där
lighting

BARCLAY IP44 FLUSH
INSTALLATION INSTRUCTIONS
These instructions are provided for your safety.
Please read carefully before commencing work and retain for future reference.
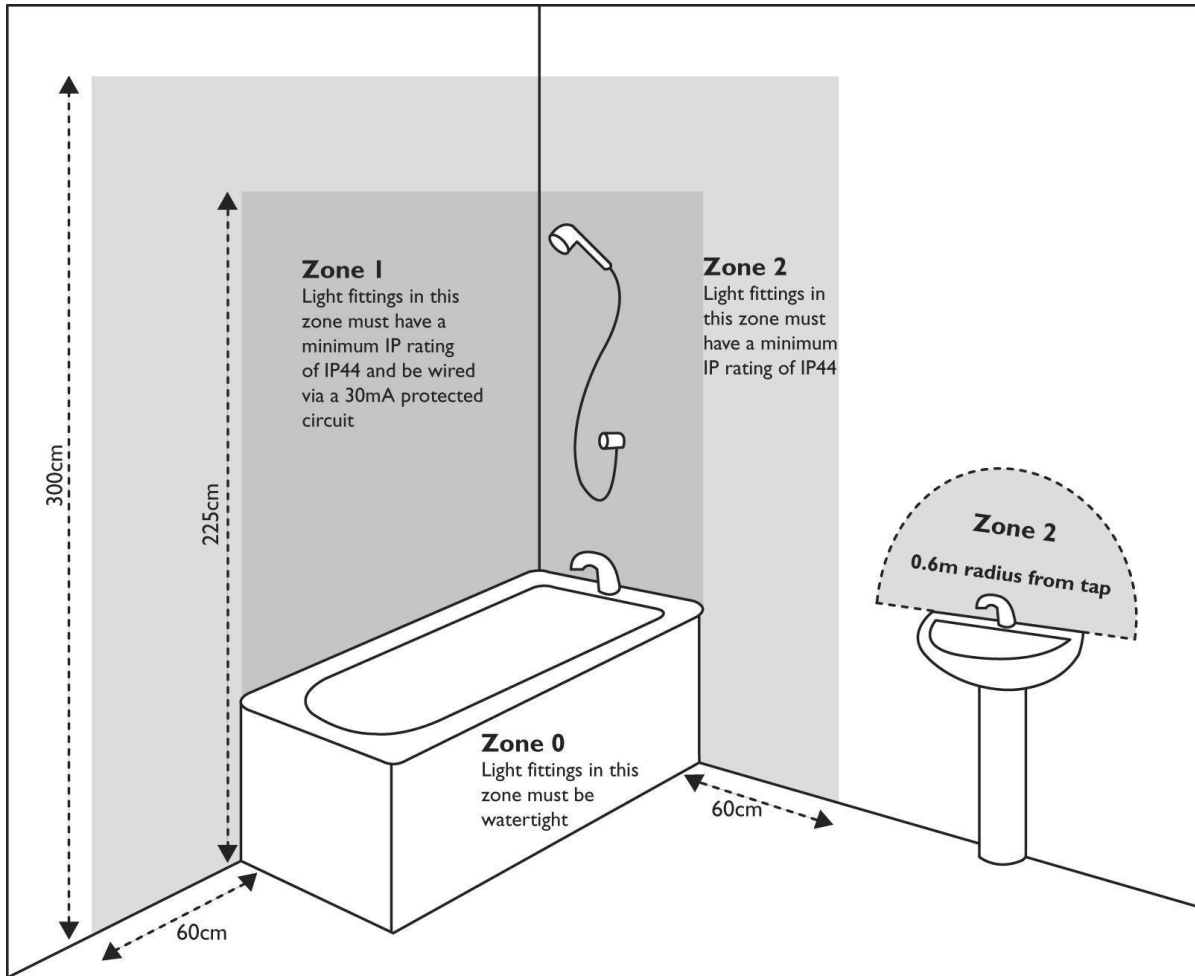
SAFETY INFORMATION

* If you are in any doubt consult a person competent to give advice on the installation of electrical equipment.

* This fitting should be fitted in accordance with current IEE Wiring Regulations and Building Regulations.

* This fitting is rated IP44 and is suitable for use in Zones 1& 2 of a bathroom when fitted in accordance with IEE wiring regulations (see diagram). Product should be connected to a supply protected by a 30mA RCD when installed in a bathroom.

* 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.

* To avoid damage to concealed wiring during installation, establish the direction of the supply cable before drilling fixing holes.

* This fitting is Class I = $\perp$ and should be fitted to a lighting supply (with earth) protected by a 5 amp fuse or equivalent circuit breaker.

* 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 product in place of an existing one, you may find that there are more than 3 sets of cables connected. If there are loop in cables that are not connected to the light these must be terminated in a separate terminal block not connected to the fitting.

3. Remove the glass from fitting by rotating the glass anti clockwise.

4. Using the backplate of the fitting as a template, mark and drill fixing holes in the ceiling. Ensure the holes are drilled into a joist or other suitable mounting and not just into plaster.

5. To ensure water cannot affect the connection the orange rubber connector cover must be used to ensure IP44 requirements. This connector must be housed within the ceiling void. **Note:** See detailed instruction on back page for how to correctly use the rubber boot to ensure water tightness.

6. The weight of the fitting must be supported whilst making the electrical connections make connections as follows:
    Connect supply live (normally brown or red) to terminal block marked 'L' on fitting.
    Connect supply neutral (normally blue or black) to terminal block marked 'N' on the fitting.
    Connect the earth (normally green/yellow or unsheathed) to terminal block marked '$\perp$' on the fitting.
    NOTE: Ensure electrical connections are tight and no loose strands of wire are left out of the connector block. Close terminal block by pushing rubber cover back together ensuring a good seal

7. Fix the backplate to the holes made earlier using suitable fixings.

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

9. Fit the glass shade: Align the grooves in the glass with the pegs on the backplate. Push the glass upwards while rotating clockwise to get a good secure fit. Do not over tighten as damage may occur.

10. 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 as any dampness in plaster or paint can damage the finish. **Do not use polish or abrasive cleaner - just a soft dry cloth.**

där lighting

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 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 and 2

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