



**INSTRUCTION FOR INSTALLING
THE SAFETY LIGHTING POLE CLASS HE
IN A CUP FOUNDATION WITH WEDGES**

1. Preparation for assembly

- a) Preparation of mast sections.

Before you assemble the mast sections, please read the assembly instructions.

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(Date of assembly and legible signature of the person responsible for the assembly in accordance with the instructions)

- b) Check whether the posts and their parts are not dirty. If so, clean them thoroughly. It is best to use water and a mild detergent, using a soft cloth that does not scratch the surface or a pressure washer. In the case of so-called white corrosion, proceed in accordance with the provisions of the General Warranty Terms and Conditions available at

<https://en.elmonter.pl/download/>

2. General guidelines for mounting the spread footing.

- a) for the foundation of the spread footing, a narrow spatial foundation excavation should be made with a depth appropriate for the assumed foundation level,
- b) in the case of mineral soils with the required load-bearing capacity, the foundation footing is set directly on the ground substrate
- c) in the case of cohesive soils, the excavation should be deepened by 20 cm. At the bottom of the excavation lay gravel or lean concrete with a thickness of 20 cm, with appropriate compaction,
- d) in the case of a high level of groundwater, the bottom of the excavation should be received by an authorized geotechnician,
- e) place the foundation in the previously prepared excavation by hand or using a lifting device,
- f) pass the casing pipes or power cords, max. Diameter 50mm through the openings in the foundation,
- g) level and cover the foundation with native soil, thickening every 20 cm, the soil compaction ratio I_s should be at least 0.92,
- h) the density ratio of foundation backfill should be: $I_d = 0.98$.
- i) after the assembly, check the correctness of the sitting a foundation - the upper edge of the foundation should be leveled and should not protrude above the ground level by more than 3 cm in any place.

REMARK

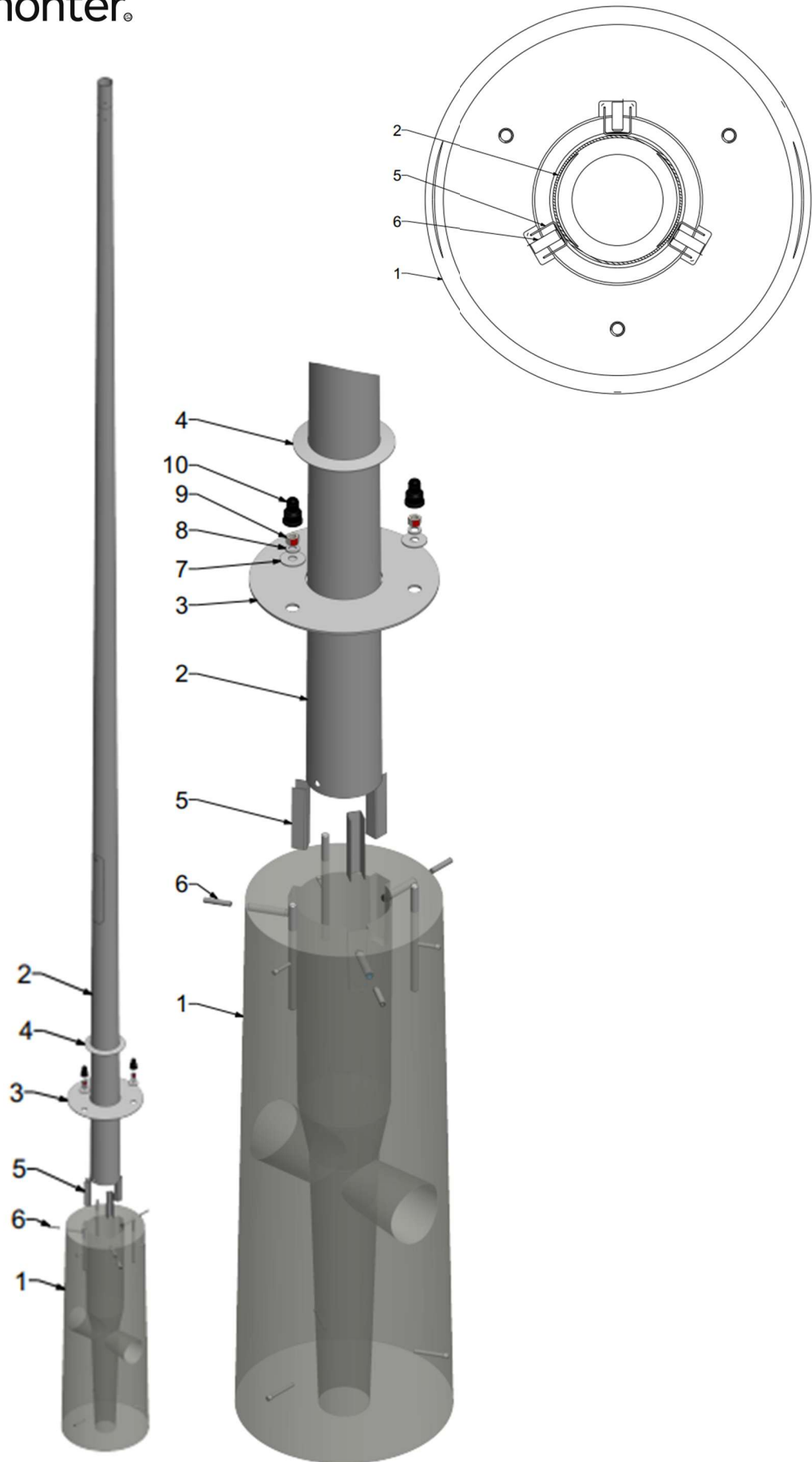
AFTER ASSEMBLY, THE FOOTPLATE OF THE LIGHTING POLE MUST NOT BE LESS BELOW THE GROUND LEVEL.

Additional provisions:

- a) the foundations are intended for foundation in the ground with the following parameters:
 - frost depth of the soil - 1.00 m
 - accepted conditions for the sitting of foundations at the height of the building take into account the settlement of non-cohesive soils, variously stratified in the compacted state, which corresponds to the occurrence of native mineral soils, which are all kinds of gravels, coarse and sands thick and medium sands,
 - groundwater - below the foundation level,
 - foundation in a flat area - outside the escarpment,
- b) before performing excavations for foundations, the Contractor is required to check:
 - location,
 - geological and ground conditions,
 - arming the underground area,
- c) any changes and deviations from the foundation conditions specified above require a design of the foundation and must be strictly consulted and accepted by the author of the project,
- d) Earthworks should be carried out in accordance with Polish Standard PN-86 / B-02480 or the currently valid standard in the country.

3. Guidelines for mounting a lighting post in a cup foundation

Collar [3] and seal [4] put on shaft and secure against falling down before placing the pole in the foundation. After placing the pole [2] in the foundation [1], it should be set vertically, wedges [5] should be placed in the designated places and pressed with pressure screws [6] while plumb-lining the pole. After plumb-lining and tightening the pressure screws, the pole must stand stably. Then secure it with a metal collar [3] in such a way that it can be inserted onto the foundation mounting pins. Then put on the washers [7,8] and tighten the nuts [9] and put the protective caps [10] on the nuts (Mounting elements are supplied with the foundation). Then put the seal [4] on the shaft.



4. Installation of additional elements on the lighting column.

On the lighting poles there is the possibility of mounting additional elements, such like brackets, heads, beams.

The attachment of additional elements takes place on the upper part of the pole by letting the fixing end into the pole and tightening the set screws preventing the elements from rotating during operation.

In the case of non-standard solutions for fixing additional elements, the assembly method is developed individually after consultation with the customer.

6. Operation of structures and service inspections.

The owner or manager of a building object is obliged to maintain and use the facility in accordance with its intended purpose and maintain it in a proper technical and aesthetic condition, preventing its performance and technical efficiency from deteriorating, and subjecting periodic inspection consisting in checking the technical condition in accordance with the provisions of The Construction Law..

Service inspections regarding structures should consist of:

- a) visual inspection of the condition of key elements of the lighting structure (pole, bracket, beam, head and foundation),
- b) visual inspection of the condition of the belaying system - if it occurs on the structure,
- c) assessment of the condition of controlled construction elements, paying attention to:
 - occurrence of corrosion centers in places exposed to weather conditions, especially in aggressive environments,
 - subsidence of land - carried out near the construction of earthworks or construction,
 - occurrence of structural cracks in the places of welded joints (base of the stem - stem, stem-rib, base-rib),
 - occurrence of changes in the geometry of the structure cross-section (bending, mechanical damage),
 - occurrence of defects in anti-corrosion coatings (damage to the zinc coating, painting).

The service inspection should be carried out at least once a year, and after the occurrence of severe adverse weather conditions (eg storm, heavy icing).

Inspections must be carried out (in accordance with the construction law) by persons with appropriate qualifications.

All service inspections must be documented in the form of a report. After the review, its copies should be sent to the email at przeklady@elmonter.pl

Failure to carry out inspections results in the loss of the guarantee.