



# INSTALLATION INSTRUCTIONS

## SOLAR SPECIFIC LIGHT POLE — SF-SLP-20-G / 25-G / 30-G

| PRODUCT                   | APPLICATION                   | MOUNTING TYPE                   | REVISION |
|---------------------------|-------------------------------|---------------------------------|----------|
| SF-SLP-20-G / 25-G / 30-G | Solar Light Pole Installation | Base Plate / Cage Bolt Assembly | Rev. 01  |

### 1. PRODUCT APPLICATION

SF Industries solar-specific light poles provide a structural mounting solution for solar-powered lighting systems in commercial, municipal, industrial, recreational, and remote applications. Poles are available in nominal 20 ft, 25 ft, and 30 ft heights and are fabricated from ¼-inch hot-dip galvanized carbon steel. Each pole has a solid welded base plate; a custom cage bolt assembly is included. Installation must follow the approved, site-specific foundation and structural requirements.

### 2. SAFETY & PRE-INSTALLATION REQUIREMENTS

- Read these instructions, the product data sheet, approved project drawings, and all applicable site requirements before installation.
- Installation must be planned and performed by qualified personnel using appropriate lifting equipment, rigging, and fall protection.
- Confirm the selected pole height (20 ft, 25 ft, or 30 ft), location, solar equipment, and site conditions match the approved project documents.
- Wind rating of up to 150 mph. Obtain project-engineer confirmation that the pole and foundation are suitable for the actual site.
- Inspect the pole, welded base plate, galvanized finish, cage bolt assembly, and all hardware for damage, deformation, corrosion, or missing parts. Do not install damaged components.
- Establish an exclusion zone during lifting and erection. Keep personnel clear of suspended loads and do not work beneath a raised pole.

### 3. KIT COMPONENTS

| COMPONENT                 | DESCRIPTION                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------|
| Solar Specific Light Pole | ¼-inch carbon steel pole; nominal 20 ft, 25 ft, or 30 ft height; hot-dip galvanized coating. |
| Welded Base Plate         | Solid welded base plate at pole base.                                                        |
| Custom Cage Bolt Assembly | Included with the pole; install only to the approved foundation/anchor layout.               |

### 3. KIT COMPONENTS

## SOLAR SPECIFIC LIGHT POLE — INSTALLATION PROCEDURE

### 4. INSTALLATION PROCEDURE

1. Verify site and documents — Confirm the pole model/height, installation location, solar-lighting equipment, and current approved foundation/structural drawings. Resolve any conflicts before work begins.
2. Inspect pole and components — Check the pole shaft, welded base plate, galvanizing, and supplied cage bolt assembly. Verify parts are correct and undamaged. Do not field-cut, drill, weld, or modify the pole unless approved in writing by the responsible engineer/manufacturer.
3. Establish foundation layout — Locate and orient the foundation using the approved project drawings. Confirm underground utilities and site clearances before excavation. Foundation size, depth, concrete mix, reinforcement, and anchor geometry must come from the approved engineered design; they are not specified in the product data sheet.
4. Install cage bolt assembly — Position and brace the supplied cage bolt assembly to the approved anchor-bolt layout and elevation. Verify bolt projection, spacing, orientation, and plumb against the project drawings before concrete placement. Do not use assumed dimensions.
5. Place and cure foundation — Construct and place the foundation in accordance with the approved structural documents and applicable project requirements. Protect the anchor assembly from movement during placement. Do not erect the pole until the concrete has achieved the strength and release criteria specified by the project engineer.
6. Prepare for lifting — Use a qualified lifting crew and suitable, inspected rigging. Determine lift points and handling method from the pole/rigging plan. Protect the galvanized coating from unnecessary damage. Keep personnel outside the lifting and fall zones.
7. Set pole on anchor assembly — Raise the pole under controlled conditions and lower the base plate over the anchor bolts. Avoid damaging threads or forcing the plate onto misaligned anchors. Install the specified washers and nuts in the sequence required by the approved design/hardware instructions.



**8. Plumb, align, and secure** — Align the pole to the required orientation and verify plumb. Tighten anchor hardware using the torque/tension requirements specified by the approved engineering documents or hardware manufacturer. The product data sheet does not state a numerical torque value.

## 5. ANCHOR HARDWARE / TORQUE REQUIREMENTS

**IMPORTANT:** The supplied Solar Specific Light Pole data sheet does not specify anchor-bolt dimensions, nut/washer configuration, or numerical torque/tension values. Do not use values from another product or application. Follow the approved project engineering specification and the anchor-hardware manufacturer's requirements. If these requirements are not available, stop and obtain direction from the responsible project engineer.

## 6. APPLICATION LIMITS & NOTES

- Available nominal pole heights: 20 ft, 25 ft, and 30 ft. Confirm the model ordered before installation.
- Material is ¼-inch hot-dip galvanized carbon steel; the data sheet references ASTM A123 for the galvanized coating.
- Weight Limit 50lbs

## SOLAR SPECIFIC LIGHT POLE — POST-INSTALLATION & TECHNICAL INFORMATION

### 7. POST-INSTALLATION CHECK

**Correct pole model and height installed at the approved location.**

**Pole, base plate, galvanizing, and cage bolt assembly show no visible damage or deformation.**

- Foundation and anchor installation match the approved project drawings.
- Anchor hardware is installed and tightened to the approved project/hardware requirements.
- Pole is plumb, properly oriented, and stable; no visible movement is present.
- Solar lighting equipment and mounting hardware are installed per their manufacturer's instructions and project documents.
- Required clearances, access paths, and underground/overhead utility clearances are maintained.
- Installation has been inspected and accepted by the responsible qualified person/project representative.

### 8. MAINTENANCE & INSPECTION

- Inspect the pole, base plate, visible anchor hardware, coating, and mounted equipment periodically and after significant wind events, impact, vibration, or maintenance activity. Look for loose hardware, corrosion, coating damage, cracking, deformation, unusual movement, or damage to the foundation. Follow the project maintenance plan and equipment manufacturer's instructions. If damage or movement is observed, restrict access as appropriate and have the installation evaluated by qualified personnel before returning it to service.

### 9. TECHNICAL REFERENCE

Use these instructions together with the applicable SF Industries product data sheet, approved engineering and foundation drawings, anchor-hardware specifications, solar lighting equipment manufacturer's instructions, project specifications, and governing codes. Where this guide does not provide a value or detail, the approved project documents govern.

### 10. PRODUCT DATA REFERENCE

MANUFACTURER: SF Industries USA | PRODUCT: Solar Specific Light Pole — SF-SLP-20-G / 25-G / 30-G

### 10. PRODUCT DATA REFERENCE

| PARAMETER         | SUPPLIED DATA                                                                         |
|-------------------|---------------------------------------------------------------------------------------|
| Part Number       | SF-SLP-20-G / SF-SLP-25-G / SF-SLP-30-G                                               |
| Material          | ¼ in. hot-dip galvanized carbon steel                                                 |
| Height Options    | 20 ft, 25 ft, or 30 ft                                                                |
| Base / Hardware   | Solid welded base plate; custom cage bolt assembly included                           |
| Coating Reference | ASTM A123 (as stated in data sheet)                                                   |
| Wind Rating       | Up to 150 mph                                                                         |
| Applications      | Parking lots; industrial storage yards; trail/pathway lighting; commercial properties |

MANUFACTURER: SF Industries USA | PRODUCT: SF-SLP-20-G / 25-G / 30-G