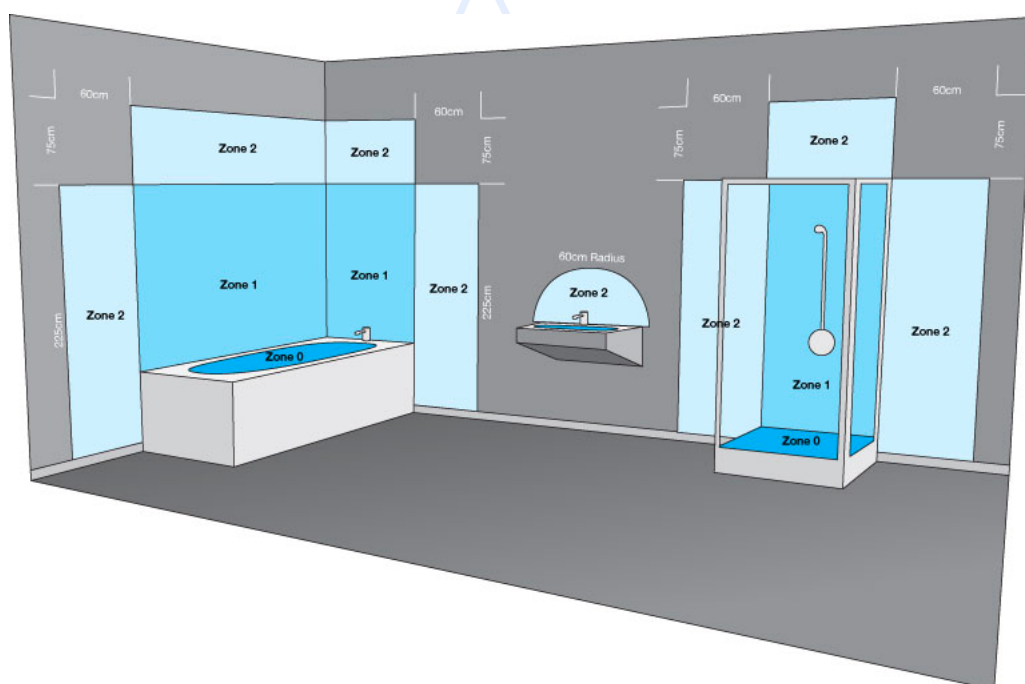


# Bathroom Regulations

Note: PLEASE CHECK WITH YOUR ELECTRICIAN FOR THE LATEST REGULATIONS

## 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 [see across for zone diagram]. For more information, see table on next page. 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.



*Typical electrical items which are marked with IP numbers include Extractor fans, Heaters, Electrical Shower Units etc.*

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.

## 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	Product
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)	16" only with the transformer in Zone 3 or beyond
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	All sizes.
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	All sizes.
		When the size of bathroom extends beyond zone 2, portable equipment is allowed, however they should be positioned such that that their flex length does not enable them to be used in zone 2.	All sizes.



### HEAD OFFICE AND FACTORY

Aquavision  
 Unit 7 Riverpark, Billet Lane  
 Berkhamstead, Hertfordshire  
 HP4 1HL  
 United Kingdom  
 +44 [0]1442 872665

### AMERICAN OFFICE

Aquavision, Inc.  
 #197  
 5 Southside Drive, Suite 11  
 Clifton Park, NY 12065  
 America  
 +1 800 524 1804



sales@aquavision.tv  
 sales@aquavision.us

www.aquavision.tv  
 www.aquavision.us