

## Bathroom Lighting regulations and zonal information

- All installations must comply to guidelines based on the zonal requirements
- These regulations apply to domestic installations only.
- It is recommended that all electrical work carried out is done by a suitably qualified electrician in accordance with the current IEE wiring regulations (17th Edition).

Bathroom Lights are classified using an IP (Ingress Protection) rating. The IP characters are followed by 2 numbers which refer to the level of protection against ingress of foreign bodies (1st number), and protection against the ingress of liquids (2nd number)

**Zone 0**—is inside the bath or shower. Any fitting used in this zone must be low voltage (max 12v) and be rated at least IP67 (immersion proof).

**Zone 1**—is an area above the bath to a height of 2.25m from the floor. In this zone a minimum rating of IPX4 is required

**Zone 2**—is an area stretching 0.6m outside the perimeter of the bath and to a height of 2.25m from the floor. In this zone a minimum of IPX4 is required. Around a wash basin, a radius within 60cm is considered as zone 2.

**Outside Zones**—has no special requirements unless water jets are likely to be used for cleaning purposes.

**All zones**—any electrical circuits in a bathroom must be protected by a 30mA Residual Current Device (RCD). Electrical equipment exposed to water jets for cleaning purposes must be at least IPX5.

First digit—Solids						
0	1	2	3	4	5	6
No protection	Protected against touch by hand (50mm)	Protected against touch by fingers (12mm)	Protected against tools and wires (2.5mm)	Protected against tools and small wired (1mm)	Limited dust ingress protection	Total dust ingress protection

Second digit—Liquids								
0	1	2	3	4	5	6	7	8
No protection	Protection against condensation	Protection against water spray 15 degree from the vertical	Protection against water spray 60 degree from the vertical	Protection against water spray from any direction	Protection against low pressure water jets from any direction	Protection against high pressure water jets from any direction	Protection against immersion between 15cm and 1m depth	Protection against long term immersion under pressure

