

**ATLANTECH LUX HEAVY model**  
**for the installation of lighting poles, buried type, with a maximum diameter**  
**at the base of 240 mm**

The following maximum stresses at the base due to the loads applied on the lighting pole were considered for the verification of the Atlantech Lux Heavy foundation.

|                        | <b>Maximum stress</b> |
|------------------------|-----------------------|
| <b>Horizontal load</b> | <b>326 kg</b>         |
| <b>Bending moment</b>  | <b>3228 kgm</b>       |

The Atlantech Lux Heavy foundation, loaded with the above stresses, is verified with soils having the following minimum geotechnical characteristics.

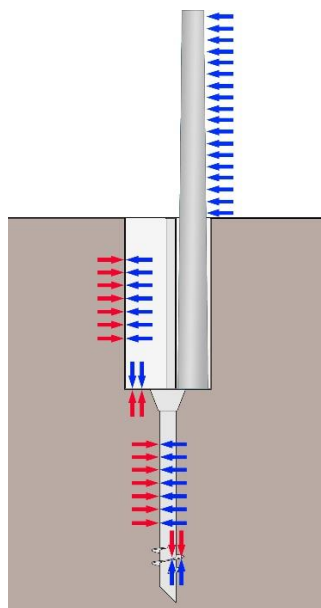
*Cohesive soils*

|                             |  |
|-----------------------------|--|
| <i>Cohesion not drained</i> | $C_u = 0,5 \text{ kg/cm}^2 = 5.000 \text{ kg/m}^2$ |
|                             | $\text{Weight} = \gamma = 1.900 \text{ kg/m}^3$    |

*Cohesionless soils*

|                             |   |
|-----------------------------|---|
| <i>Cut resistance angle</i> | $\varphi = 30^\circ$                            |
|                             | $\text{Weight} = \gamma = 1.900 \text{ kg/m}^3$ |

*Indicative scheme of behavior of the Atlantech Lux foundation*



**ATLANTECH SRL**