TECHNICAL INFORMATION

IP BATING AND BATHROOM ZONING

WHAT IS ID DATING?

The resistance offered by the fixture to the penetration of solids and liquids is indicated by the IP (Ingress Protection) rating. This is a two digit number, the first number identifies the degree of protection against the ingress of solids and the second number against liquids e.g. IP65 indicates total protection against dust and protection against low pressure iets of water.

First Digit

Protection against solids

0 No protection

- 1 Protected against solid objects greater than 50mm le.g. accidental contact with the hand)
- 2 Protected against solid objects greater than 12mm le.g. accidental contact with finger
- 3 Protected against solid objects greater than 2.5mm (e.g. tools and wires)
- 4 Protected against solid objects greater than 1mm (e.g. fine tools and wires)
- 5 Protected against dust
- 6 Total protection from dust

Protection against liquids

0 No protection

Second Digit

- 1 Protection against vertical water drops (e.g. condensation)
- 2 Protection against direct sprays of water, up to 15° from vertical
- 3 Protection against direct sprays of water, up to 60° from vertical
- 4 Protection against water spray from all directions
- 5 Protection against low pressure jets of water from all directions
- 6 Protection against jets of water of similar force to heavy seas
- 7 Protection against immersion hetween 15-100cm
- 8 Protection against submersion

BATHROOM TONES

Zone 0.

Is the area inside the bath or shower basin. A minimum rating of IPX7 is required (protection against immersion in water) and only SELV (max 12v AC) equipment may be used in this zone

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Is the area directly above Zone 0 to a height of 2.25m above finished floor level or the top of the highest fixed water outlet, whichever is higher. A minimum of IPX4 is needed in this zone. If there is a possibility of water jets then IPX5 is required, 17th edition IEC regulations allow for the use of certain 240v electrical equipment in zones 1 and 2 if controlled by the appropriate RCD.

Zone 2:

Is the area 60mm external to zone 1 and to a height of 2.25m above fixed floor level or the top highest fixed water outlet, whichever is higher. A minimum of IPX4 is needed in this zone. If there is a possibility of water jets then IPX5 is required. 17th edition IEC regulations allow for the use of certain 240v electrical equipment in zones 1 and 2 if controlled by the appropriate RCD.

Zone 3 is no longer used. There is no minimum IP rating area external to zones 0 1 and 2

