## zangra

## **Ingress Protection (IP)**

The IP rating system uses a 2-digit system to define its protection rating for all products. The first digit represents protection against solids and the second against liquids.

| solids |  |        | liquids |   |    |
|--------|--|--------|---------|---|----|
| 0      | No protection.   |        | 0       | No protection.  |    |
| 1      | Protected against a solid object greater than 50 mm such as a hand.                                    |        | 1       | Protected against vertical falling drops of water. Limited ingress permitted.   |    |
| 2      | Protected against a solid object greater than 12.5 mm such as a finger.                                |        | 2       | Protected against vertical falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted | d. |
| 3      | Protected against a solid object greater than 2.5 mm such as a screwdriver.                            | 2,5 mm | 3       | Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted.                                      |    |
| 4      | Protected against a solid object greater than 1 mm such as a wire.                                     | 1 mm   | 4       | Protected against water splashes from all directions. Limited ingress permitted.  |    |
| 5      | Dust protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. |        | 5       | Protected against jets of water Limited ingress permitted.  |    |
| 6      | Dust tight. No ingress of dust   |        | 6       | Protected against powerful jets of water. Limited ingress permitted   |    |
|        | IDGA   |        | 7       | Waterlight against the effects of immersion in water between 15cm and 1m for 30 minutes.  |    |
|        | IP64   |        | 8       | Waterlight against the effects of immersion in water under pressure for long periods.   |    |

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## **Ingress Protection (IP)**

These IP Ratings are then categorised into four zones, so when you are planning a change to the lighting in your bathroom, you should be looking for the correct zone for where you would like to place the light. Each zone has a different minimum rating of IP you can place in it, and this is dependent on how near or far it is from a source of water.



