GROUND PLUG®

THE PATENTED AND DESIGN PROTECTED

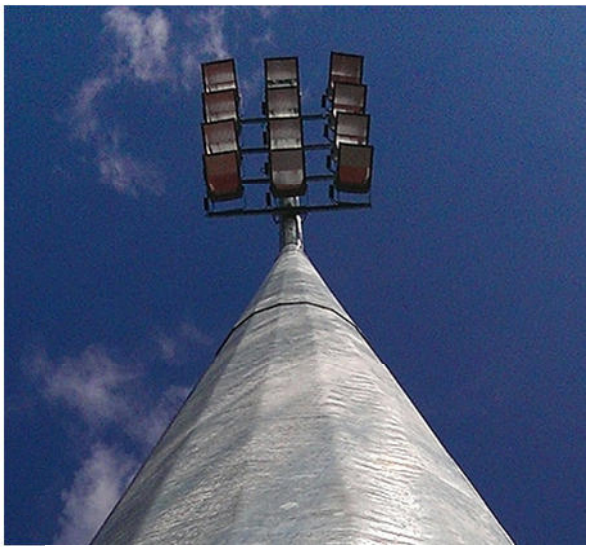
GROUNDPLUG BEAM FOUNDATION

THE PERFECT SOLUTION FOR FOUNDATIONS




GROUNDPLUG BEAM FOUNDATION

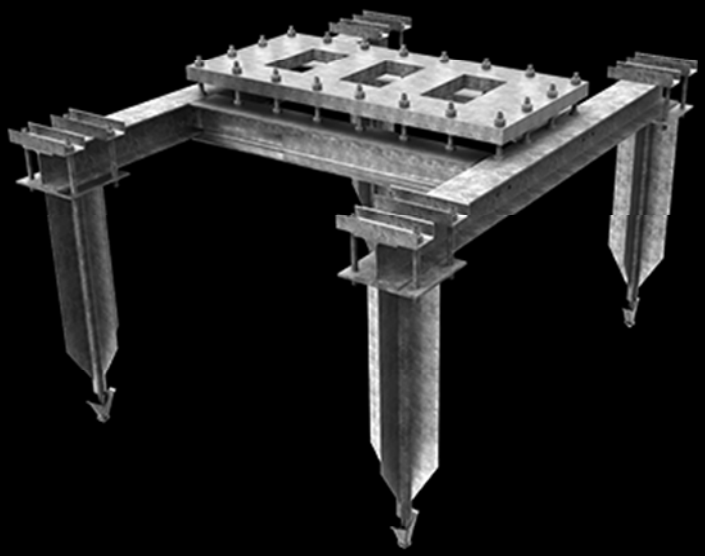
GROUNDPLUG BEAM FOUNDATION IS BASED ON SETS OF SINGLE GROUND-PLUG SK FOUNDATIONS. GROUNDPLUG FOUNDATIONS ARE CONNECTED TO EACH OTHER BY A BEAMS SYSTEM.



This is used for cases in which single GroundPlug SK or GP foundations cannot be used e.g. due to terrain topography, underground installation and infra-structure, unfavourable soil conditions, installation of large objects and significant design loads.

The GroundPlug International has designed, produced and installed special 26 meter lighting masts for Frederiksberg Stadion (Denmark) with an assumed design bending moment equal to 790 kNm at the base plate level.

GroundPlug Beams foundations have been designed for different Customers all over the World in all sizes.



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The GroundPlug Beam foundations can be also used for lower values of acting loads. In such case only 4 GroundPlugs SK foundations and 4 connecting beams with fixed base plate are used.

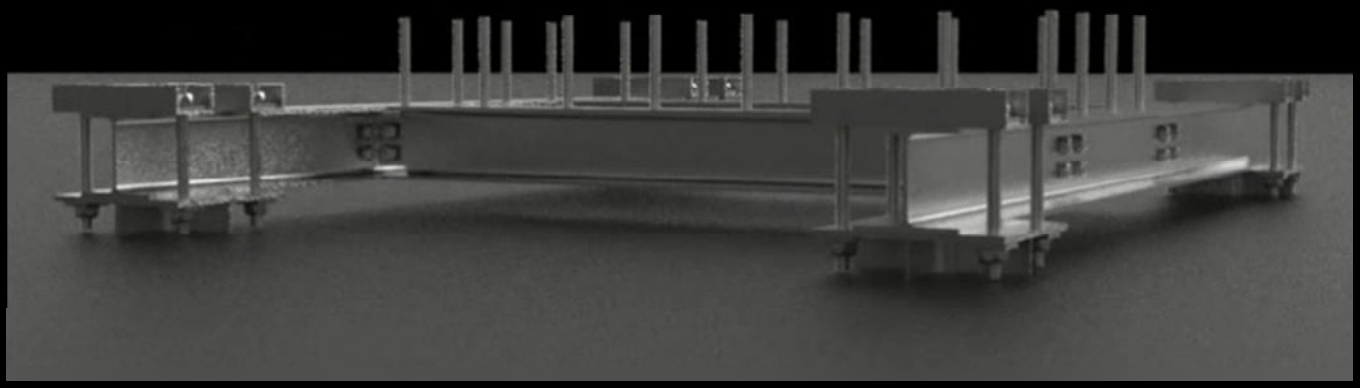
All patented products* are protected against corrosion through a hot-dip galvanizing process.

* Specific Intellectual Property inquiries should be directed to the Headquarter in Denmark.

DOCUMENTATION

ALL STEEL FOUNDATIONS OFFERED BY GROUNDPLUG INTERNATIONAL ARE BASED ON CALCULATION USING:

EN 1990, EN 1991-1-1, EN 1991-1-3, EN 1991-1-4, EN 1991-2, EN 1993-1-1, EN 1993-1-3, EN, 1993-1-5, EN 1993-1-8, EN 1993-1-9, EN 1993-5, EN 1997-1, EN 1997-2, EN 1794-1.



CALCULATIONS

Analytical calculations & practical tests:

- ASTM Standard Designation (ASTM D1143, ASTM D3689, ASTM D3966) of compression, tension and lateral loading on single pies. Performed by Applied Foundation Testing (AFT), USA, and CLT THOMPSON INC, USA.
- NIRAS capacity and soil calculations, verified by LPILE by Ensoft Inc.

Our engineering team can provide design documentation for any structure based on European Design Standards (Eurocodes 0-9) with applied National Annexes. Calculations can also be performed based on valid American and Australian Design Standards.