



Planted Section Pole  
Foundation & Installation  
Manual



1. Mark the position on the ground to install a steel foundation. Clean surrounding area.



2. If the ground is soil, dig the marked position with an auger crane. If the ground is bedrock, use T4 to drill. The depth and width of excavation must be decided at the designing stage according to steel foundation specifications.



3. After completing excavation, backfill approximately 20 cm of the hole with broken stones or sand, taking future land subsidence into account.



4. Use a crane to lift the top of the steel foundation. Position the foundation over the excavation and insert it slowly into the hole until the foundation reaches the bottom of the hole. Be sure the pole zero point is in the designed direction of stadium. If the direction of the foundation is wrong, the pole-mounted lighting fixtures will not be in the direction as designed.



5. Fix the foundation by inserting three wooden triangular wedges, each 120 degrees apart, around it. Use a level to make sure the top of the foundation is horizontal.



6. Fill the excavation around the foundation with mortar up to the level just below the wire access hole on the side of the foundation. The inside of the foundation is also usually filled with mortar up to that level but may be filled with soil according to site conditions. Fill the part of the foundation upward from the wire access hole with soil after completing the wiring of the primary line. Finish the ground with the material customer requests.



7. Assemble pole sections while mortar hardens.



8. Transport pole sections nearest to the foundation where they are to be installed.



9. Arrange bottom, middle and top sections in line in this order. Prepare two 1.5 ton or higher-rated comealongs and liquid detergent.



10. Start assembling bottom, middle and top sections in this order. Align the jacking ears on the side of the sections. Apply liquid detergent on the surface to be overlapped. Hook comealongs to the jacking ears on both sides of the pole sections and pull them simultaneously with equal force until the pole sections are no more overlapped.



11. After completing the assembly of pole sections, install steps, cables and platforms according to instructions.



12. Mount lighting fixtures on the top cross arm. install ballast box and the internal wiring between the box and the fixtures. Make sure that the hook that supports the internal wirings is in place at the pole top. Assemble the pole cap.



13. After completing all assembly, lift the pole by hooking it two-thirds from the bottom of the pole with a nylon strap that can withstand 3 tons or higher. Lower the pole onto the top plate of the steel foundation. Connect the pole and the top plate with bolts. Be careful not to get the wirings in the foundation between the bolted surfaces.