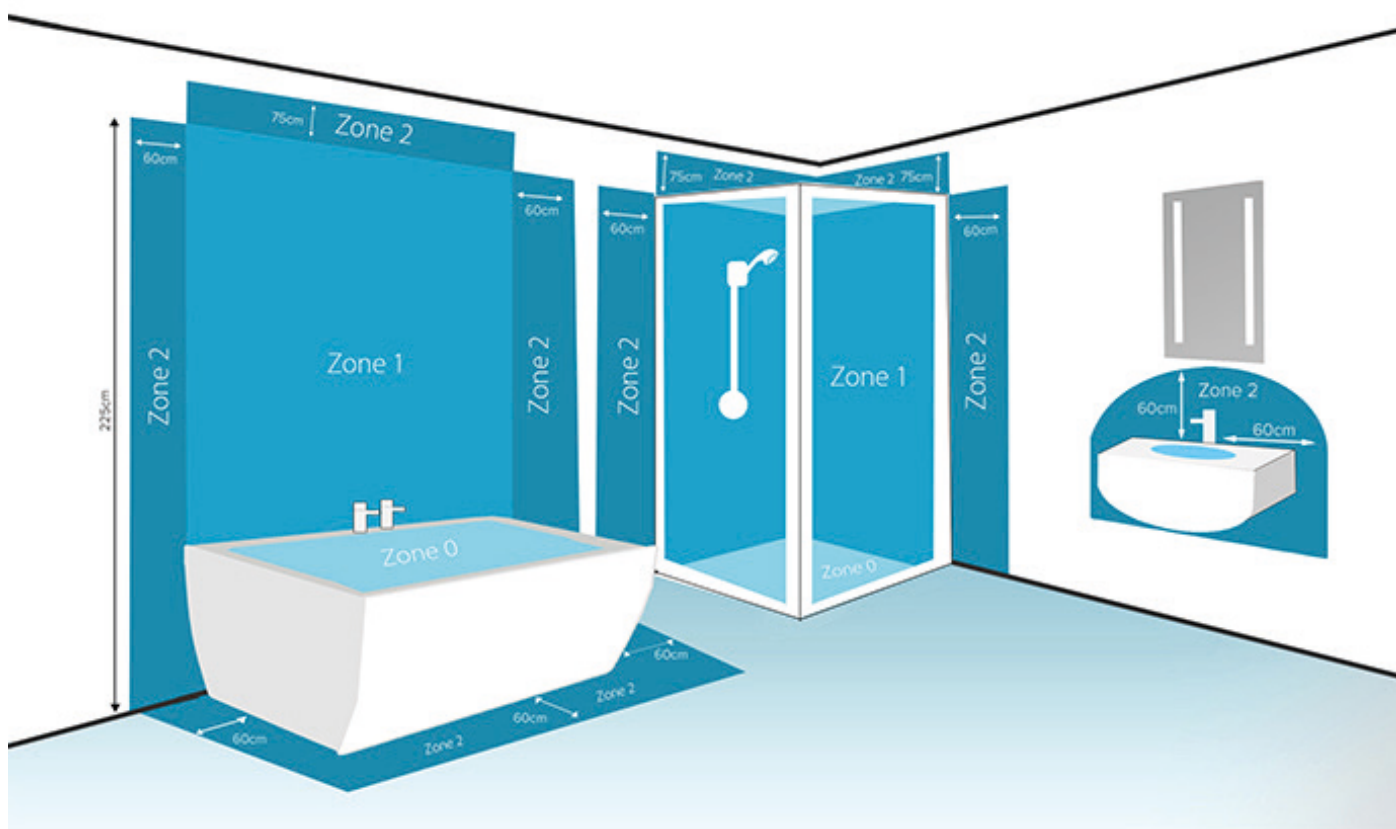


Equipment for Bathrooms

Electrical equipment may be identified as having a certain level of mechanical and moisture protection, these are quoted as 'Ingress Protection' (or IP) numbers – such as 'IPXY' where X and Y are numbers. The X showing the level of mechanical protection, and Y showing the level of moisture protection. In both cases the higher the number, the better the protection. If a piece of equipment does not have an IP number, it must not be used in zones 0, 1, 2, or elsewhere that has a wet/damp environment. Standard electrical wall fittings [such as sockets, flexible cord outlets, and fused switches etc.] are not IP rated so cannot be installed within zones 0, 1, or 2. No standard socket outlets are allowed within 3m of the outer limit of zone 1, and any socket fitted would be on a RCD protected circuit. As well as IP numbers, items may be classed as Protective Extra-Low Voltage [PELV] or Safety Extra-Low Voltage [SELV]. A PELV system uses low voltage but is connected to earth. An SELV system is a low voltage system but the output is isolated from the input.

NOTE: Please check with your electrician for the latest regulations



0

Inside the bath or shower. Must have a minimum rating of IP67 and must be low voltage (12V max).

1

225cm above the bath or shower. Minimum rating of IP44. If the fitting is 240V a 30 ma RCD must also be used to protect the circuit in this zone.

2

The area stretching to 60cm outside the bath or shower and 60cm from water outlet of sink. An IP rating of at least IP44 is required.

Use of Equipment

Any electrical item approved for use in a particular zone may be used in a higher numbered zone, but not in a lower one. All electrical circuits within bathrooms must be protected by Residual Current Devices [RCD] not exceeding 30mA. This applies to all electrical equipment whether it is controlled by a switch in the bathroom or remotely switched

Zone Description Table

Zone	Description	Notes
Zone 0	The interior of the bath or shower which can hold water	Requires electrical products to be low voltage (max. 12 volts) and be IPX7 (the mechanical protection is unimportant)
Zone 1	The area directly above zone 0 limited vertically to 2.25m above the bottom of the bath or shower. Also 1.2m horizontally from the centre of a shower outlet to the height of the outlet or 2.25m whichever is the higher.	Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond zone 2. If the fitting is 240v, a 30mA RCD must be used to protect the circuit
Zone 2	The area beyond zones 0 and 1, 0.6m horizontally and up to 2.25m vertically. Zone 2 also included any window with a sill next to the bath	Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond zone 2. If the fitting is 240v, a 30mA RCD must be used to protect the circuit
Further than Zone 2	-	When the size of bathroom extends beyond zone 2, portable equipment is allowed, however they should be positioned such that their flex length does not enable them to be used in zone 2.



HEAD OFFICE AND FACTORY
Aquavision
Grosvenor Business Park, Horsfield Way,
Stockport, Cheshire, SK6 2SU
United Kingdom

 www.aquavision.tv
 sales@aquavision.tv
 +44 [0]161 711 1900

