



Pole Installation Instructions

⚠ WARNING

Make certain power is OFF before starting installation or attempting any maintenance.

⚠ WARNING

Risk of fire/electric shock. If not qualified, consult an electrician.

⚠ WARNING

Risk of Electric Shock – Disconnect power at fuse or circuit breaker before installing or servicing.

⚠ WARNING

Risk of Burn – Disconnect power and allow fixture to cool before servicing.

⚠ WARNING

Risk of Personal Injury – Fixture may become damaged and/or unstable if not installed properly.

⚠ WARNING

This pole presents shock and crushing hazard.

⚠ WARNING

Ensure pole is grounded in accordance with the National Electrical Safety Code and applicable local codes and ordinances.

⚠ WARNING

Do not install in hazardous or classified locations, including locations with vibrations deleterious to the pole. Consult with a professional, and local and federal standards, before installation to ensure product is appropriate for the intended purpose and installation location.

⚠ WARNING

Failure to follow these instructions may lead to personal injury (including death) and property damage.

IMPORTANT: Read carefully before installing fixture. Retain for future reference.

General: Upon receipt of pole, thoroughly inspect for any freight damage, which should be brought to the attention of the delivery carrier. Compare the catalog description listed on the packing slip with the pole label on the housing to assure you have received the correct material.

Safety: This pole must be grounded in accordance with the National Electrical Safety Code and applicable local codes and ordinances. Proper grounding is required to insure personal safety. Carefully observe grounding procedure under installation section. This pole is not suitable for Hazardous or Classified Locations. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Consult a qualified electrician to ensure correct branch circuit conductor.

Note: Specifications and dimensions subject to change without notice. While these instructions are intended to provide important information relative to the installation of the pole, they are not comprehensive. It is impractical to provide instructions on this pole for all circumstances and contingencies in the field. If information additional to that provided in these instructions is desired, please contact your nearest manufacturer representative.

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ANCHOR BOLTS

1. Only use anchor bolts and templates supplied or approved by AVPL.

Note: Use of anchor bolts, bolt adapters, or nuts of other manufacturers that are not appropriate for this application can result in bolt or thread failure and collapse of the pole.

2. Cast the foundation/anchor bolts into concrete, consistent with the template drawing provided with the anchor bolts for this particular pole. Ensure first that all template drawings are dimensionally accurate before determining bolt position in foundation. Proper location of the anchor bolts is necessary to achieve the desired directional orientation of the pole.
3. Ensure that the anchor bolts are plumbed vertically and they extend above the finished surface of the foundation consistent with measurements in the bolt template drawing.

Note: Soil foundation: Because local soil and frost conditions vary widely, consult with a Civil Engineer familiar with soil conditions at the installation site regarding dimensions and depths of foundations.

POLE ERECTION AND FIXTURE INSTALLATION

1. Upon receipt of pole:
 - a. Inspect pole for freight damage; and
 - b. Compare the catalog description listed on the packing slip with the label on the pole to ensure the pole is the correct pole.
2. Follow all instructions in this manual when installing pole. Install two nuts on each anchor bolt. The first nuts must be screwed down on the thread to the top of the foundation/concrete and be checked using a hand level to ensure that the top surfaces of all these nuts are the same height.
3. After completing step 2 above, install the pole with its base plate holes over the bolts. Install the second nut on each anchor bolt screwed down to the base plate of the pole with a moderate degree of tightness.
4. Check the pole for plumbness and make necessary adjustments to ensure that the pole is plumb. When vertical plumbness is satisfied, using a torque wrench tighten the top nuts on the base plate of the pole to the proper torque values shown. (Figure 1.)
5. Only attach appropriate luminaire/fixture or accessories to poles. Failure to follow this instruction voids the manufacturer's warranty.

6. Ensure that the luminaire/fixture and/or any accessory is installed on the pole by an experienced professional contractor.

Note: The methods and means for pole and fixture and accessory installation are the responsibility of the professional contractor.

GROUNDING

1. Ensure that poles are grounded in accordance with requirements in the National Electrical Code and applicable Local Electrical Codes.

VIBRATION

1. Vibrations may cause damage to structures, including poles. Vibrations are unpredictable and there are many interacting factors and variables that can cause deleterious vibrations. Many wind conditions exist that can create deleterious vibrations to poles and luminaires, such as constant winds between 10-30 mph. Vibration dampers may be used to mitigate damage from vibrations. Vibration dampers are not included with this pole but they may be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location.
2. Vibration dampers or other industry acceptable vibration mitigation equipment or accessories should be used in the conditions or locations classified below:
 - a. Poles installed on bridges, overpasses, or parking ramp structures;
 - b. Poles with a fixture Effective Projected Area load of less than 0.5;
 - c. Poles for camera support applications;
 - d. Locations that experience prevailing constant winds in the 10 to 30 m.p.h. range;
 - e. Any location with a history of vibration problems;
 - f. Any area or region identified as special wind zone/region per the most recent AASHTO Isotach wind map;
 - g. Locations near an airport, mountain foothills, great lakes, large open areas of flat ground or any other unique locations that may experience abnormal wind conditions.

Bolt Diameter in Inches	3/4"	1"	1-3/4"	1-1/2"
Recommended foot pounds of torque when nuts are not lubricated	105	250	500	870
Recommended foot pounds of torque when nuts are lubricated	78	190	380	650

Figure 1.