

# R & S Robertson

## IP Rating Guide



## What is an IP Rating?

An IP rating consists of two digits. The first digit represents protection against the ingress of solid objects i.e. dust. The second digit represents protection against the ingress of liquids i.e. water. The higher the value of either digit, the greater the protection.

0	no protection	0	no protection
1	protection against contact with objects larger than 5 cm, such as a hand	1	protection against vertical drops
2	protection against contact with objects larger than 1.25 cm, such as a finger	2	protection against drops at an angle of up to 15°
3	protection against contact with objects larger than 2.5 mm, such as a wire	3	protection against splash water * at an angle of up to 60°
4	protection against contact with objects larger than 1 mm	4	protection against splash water from every angle
5	fairly dust-free	5	protection against spray water ** from every angle
6	100% dust resistant	6	protection against powerful spray water and waves
		7	temporary protection against immersion (30 min)
		8	complete protection against immersion
IP		6	5
Ingress Protection	100% dust resistant	protection against spray water ** from every angle	

\* splash water = protected against splashing water, for example rain

\*\* spray water = protected against water jets, for example from the shower

## What is a Bathroom Zone?

Bathroom electrical zones define the areas where different levels of protection (IP ratings) are required to ensure safety. Zone 0 is inside baths or showers, Zone 1 is directly above them, Zone 2 is around them, and areas outside these zones are considered safe for general use.



### Zone 0

The interior of a bath or shower tray itself, luminaires must be rated at least IP67 (protection against immersion).

### Zone 1

The area directly above Zone 0, up to 2.25 metres from the floor, requires at least IP44 (protection against splashing water), or IP65 if exposed to direct water jets.

### Zone 2

The area extending 0.6 metres horizontally beyond Zone 1 and 2.25 metres from the floor, including around basins, requires at least IP44.

### Outside Zones

Any area beyond Zones 0, 1, and 2 where no direct water contact is likely, no special IP rating is required unless specified by the environment.



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