

Standards &

direct burial luminaires

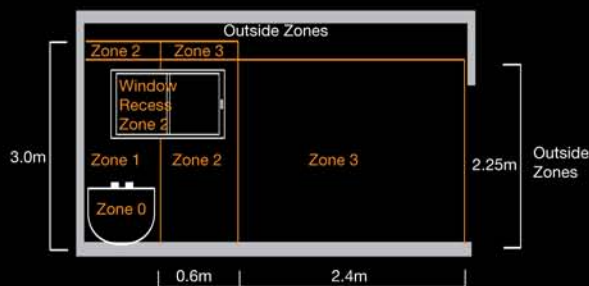
EN60598-2-13:2006 offers various qualified standards which should govern good installation practice for direct burial luminaires – in particular on top temperature limits, protrusion dimensions above ground level and resistance to static loads. These vary according to their function and degree of public accessibility. The following table sets out these recommended standards.

Intended Usage in Public Access	Max Temp in °C	Max Height above ground in mm	Static Load in kg
1. Normally non-accessible areas	Normal Wiring Regulations apply	No specified limit	No specified limit
2. Restricted accessible areas (e.g. pedestrian and cycles only)	100	0-5 (25 for non-pedestrian access)	500
3. All accessible areas (e.g. carriageways, parking etc.)	65 (metal) 80 (glass)	75 (with slope top + chamfer edge)	2000
4. As above but with areas where snow-ploughs and de-icing agents are used	65 (metal) 80 (glass)	0-5 (25 for non-pedestrian access)	2000
5. Special areas with children sensitive to burning (e.g. pools, nurseries etc.)	40	0-5 (25 for non-pedestrian access)	500

Regulations

bathrooms & other wet areas

Areas within bathrooms, showers and other wet areas require particular Ingress Protection (IP) ratings for light fittings, depending on precisely where they are located. The drawing shows the various Zones which are covered.



Zone 0

This is the area inside the bath or shower – fittings used here should be rated **IPX7**.

Zone 1

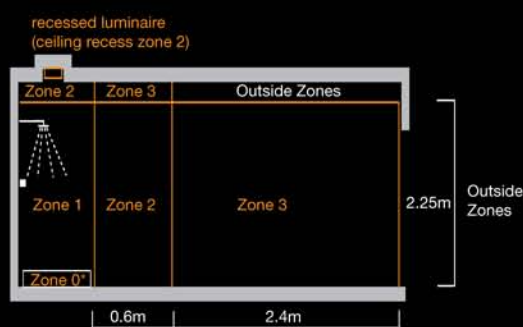
This refers to the area above the bath or shower up to a height of 2.25 metres – fittings here should have a minimum rating of **IPX4**.

Zone 2

This covers an area 0.6 metres wide, immediately next to, and all around zone 1, plus the area above 2.25 metres over the bath or shower. Wash basins should be treated as Zone 2. The minimum rating here is **IPX4**. Where water jets are likely to be used for cleaning purposes in Zones 1 & 2, the rating is minimum **IPX5**.

Zone 3

This area has no special requirements, unless water jets are likely to be used for cleaning purposes. Equipment installed outside zones 0, 1, 2 & 3 must be suitable for the conditions most likely to prevail at that particular point.



* Zone 1 if space accessible without the use of tools. Under bath spaces, accessible only with the use of a tool are Outside Zones

