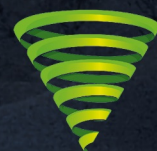


ATLANTECH E-LUX
THE REVOLUTION
IN THE FOUNDATIONS
FOR ELECTRIC
DISTRIBUTION POLES

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SOCIAL IMPACT EVALUATION

ATLANTECH LUX VS CONCRETE PLINTH

	ATLANTECH E - LUX	CONCRETE PLINTH
Environmental impact: CO₂ emissions	Lower CO ₂ emissions due to the concrete elimination, to the use of non invasive installation motor means and to the final complete recycling	Greater CO ₂ emissions due to the concrete production, to the use of invasive installation motor means and to the final disposal
Environmental impact: disposal of the foundation at the end of life	Removal by simple unscrewing. 100% recyclable galvanized steel. Recovery at cost of the scrap iron	Removal by excavator and crane. Disposal costs
Environmental impact: soil consumption	Less land consumption thanks to a reduced size in terms of volume and surface area	Greater land consumption due to invasive foundations both in terms of volume and surface area occupied
Product transportation	100 Atlantech E-LUX foundations can be transported on a single truck	100 concrete foundations can be transported in 7/8 trucks
Installation timing and building sites	In one working day it is possible to install 20/30 foundations immediately usable for the pole installation. Necessary moving building site	In one working day it is possible to install 5/7 foundations. Waiting times in case of on site plinth construction. Necessary fixed building site
Verticality of the pole over time	Lasting of verticality over time thanks to a light foundation	The weight causes displacements over time with consequent pole inclination

ATLANTECH E-LUX

FOR ELECTRIC DISTRIBUTION POLES



ATL E-LUX SMALL, up to a maximum bending moment of 35.22 KNm

CHANGE FOR DIAMETER AND HEIGHT OF THE BOX



ATL E-LUX MEDIUM, up to a maximum bending moment of 58.05 KNm



ATL E-LUX HEAVY, up to a maximum bending moment of 102.26 KNm

CHANGE FOR DIAMETER OF THE SCREW FOUNDATION



MODELS

- **ATL E-LUX SMALL 1100**: box d. 323x1100 mm + screw d. 76x1500 mm.
Verified for Enel poles 10A10 and 10B14, max d. base 290 mm, max bending moment 31.42 kNm.
- **ATL E-LUX SMALL 1300**: box d. 323x1300 mm + screw d. 76x1500 mm.
Verified for Enel poles 12B14 and 12B10, max d. base 260mm, max bending moment 35.22 kNm.
- **ATL E-LUX MEDIUM 1100**: box d. 406x1100 mm + screw d. 102x1500 mm.
Verified for Enel poles 10C15 and 10D15, max d. base 310 mm, max bending moment 55.76 kNm.
- **ATL E-LUX MEDIUM 1300**: box d. 406x1300 mm + screw d. 102x1500 mm.
Verified for Enel poles 12C15, 12D15, 12C14 and 12D14, max d. base 335 mm, max bending moment 58.05 kNm.
- **ATL E-LUX HEAVY 1100**: box d. 508x1100 mm + screw d. 139x1500 mm.
Verified for Enel poles 10E15, max d. base 380 mm, max bending moment 82.86 kNm.
- **ATL E-LUX HEAVY 1300**: box d. 508x1300 mm + screw d. 139x1500 mm.
Verified for Enel poles 12E17, max d. base 425 mm, max bending moment 102.26 kNm.
- **ATL E-LUX HEAVY 1500**: box d. 508x1500 mm + screw d. 139x1500 mm.
Verified for Enel poles 14D14, max d. base 360, max bending moment 79.79 kNm.
- **ATL E-LUX HEAVY 1700**: box d. 508x1700 mm + screw d. 139x1500 mm.
Verified for Enel poles 16D14, max d. base 395 mm, max bending moment 91.49 kNm.

MATERIALS AND CERTIFICATIONS

- Materials used: S235JR and S355JO steel subjected to hot galvanizing process
- DoP, Declaration of Performance in compliance with the Construction Product Regulation (UE) N. 305/2011
- Calculation reports performed in the worst conditions (soils with minimum load-bearing capacity, maximum stress at the base supported by the pole, box uncovered) in compliance with the Eurocodes

INSTALLATION EQUIPMENT

- Excavator (starting from 3000 kg)
- Hydraulic auger, to be mounted on the excavator, with minimum torque of 2/2.5 KNw
- Auger bits of the same diameter of the Atlantech box and a wider auger bit of diameter 100mm for the execution of the hole for the screw under the Atlantech box in case of hard soils. Various types of bits are available on the market, depending on the soil, for vegetal, mixed soils and for cements and rocks

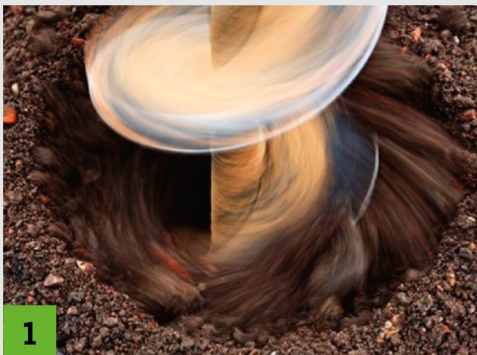


- Installers, to be hooked to the auger, supplied with the Atlantech E-LUX foundations



INSTALLATION PHASES OF THE ATLANTECH E-LUX MODEL

1. Execution of the hole of the same diameter and height of the Atlantech box
2. Checking the dimensions of the hole (absolutely no space must remain under the box)
3. Mechanical coupling of the Atlantech E-LUX foundation
4. Installation of the Atlantech E-LUX foundation on the hole (fill any remaining spaces between the box and the ground with sand, crushed stone or liquid hydraulic lime)
5. Electric distribution pole installation (the pole is leveled and fixed with sand/gravel and sealed in the last 15/20cm of the box with mortar or hardening resins)



THE PAST - THE USE OF CONCRETE



THE FUTURE - THE ATLANTECH E-LUX TECHNOLOGY



**RESEARCH, INNOVATION AND CORPORATE SOCIAL
RESPONSABILITY ARE AT THE BASE OF THE
DEVELOPMENT OF OUR PRODUCTS**



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