Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might become trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.

Make sure that any extension cable connections are dry and safe.

take care not to injure yourself when moving it about - it may be heavier than a normal mains 230v supply. if the equipment requires powering from portable transformer has been supplied

lighting.

The equipment will only operate on one voltage: it will be 110v or 230v. 110v lighting will have a yellow industrial plug littled. 230v lighting will have either a normal square plup plug fitted or a blue industrial plug. Read the instructions

- in all cases, plan cable runs to avoid damage to the cables, and so that the cables themselves do not form a tripping hazard in doorways or walkways.
- In areas where members of the public are allowed, it may be necessary to put barriers around lighting stands to keep people away from the heat and to prevent them tampering with the light.

110 VOLT LIGHTING (YELLOW PLUG)

industrial plug. Read below for the equipment.

If using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension

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Lighting equipment is designed for installation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before

using it.

Please keep this leaflet safely as it may be required for future reference

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6. Lighting equipment must not be installed by minors, or by anyone under the

5. Particular items of equipment or environments may require a higher level

personal protective equipment. influence of drugs or alcohol.

a 230 volt (mains) supply.

Water and electricity make an extremely dangerous combination. Keep electrical equipment away from rain and water. The following items of personal protective equipment are a minimum: rcd if using

Plan each task and try to foresee any problems that may occur so they can be dealt with safely. Electricity is dangerous and must always be used with

great care.

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Check that no combustible material, such as paper or rubbish, is too close to

Before switching off general or festoon lighting, make sure no one is going to be If the lights are left in place for more than a week, then a competent person should If the equipment does not work properly do not attempt to repair it, contact the

put in danger by the drop in lighting levels.

inspect them every week to ensure they are safe.

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Switch off and unplug lights before moving them to a new location. Switch off and unplug before leaving portable lights unattended.

Switch off lights before adjusting their position.

powerful and hot lights. do not use it again.

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**BEFORE using Festoon & Flood Lighting** It is important to read all of this leaflet

Festoon & Flood Lighting

1021 Safety Guidance

For guidance on managing construction health risks go to www.hse.gov.uk/construction

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific fisk assessment.























# (SQUARE PIN OR BLUE PLUG)

1. If 230v is selected for equipment construction sites or sim

environments, the risk of injury or death arising from the use of damaged or faulty equipment leads or plugs is unacceptably high unless special precautions are taken. The precautions

protected against mechanical damage and vibration;

230V EQUIPMENT ON CONSTRUCTION SITES

Make sure that any extension cable connections are dry and safe.

Rcds should be

faults in the light.

Lay it out carefully avoiding liquids, sharp edges, doorways or windows where it may become trapped, and places where vehicles might run over it.

Unroll it fully or it will overheat and could

### If an extension cable is required, follow any special instructions given by the hire company. If the hire company have not given any special



given any special instructions, a suitably rate heavy duty 110v extension cable only should be used, no longer than 50 metres (160 feet). The extension cable must only be used between the transformer and the used between the transformer and the

















required, follow any special instructions given by the hire company. If the hire company have not















# Health and safety authorities consistently recommend 110v systems as the bes

must reduce the risk to an acceptable level.

checked daily by operating the test

as the bes

formal visual inspection; equipment it is supplying during

the

solution for reducing risk from portable, hand-held, and transportable equipment. A risk assessment carried out by the planning supervisor (or other person responsible for health and safety on site) is likely to indicate that risk of electric shock is most effectively controlled by the use of 110v equipment. Some suitable precautions are shown below. Some of these precautions can only be taken by the person responsible for providing the electricity supply on site. Other precautions, however, fall to you, the user.

being damaged by:

likely to be damaged. (e.g. run them at ceiling height inside a building); and/or

positioning them where they are less

Reduce the risk of flexible supply leads

tested every three months by an electrician using appropriate electrical test equipment. Note: the tests should not be carried out on rods at a time when loss of power may adversely affect other work activities.

- Protect people who may receive an electric shock by fitting non-adjustable residual current devices (rcds) with a rated tripping current of 30mA. Rods should be installed either at the distribution board which feeds to mains supply sockets or at the fixed main supply socket. In either of these positions they will provide protection from faults in both the cable and light. Rcds fitted close to the light only protect , Select equipment that is designed for trade and work use. Double insulated equipment is strongly recommended where it is necessary to use a mains voltage supply, because the equipment itself is less likely to give rise to danger. (Danger can still arise, however, if the cables, plugs or equipment casing are damaged). Any restrictions on use set out in the manufacturer's or supplier's instructions should be observed. protecting them inside impact resistant conduit where appropriate; or appropriate; or using special abrasion resistant or armoured flexible supply leads where

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## FESTOON LIGHTS

- Some festion lights have sockets so that strings of lights can be chained together. Do not try to use the socket to provide power to other equipment it is only for connecting another string of lights.
- Do not connect more than four (4) festoon strings together unless the hire

company has given special instructions

High power lights may need to cool before handling.

Open any covers taking care not to lose

any fixing screws or clips.

Ensure no-one will be put in any danger when switching off the lighting. Then, switch off and unplug the light. Do not touch halogen bulbs with bare fingers – this will shorten the life of the bulb.

replace all covers and guards properly and secure any screws or clips. Look away before plugging in and switching on as powerful lights can

When the light bulb has been changed,

Ensure that nobody is staring at a powerful light when it is switched on - the

dazzle can cause temporary blindness.

**Using the Lighting Equipment** 

If a cable appears to be cut or damaged in any way, switch off and unplug at the mains before inspecting it. If the cable attached to a light is damaged, stop using the light. Contact the hire company. If an extension cable has been damaged,

Check that cable runs are being kept safe, and are not causing a hazard.

Make sure that you have the correct replacement bulb ready. Check with the hire company if in any doubt.

CHANGING BULBS