

Datasheet

verticalis150 plus / verticalis150 duo



SELF-SUFFICIENT SOLAR LED STREET LAMP

APPLICATION

The verticalis150 plus stands out for its exceptional, cubic and modern design and guarantees a secure supply in all different climate zones. The verticalis150plus solar light is a solar powered LED street lamp, which is used in regions without electrical infrastructure or in which it would not be economically feasible to implement one. The luminaire is especially used in areas that demand a secure supply and excellent light quality even in dim conditions.

The verticalis150 plus is able to generate sufficient energy via the diffuse light component in regions with poor weather (snow, fog, etc.) due to the cubic aluminium construction with 4 photinus high performance photovoltaic modules. Arrangement of the solar modules: 2 solar modules aiming south, 1 module aiming west, 1 module aiming east

The vertically arranged modules prevent snow from accumulating on it in winter. A sophisticated energy management system guarantees secure functionality over several nights even in poor weather conditions. The verticalis150 plus is best suited for residential streets, side streets, cycle routes and footpaths as well as car parks etc. in accordance with DIN EN13201 due to its light output.

OPERATION

The integrated battery is charged via 4 photinus high performance photovoltaic modules and powers efficiently the LED array during the night.

OPTIONS

Anthracite is our standard colour for the verticalis150 plus. Nevertheless, the luminaire can be ordered in all RAL colours for large projects and at an additional charge.

GUARANTEE

5 years

The warranty of the solar illumination is provided, as far as the illumination is installed like described in the installation instructions. The warranty is void, if the product settings haven't been changed by photinus authorized employees/partners and/or using non-photinus approved tools.

Technical data

| SOLAR LIGHT | verticalis 150 plus / verticalis 150 duo plus |
|--|--|
| SOLAR MODULES | |
| Solar modules | Monocrystalline silicon cells with exeptional efficiency specially processed by photinus. |
| Efficiency | 22,6% |
| Max. performance of the energy column Pmpp | 160 Wp / 4 solar modules, they are also charged up in cloudy conditions. (2 modules aiming south, 1 module aiming west, 1 module aiming east) |
| Protection class | IK06 |
| BATTERY IN THE POLE | |
| Battery | LiFeP04 / 474 Wh (12,8 V 37Ah) |
| Operating temperature | -20°C to +60°C |
| Life of battery | >10 years |
| Protection class | IPX8 |
| LIGHTS | |
| Max. luminous flux | Depending on the time program and the location of the light. |
| Max. Efficiency | up to 200lm/W |
| LED module / max. watts | 100 W |
| Colour temperature | 3000K (By request changeable: Amber Light, 2200K, 2700K, 4000K, 5000K) |
| Life of LED | >100 000 h (L80) |
| Protection class | IP 67 |
| MATERIALS | |
| Pole | galvanised steel |
| Metal parts | powder-coated aluminium „Sparkling iron effect dark“ |

Technical changes reserved!

Technical data

| DIMENSIONS | |
|---|---|
| Total height from ground level | 4900 mm |
| Height of light from ground level | 4800 mm |
| Height of vandalism protection (in the east and west) | 3300 mm |
| Height of energy column (in the east and west) | 1500 mm |
| Height of energy column (in the south) | 2700 mm |
| Total length of pole | 5800 mm |
| Length of pole under ground | 1000 mm |
| Total weight of solar light | 110 kg |
| Wind load | windload 2 to 27 m/sec Terrain category 2 |

Salt spray test (ISO 9227:2012)

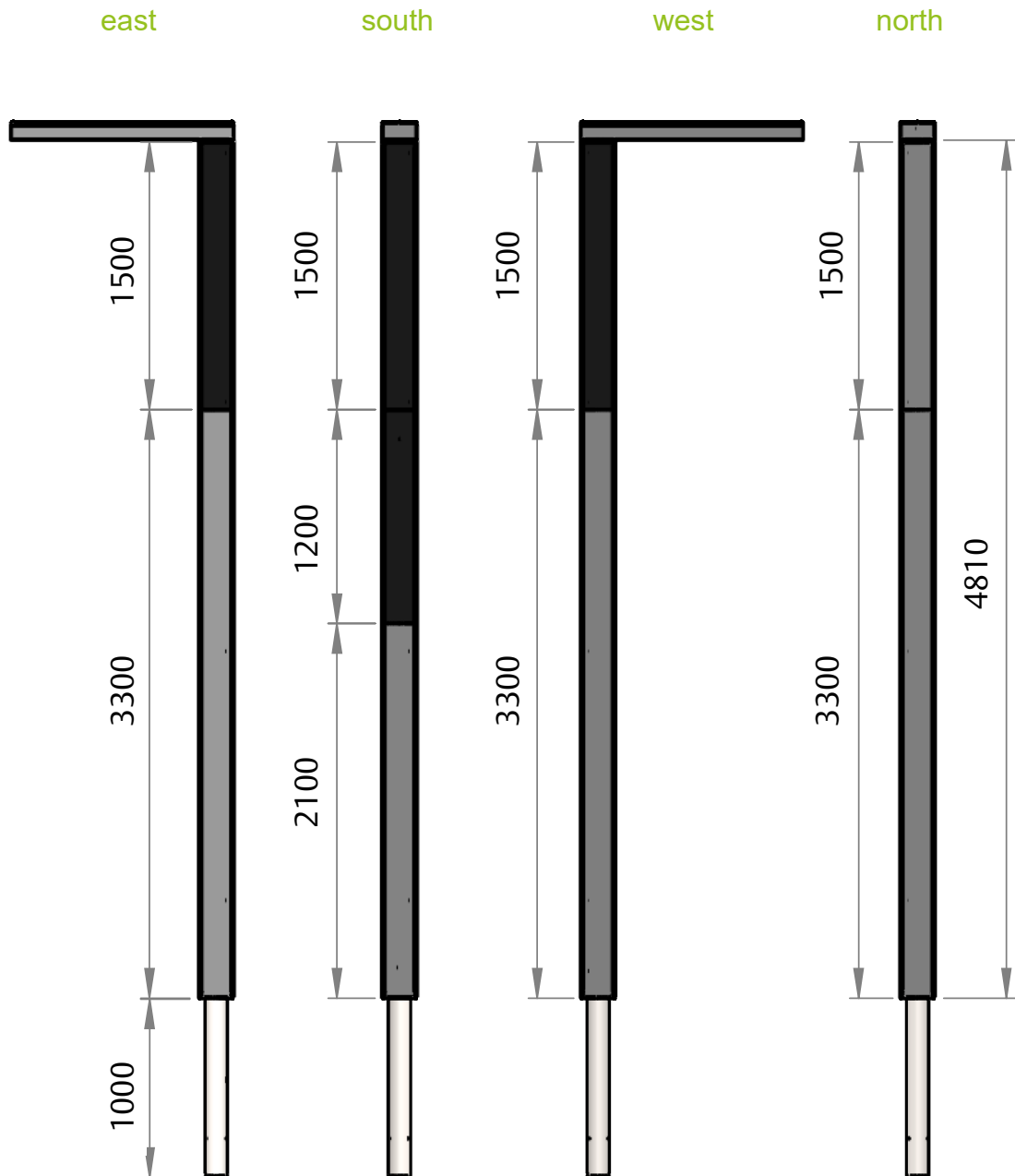
Corrosion test in artificial atmosphere - salt spray test (ISO 9227:2012)

All solar lights have successfully passed the salt spray test.

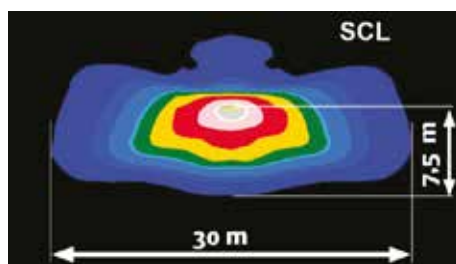
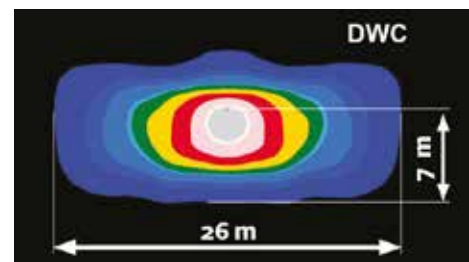
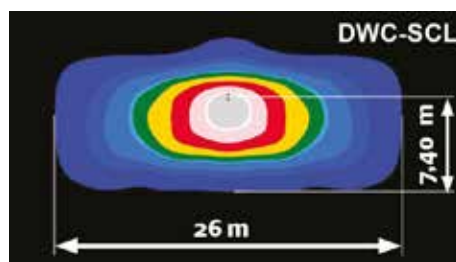
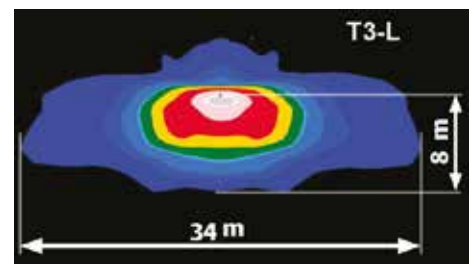
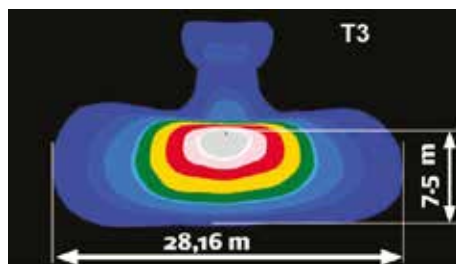
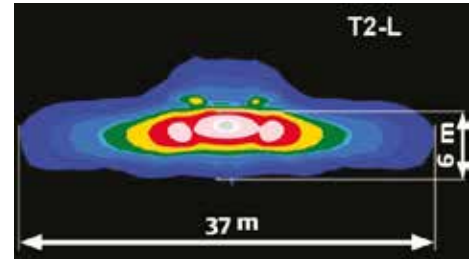
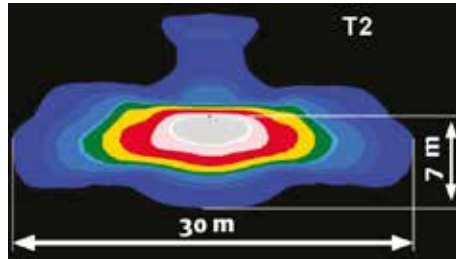
Details



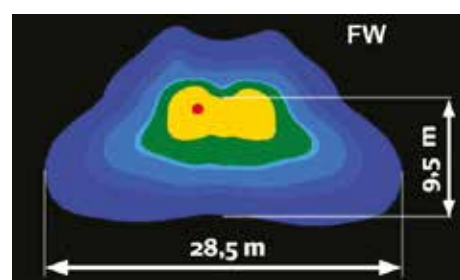
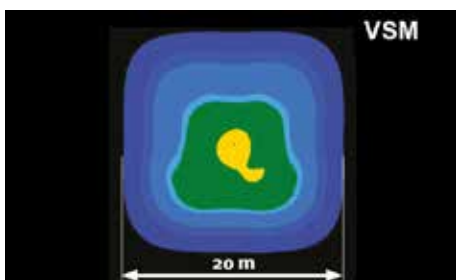
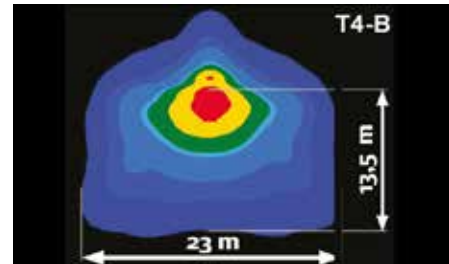
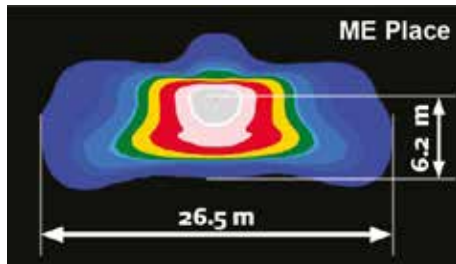
Dimensions



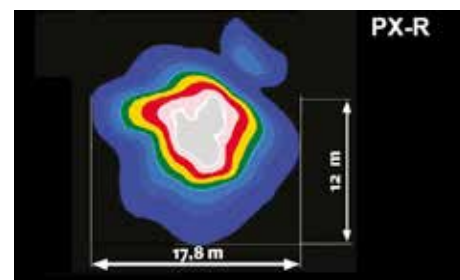
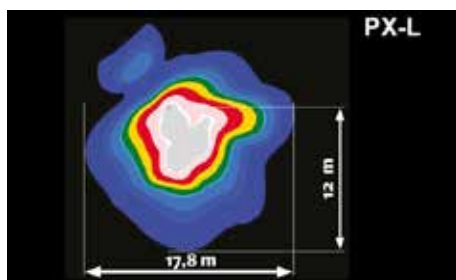
Path and street optics



Place optics



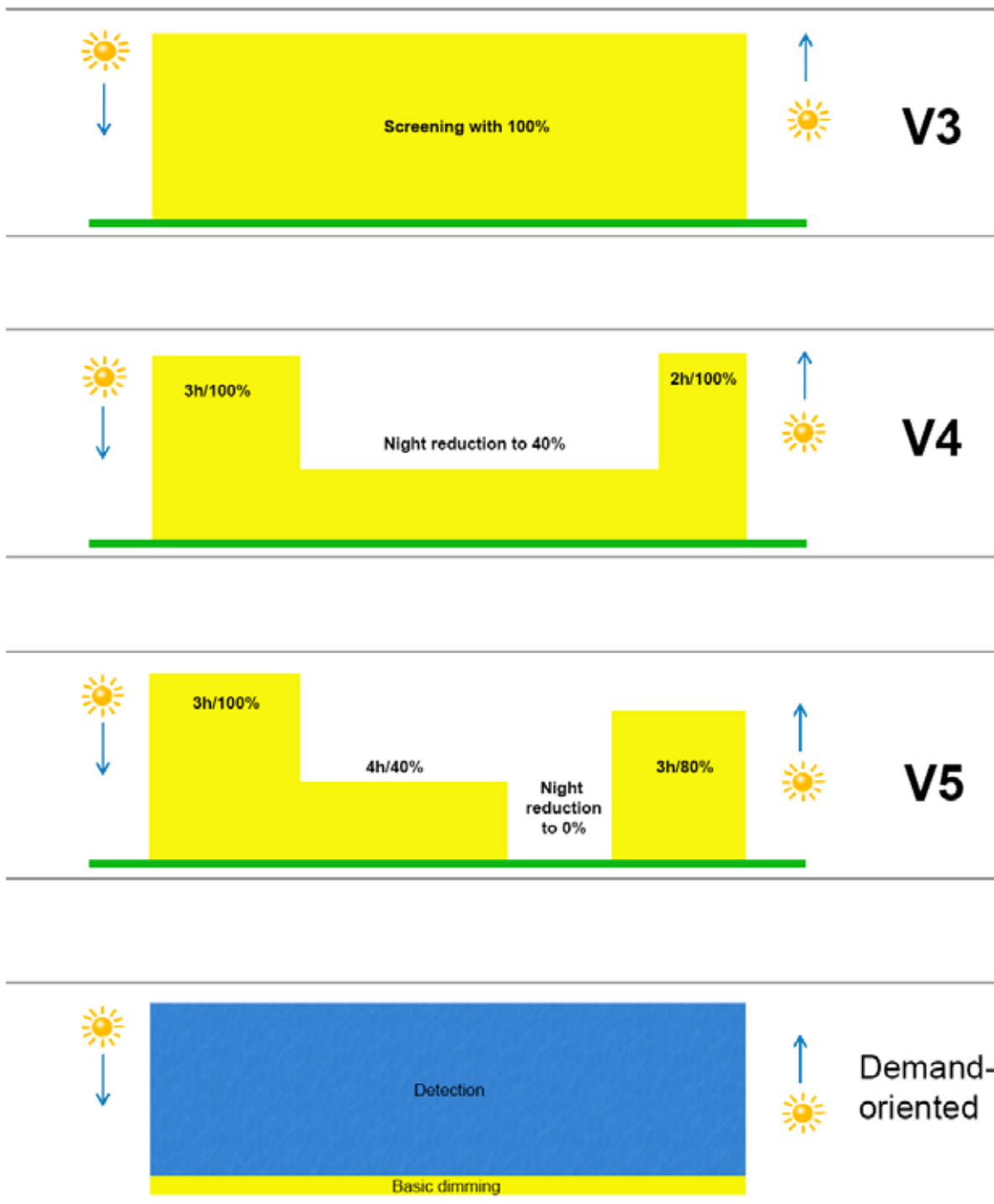
Special optics crosswalk



ENERGY AND TIMEMANAGEMENT

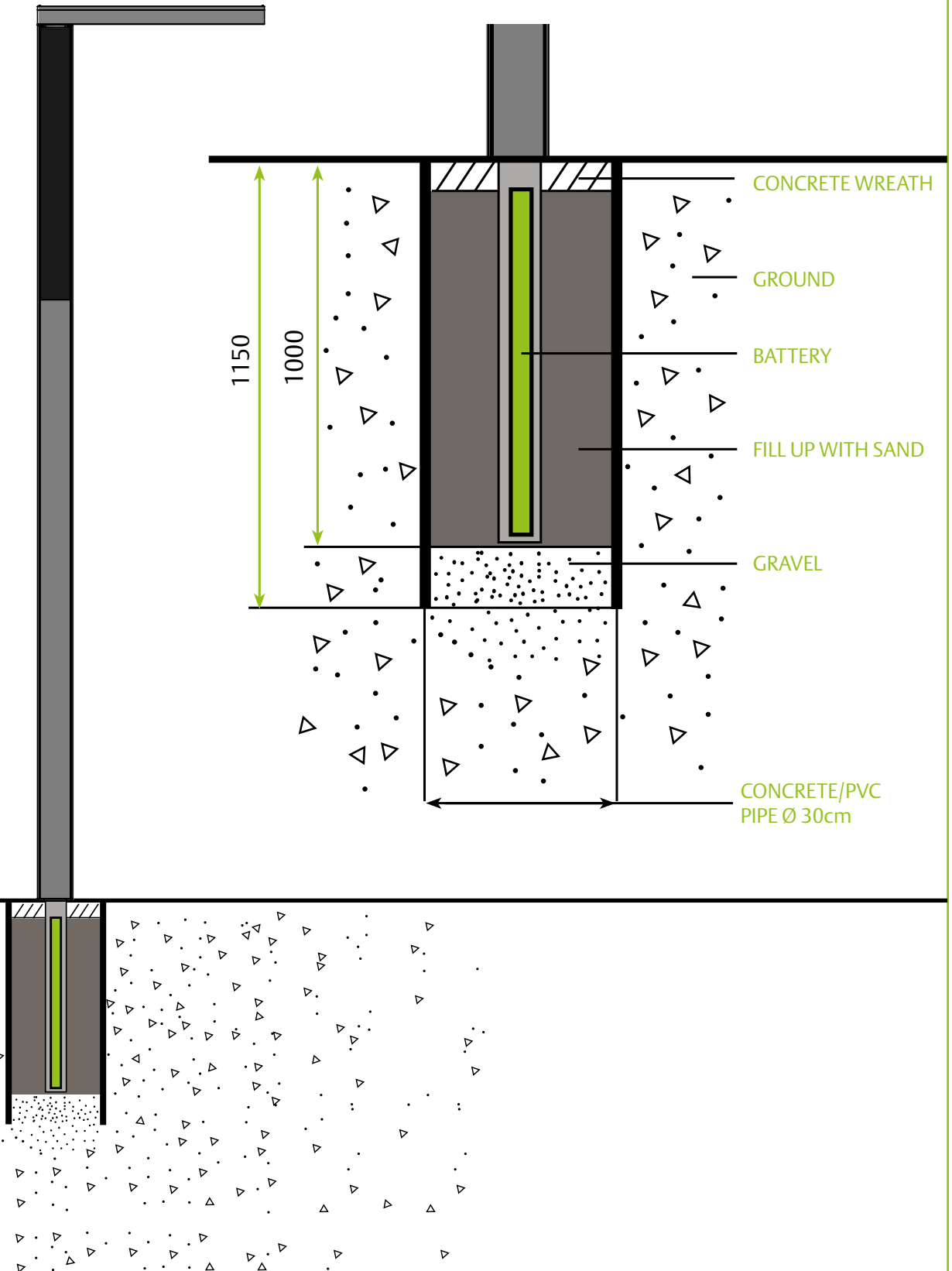
Standard factory setting V5

TIME MANAGEMENT PHOTINUS SOLAR LIGHTS



Option for assembly

PIPE FOUNDATION



References

verticalis
 Sidewalk Hausham / DE



verticalis
 Holmenkollen / NOR

verticalis
 Neighborhood Adliya / BHR



References



verticalis
 Cycle- walkway / PL

verticalis
 Neuschwanstein / DE



verticalis
 Eching / DE