

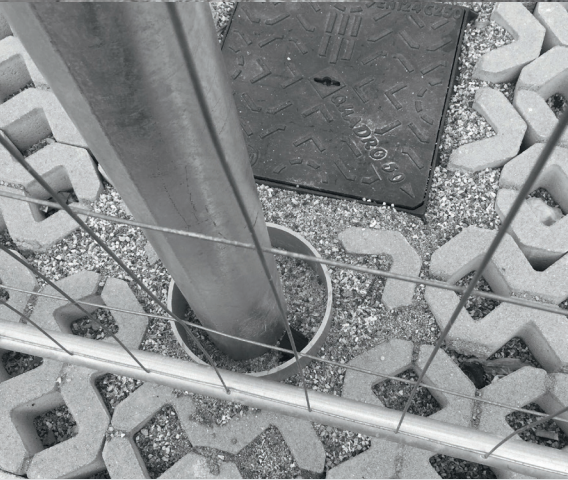
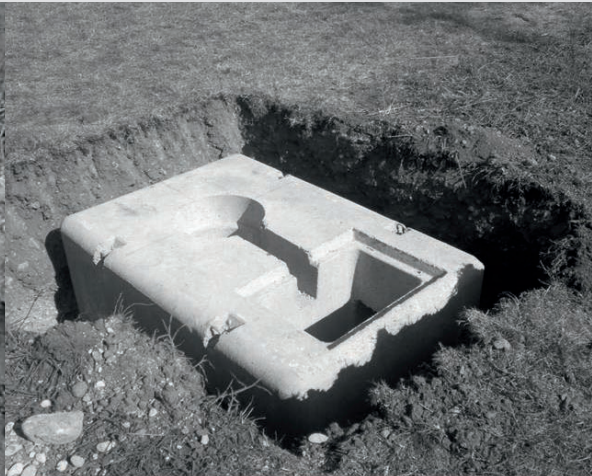


ATLANTECH LUX
THE REVOLUTION
IN THE FOUNDATIONS
FOR LIGHTING POLES

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THE PAST - THE USE OF CONCRETE



THE FUTURE - THE ATLANTECH LUX TECHNOLOGY



SOCIAL IMPACT ANALYSIS

ATLANTECH LUX VS CONCRETE PLINTH

	Atlantech Lux	Concrete Plinth
Passive safety UNI EN 12767 – Behavior in case of road accident	Class HE3 using a traditional lighting pole. Energy absorption with reduction of damage to things and people	Class 0 No energy absorption. Protection must be installed
Disposal of the foundation at the end of life	Removal by simply unscrewing. 100% recyclable galvanized steel. Recovery at cost of the scrap iron	Removal by excavator and crane. Disposal costs
Environmental impact: CO₂ emissions	Lower CO ₂ emissions due to the elimination of concrete, the use of a non-invasive motor during the installation and to the complete recycling at the end of use	Greater CO ₂ emissions due to the concrete production, the use of an invasive motor during installation and for the final disposal
Installation timing and building sites	In one working day it is possible to install 20/30 foundations immediately usable for installation of poles. A mobile building site is needed	In one working day it is possible to install 5/7 foundations. Waiting times in case of on site plinth construction. A fixed building site is needed
Safety of the grounding system	Double internal grounding system. The foundation acts like a grounding rod	The grounding rod is necessary. A damage of the external copper cord can cause electrocution
Verticality of the pole over time	Lasting of verticality over time thanks to a light foundation	The weight causes displacement over time with consequent inclination of the pole
Final aesthetic impact	High aesthetic quality thanks to a non-invasive foundation and to a design of urban furniture	Low aesthetic quality due to the view of the concrete plinth and the inspection box

ATLANTECH LUX

with integrated inspection box



STANDARD MODELS

- **SHORT:** box h. 500 mm diam. 219 mm, screw h. 800mm diam. 60 mm, for poles until 4 m of height and max diam. at the base of 90 mm
- **SMALL:** box h. 500 mm diam. 323 mm, screw h. 800 mm diam. 60 mm, for poles until 6 m of height and max diam. at the base of 140 mm
- **SMALL PLUS:** box h. 800 mm diam. 323 mm, screw h. 1000 mm diam. 76 mm, for poles until 8 m of height and max diam. at the base of 140 mm
- **MEDIUM:** box h. 800 mm diam. 406 mm, screw h. 1000 mm diam. 76 mm, for poles until 9 m of height and max diam. at the base of 180 mm
- **HEAVY:** box h. 800 mm diam. 508 mm, screw h. 1000 mm diam. 76 mm, for poles until 13 m of height and max diam. at the base of 230 mm

ATLANTECH ONE-BOX LUX

without integrated inspection box



STANDARD MODELS

- **SHORT H1300:** box h. 500 mm diam. 219 mm, screw h. 800 mm diam. 60 mm
- **SHORT H1600:** box h. 800 mm diam. 219 mm, screw h. 800 mm diam. 60 mm
- **SMALL H1300:** box h. 500 mm diam. 323 mm, screw h. 800 mm diam. 60 mm
- **SMALL H1800:** box h. 800 mm diam. 323 mm, screw h. 1000 mm diam. 60 mm

OTHER APPLICATIONS:

- Reinforcement for old concrete plinths
- Poles for cameras, flags, sport fields
- Poles for fences
- Poles for advertising and road signs

PLANNING OF CUSTOMIZED FOUNDATIONS ACCORDING TO THE STATIC CALCULATIONS

PASSIVE SAFETY AND ROAD ACCIDENTS AGAINST LIGHTING POLES

In case of road accident the traditional concrete plinths, due to their weight, increase the severity of impact. The Atlantech Lux foundations, thanks to their lightness, rotate into the soil facilitating the exit of the pole and allowing the soil to act like a cushion, reducing the kinetic energy generated during the impact.

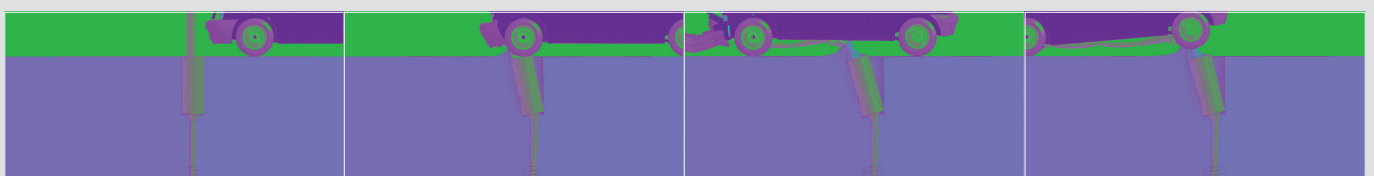


ATLANTECH LUX TRANSFORM A TRADITIONAL LIGHTING POLE INTO A "PASSIVE SAFETY" POLE HELPING TO SAVE HUMAN LIVES

THE RESULTS OF PASSIVE SAFETY TESTS* (UNI EN 12767)



* Tests conducted by GDTech, one of the most advanced engineering offices in the world for crash and dynamic simulations

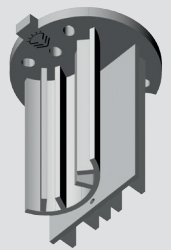


MATERIALS AND CERTIFICATIONS

- Materials used: S235JR and S355JR steel subjected to a 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 UNI EN 40-3-1:2013

INSTALLATION EQUIPMENT

- Excavator (starting from 1500 kg for the smaller Atlantech foundations)
- 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 widia 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



- Installer, to be hooked to the auger, supplied with the Atlantech foundations

INSTALLATION PHASES

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. Installation of the Atlantech foundation on the hole
4. Mounting the iron manhole cover
5. Lighting pole installation and electrical connections (the corrugated trace can be done both before and after the installation of the Atlantech foundation)



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



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