

**KSS**

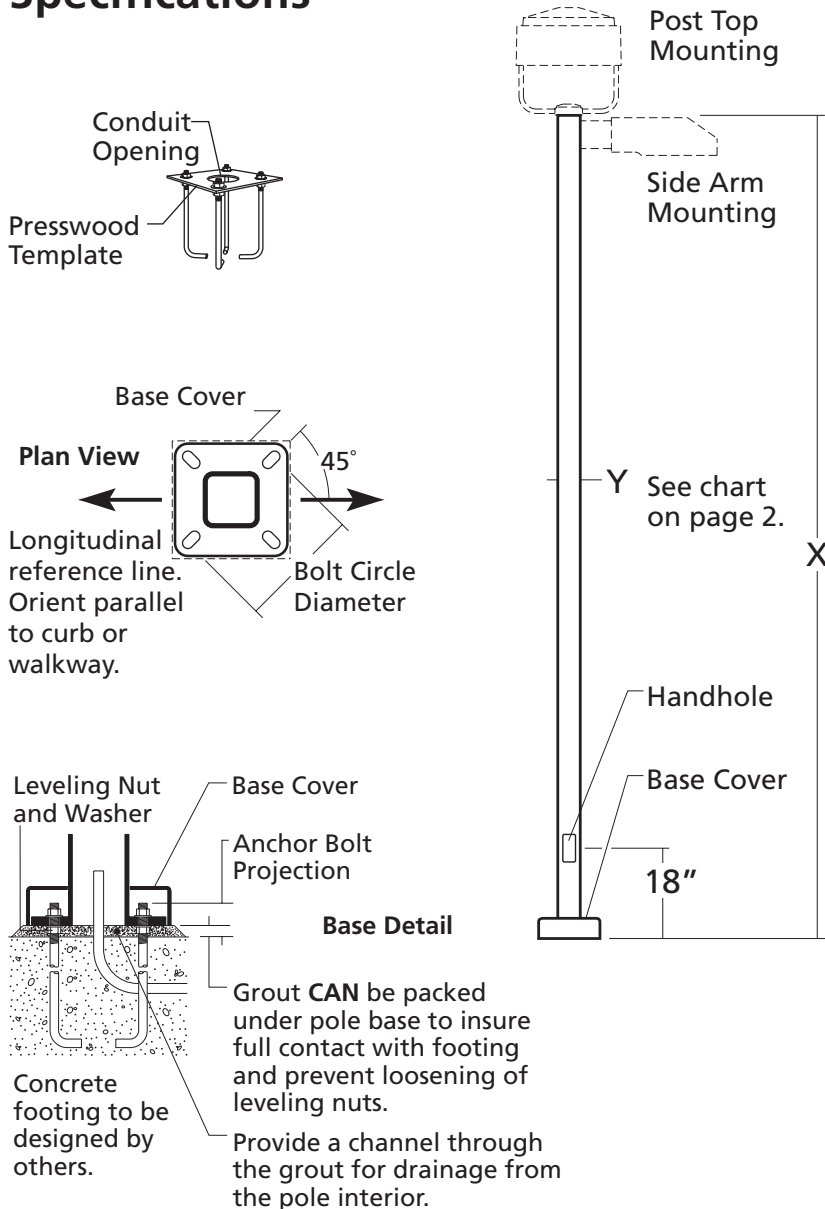
SQUARE STEEL NON-TAPERED POLE

**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

Pole Cat. No.	Mounting	Structural Luminaire Option	Finish	Optional Duplex Receptacle Receptical
_____	_____	_____	_____	_____
See page 2			See page 4	

**Specifications**



**Pole Construction:** One-piece non-tapered square shaft of low carbon steel (ASTM-A500, Grade B, 46,000 PSI min. yield) with one flush-welded vertical seam. Shaft is welded to a flat steel anchor base (ASTM-36, 36,000 PSI min. yield).

**Base Cover:** Base has a two-piece cast aluminum full cover of 319 alloy, secured by stainless steel screws.

**Pole Cap:** A flush-sided cast aluminum pole cap is provided for side arm mounted luminaires.

**Handhole:** 18" up from base, with a gasketed cover and ground lug. Reinforced 3" x 5" handhole is provided on poles 20' and taller.

**Anchor Bolts:** Four fully galvanized anchor bolts provided (ASTM-36, 36,000 PSI min. yield), complete with eight galvanized nuts, eight galvanized flat washers, and a presswood template.

**Strength:** Poles will withstand wind loads as listed in chart (see page 2) when luminaires are mounted per fixture installation instructions.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness.

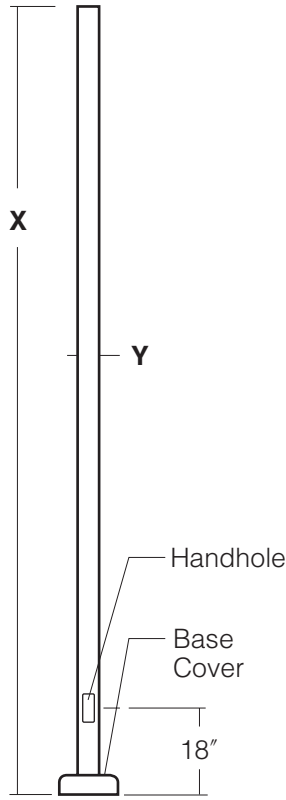
**CAUTION:** Do not install poles without luminaires or strength guarantee is voided. Any unauthorized accessories secured to pole shall void strength guarantee.

**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 are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 4)

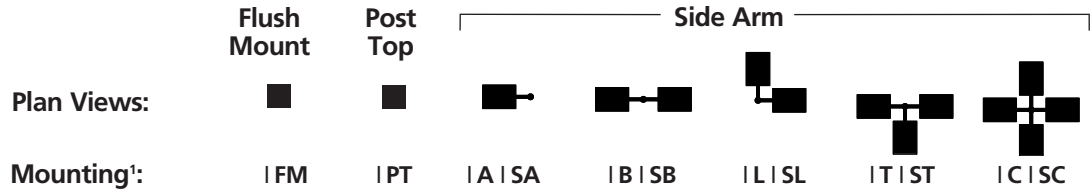


Pole <sup>TM</sup> Pole Catalog Number	Pole		Allowable Pole EPA								Wind Map
	X	Y	85	90	100	110	120	130	140	150	
I KSS10-4120	10'	4" x 11 ga.	28.7	25.3	20	16	13.06	10.71	8.85	7.33	
I KSS12-4120	12'	4" x 11 ga.	22.91	20.12	15.67	12.37	9.86	7.91	6.35	5.11	
I KSS14-4120	14'	4" x 11 ga.	18.66	16.22	12.4	9.57	7.42	5.75	4.42	3.35	
I KSS16-4120	16'	4" x 11 ga.	15.25	13.15	9.81	7.32	5.45	3.98	2.82	1.86	
I KSS20-4120	19.5'	4" x 11 ga.	10.42	8.73	6.05	4.06	2.6	1.43	0.51	---	
I KSS20-4180	19.5'	4" x 7 ga.	20.6	17.8	13.5	10.3	7.9	6	4.5	3.3	
I KSS25-4120	25'	4" x 11 ga.	5.05	3.8	1.82	0.38	---	---	---	---	
I KSS25-4180	25'	4" x 7 ga.	12.8	10.7	7.6	5.3	3.5	2.1	---	---	
I KSS25-5120	25'	5" x 11 ga.	9.1	7.35	4.52	2.35	0.71	---	---	---	
I KSS25-5180	25'	5" x 7 ga.	13.9	11.6	7.9	5.1	3	1.4	---	---	
I KSS30-4180	30'	4" x 7 ga.	5.9	4.7	2.5	1.1	---	---	---	---	
I KSS30-5180	30'	5" x 7 ga.	10.7	8.5	5.2	2.7	0.8	---	---	---	

### Anchor Base and Bolt Detail

Pole Height	Pole Size	Bolt Circle DIA	Anchor Bolt Projection	Anchor Bolts Size	Base Cover Size	Conduit Opening
10'-16'	4"	7 1/2"-8 1/2"	3 3/8"	3/4" x 15" + 3"	8 5/8" sq.	3" SQ
20'-30'	4"	7 1/2"-8 1/2"	3 3/8"	3/4" x 30" + 3"	8 5/8" sq.	3" SQ
25'-30'	5"	10"-12 1/2"	3 7/8"	3/4" x 30" + 3"	12 5/8" sq.	3" SQ

### Mounting



**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.

\*See luminaire drilling requirements in luminaire catalog.+

### Structural Luminaires Only - Examples

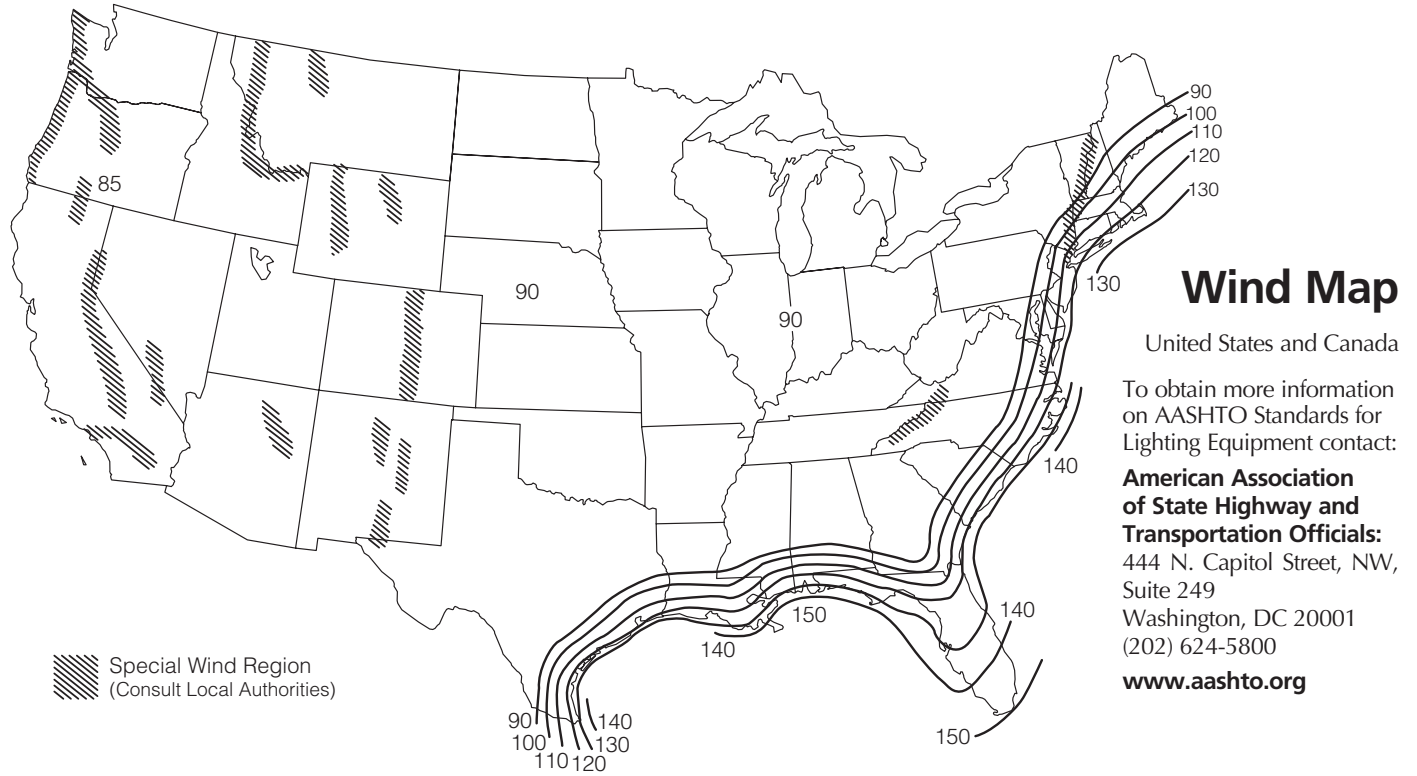
- I **TS**: Single Tension for small and large Structural - KSS20-4120B-TS
- I **TD**: Double Tension for small and large Structural - KSS20-4120B-TD
- I **TR**: Truss for small and large Structural - KSS20-4120B-TR
- I **XTS**: Single Tension for 1000W Structural - KSS20-4120B-XTS
- I **XTD**: Double Tension for 1000W Structural - KSS20-4120B-XTD
- I **XTR**: Truss for 1000W Structural - KSS20-4120B-XTR

## Standard and Optional Features

<p><b>Finish</b> Powder coat paint.</p>	<table border="0"> <tr> <td>Cat. No.:</td> <td>Color:</td> <td>Cat. No.:</td> <td>Color:</td> </tr> <tr> <td><b>BLS</b></td> <td>Black Gloss Smooth</td> <td><b>LGT</b></td> <td>Light Grey Matte Textured</td> </tr> <tr> <td><b>BLT</b></td> <td>Black Matte Textured</td> <td><b>PSS</b></td> <td>Platinum Silver Gloss Smooth</td> </tr> <tr> <td><b>DBS</b></td> <td>Dark Bronze Gloss Smooth</td> <td><b>VGT</b></td> <td>Verde Green Matte Textured</td> </tr> <tr> <td><b>DBT</b></td> <td>Dark Bronze Matte Textured</td> <td><b>WHS</b></td> <td>White Gloss Smooth</td> </tr> <tr> <td><b>GTT</b></td> <td>Graphic Matte Textured</td> <td><b>WHT</b></td> <td>White Matte Textured</td> </tr> <tr> <td><b>LGS</b></td> <td>Light Grey Gloss Smooth</td> <td><b>CC</b></td> <td>Custom Color<sup>1</sup></td> </tr> </table> <p><sup>1</sup>Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>	Cat. No.:	Color:	Cat. No.:	Color:	<b>BLS</b>	Black Gloss Smooth	<b>LGT</b>	Light Grey Matte Textured	<b>BLT</b>	Black Matte Textured	<b>PSS</b>	Platinum Silver Gloss Smooth	<b>DBS</b>	Dark Bronze Gloss Smooth	<b>VGT</b>	Verde Green Matte Textured	<b>DBT</b>	Dark Bronze Matte Textured	<b>WHS</b>	White Gloss Smooth	<b>GTT</b>	Graphic Matte Textured	<b>WHT</b>	White Matte Textured	<b>LGS</b>	Light Grey Gloss Smooth	<b>CC</b>	Custom Color <sup>1</sup>
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<p><b>Optional Duplex Receptacle</b> Cat. No.   <b>DR</b>             <b>DR-GFI</b>             <b>No Option</b></p>	<p>Mounted opposite the handhole, at 22 1/2" from base of pole, in a cast aluminum box that is internally welded and sealed with a gasketed self-closing cover and locking bracket.</p> <p><b>Duplex Receptacle (DR)</b> rated 20A., 125V. <b>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A., 125V.</p>																												

Type:

Job:



**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.