

7.7 TPE-08 permanent ground anchors



Bulb of the TPE 08 permanent anchor

TPE-08 permanent anchors are produced in compliance with the **Ministerial Decree as of 14.01.2008, Decree no. 12391 22.12.2011**, and with the European and Italian Standards.

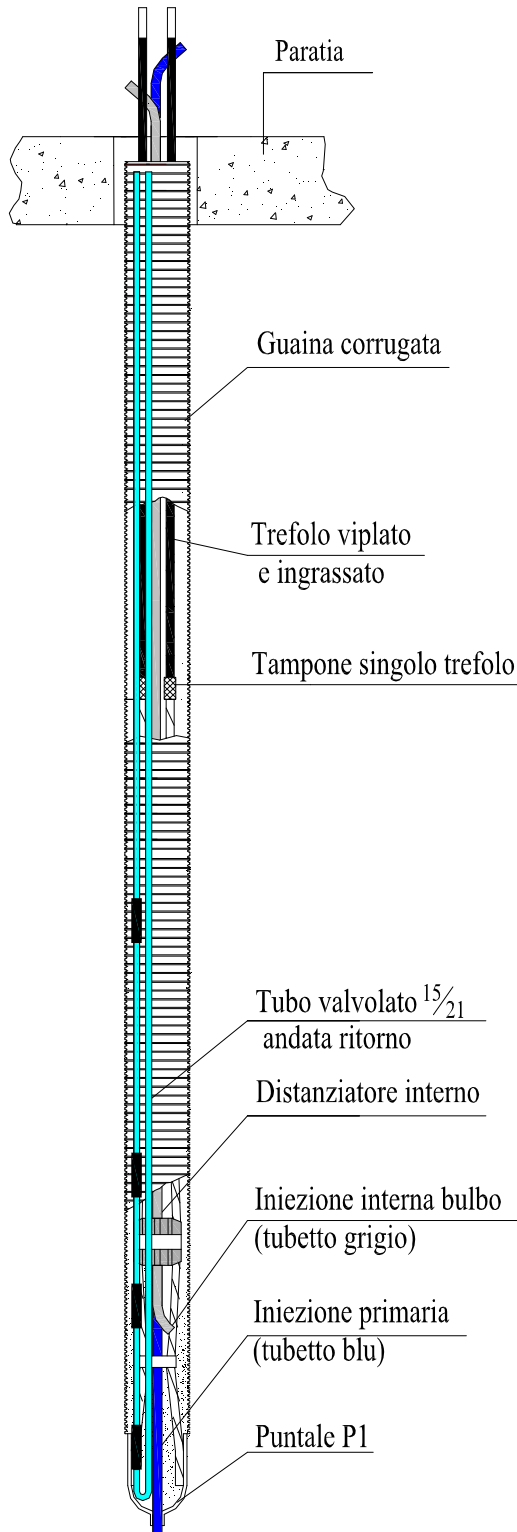
The **TPE-08** ground anchor is usually used in the construction of bulkheads and diaphragms, where the type of ground needs permanent anchors to be installed.

The **TPE-08** ground anchors are defined permanent as their expected design life is over two years.

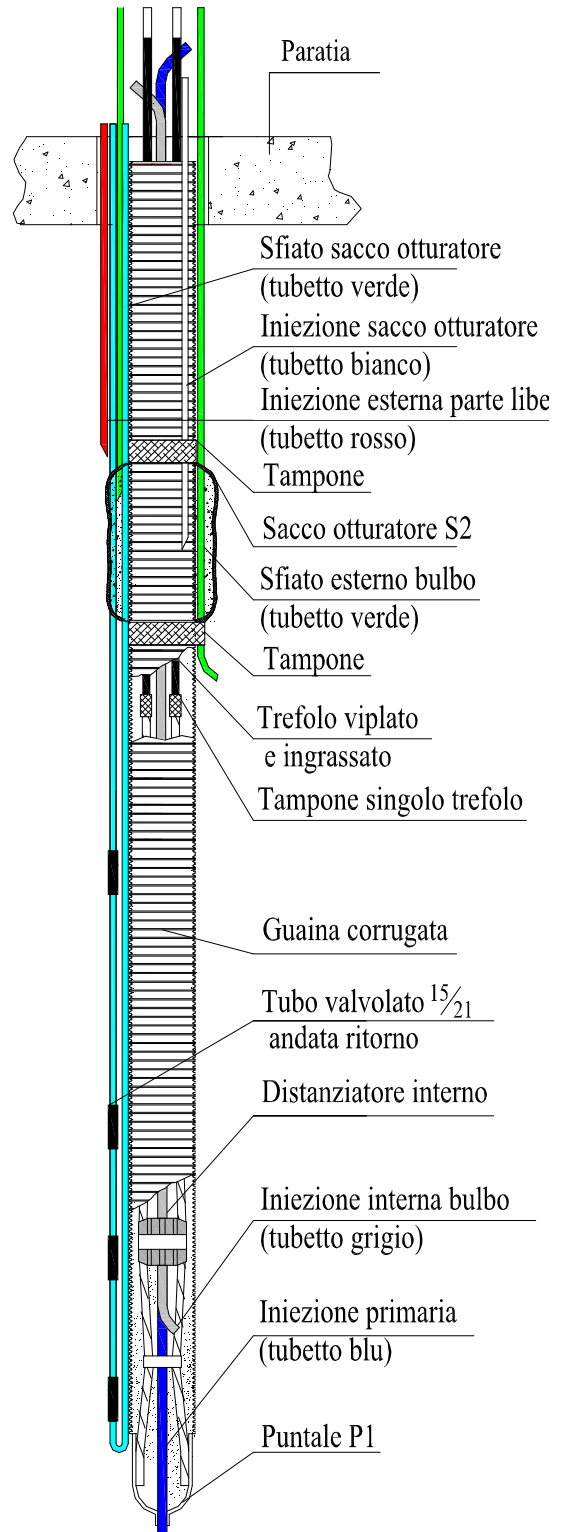


The anchor is made as follows:

- In the active part, the strands are separated by special spacers which guarantee the tendon to maintain a sinusoidal shape. By means of suitable strapping and/or taping, the sinusoidal shape of the tendon increases the adherence with the foundation cement mix. Grouting takes place via 16x20 mm polyethylene/polypropylene tubes that can guarantee a max. operating grouting pressure of 10 bar at 40°C and a burst pressure of 15 bar at 40°C.
- The free length is protected by inserting a H.D.P.E. corrugated sheath. Inside, strands are protected by greasing and sheathing by means of 16x19.5 mm tubes. The separation of the free length from the active part is achieved by way of elementary buffers of sealing material, which allow both parts to be perfectly hermetic and can be applied on each strand.
- The end part of the anchor is provided with a polyethylene ogive to ease its insertion into the drilling hole and guarantee its total encapsulation.



TPE 08A



TPE 08A (S2 packer)

The **TPE-08A** anchor has two tubes for primary grouting and internal grouting. It is provided with elementary buffers on each strand. A valvate 15x21 mm tube is installed on the outside in order to allow the repeated regrouting **I.R.**