

HAS

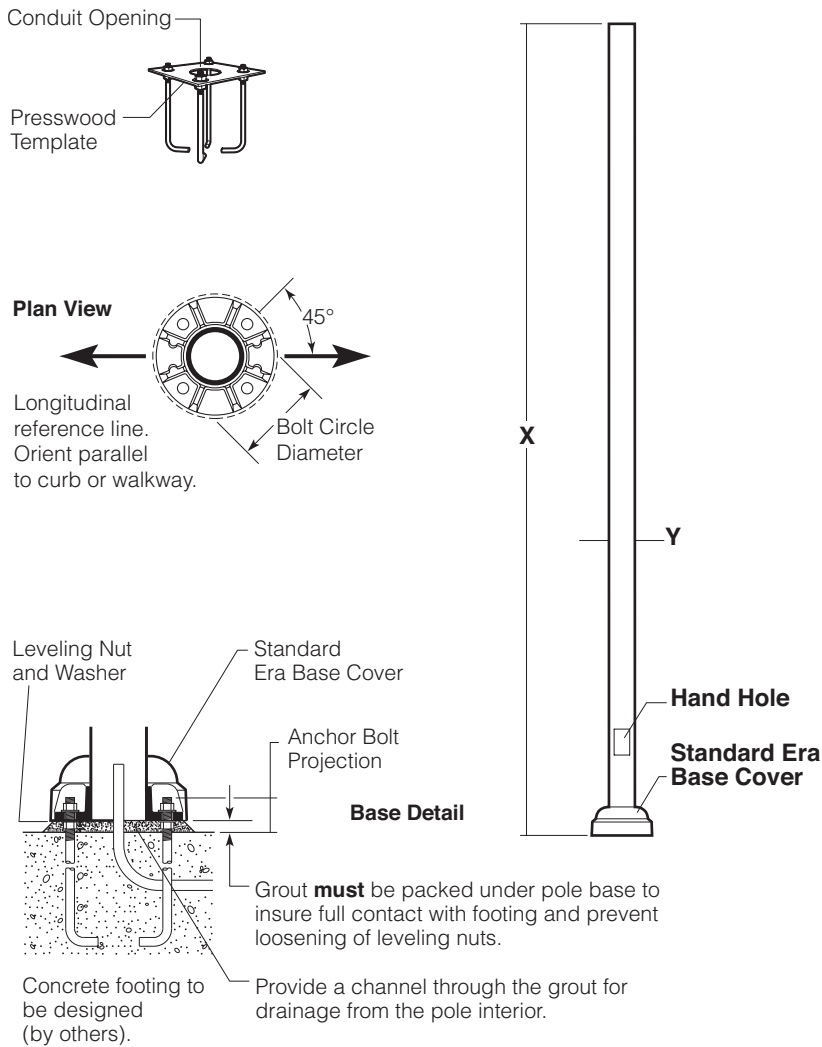
ERA® ROUND ALUMINUM NON-TAPERED POLE

Type:
Job:
Catalog number:

Approvals:

| | | | | | | |
|---------------|------------|---------------------|-------------|--------------------|------------------------------|----------------------------|
| Pole Cat. No. | / | / | / | / | / | / |
| | Mounting | Arm Drilling Option | Pole Finish | Optional Base Cove | Optional Pole Top Cap/Finial | Optional Duplex Receptical |
| | See page 2 | See page 3 | | | See page 4 | |

Specifications



Pole Construction: Seamless round extruded aluminum tube of alloy 6061-T6, welded to top and bottom of aluminum base casting of alloy 356.

Base Cover: Two-piece, cast aluminum full cover, secured by stainless set screws. The standard base cover is the Era Base Cover. Two optional base cover styles available. (See page 4)

- 1) **HBC1** - Decorative smooth sided cast aluminum base cover.
- 2) **HBC2** - Traditional fluted side cast aluminum base cover.

Pole Cap: Flat cast aluminum provided for all side-mounted luminaires. Optional traditional style finial available. (See page 4)

- 1) **HF1** - Dome style cast aluminum cap.
- 2) **HF2** - Traditional style cast aluminum finial.

Handhole: 18" above the base cover, with a gasketed cover and ground lug.

Anchor Bolts: Four galvanized anchor bolts provided complete with eight nuts, eight flat washers, and a presswood template.

Vibration Dampener: All poles 25' and above include an internally mounted, factory installed pendulum vibration dampener, with flush stainless steel socket head fasteners finished to match pole.

Strength: Poles designed to withstand wind loads as listed in chart (See page 5) when luminaires are mounted per fixture installation instructions. Refer to specific Era® Collection mounting arm for specific luminaire and arm EPA.

Finish: Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating.

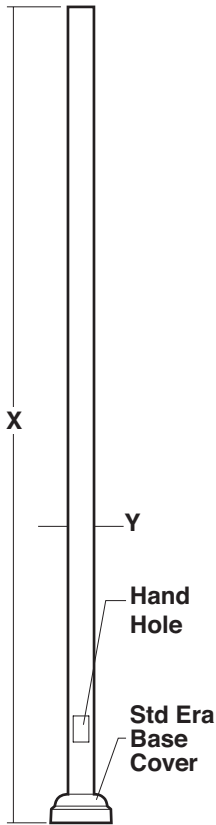
CAUTION: Do not install poles without luminaires or strength guarantee is voided. Any unauthorized accessories secured to pole shall void strength guarantee.

Maintenance: A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.

Certification: Certified UL 1598 in accordance with Article 410 of ANSI/NFPA 70, National Electrical Code.

Standard Features

NOTE: All allowable pole and fixture EPAs (Effective Projected Area, which is Fixture Area x Drag Factor) are derived from the AASHTO standard (American Association of State Highway and Transportation Officials). Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location (See page 5).



| Pole Catalog Number | X | Y | Allowable Pole EPA | | | | | | | Wind Map Steady Wind | |
|---------------------|-------|-----------|--------------------|-------|-------|-------|-------|-------|-------|----------------------|--|
| | | | 85 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | |
| HAS10-4188 | 10' | 4" x .188 | 16.55 | 14.56 | 13.26 | 10.64 | 8.65 | 7.17 | 6.10 | 5.25 | |
| HAS12-4188 | 12' | 4" x .188 | 13.12 | 11.46 | 10.38 | 8.19 | 6.53 | 5.33 | 4.50 | 3.84 | |
| HAS14-4188 | 14' | 4" x .188 | 10.56 | 9.14 | 8.21 | 6.34 | 4.92 | 3.91 | 3.26 | 2.74 | |
| HAS16-4188 | 16' | 4" x .188 | 8.56 | 7.31 | 6.50 | 4.86 | 3.62 | 2.76 | 2.25 | 1.85 | |
| HAS10-5188 | 10' | 5" x .188 | 27.26 | 24.07 | 21.97 | 18.01 | 15.02 | 12.71 | 10.88 | 9.42 | |
| HAS12-5188 | 12' | 5" x .188 | 21.18 | 19.22 | 17.47 | 14.26 | 11.85 | 9.99 | 8.52 | 7.35 | |
| HAS14-5188 | 14' | 5" x .188 | 17.90 | 15.62 | 14.12 | 11.46 | 9.48 | 7.95 | 6.75 | 5.79 | |
| HAS16-5188 | 16' | 5" x .188 | 14.80 | 12.81 | 11.50 | 9.26 | 7.61 | 6.34 | 5.34 | 4.55 | |
| HAS20-5188 | 19.5' | 5" x .188 | 9.83 | 8.29 | 7.28 | 5.73 | 4.60 | 3.75 | 3.09 | 2.56 | |
| HAS10-6188 | 10' | 6" x .188 | 40.66 | 36.17 | 33.42 | 27.49 | 23.00 | 19.51 | 16.75 | 14.53 | |
| HAS12-6188 | 12' | 6" x .188 | 32.89 | 29.22 | 27.04 | 22.20 | 18.53 | 15.69 | 13.44 | 11.64 | |
| HAS14-6188 | 14' | 6" x .188 | 27.19 | 24.11 | 22.37 | 18.31 | 15.24 | 12.87 | 11.00 | 9.49 | |
| HAS16-6188 | 16' | 6" x .188 | 22.77 | 20.16 | 18.75 | 15.29 | 12.69 | 10.68 | 9.09 | 7.82 | |
| HAS20-6188 | 19.5' | 6" x .188 | 15.69 | 13.81 | 12.95 | 10.46 | 8.59 | 7.16 | 6.03 | 5.14 | |
| HAS25-6188 | 25' | 6" x .188 | 9.74 | 8.46 | 8.07 | 6.38 | 5.12 | 4.17 | 3.43 | 2.85 | |
| HAS25-6250 | 25' | 6" x .250 | 16.92 | 14.86 | 13.96 | 11.25 | 9.22 | 7.66 | 6.44 | 5.47 | |
| HAS30-6188 | 30' | 6" x .188 | 5.61 | 4.74 | 4.69 | 3.54 | 2.71 | 2.08 | 1.60 | 1.23 | |
| HAS30-6250 | 30' | 6" x .250 | 11.37 | 9.88 | 9.42 | 7.45 | 5.99 | 4.88 | 4.02 | 3.34 | |
| HAS30-6400' | 30' | 6" x .400 | 20.33 | 17.87 | 16.78 | 13.53 | 11.10 | 9.23 | 7.77 | 6.61 | |

*Pole reinforced, to 40" above base, to .400", remaining section is .250"

Anchor Base and Bolt Detail

| Pole Height | Pole Diameter | Bolt Circle DIA | Anchor Bolt Projection | Anchor Bolts Size | Base Cover Size | Conduit Opening |
|-------------|---------------|-----------------|------------------------|-------------------|-----------------|-----------------|
| 10'-16' | 4" | 8½" | 3¾" | ¾" x 15" + 3" | 11" DIA | 3" DIA |
| 10'-14' | 5" | 8½" | 3¾" | ¾" x 15" + 3" | 11 7/8" DIA | 3" DIA |
| 16'-20' | 5" | 8½" | 3¾" | ¾" x 30" + 4" | 11 7/8" DIA | 3" DIA |
| 10'-30' | 6" | 10½" | 3C" | ¾" x 30" + 4" | 14" DIA | 5" DIA |

Mounting

Flush Mount | **Side Arm**

Plan Views:

Mounting: | FM | A | SA | B | SB | L | SL | T | ST | Y | SY | C | SC

NOTE: Allowable Pole EPA for jobsite wind conditions must be equal to or greater than fixture mount EPA. Please refer to Kim luminaire catalog for specific fixture.

Available Arm Drilling

Please see pole drilling requirements in specific Kim luminaire catalog.

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-----------|-------|
| HA02S | HA02L | HA14S | HA14L | HA34S | HA34L | HA38S | HA38L |
| HA11S | HA11L | HA31S | HA31L | HA35S | HA35L | NO OPTION | |
| HA12S | HA12L | HA32S | HA32L | HA36S | HA36L | | |
| HA13S | HA13L | HA33S | HA33L | HS37S | HA37L | | |

Standard Features

Finish

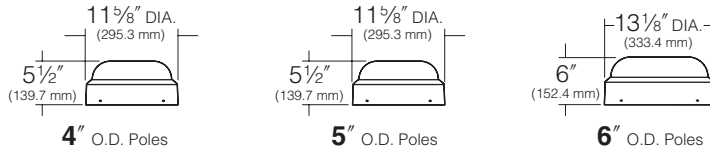
Super TGIC powder coat paint over a titanated zirconium conversion coating.

- | | | | |
|------------|----------------------------|------------|------------------------------|
| Cat. No.: | Color: | Cat. No.: | Color: |
| BLS | Black Gloss Smooth | LGT | Light Grey Matte Textured |
| BLT | Black Matte Textured | PSS | Platinum Silver Gloss Smooth |
| DBS | Dark Bronze Gloss Smooth | VGT | Verde Green Matte Textured |
| DBT | Dark Bronze Matte Textured | WHS | White Gloss Smooth |
| GTT | Graphic Matte Textured | WHT | White Matte Textured |
| LGS | Light Grey Gloss Smooth | CC | Custom Color |

Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

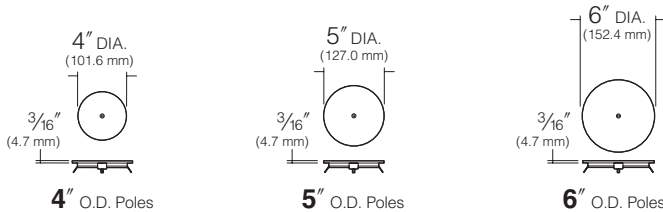
Standard Era® Base Cover

The standard Era Base Cover is a heavy and durable cast aluminum component, configured in two halves for easy attachment after the pole is raised and set onto the anchor bolts.



Standard Flat Pole Cap

The standard Flat Pole Cap is cast aluminum, secured by a single top screw activating an internal expansion clip.

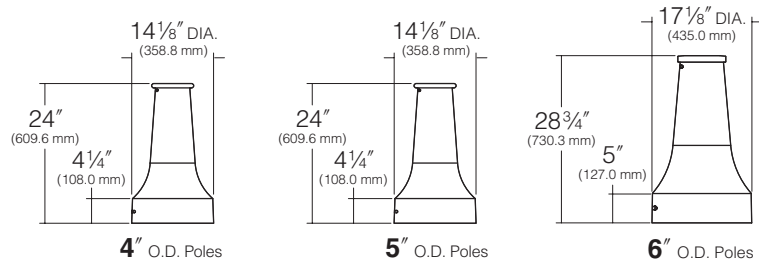


Optional Features

Optional Decorative Base Cover

Cat. No. | **HBC1**

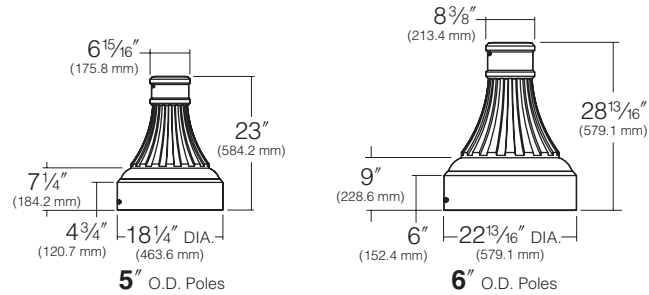
The Decorative Base Cover is constructed of heavy and durable cast aluminum, the base is supplied in two halves for easy attachment after the pole is raised and set onto the anchor bolts.



Optional Traditional Base Cover

Cat. No. | **HBC2**
| No Option

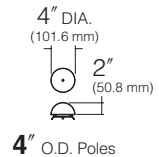
The Traditional Base Cover is constructed of heavy and durable cast aluminum, supplied in two halves for easy attachment after the pole is raised and set onto the anchor bolts.



Optional Dome Pole Top Cap

Cat. No. | **HF1**

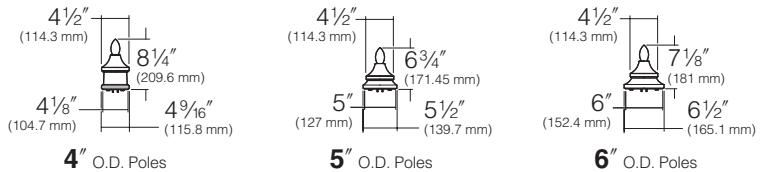
Dome Pole Top Cap is cast aluminum, finished to match the pole, and available for 4" diameter pole tops.



Optional Traditional Pole Top Finial

Cat. No. | **HF2**
| No Option

Each finial is cast aluminum, and available for 4", 5", and 6" diameter pole tops.



Optional Duplex Receptacle

Cat. No. | **DR**
| **DR-GFI**
| No Option

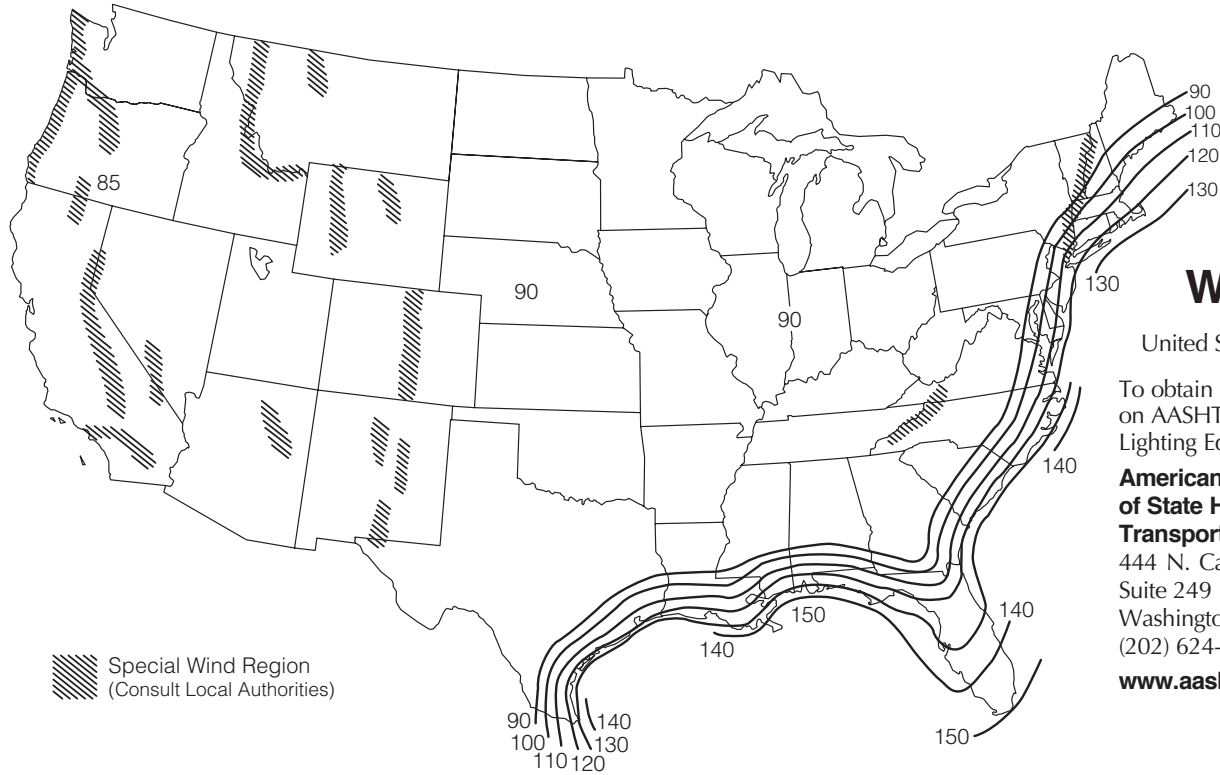
Mounted opposite the handhole, at 22 1/2" above the base cover, in a cast aluminum box that is internally welded and sealed with a gasketed self-closing cover and locking bracket.

Duplex Receptacle (DR) rated 20A., 125V.

Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI) rated 20A., 125V.

Type:

Job:



Wind Map

United States and Canada

To obtain more information on AASHTO Standards for Lighting Equipment contact:

American Association of State Highway and Transportation Officials:
 444 N. Capitol Street, NW,
 Suite 249
 Washington, DC 20001
 (202) 624-5800

www.aashto.org

NOTES:

- Values are based on 50 year mean recurrence interval 30' above grade.
- Hawaii has an **105 mph** wind velocity.
- Puerto Rico has a **125 mph** wind velocity.
- Caution must be exercised in determining wind velocities in special wind areas such as:
 - Mountainous Regions
 - Areas surrounding the Great Lakes or other large bodies of water or open land.
 - Areas subject to extreme wind conditions, such as hurricanes, typhoons, cyclones, and tornadoes.
 - Areas adjacent to airports.
 - Any specific area with a known or suspected abnormally high intermittent wind condition caused by geography, adjacent structures, or other specific local conditions that may not be recorded in National Weather Service records.
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than fixture EPA. Responsibility lies with the specifier for correct pole selection based on AASHTO wind map and job location.
- The Wind Map is intended only as a general guide. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application.
- **CAUTION:** Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide. Consult AASHTO standards.
- Extreme Wind Events: Hurricanes, Typhoons, Cyclones, or Tornadoes expose poles to flying debris, wind shear, and other unpredictable aerodynamic forces not indicated by the wind velocity ratings.
- Pole Strength Limited Warranty: Standard, unmodified Kim lighting Poles installed as recommended, undamaged by corrosion, or lack of maintenance, shall withstand steady wind conditions as provided on page 2 (Allowable Pole EPA). Installation of poles without luminaires, or attachment of any unauthorized accessories to poles shall void this warranty.