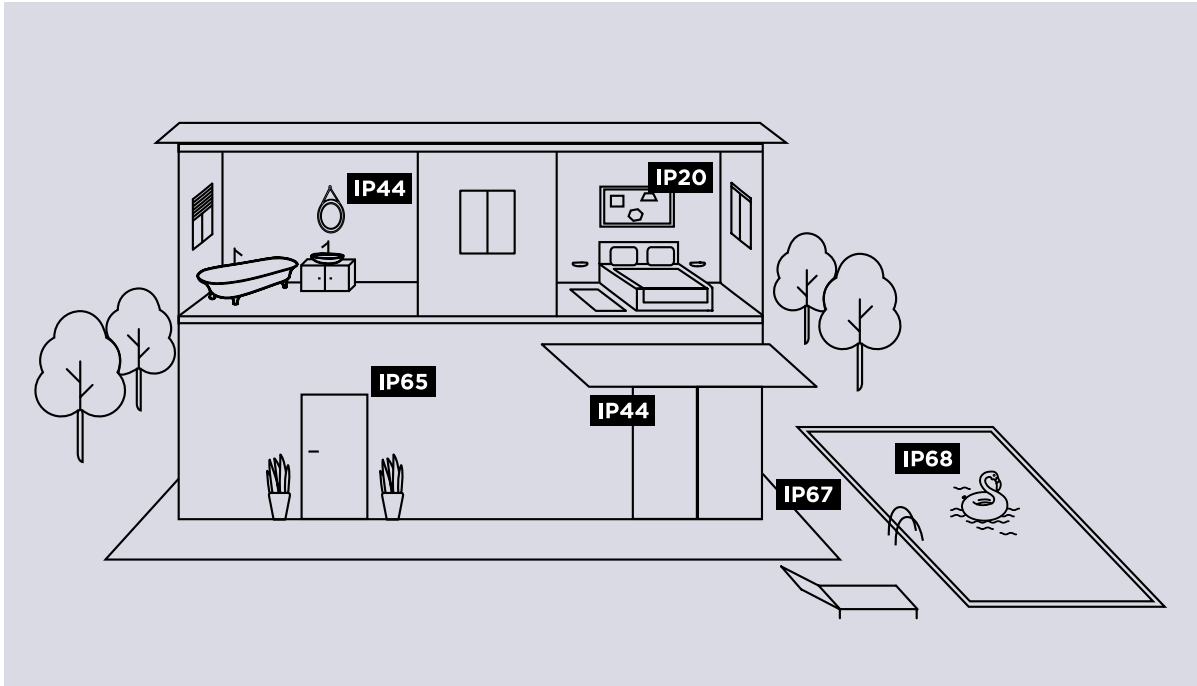









# Good to *know*



## First digit

Protection against dust










*Schutz gegen Festkörper*

- |  |  |
|--|--|
| <p><b>0</b>  No protection<br/><i>Kein Schutz</i></p> <p><b>2</b>  Protected against solid objects greater 12 mm Ø<br/><i>Geschützt vor festen Gegenständen über 12 mm Ø</i></p> <p><b>4</b>  Protected against solid objects greater than 1.0 mm Ø<br/><i>Geschützt vor festen Gegenständen über 1,0 mm Ø</i></p> <p><b>6</b>  Dust tight<br/><i>Staubdicht</i></p> | <p><b>1</b>  Protected against solid objects greater than 50 mm Ø<br/><i>Geschützt vor festen Gegenständen über 50 mm Ø</i></p> <p><b>3</b>  Protected against solid objects over 2.5mm Ø<br/><i>Geschützt vor festen Gegenständen über 2,5mm Ø</i></p> <p><b>5</b>  Dust protected<br/><i>Staubgeschützt</i></p> |
|--|--|

## Second digit

Protection against water

*Schutz gegen Flüssigkeiten*

- |  |   |
|--|---|
| <p><b>0</b>  No protection<br/><i>Kein Wasserschutz</i></p> <p><b>2</b>  Protected against dripping water (tilted up to 15°)<br/><i>Geschützt vor schräg fallendem Tropfwasser (bis 15°)</i></p> <p><b>4</b>  Protected against splashing water from all directions<br/><i>Geschützt vor Spritzwasser aus allen Richtungen</i></p> <p><b>6</b>  Protected against strong water jets<br/><i>Geschützt vor starkem Strahlwasser</i></p> <p><b>8</b>  Protected against submersion<br/><i>Geschützt vor eindringendem Wasser beim Untertauchen</i></p> | <p><b>1</b>  Protected against vertically dripping water<br/><i>Geschützt vor senkrecht fallendem Tropfwasser</i></p> <p><b>3</b>  Protected against spray water<br/><i>Geschützt vor Sprühwasser</i></p> <p><b>5</b>  Protected against water jets<br/><i>Geschützt vor Strahlwasser</i></p> <p><b>7</b>  Protected against penetrating water during short-term immersion<br/><i>Geschützt vor eindringendem Wasser beim kurzzeitigen Eintauchen</i></p> |
|--|---|

# Good to *know*



## GENERAL REMARK

- We advise to have the lighting devices installed only by a qualified electrician.
- In case the area is cleaned with water jets, then a minimum of IPX5 is required.
- Informative: according to the International Electrotechnical Commission [IEC]:
  - IPX1 = drip-proof luminaires
  - IPX6 = powerful water jet-proof luminaires
  - IPX3 = rain-proof luminaires
  - IPX7 = watertight luminaires
  - IPX4 = splash-proof luminaires
  - IPX8 = pressure watertight luminaires
  - IPX5 = jet-proof luminaires

Below is an indication of which IP rates are applicable for which bathroom zones. Please double check and follow local regulations.

### ZONE 0

IPX7 upwards

Inside the shower, all fixtures must be SELV (Security Extra Low Voltage) 12V AC or 30V DC and at least IPX7.

### ZONE 1

IPX4 upwards

Only use lighting of minimum IPX4 with a voltage according to SELV that translates 25V AC or 60V DC. In case powerful water jets are used, a minimum of IPX5 must be used.

### ZONE 2

IPX4 upwards

Only use lighting of minimum IPX4 in the area not closer than 60 cm width and 225 cm height next to the shower and/or bathtub. IPX4 is sufficient on condition that a direct water jet cannot make contact with the lighting device. If water jets are used, then a minimum of IPX5 must be used.

### ZONE 3

IPX3 upwards  
IPX1 if no contact with steam or water

Outside of zones 1 and 2; in case it is exempted that the lighting device is touched by water or steam, an IPX1 classification is sufficient.