

Project:	
Type:	
Catalog # :	

FME Lighting | 877 - 234 - 8460 | info@fmelighting.com



## SPECIFICATIONS

**Pole**  
Stress rated laminated Alaskan yellow cedar bonded with durable moisture-resistant adhesives in conformance with ANSI A190.1 Standard for Wood Products – Structural Glued Laminated Timber under American Institute of Timber Construction (AITC).

**Section Size & Length**  
Available section sizes: 5" x 5½", 6¾" x 6¾", and 8½" x 8½".  
Lengths are available in 1' increments.

**Center Wire Raceway**  
Poles possess a 1" x 1¼" center wireraceway.

**Pole Top Options**  
Specify MC tenon tops available with 2¾" or 3" O.D. cylinders for top mount applications. Specify PC protective caps for side mount applications. Pilot holes and through bolt holes can be supplied pre-drilled with submitted template.

**Foundation Installation**  
Specify BP base plates for foundation installation. AC cover skirts and fasteners are included. Base plates and cover skirts are laser cut steel powder coated flat black. Anchor bolts are supplied by others (see diagrams below for anchor bolt specification).

**Direct Embedment Installation**  
Contact factory for species durability testing data and installation suggestions and embedment recommendation information.

**Surface Texture**  
Specify smooth or rough sawn texture.

**Fabrication Styles**  
Specify eased, radiused or chamfered edge options.

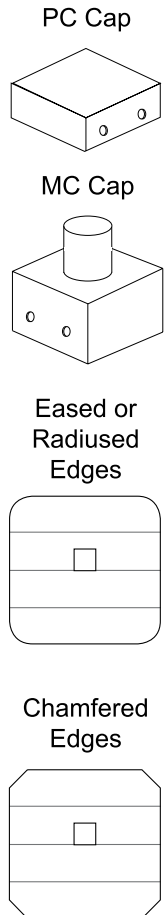
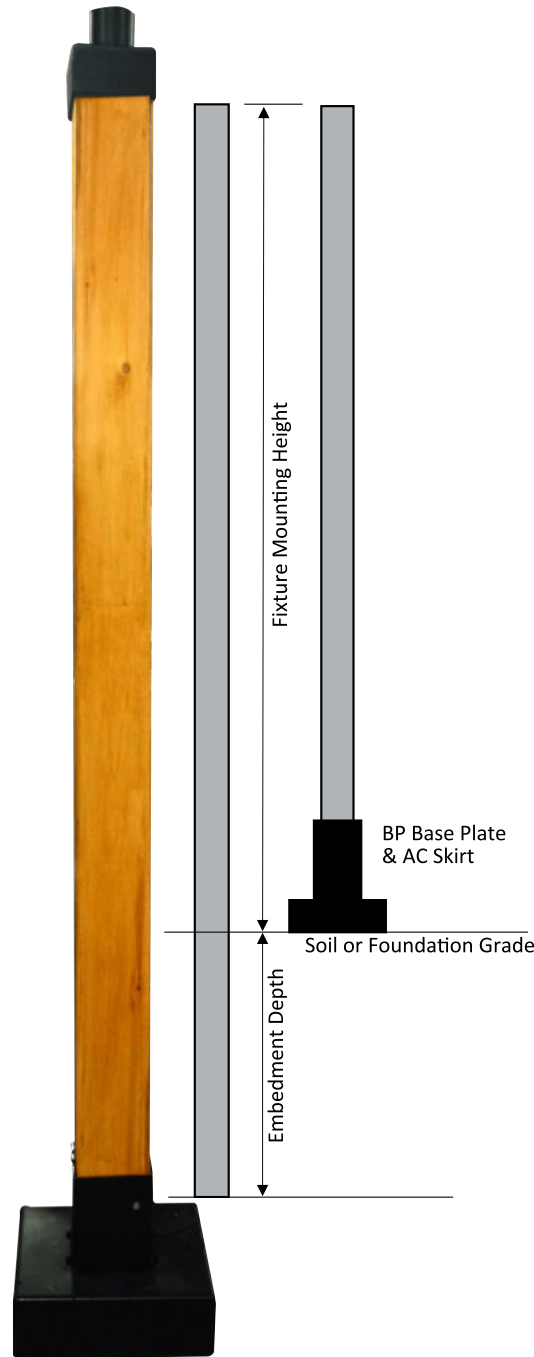
**Factory Staining**  
Poles can be factory stained with Sherwin-Williams® SuperDeck® semi-transparent stains, or can be painted or stained in the field to achieved desired color.

**Packaging**  
Poles are job lot paper wrapped or can be individually paper wrapped.

**Design Criteria**  
Contact factory for tables and embedment depth recommendation.

## KEY FEATURES

- Stress rated laminated Alaskan Yellow Cedar light poles designed for fixture mounting heights of up to 30 feet.
- Crafted with durable moisture-resistant adhesives, ensuring longevity and integrity in diverse environmental conditions, conforming to ANSI A190.1 Standard for Wood Products.
- Proudly made in America and compliant with Buy American regulations.



## ORDERING INFORMATION

### ORDERING GUIDE

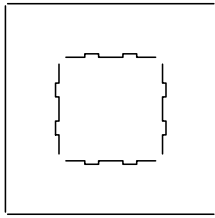
Series	Section Size	Length (Feet)	Texture	Fabrication	Wood Stain	Top Cap	Base Plate	Paper Wrap
TWP	55 = 5" x 5½" 66 = 6¾" x 6¾" 88 = 8½" x 8½"	Overall Length <i>(Lengths are available in 1' increments. See Pole Height on EPA Table for Reference.)</i>	S=Smooth (Standard¹) R=Rough	EE = ¼" Eased Edges¹ RE = ½" Radiused Edges CE = 1" Chamfered Edges PC = 1" Partial Chamfered	NA = No Stain¹ V = Sherwin-Williams SuperDeck semi-transparent stain color	P5 = PC552 P6 = PC662 P8 = PC882 M5_ = MC55.2 or .33 M6_ = MC66.2 or .33 M8_ = MC88.2 or .33	NA = None B5= BP555 B6= BP665 B8 = BP885	A = Job lot¹ B = Individual

*For metal tenon top mounts indicate a...  
+ .2 for a 2-3/8" tenon  
or  
.3 for a 3" tenon*

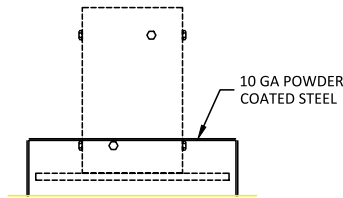
¹- Standard price. Additional pricing applies to other options

## Column Boot Covers

- AC55: 5" x 5½" COLUMN SKIRT
- AC66: 6¾" x 6¾" COLUMN SKIRT
- AC88: 8½" x 8¼" COLUMN SKIRT



AC skirt placed over BP base plate prior to inserting pole



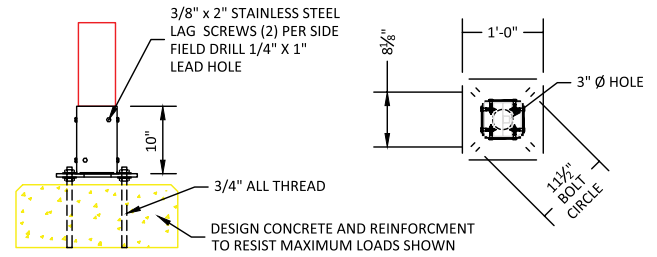
## Weight Per Lineal Foot

5" x 5½"	6 lbs
6¾" x 6¾"	10 lbs
8½" x 8¼"	16 lbs

AC skirts are included with base plates to conceal anchor bolts

## Column Boot Installation Details

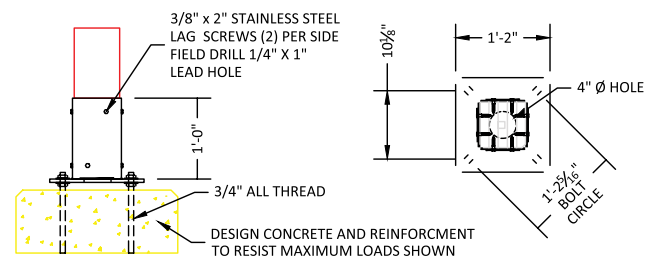
### B5: BP55: 5" x 5½" COLUMN BOOT



#### MAXIMUM DESIGN LOADS

- VERTICAL: 500 LB (DL)
- SHEAR: 1,000 LB (WL)
- MOMENT: 5,000 FT-LB (WL) MAXIMUM BOLT PULL-
- 2,500 LB (WL)

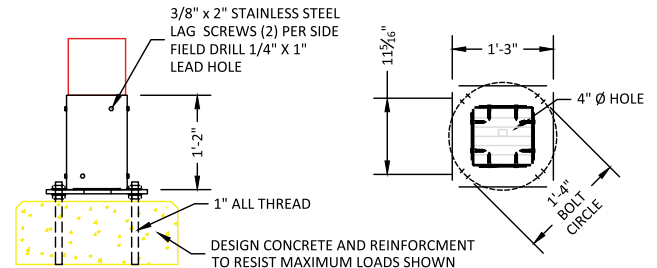
### B6: BP66: 6¾" x 6¾" COLUMN BOOT



#### MAXIMUM DESIGN LOADS

- VERTICAL: 500 LB (DL)
- SHEAR: 1,500 LB (WL)
- MOMENT: 10,000 FT-LB (WL) MAXIMUM BOLT PULL-
- 4,000 LB (WL)


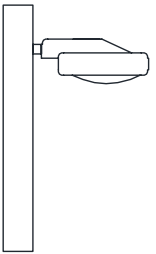
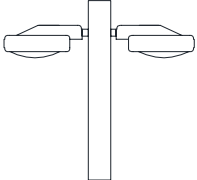
### B8: BP88: 8½" x 8¼" COLUMN BOOT



#### MAXIMUM DESIGN LOADS


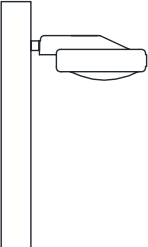
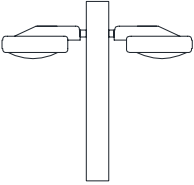
- VERTICAL: 700 LB (DL)
- SHEAR: 2,200 LB (WL)
- MOMENT: 17,000 FT-LB (WL) MAXIMUM BOLT PULL-
- 6,000 LB (WL)

## MAXIMUM COMBINED EPA TABLE - BASE MOUNT

Fixture Configuration	Pole Size	Pole Height (Ft)	Maximum Fixture EPA (ft <sup>2</sup> )					
			DESIGN Wind Speed - AASHTO LTS-6 (ASCE 7-05) (mph)					
			90	100	120	130	140	150
			ULTIMATE Wind Speed - IBC 2015 (ASCE 7-10) (mph)					
	5" x 5/2"	8	116	129	154	167	180	193
		10	20.87	16.47	10.74	8.81	7.13	5.77
		12	15.51	12.02	7.12	5.43	4.10	3.02
		14	11.55	8.38	4.26	2.87	1.77	0.88
		16	8.10	5.42	1.94	0.77		
		18	4.96	2.72				
	6 3/4" x 6 3/4"	8	49.53	39.55	26.56	22.18	18.72	15.82
		10	38.07	30.12	19.64	15.95	13.02	10.66
		12	30.11	23.36	14.28	11.22	8.20	6.84
		14	23.75	17.82	10.10	1.51	5.45	3.19
		16	17.85	12.84	6.32	4.13	2.38	0.98
		18	12.98	8.70	3.12	1.24		
	8 1/2" x 8 1/4"	20	8.85	5.15				
		22	5.23	2.01				
		24	2.13					
		8	97.18	77.95	52.90	44.47	37.79	32.40
		10	75.67	60.33	40.36	33.64	28.13	23.66
		12	60.91	48.18	31.30	25.50	20.91	17.20
		14	50.00	38.89	24.20	19.26	15.34	2.18
		16	39.88	30.30	17.83	13.64	10.31	7.63
		18	31.54	23.30	12.58	8.97	6.10	3.79
		20	24.56	17.40	8.07	4.93	2.45	
		22	18.32	12.10	3.99	1.25		
		24	13.20	7.70	0.53			
26	8.37	3.53						
28	4.23							
	5" x 5/2"	8	7.46	6.04	4.19	3.57	3.05	2.68
		10	7.46	6.04	4.19	3.57	3.08	2.68
		12	7.46	6.04	4.03	2.68	1.60	0.74
		14	7.46	5.14	1.75	0.60		
		16	4.66	2.48				
		18	2.02					
	6 3/4" x 6 3/4"	8	16.11	13.05	9.06	7.72	6.66	
		10	16.11	13.05	9.06	7.72	6.66	5.80
		12	16.11	13.05	9.06	7.72	6.66	5.80
		14	16.11	13.05	9.06	7.34	5.30	3.66
		16	15.74	12.60	6.15	3.98	2.26	0.87
		18	12.72	8.49	2.97	1.12		
	8 1/2" x 8 1/4"	20	8.62	4.96				
		22	5.02	1.85				
		24	1.94					
		8	30.64	24.82	17.24	14.68	12.66	11.03
		10	30.64	24.82	17.24	14.68	12.66	11.03
		12	30.64	24.82	17.24	14.68	12.66	11.03
		14	30.64	24.82	17.24	14.68	12.66	11.03
		16	29.95	24.26	16.84	13.50	10.19	7.52
		18	29.27	23.09	12.43	8.84	6.00	3.70
		20	24.33	17.22	7.94	4.82	2.35	
		22	18.12	11.93	3.87	1.16		
		24	13.01	7.55				
26	8.20	3.40						
28	4.08							
	5" x 5/2"	8	14.91	12.08	8.39	7.15	6.16	5.37
		10	14.90	11.62	6.84	5.20	3.90	2.84
		12	11.14	8.05	4.03	2.68	1.60	0.74
		14	7.74	5.14	1.75	0.60		
		16	4.66	2.48				
		18	2.02					
	6 3/4" x 6 3/4"	8	3.22	26.09	18.12	15.44	13.31	11.60
		10	32.22	2609	18.12	15.43	12.82	10.48
		12	29.70	23.03	14.05	11.02	8.63	6.69
		14	23.40	17.54	9.90	7.34	5.30	3.66
		16	17.55	12.60	6.15	3.98	2.26	0.87
		18	12.72	8.49	2.97	1.12		
	8 1/2" x 8 1/4"	20	8.62	4.96				
		22	5.02	1.85				
		24	1.94					
		8	61.28	49.63	34.47	29.37	25.33	22.06
		10	61.28	49.63	34.47	29.37	25.33	22.06
		12	60.50	47.85	31.07	25.31	20.74	17.05
		14	29.65	38.60	24.00	19.09	15.20	12.05
		16	39.58	30.06	17.66	13.50	10.19	7.52
		18	31.28	23.09	12.43	8.84	6.00	3.70
		20	24.33	17.22	7.94	4.82	2.35	
		22	18.12	11.93	3.87	1.16		
		24	13.01	7.55				
26	8.20	3.40						
28	4.08							

- Notes:**
1. Use **DESIGN** wind speeds for wind loads obtained from building codes based on ASCE 7-05 or earlier. Use **ULTIMATE** wind speeds for wind loads obtained from building codes based on ASCE 7-10 or later (such as IBC 2015 or IBC 2018).
  2. Wind design is based on an Importance Factor of 1.0, Gust Response Factor of 1.14, Wind Exposure C, and Drag Coefficients per AASHTO LTS-6.
  3. Poles are glu-laminated Alaskan Yellow Cedar manufactured in accordance with ANSI A190.1.
  4. Maximum pedestal base height of 24" above grade.
  5. Pole height is the distance from the top of the pedestal to the top of pole.
  6. Total weight of fixtures assumed to be less than 50 lb.
  7. Maximum offset of 24" assumed for direct mounted fixtures attached to straight poles.
  8. Maximum Fixture EPA shown is for the total of all fixtures and attachment arms.

## MAXIMUM COMBINED EPA TABLE - DIRECT EMBEDMENT

Fixture Configuration	Pole Size	Pole Height (Ft)	Maximum Fixture EPA (ft2)						
			DESIGN Wind Speed - AASHTO LTS-6 (ASCE 7-05) (mph)						
			90	100	120	130	140	150	
			ULTIMATE Wind Speed - IBC 2015 (ASCE 7-10) (mph)						
			116	129	154	167	180	193	
	5" x 5 1/2"	8	16.20	12.69	8.05	6.35	5.01	3.92	
		10	11.78	8.81	4.81	3.47	2.41	1.55	
		12	8.14	5.62	2.34	1.24			
		14	5.19	3.07					
		16	2.48	0.71					
		22	1.58						
	6 3/4" x 6 3/4"	8	38.99	31.01	20.63	17.10	14.16	11.79	
		10	29.65	23.31	14.62	11.67	9.33	7.44	
		12	22.92	17.35	10.10	7.66	5.73	4.17	
		14	17.40	12.68	6.53	4.46	2.82	1.50	
		16	12.43	8.45	3.27	1.53			
		22	1.58						
	8 1/2" x 8 1/4"	8	76.90	61.52	41.49	34.75	29.41	25.05	
		10	59.47	47.21	31.18	25.59	21.17	17.59	
		12	47.43	37.18	23.42	18.78	15.11	12.15	
		14	38.17	29.17	17.45	13.50	10.38	7.86	
		16	29.64	22.01	12.07	8.73	6.08	3.95	
		22	11.46	6.54	3.69	1.20	2.43	0.60	
		5" x 5 1/2"	8	6.52	5.28	3.67	.13	2.70	2.35
			10	6.52	5.28	3.67	3.13	2.20	1.37
			12	6.52	5.28	2.11	1.04		
			14	4.84	2.78				
			16	2.18					
			22	1.37					
6 3/4" x 6 3/4"		8	14.09	11.42	7.93	6.75	5.83	5.07	
		10	14.09	11.42	7.93	6.75	5.83	5.07	
		12	14.09	11.42	7.93	6.75	5.56	4.02	
		14	14.09	11.42	6.33	4.29	2.68	1.37	
		16	12.13	8.21	3.10	1.39			
		22	4.50	1.63					
8 1/2" x 8 1/4"		8	26.81	21.71	15.08	12.85	11.08	9.65	
		10	26.81	21.71	15.08	12.85	11.08	9.65	
		12	26.81	21.71	15.08	12.85	11.08	9.65	
		14	26.81	21.71	15.08	12.85	10.24	7.73	
		16	26.20	21.22	11.90	8.59	5.96	3.84	
		22	16.53	10.90	3.56	1.09	2.33	0.50	
		5" x 5 1/2"	8	13.05	10.57	7.34	6.06	4.75	3.70
			10	11.29	8.41	4.54	3.23	2.20	1.37
			12	7.73	5.29	2.11	1.04		
			14	4.83	2.78				
			16	2.18					
			22	1.37					
	6 3/4" x 6 3/4"	8	28.19	22.83	15.86	13.51	11.65	10.15	
		10	28.19	22.82	14.34	11.43	9.13	7.27	
		12	22.51	17.02	9.87	7.46	5.56	4.02	
		14	17.05	12.39	6.33	4.29	2.68	1.37	
		16	12.13	8.21	3.10	1.39			
		22	4.50	1.63					
	8 1/2" x 8 1/4"	8	53.62	43.43	30.16	25.70	22.16	19.30	
		10	55.63	43.43	30.14	25.36	20.96	17.41	
		12	47.02	36.85	23.19	18.59	14.94	12.00	
		14	37.81	28.88	17.25	13.34	10.24	7.73	
		16	29.34	21.77	11.90	8.59	5.96	3.84	
		22	16.53	10.90	3.56	1.09	2.33	0.50	

- Notes:**
1. Use **DESIGN** wind speeds for wind loads obtained from building codes based on ASCE 7-05 or earlier. Use **ULTIMATE** wind speeds for wind loads obtained from building codes based on ASCE 7-10 or later (such as IBC 2015 or IBC 2018).
  2. Wind design is based on an Importance Factor of 1.0, Gust Response Factor of 1.14, Wind Exposure C, and Drag Coefficients per AASHTO LTS-6.
  3. Poles are glu-laminated Alaskan Yellow Cedar manufactured in accordance with ANSI A190.1.
  4. Design values reduced for wet use conditions.
  5. Pole height is the distance from grade to the top of pole.
  6. Total weight of fixtures assumed to be less than 50 lb.
  7. Maximum offset of 24" assumed for side mounted fixtures attached to straight poles.
  8. Maximum Fixture EPA shown is for the total of all fixtures and attachment arms.

Embedment Below Pole Size	Minimum Embedment Below Grade (FT)		
	Pole Size	Soil Type	
		Gravil Soil	Sandy Soil
5" x 5 1/2"	5" x 5 1/2"	3' 6"	4'
6 3/4" x 6 3/4"	6 3/4" x 6 3/4"	4' 6"	5'
8 1/2" x 8 1/4"	8 1/2" x 8 1/4"	5' 6"	6'

- Notes:**
1. Recommended embedment depth based on pole being encased in 24" diameter pier below grade or as designed by licensed professional engineer, 7-10 or later (such as IBC 2015 or IBC 2018).
  2. Direct embedment depth based on the following soil properties:  
**Gravel Soils** (GW, GP):  $\phi = 34^\circ$ ,  $\gamma = 130 \text{ lb/ft}^3$ ,  $c = 0 \text{ lb/ft}^2$   
**Sandy Soils** (SW, SP, SM, SC, GM, GC):  $\phi = 30^\circ$ ,  $\gamma = 120 \text{ lb/ft}^3$ ,  $c = 0 \text{ lb/ft}^2$