där lighting ltd

LIBRA / OSIS FLUSH IP44
INSTALLATION INSTRUCTIONS
These instructions are provided for your safety.
Please read carefully before commencing work and retain for future reference.

SAFETY INFORMATION

* This fitting should be fitted in accordance with IEE Wiring Regulations and the Building Regulations.
* To prevent electrocution switch off at the mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electricity supply without your knowledge.
* If you are in doubt please consult a qualified electrician.
* To avoid damage to concealed wiring during installation, establish the direction of the supply cable before drilling fixing holes.
* This fitting is Class 1 = $\perp$ and should be fitted to a lighting supply (with earth) protected by a 5 amp fuse or equivalent circuit breaker.
* **NOT** suitable for mounting on normally flammable surfaces.
* Always be sure to use the correct type and wattage of bulbs as indicated on the fitting. Never exceed the wattage stated.
* When changing the bulb, always switch off at the mains and allow the old bulb to cool down before handling. Dispose of used bulbs carefully.

INSTALLATION

1. Ensure the house electricity supply is off at the fuse board.

2. If you are fitting this unit in place of an existing light, you may find that there are more than 3 sets of cables connected within the rose. Before removing existing fitting, carefully note position of each set of cables.

3. This fitting is fully assembled on receipt and must be partly disassembled by removing glass and domed glass, carefully undo 3 thumb nuts then lift off glass, retain all washers & nuts in a safe place for later. Remove domed glass bowl by holding backplate firmly then turn glass counter clockwise.

4. Using backplate as a template, mark and then drill fixing holes in the ceiling, ensure holes are drilled into a joist or solid object and not just the plaster board. **Do not attach fitting to the ceiling at this stage.**

5. Make a small hole in the (orange) rubber boots at rear of backplate then pass supply cable though the hole.

6. Make electrical connections, connections must be made away from the metal parts of fitting.

   Connect the supply live (normally brown or red) to terminal block marked 'L' or brown wire on fitting.
   Connect the supply neutral (normally blue or black) to terminal block 'N' or blue on fitting.
   Connect the supply earth (normally unsheathed or green/yellow) to terminal block marked '$\perp$' on fitting.

   Ensure electrical connections are tight and no loose strands of wire are left out of the connector block.
   Slide the rubber boots over the connector block to provide a watertight seal around terminal block.

7. Fit any excess wires into ceiling void then fix backplate to the ceiling using suitable screws. **Take care not to damage wiring.**

8. Fit bulb, type and wattage as indicated on the fitting. **The wattage indicated must not be exceeded.**

9. Fit domed glass bowl by first aligning slots in glass bowl rim with pins in the backplate then carefully push domed glass into backplate then turn domed glass clockwise until a stop is reached. This should form a good tight seal on the backplate.

10. Offer glass to support pillars fitted to glass and make sure screws protrude then fit silicone washers and secure in place with thumb nuts removed earlier.

11. **Backplate glass replacement**, remove glass assembly on backplate (take care with broken glass) by undoing thumb nuts next to backplate and retain any washers then remove backplate glass by using a screwdriver to undo nylon pegs. Fit replacement glass and follow disassembly process and ensure nylon pegs are firmly screwed into backplate to ensure a good tight seal is maintained.

12. Switch on the electricity supply at the fuse board.
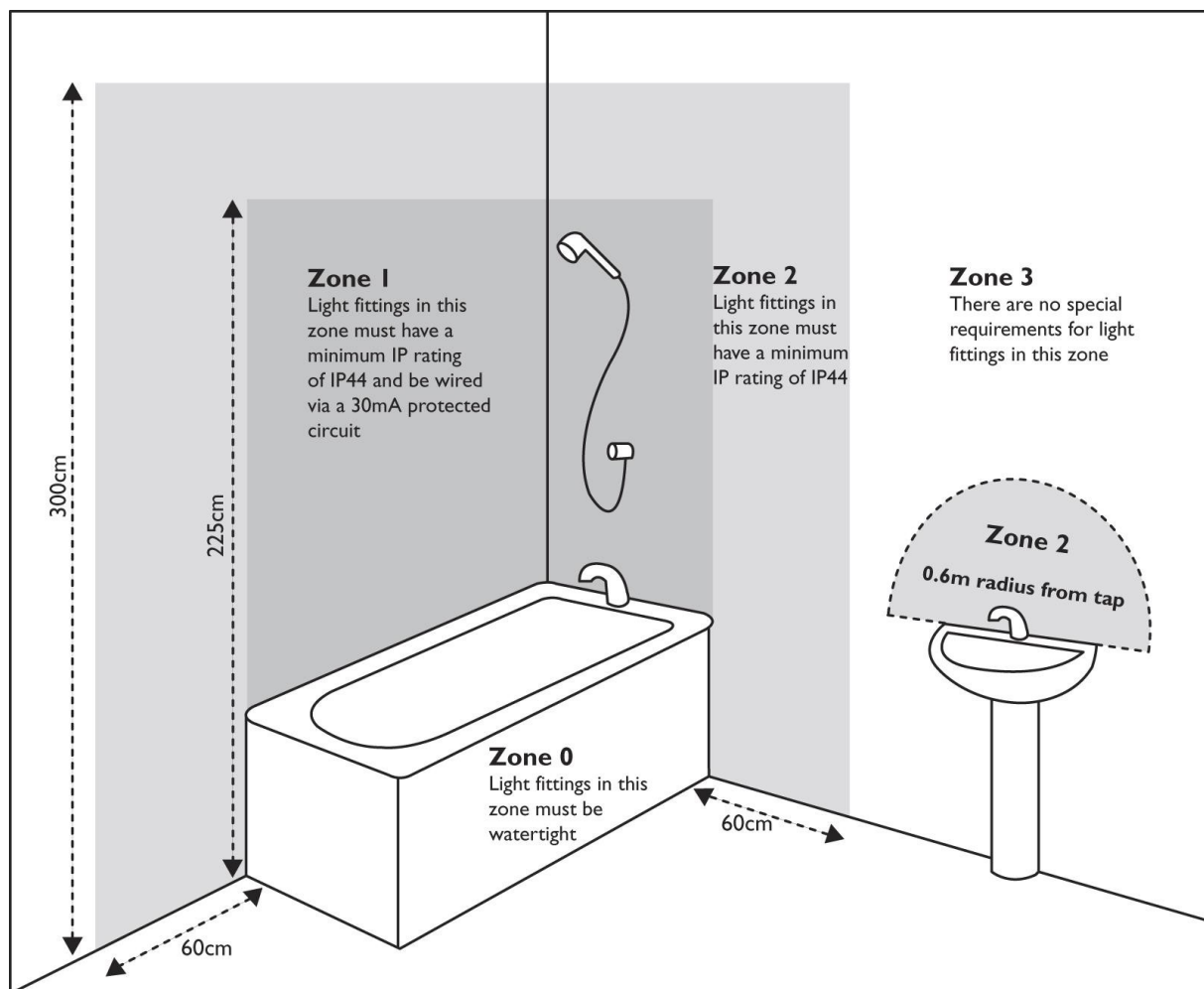
GENERAL INFORMATION
This fitting is designed for internal use only and must be fitted to a DRY SURFACE.

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Do not use polish or abrasive cleaner - just a soft dry cloth.

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Zone 1
Light fittings in this zone must have a minimum IP rating of IP44 and be wired via a 30mA protected circuit

Zone 2
Light fittings in this zone must have a minimum IP rating of IP44

Zone 3
There are no special requirements for light fittings in this zone

Zone 2
0.6m radius from tap

Zone 0
Light fittings in this zone must be watertight

300cm

225cm

60cm

60cm

This light is IP44 making it suitable for Zones 1, 2 and 3

IP44 CONNECTOR BLOCK

The rubber boots on the connector block will provide a watertight seal to IP44 if connected as below.

1. Separate the two halves of the boot by cutting the spur connecting them with scissors or a knife.

2. Cut the ends off the rubber boots with sharp scissors or a knife to reveal a suitable size hole depending on cable being used. The boot must be a tight fit around the insulation of the cable to ensure a watertight seal. It is therefore important not to cut the boots back too far. If you should cut back the boot too far the wire entry can be sealed with silicone mastic after step 8 below.

3. If single strands of cable are being used these can be pushed through the top side wall of the boot through the three depressions. (As shown).

4. Slide each boot backwards over each end of the cables.

5. Cut back the insulation on the wires as shown.

6. Make connections in the connector block ensuring they are tight and no loose strands are left out of the connector block.

7. Slide both boots back along the cable towards the connector block.

8. Push the two halves of the boots together so the arrows on the top of the boot are in line. Fully engage the ribs in order to create a good watertight seal. The halves are fully engaged when the front edge of the outer boot is hard up against the stop on the inner boot.

9. Take care to ensure the two halves of the boot are not pulled apart when the fitting is finally fitted.

1mm to 3mm Dia. Single Strand

3 Depressions

Stop

4mm to 8mm Dia. 3 Core Flex

Outer Boot

Inner Boot

See step 5

18mm

6mm