

**ATLANTECH LUX
PLATE**

INSTALLATION MANUAL

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Thank you for choosing one of our products. To install this foundation device correctly and safely, please read this manual carefully. The manual is divided into sections giving you a step-by-step guide to installation.

STEP 1

ACTIVITY:

- Realization of the hole or the excavation, for upper box housing of the Atlantech Lux foundation, to be carried out by hydraulic auger and bits in the first case, and by excavator bucket in the second case.
- The depth of the hole or of the excavation must be equal to the height of the box, so that the bottom of the box leans against the bottom of the pre-drilled hole/excavation. On rock the pre-holes are drilled using rotary drilling equipment.



MEANS AND ACCESSORIES:

- Excavator, we recommend starting from 1,500 kg
 - Hydraulic auger, we recommend with max torque starting from 1.3-1.5 KNm
 - Auger bits to be hooked to the hydraulic auger with a diameter suitable for housing the box of the foundation Atlantech Lux.
- The tip must be chosen depending on the type of soil (agricultural, mixed, rocks / road massifs)
- Excavator bucket



STEP 2

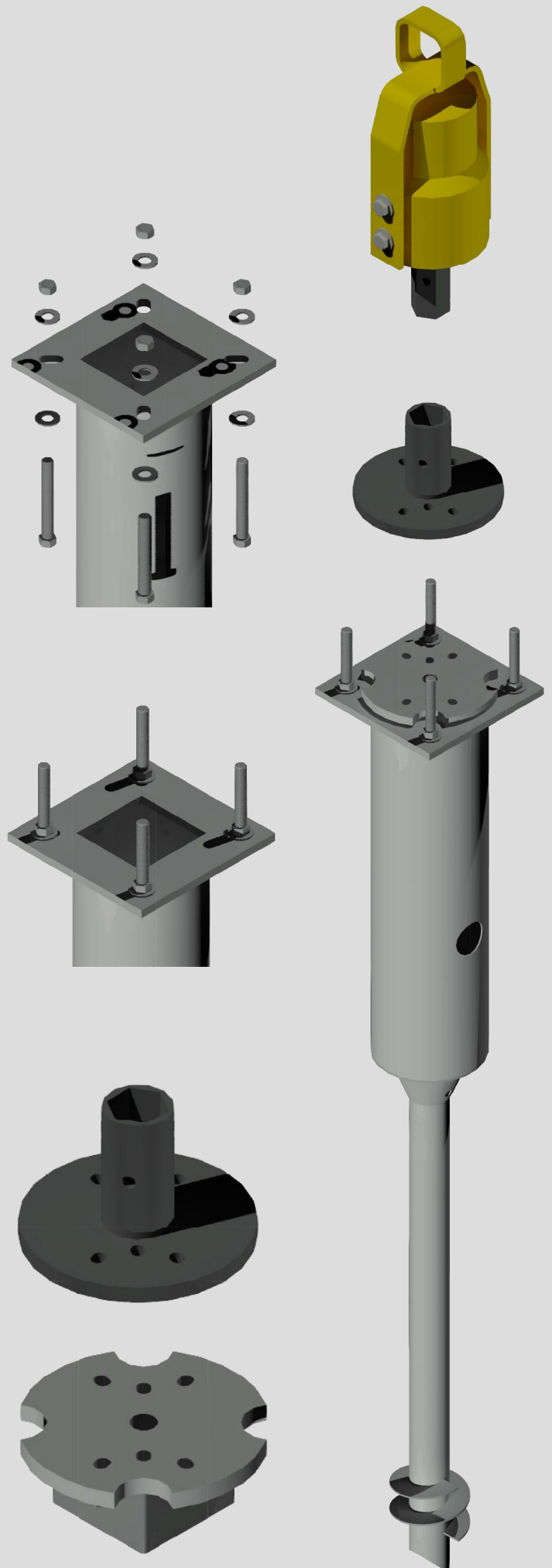
ACTIVITY:

- Fastening the bolts with washers and nuts in the position of spacing of the lighting pole to be installed (inside the slot for the smaller spacing distance of the PLATE model, outside the slot for the greater spacing of the PLATE model).
- Placing the Atlantech Lux PLATE foundation inside the pre-hole or the excavation carried out in step 1. The screwing takes place by the Atlantech installation plate hooked to the drill and up to the final level with the contact between the bottom of the box with the bottom of the prehole/ excavation.

When the screwing is completed, the installation plate is removed from its seat and the foundation is immediately available for insertion of the corrugated and for the installation of the lighting pole.

MEANS AND ACCESSORIES:

- Excavator, we recommend starting from 1,500 kg
- Hydraulic auger, we recommend with max torque starting from 1.3-1.5 KNm
- Atlantech Lux PLATE installer. The installer can be adapted to the auger by coupling (nuts/bolts) with a "female" counterplate.



STEP 3

ACTIVITY:

- Insertion of the corrugated into the appropriate side holes and complete re-filling of the corrugated track and any empty spaces left around the box.
- Insertion of the perforated plastic cap to close the Atlantech box in the center of the plate.
- Passage of the wiring from inside the box through the hole of the plastic cap. Inserting a piece of corrugated to protect the cables from the box to the lighting pole.
- Positioning of the nuts with washers for the support of the lighting pole plate and usable to adjust the verticality of the pole. It is advisable to leave about one cm of space between the lower and the upper nuts to facilitate the verticality correction operations.

MEANS AND ACCESSORIES:

- Plastic cap, to be drilled, supplied together with the Atlantech Lux PLATE foundations
- Piece of corrugated pipe
- Washers and nuts



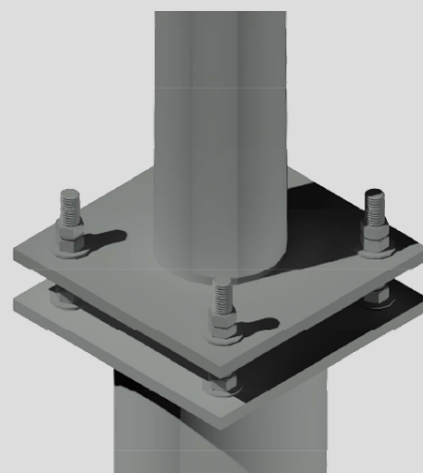
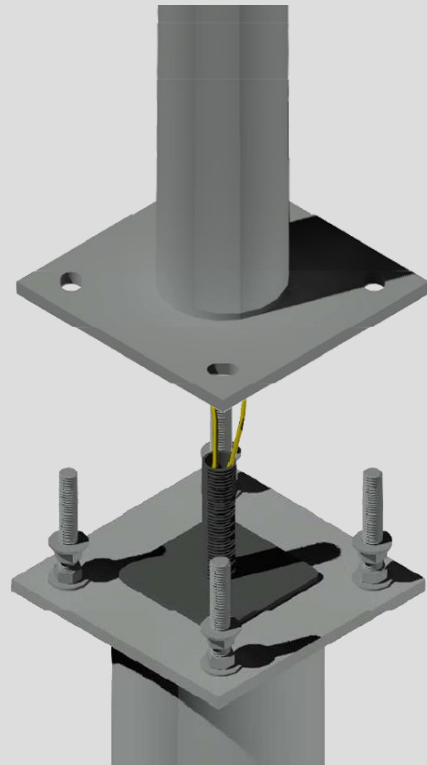
STEP 4

ACTIVITY:

- Lifting the pole with a crane truck
- Passage of the cables inside the lighting pole through the hole under the pole plate.
- Driving the lighting pole on the bolts of the Atlantech Lux Plate foundation leaning on the nuts/washers set up in step 3.
- Positioning of the washers and double nuts on the bolts to safely check the verticality of the pole.
- Before final fixing, the verticality of the pole can be adjusted by acting on the spacer nuts positioned under the pole plate. Final tightening of the double nuts.

MEANS AND ACCESSORIES:

- Means for laying the lighting pole
- Washers and nuts
- Nuts/bolts tightening tools



TECHNICAL NOTES FOR INSTALLERS

- The Atlantech box must, under all circumstances, be buried for at least half of its height (for example in the PLATE 200-220 and PLATE 270-300 models the height of the box is 80cm, the buried part must be at least 40cm).
- In the case of difficulties in screwing into soils with the presence of inert, pebbles or rocks in the subsoil, a pre-hole with a special widia tip with a diameter of 10cm must be made also for the part of the screw foundation below the box.
- Any voids present around the box at the end of the installation must be filled, depending on their size, using landfill material, or sand, or well-compacted crushed stone, or hydraulic lime, in order to guarantee optimal adhesion of the ground to the foundation.



CONTROL AND MAINTENANCE

The maintenance activities aimed at the Atlantech Lux screw foundations, fixed in the ground, can be traced back to the control of the general state, i.e. the restoration of the anti-corrosion protections, the verification of the presence of any lacerations or structural failures, such as misalignments of the foundation, which could require restoration, to be carried out by removal and re-installation or by replacement in case of wear or damage.

INDUSTRIAL PROPERTY

The Atlantech Lux foundations are protected by proprietary know-how, through patents referable to international patents WO/2013/102889 - EP/2800835 and ATLANTECH® 3D Trademark — International Registration No. 1924792 (WIPO).

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