

# FF-A // FLUTED TAPERED ALUMINUM

ROADWAY METAL POLE



**King Luminaire**

## POLE SPECIFICATIONS

**MATERIAL:**  
Fluted Tapered Aluminum

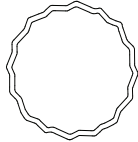
**POLE HEIGHT:**  
19' - 28'

**OPTIONS:**  
GFI - Ground Fault Receptacle  
BA - Banner Arms  
FPH - Flower Pot Holder  
FH - Flag Holder

**ALLOY:**  
5052-H32

**FINISH:**  
Available in textured or smooth.

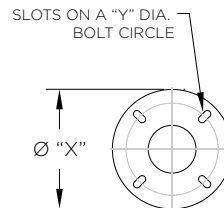
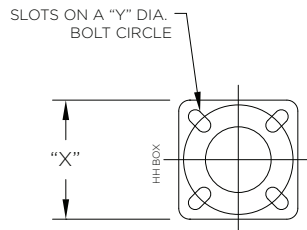
### CROSS SECTION:



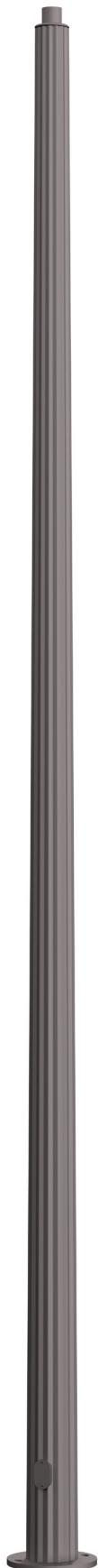
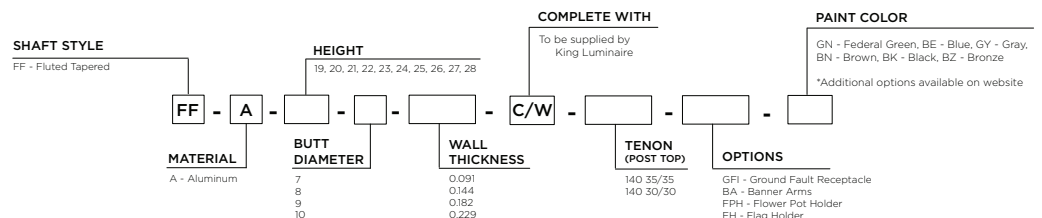
Fluted Tapered (FF)

## BASEPLATE DETAILS

Pole		Baseplate				Bolt Circle		Anchor Bolts	
Butt Diameter (in)	Wall Thickness (in)	"X" Size (in)	Square or Circle	Thickness (in)	Corner Radius (In)	"Y" Dia (in)	+/- (in)	Dia x Length x Hook (in)	Projection (in)
7	0.091	12.0625	Square	0.75	1.75	11	0.75	0.75 x 27 x 3.75	3.25
7	0.144	12.0625	Square	0.75	1.75	11	0.75	0.75 x 27 x 3.75	3.25
7	0.182	12.0625	Square	0.75	1.75	11	0.75	0.75 x 27 x 3.75	3.25
7	0.229	12.0625	Square	0.75	1.75	11	0.75	0.75 x 27 x 3.75	3.25
8	0.144	12.0625	Square	0.75	1.75	11.6875	0.5625	0.75 x 27 x 3.75	3.25
8	0.182	12.0625	Square	1	1.75	11.6875	0.5625	0.75 x 27 x 3.75	3.5
8	0.229	12.0625	Square	1	1.75	11.6875	0.5625	0.75 x 27 x 3.75	3.5
9	0.091	15.5625	Circle	0.75	-	12.5	0	0.75 x 27 x 3.75	3.25
9	0.144	15.5625	Circle	0.75	-	12.5	0	0.75 x 27 x 3.75	3.25
9	0.182	15.5625	Circle	1	-	12.5	0	1 x 36 x 5	4.25
9	0.229	15.5625	Circle	1	-	12.5	0	1 x 36 x 5	4.25
10	0.182	14	Square	1	2	14.25	0.75	1 x 36 x 5	4.25
10	0.229	14	Square	1	2	14.25	0.75	1 x 36 x 5	4.25



## HOW TO ORDER



# SHAFT DETAILS

## FF-A ROADWAY METAL POLE

FF ALUMINUM // Pole Details

Nominal Mounting Height (ft)	Catalog Code	Alloy	Butt (in)	Tip (in)	Wall Thickness (in)	Handhole	Wt. (lbs) *
19	FF-A-19-7-0.144	5052-H32	7	4.34	0.144	3" x 5" Reinforced (MIN 14" AG)	65.0
	FF-A-19-7-0.182	5052-H32	7	4.34	0.182	3" x 5" Reinforced (MIN 14" AG)	79.0
	FF-A-19-7-0.229	5052-H32	7	4.34	0.229	3" x 5" Reinforced (MIN 14" AG)	96.0
20	FF-A-20-7-0.144	5052-H32	7	4.2	0.144	3" x 5" Reinforced (MIN 14" AG)	67.0
	FF-A-20-7-0.182	5052-H32	7	4.2	0.182	3" x 5" Reinforced (MIN 14" AG)	81.0
	FF-A-20-7-0.229	5052-H32	7	4.2	0.229	3" x 5" Reinforced (MIN 14" AG)	99.0
	FF-A-20-8-0.144	5052-H32	8	5.2	0.144	3" x 5" Reinforced (MIN 14" AG)	78.0
	FF-A-20-8-0.182	5052-H32	8	5.2	0.182	3" x 5" Reinforced (MIN 14" AG)	98.0
	FF-A-20-8-0.229	5052-H32	8	5.2	0.229	3" x 5" Reinforced (MIN 14" AG)	119.0
	FF-A-20-8-0.229	5052-H32	8	5.2	0.229	3" x 5" Reinforced (MIN 14" AG)	119.0
21	FF-A-21-7-0.182	5052-H32	7	4.06	0.182	3" x 5" Reinforced (MIN 14" AG)	84.0
	FF-A-21-7-0.229	5052-H32	7	4.06	0.229	3" x 5" Reinforced (MIN 14" AG)	102.0
	FF-A-21-8-0.144	5052-H32	8	5.06	0.144	3" x 5" Reinforced (MIN 14" AG)	80.0
	FF-A-21-8-0.182	5052-H32	8	5.06	0.182	3" x 5" Reinforced (MIN 14" AG)	101.0
	FF-A-21-8-0.229	5052-H32	8	5.06	0.229	3" x 5" Reinforced (MIN 14" AG)	123.0
	FF-A-21-9-0.091	5052-H32	9	6.06	0.091	3" x 5" Reinforced (MIN 16" AG)	65.0
	FF-A-21-9-0.144	5052-H32	9	6.06	0.144	3" x 5" Reinforced (MIN 16" AG)	94.0
	FF-A-21-9-0.182	5052-H32	9	6.06	0.182	3" x 5" Reinforced (MIN 16" AG)	119.0
	FF-A-21-9-0.229	5052-H32	9	6.06	0.229	3" x 5" Reinforced (MIN 16" AG)	144.0
22	FF-A-22-8-0.144	5052-H32	8	4.92	0.144	3" x 5" Reinforced (MIN 14" AG)	83.0
	FF-A-22-8-0.182	5052-H32	8	4.92	0.182	3" x 5" Reinforced (MIN 14" AG)	104.0
	FF-A-22-8-0.229	5052-H32	8	4.92	0.229	3" x 5" Reinforced (MIN 14" AG)	127.0
	FF-A-22-9-0.144	5052-H32	9	5.92	0.144	3" x 5" Reinforced (MIN 16" AG)	97.0
	FF-A-22-9-0.182	5052-H32	9	5.92	0.182	3" x 5" Reinforced (MIN 16" AG)	123.0
	FF-A-22-9-0.229	5052-H32	9	5.92	0.229	3" x 5" Reinforced (MIN 16" AG)	149.0
23	FF-A-23-8-0.144	5052-H32	8	4.78	0.144	3" x 5" Reinforced (MIN 14" AG)	85.0
	FF-A-23-8-0.182	5052-H32	8	4.78	0.182	3" x 5" Reinforced (MIN 14" AG)	107.0
	FF-A-23-8-0.229	5052-H32	8	4.78	0.229	3" x 5" Reinforced (MIN 14" AG)	130.0
	FF-A-23-9-0.144	5052-H32	9	5.78	0.144	3" x 5" Reinforced (MIN 16" AG)	100.0
	FF-A-23-9-0.182	5052-H32	9	5.78	0.182	3" x 5" Reinforced (MIN 16" AG)	127.0
	FF-A-23-9-0.229	5052-H32	9	5.78	0.229	3" x 5" Reinforced (MIN 16" AG)	154.0
24	FF-A-24-8-0.182	5052-H32	8	4.64	0.182	3" x 5" Reinforced (MIN 14" AG)	110.0
	FF-A-24-8-0.229	5052-H32	8	4.64	0.229	3" x 5" Reinforced (MIN 14" AG)	134.0
	FF-A-24-9-0.144	5052-H32	9	5.64	0.144	3" x 5" Reinforced (MIN 16" AG)	103.0
	FF-A-24-9-0.182	5052-H32	9	5.64	0.182	3" x 5" Reinforced (MIN 16" AG)	130.0
	FF-A-24-9-0.229	5052-H32	9	5.64	0.229	3" x 5" Reinforced (MIN 16" AG)	158.0
25	FF-A-25-8-0.182	5052-H32	8	4.5	0.182	3" x 5" Reinforced (MIN 14" AG)	113.0
	FF-A-25-8-0.229	5052-H32	8	4.5	0.229	3" x 5" Reinforced (MIN 14" AG)	138.0
	FF-A-25-9-0.144	5052-H32	9	5.5	0.144	3" x 5" Reinforced (MIN 16" AG)	106.0
	FF-A-25-9-0.182	5052-H32	9	5.5	0.182	3" x 5" Reinforced (MIN 16" AG)	134.0
	FF-A-25-9-0.229	5052-H32	9	5.5	0.229	3" x 5" Reinforced (MIN 16" AG)	162.0
26	FF-A-26-8-0.229	5052-H32	8	4.36	0.229	3" x 5" Reinforced (MIN 14" AG)	141.0
	FF-A-26-9-0.144	5052-H32	9	5.36	0.144	3" x 5" Reinforced (MIN 16" AG)	108.0
	FF-A-26-9-0.182	5052-H32	9	5.36	0.182	3" x 5" Reinforced (MIN 16" AG)	137.0
	FF-A-26-9-0.229	5052-H32	9	5.36	0.229	3" x 5" Reinforced (MIN 16" AG)	167.0

FF ALUMINUM // Pole Details

Nominal Mounting Height (ft)	Catalog Code	Alloy	Butt (in)	Tip (in)	Wall Thickness (in)	Handhole	Wt. (lbs) *
27	FF-A-27-8-0.229	5052-H32	8	4.22	0.229	3" x 5" Reinforced (MIN 14" AG)	144.0
	FF-A-27-9-0.182	5052-H32	9	5.22	0.182	3" x 5" Reinforced (MIN 16" AG)	140.0
	FF-A-27-9-0.229	5052-H32	9	5.22	0.229	3" x 5" Reinforced (MIN 16" AG)	171.0
	FF-A-27-10-0.182	5052-H32	10	6.22	0.182	3" x 5" Reinforced (MIN 20" AG)	159.0
	FF-A-27-10-0.229	5052-H32	10	6.22	0.229	3" x 5" Reinforced (MIN 20" AG)	193.0
28	FF-A-28-9-0.182	5052-H32	9	5.08	0.182	3" x 5" Reinforced (MIN 16" AG)	144.0
	FF-A-28-9-0.229	5052-H32	9	5.08	0.229	3" x 5" Reinforced (MIN 16" AG)	175.0
	FF-A-28-10-0.182	5052-H32	10	6.08	0.182	3" x 5" Reinforced (MIN 20" AG)	162.0
	FF-A-28-10-0.229	5052-H32	10	6.08	0.229	3" x 5" Reinforced (MIN 20" AG)	198.0

\* Weight includes the pole shaft and baseplate.

## SHAFT LOADING

FF ALUMINUM // Loading

Nominal Mounting Height (ft)	Catalog Code	Design Information // AASHTO LTS-6, Latest Revision **									
		90 MPH		100 MPH		110 MPH		120 MPH		150 MPH	
		Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)
19	FF-A-19-7-0.144	3.9	200	2.7	200	2.0	200	1.5	200	0.6	200
	FF-A-19-7-0.182	5.5	200	4.0	200	3.1	200	2.4	200	1.2	200
	FF-A-19-7-0.229	6.8	200	5.1	200	3.9	200	3.1	200	1.7	200
20	FF-A-20-7-0.144	3.3	200	2.1	200	1.4	200	1.0	200	-	-
	FF-A-20-7-0.182	4.7	200	3.3	200	2.4	200	1.9	200	0.8	200
	FF-A-20-7-0.229	6.0	200	4.3	200	3.3	200	2.6	200	1.3	200
	FF-A-20-8-0.144	5.8	200	4.4	200	3.4	200	2.7	200	1.3	200
	FF-A-20-8-0.182	7.9	200	6.1	200	4.9	200	3.9	200	2.1	200
	FF-A-20-8-0.229	9.2	200	7.2	200	5.7	200	4.6	200	2.5	200
21	FF-A-21-7-0.182	4.0	200	2.7	200	1.9	200	1.4	200	0.5	200
	FF-A-21-7-0.229	5.2	200	3.7	200	2.7	200	2.0	200	0.9	200
	FF-A-21-8-0.144	4.9	200	3.7	200	2.8	200	2.2	200	0.9	200
	FF-A-21-8-0.182	6.9	200	5.3	200	4.2	200	3.3	200	1.7	200
	FF-A-21-8-0.229	8.2	200	6.3	200	5.0	200	4.0	200	2.1	200
	FF-A-21-9-0.091	3.4	200	2.5	200	1.8	200	1.3	200	-	-
	FF-A-21-9-0.144	7.9	200	6.2	200	4.9	200	3.9	200	1.8	200
	FF-A-21-9-0.182	10.6	300	8.4	200	6.8	200	5.5	200	2.9	200
	FF-A-21-9-0.229	11.8	300	9.4	200	7.5	200	6.1	200	3.2	200
22	FF-A-22-8-0.144	4.2	200	3.1	200	2.3	200	1.7	200	0.6	200
	FF-A-22-8-0.182	6.0	200	4.6	200	3.5	200	2.8	200	1.3	200
	FF-A-22-8-0.229	7.3	200	5.6	200	4.3	200	3.4	200	1.7	200
	FF-A-22-9-0.144	7.0	200	5.4	200	4.2	200	3.3	200	1.4	200
	FF-A-22-9-0.182	9.6	200	7.5	200	6.0	200	4.8	200	2.4	200
	FF-A-22-9-0.229	10.7	300	8.4	200	6.7	200	5.4	200	2.8	200
23	FF-A-23-8-0.144	3.5	200	2.4	200	1.8	200	1.3	200	-	-
	FF-A-23-8-0.182	5.2	200	3.9	200	3.0	200	2.3	200	1.0	200
	FF-A-23-8-0.229	6.4	200	4.8	200	3.7	200	2.9	200	1.4	200
	FF-A-23-9-0.144	6.2	200	4.7	200	3.6	200	2.8	200	1.1	200
	FF-A-23-9-0.182	8.6	200	6.7	200	5.3	200	4.2	200	2.1	200
	FF-A-23-9-0.229	9.7	200	7.6	200	6.0	200	4.8	200	2.4	200

FF ALUMINUM // Loading	Nominal Mounting Height (ft)	Catalog Code	Design Information // AASHTO LTS-6, Latest Revision **									
			90 MPH		100 MPH		110 MPH		120 MPH		150 MPH	
			Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)
24	FF-A-24-8-0.182	4.5	200	3.2	200	2.4	200	1.8	200	0.7	200	
	FF-A-24-8-0.229	5.6	200	4.1	200	3.1	200	2.4	200	1.0	200	
	FF-A-24-9-0.144	5.4	200	4.0	200	3.1	200	2.3	200	0.8	200	
	FF-A-24-9-0.182	7.7	200	5.9	200	4.6	200	3.7	200	1.7	200	
	FF-A-24-9-0.229	8.8	200	6.8	200	5.3	200	4.2	200	2.0	200	
25	FF-A-25-8-0.182	3.8	200	2.6	200	1.9	200	1.4	200	-	-	
	FF-A-25-8-0.229	4.9	200	3.5	200	2.6	200	1.9	200	0.7	200	
	FF-A-25-9-0.144	4.6	200	3.4	200	2.6	200	1.9	200	0.5	200	
	FF-A-25-9-0.182	6.8	200	5.2	200	4.0	200	3.2	200	1.4	200	
	FF-A-25-9-0.229	7.8	200	6.0	200	4.7	200	3.7	200	1.7	200	
26	FF-A-26-8-0.229	4.2	200	2.9	200	2.0	200	1.5	200	-	-	
	FF-A-26-9-0.144	3.9	200	2.8	200	2.1	200	1.5	200	-	-	
	FF-A-26-9-0.182	6.0	200	4.5	200	3.5	200	2.7	200	1.1	200	
	FF-A-26-9-0.229	7.0	200	5.3	200	4.1	200	3.2	200	1.3	200	
27	FF-A-27-8-0.229	3.6	200	2.3	200	1.5	200	1.0	200	-	-	
	FF-A-27-9-0.182	5.2	200	3.9	200	2.9	200	2.2	200	0.7	200	
	FF-A-27-9-0.229	6.2	200	4.6	200	3.5	200	2.7	200	1.0	200	
	FF-A-27-10-0.182	8.5	200	6.6	200	5.1	200	4.0	200	1.6	200	
	FF-A-27-10-0.229	9.3	200	7.2	200	5.6	200	4.4	200	1.7	200	
28	FF-A-28-9-0.182	4.4	200	3.2	200	2.4	200	1.8	200	0.5	200	
	FF-A-28-9-0.229	5.4	200	4.0	200	3.0	200	2.2	200	0.7	200	
	FF-A-28-10-0.182	7.7	200	5.9	200	4.5	200	3.5	200	1.2	200	
	FF-A-28-10-0.229	8.4	200	6.5	200	5.0	200	3.9	200	1.4	200	

\*\* EPA represents the Effective Projected Area of the attachments on the pole. Designs are limited to post top luminaires or attachments located at or below the mounting height. Consult factory for poles supporting attachments located above the mounting height.

## BASE COMPATIBILITY

Pole Butt Size	Split Bases									
	KSB10	KSB11	KSB16	KSB19	KSB20	KSB52	KSB70	KSB76	KSB77	
7										
8										
9										
10										