





Composite Poles

Technical Information

and Specifications

Marathon Poles Exclusive Lifetime Warranty

CMT warrants the subject products to be free of fiber-blooming (exposed structural glass that has degraded) for the LIFETIME of the original installation when used under normal conditions. Product that has been damaged due to handling, transportation, installation, or vandalism is not be covered under this warranty. CMT also warrants the subject product to be free of defects in material and workmanship for a period of three (3) years from the date of purchase, when used under normal conditions. CMT will repair or replace, at its sole option, any defective product during the warranty period.

The above constitutes fulfillment of CMT's obligation under this warranty and constitutes the buyer's sole remedy. CMT makes no other express or implied warranty, nor any warranty of fitness for a particular purpose or merchantability. CMT's obligation to repair or replace any defective product does not include any obligation to reimburse transportation, installation, removal, or any other expenses that may be incurred by the buyer or other parties in relation to any product defect, nor does CMT accept any responsibility for unauthorized repairs to any product. In no event shall CMT be liable for any consequential damages.







145 Wood Street Estill, SC 29918 803-625-3131 • 800-416-4276 Fax: 803-625-4722

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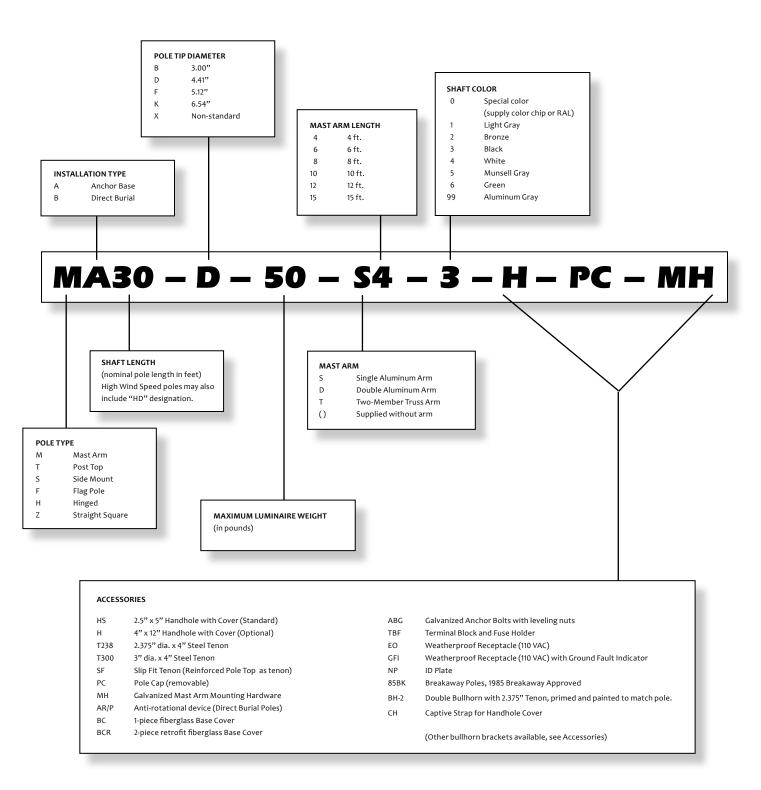
Composite Poles

Technical Information and Specifications

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How to order: Catalog Number Legend



Pole Selection Guide

General

All lighting fixtures or luminaires must be properly fitted to a pole assembly to ensure that the total weight is supported and that the complete assembly will support the installation location's maximum wind velocity. The three criteria for proper pole selection are: total assembly weight (luminaire), Effective projected Area ("EPA" in ft²), and tenon size (for top mounted luminaires).

Refer to your lighting manufacturer's product catalog. For most manufacturers, each luminaire has its weight, EPA, and required tenon size specified. Once you select your lighting fixtures, total the combined weight and total EPA. You must include any signage, decoration, or other non-lighting equipment to be used.

This publication lists weight capacity information for each CMT pole, along with supported EPA for various wind speed requirements. This is the maximum total for all luminaires, including any signage, decoration or other non-lighting equipment that may be attached to the pole.

Effective Projected Area (EPA)

The formula to calculate the force of wind on an object is the actual projected area of the object times the coefficient of drag times velocity pressure of the wind. EPA is the resulting product. When mounting a luminaire/light fixture, the center of gravity for the fixture should be no more than 18 inches above the pole top. Recommended maximum weights are listed for each wind velocity for every pole.

Pole Selection Instructions

- 1. Choose your lighting luminaire and any attachments.
- 2. Find the weight and EPA for all components from the manufacturers' catalogs.
- 3. Check the wind velocity map or other resource for the geographic area in which the poles are to be installed.
- 4. Select the pole type required: Mast Arm, Post Top, Anchor Base, or Direct Burial.
- 5. Determine the nominal mounting height required and the luminaire's required tenon size (for top-mounted poles).
- 6. If required, select the Mast Arm and Mast Arm length.
- 7. Choose the required color. For special colors, include a color chip or RAL.
- 8. Choose any accessories: GFI outlet, terminal block, base covers, etc. Check the pole order logic for codes required.
- 9. Refer to the poles specifications pages to select and confirm your selections.
- Re-check that the weight and EPA totals do not exceed the specific pole's ratings. If they do not, you have selected the correct pole.

Note: This information is intended only as guidance. Please call your CMT representative for confirmation of your selection.

Sample Specification

Specifications for Fiberglass Reinforced Composite (FRC) Poles

1.0 MATERIAL OF CONSTRUCTION

- 1.0.1 The shaft shall be constructed of a commercial grade of "E" glass or better.
- 1.0.2 The surface of the shaft shall be smooth and consist of a saturated polyester surfacing veil of 18-20 mils minimum thickness and a 10 mil resin layer.
- 1.0.3 The resin shall be unsaturated polyester resin containing UV inhibitor and pigment throughout. A minimum of 1.5 mil urethane coating shall be applied to the surface of the pole shaft.
- 1.0.4 The surfacing veil and structural fibers shall be saturated in a singular process with the same resin, ensuring molecular bonding between structural layers and the protective layer.

2.0 CONSTRUCTION STANDARDS

- 2.0.1a All round tapered shafts shall be centrifugally cast to ensure a dense void-free wall and a smooth surface.
- 2.0.1b All square shafts shall be constructed by the pultrusion process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight.
- 2.0.2 The pole shall be designed for direct burial or anchor base mounting.

 Reference ANSI C136.20 for suggested burial depths.
- 2.0.3a Round tapered Anchor Base poles shall have a galvanized steel base with an internal sleeve design which provides a mechanical lock with the pole shaft.
- 2.0.3b Square Anchor Base poles shall have a cast A356-T6 aluminum, polyurethane coated base, which shall be permanently bonded to the outside of the fiberglass shaft.

- 2.0.4 Direct Burial poles shall have an anti-rotational device (if ordered) located 12 inches from the butt of the pole, consisting of a 2-in. diameter PVC pipe extending 2 inches from each side of the pole.
- 2.0.5 Direct Burial poles shall have two, 2.375-in. diameter wire entry holes, located 18 inches below ground line, 180 degrees apart. Either of these holes shall be 90 degrees from the side intended for mounting of the arm(s), where arms are applicable.
- 2.0.6 The pole surface shall be smooth and have a uniform taper of 0.216 inches per foot.
- 2.0.7 A handhole, 2.5 in. x 5 in., with a painted cover shall be supplied, including fasteners. (Optionally: The poles shall be supplied with a 4 in. x 12 in. nominal handhole cover equipped with non-metallic, vandal-resistant allenhead or slotted hexhead fasteners.) All handhole covers, fasteners and exposed handhole reinforcement shall be non-metallic.
- 2.0.8 Tenon Top type poles shall have a 2.375 in. or 3 in. diameter steel tenon permanently affixed. (Optionally: A slip-fit tenon affixed to the pole shall be provided whereby the top 6 inches of the pole shaft is reinforced with stainless steel mesh, so the tip of the shaft will serve as a tenon alone. Note, the slip-fit tenon is available only in 3-in. sizes.)
- 2.0.9 Mast arm poles shall be drilled at the factory to accept the applicable arm(s) specified.
- 2.0.10 Single member mast arms shall be made of Type 6061-T6-T4 aluminum with a 2-in. NPS slipfitter. The arms shall be secured to the pole by two, 5/8"-11 x 6", 8" or 10" bolts as appropriate, complete with two each curved washers and nuts.

- 2.0.11 The Shaft shall be constructed in one piece for lengths up to 53 feet.
- 2.0.12 (If applicable) A non-conductive pole cap shall be supplied for mast arm and side mount poles.

3.0 PERFORMANCE

- 3.0.1 The pole (and arm(s), if applicable) shall be able to withstand AASHTO Standards of 25-year mean recurrence interval wind velocities for the area where the pole is specified to be used.
- 3.0.2 Static deflection shall meet the following criteria:
 - Deflection shall not exceed one
 percent of above ground pole length.
 - 2. The difference in deflection within any 1-foot increment shall not exceed 0.35 in.
- 3.0.3 Under maximum specified wind conditions, the pole tip deflection shall not exceed 10 percent of above ground pole length.
- 3.0.4 The pole shall be resistant to long-term flexural fatigue failure. There shall be no significant change in visual appearance or mechanical properties after one million cycles of altering force applications, which force produces a deflection amplitude equal to or greater than the deflection produced by peak wind speed of 46 mph.

4.0 SHIPPING

4.0.1 The pole shall be wrapped with cardboard and covered with a suitable plastic wrapping envelope for shipping via commercial carriers. Poles shipped by flatbed may be wrapped in plastic and bundled, and do not require cardboard wrapping.





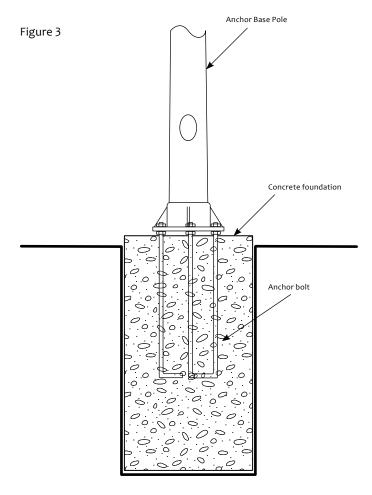
This document is available in text, Word, and WordPerfect electronic formats on CMT's website:

WWW.CMT-POLES.COM

Anchor Base Pole Installation Guide

Suggested Installation Procedure for Anchor Base Poles

- The size of the required foundation depends on the soil's resistance and structural characteristics. A round or square foundation shape is acceptable, but round cylindrical shapes are most frequent.
- 2. The foundation's required depth will depend on soil conditions. It is usually advisable to have a soil testing organization make test borings to determine soil structural qualities. The minimum diameter of the foundation should be wide enough to allow enough space between the outside walls and the bolt hole circle to accommodate steel rebars and the anchor bolt hooks, or about 12 inches plus the pole's bolt hole circle.
- 3. Minimum concrete compressive strength should be approximately 3000 psi after 28 days of curing. Reinforcing bars should be deformed steel, vertically embedded and wrapped with tie bars. Be sure to provide adequate steel reinforcing and allow sufficient drying time before attaching the poles, in order to reduce the likelihood of concrete cracking.
- 4. When the foundation is cured, attach nuts to the anchor bolts and use a large level to make sure all nuts are level to each other.
- 5. Thread the wiring into the pole as you set the pole onto the nuts and secure it with the second set of nuts. Tighten securely. Connect all wiring at the handhole.



Note: This information is intended only as guidance.

CMT does not assume any responsibility for pole installation.

Direct Burial Pole Installation Guide

Suggested Installation Procedure for Direct Burial Poles

1. Auger a hole that is a minimum of 6 inches wider than the butt of the pole. The suggested depth (dimension "A") is:

Up to 18 ft. mounting height: 3 ft.

18.1 to 25 ft. 4 ft.

25.1 to 40 ft. 5 ft.

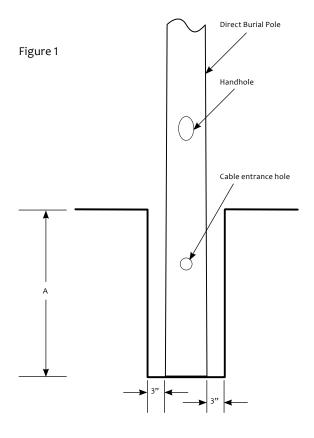
4 ft. 6 ft.

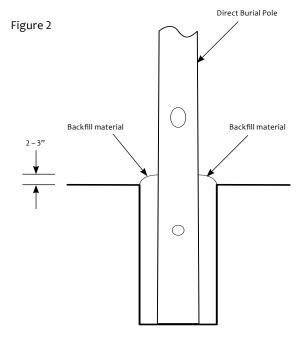
- Remove any protective wrapping from the pole and place the butt end of the pole in the center of the hole (Figure 1). As the pole is lowered into the hole, feed the underground wiring through the cable entrance hole(s) toward the handhole.
- Hold the pole upright while backfilling the hole according to soil conditions as follows:

a. Poor soil: If the area is sandy or often retains water, a crushed aggregate material or concrete may be needed for backfill.

b. Good soil: If the soil is firm and does not retain water, the soil that was removed while augering the hole can be used as backfill.

- 4. Place approximately 4 to 6 inches of backfill into the hole. Plumb the pole from two positions, 90 degrees apart. To plumb the pole, hold a plumb-bob at a suitable distance from the pole and align it with the plumb-bob. Once the pole is plumbed, tamp the backfill thoroughly. Continue supporting the pole.
- 5. Add another 4 to 6 inches of backfill and tamp thoroughly. Re-plumb the pole two to three times before the backfill level reaches the ground line.
- 6. Place an additional 2 to 3 inches of backfill above the ground line (Figure 2) and tamp thoroughly.
- Connect all wiring at the handhole.

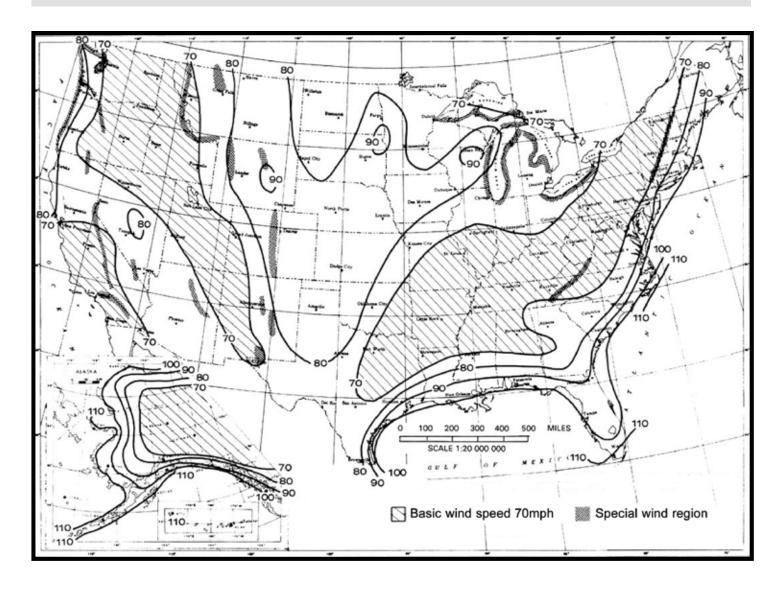




Note: This information is intended only as guidance.

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U.S. Isotach Wind Map



Notes:

- 1. Values are fastest-mile speeds at 33 ft. (10 m) above ground for exposure category C (open terrain with scattered obstructions of generally less than 30 feet, including flat, open country and grasslands), and are associated with an annual probability of 0.02. For more information, refer to American Society of Civil Engineers ACSE Standard 7-93 and amendments, *Minimum Design Loads for Buildings and Other Structures*.
- 2. Linear interpolation between wind speed contours is acceptable.
- 3. Caution is advised in using wind speed contours in mountainous regions of Alaska, in Florida, and in hurricane prone regions.
- 4. CMT calculates EPA specifications to include a 30% gust factor.

The CMT process

Centrifugally Cast Fiberglass Composites

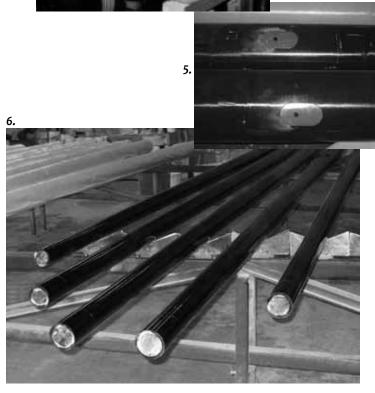
CMT employs a centrifugal casting process to make our round tapered composite poles. Each pole starts with a layer of

polyester veil to provide a smooth exterior finish and lifetime warranty against fiber blooming. Then a knitted fiberglass fabric is cut to size and laid over the veil. We select the layers of fiberglass and other content according to the strength and other factors required in the finished pole. We then insert the pattern into one of our spin-casting machines.

As the machine spins, we introduce our specially formulated resin. From the centrifugal force, the resin immediately moves through the fiberglass to the outside of the spinning mold. After some curing time, the finished pole is removed from the machine. It then moves through the operation to receive custom drilling, handholes, tenons, and paint, all to customers' specifications. The final step is to wrap the poles for shipment to the customer.



- 1. CMT tenon top poles waiting for painting.
- 2. A stack of direct burial poles ready to be cut to length.
- **3.** A machine operator assembles the fiberglass cloth that forms the basis for a CMT fiberglass pole.
- **4.** A section of one of our centrifugal casting machines.
- Newly cast round poles fitted with handholes before going to the paint station.
- **6.** Painted poles fresh from the dryer, awaiting wrapping and bundling.

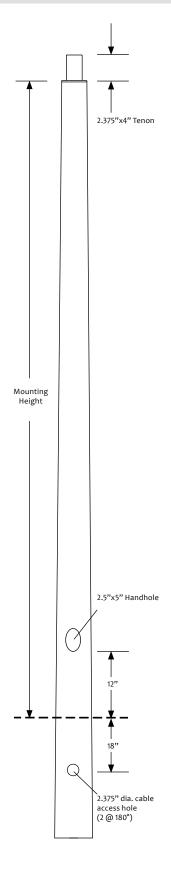


POST TOP: Direct Burial

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip	Butt	Ma	ximum I	mum EPA	
CMT Catalog Number	Nomi Heigh	Length (ft.)	Weigl (lb.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH	
50# Vertical Load									
TB13-B-50	10	13	24	3.00	5.80	6.0	4.0	3.3	
TB16-B-50	13	16	38	3.00	4.55	6.0	4.3	3.3	
TB20-B-50	16	20	45	3.00	7.27	6.0	3.5	3.3	
TB24-B-50	20	24	67	3.00	8.18	6.0	3.5	3.3	
200# Vertical Load	I								
TB24-D-200	20	24	88	4.41	9.59	8.5	6.0	6.0	
TB30-D-200	25	30	106	4.41	10.80	7.5	5.0	5.0	
TB35-D-200	30	35	147	4.41	11.97	8.0	4.5	4.5	
TB40-D-200	35	40	170	4.41	12.93	7.5	4.5	4.5	
TB46-F-200	40	46	226	5.12	15.04	9.0	5.0	5.0	
TB50-F-200	44	50	259	5.12	15.75	8.6	4.3	4.3	
300# Vertical Load	l	ı							
TB35-F-300	30	35	160	5.12	12.68	10.5	6.3	6.3	
TB40-F-300	35	40	201	5.12	13.64	10.5	6.3	6.3	
TB46-F-300	40	46	250	5.12	15.04	10.5	6.0	6.0	
TB50-F-300	44	50	303	5.12	15.75	10.5	5.2	5.2	

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

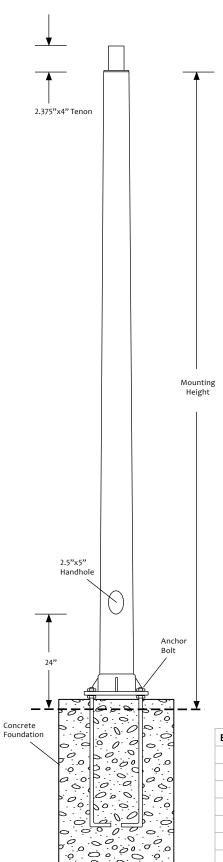


Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages. Slip-fit tenon to be used only with 50# vertical load series.

Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the Accessories section.

Anchor Base: POST TOP



	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (Ib.)	Tip	Butt	Ma	ximum I	imum EPA	
CMT Catalog Number	Nomina Height (Length (ft.)	Weig (lb.)	O.D. (in.)	O.D.	80 MPH	100 MPH	120 MPH	Bolt Circle (in.)
50# Vertical Load	d								
TA10-B-50	10	10	37	3.00	5.20	6.5	4.0	2.0	8.625
TA16-B-50	16	16	61	3.00	6.46	6.5	4.0	3.3	8.625
TA20-B-50	20	20	84	3.00	7.27	6.5	4.0	3.3	10.500
200# Vertical Lo	ad								
TA20-D-200	20	20	108	4.41	8.68	8.5	6.0	6.0	11.875
TA25-D-200	25	25	134	4.41	9.81	7.5	5.0	5.0	13.500
TA30-D-200	30	30	180	4.41	10.79	8.0	4.5	4.5	15.250
TA35-D-200	35	35	210	4.41	11.97	7.5	4.5	4.5	15.250
TA40-D-200	40	40	250	4.41	12.91	9.0	5.0	5.0	16.000
TA45-D-200	45	45	326	4.41	14.13	8.6	4.3	4.3	17.000
300# Vertical Lo	ad								
TA30-F-300	30	30	193	5.12	11.50	10.5	6.3	6.3	15.250
TA35-F-300	35	35	279	5.12	12.68	10.5	6.3	6.3	16.000
TA40-F-300	40	40	302	5.12	13.62	10.5	6.3	6.3	17.000
TA45-F-300	45	45	374	5.12	14.84	10.5	6.0	6.0	17.000

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

0.5 x 15 x 4	BC1
0.635 34 4	
0.625 x 21 x 4	BC2
0.75 x 30 x 4	BC3
1 x 36 x 4	BC4
1 x 36 x 4	BC5
1 x 36 x 4	BC6
1 x 36 x 4	BC7
1 x 36 x 4	BC8
	0.75 x 30 x 4 1 x 36 x 4 1 x 36 x 4 1 x 36 x 4 1 x 36 x 4

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

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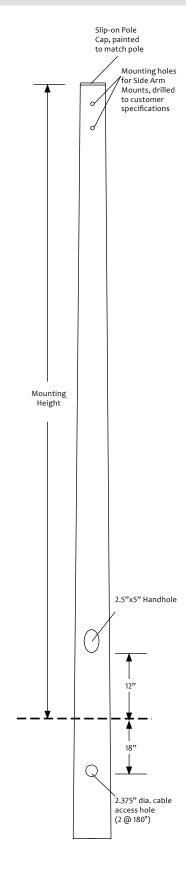
Supply drilling template with order

SIDE MOUNT: Direct Burial

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip	Butt	Ma	ximum E	mum EPA	
CMT Catalog Number	Nomi Heigh	Length (ft.)	Weigh (Ib.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH	
Single Arm, up to	50# Lun	ninaire							
SB13-D-50	10	13	24	4.41	6.53	6.8	4.0	3.0	
SB20-D-50	16	20	52	4.41	7.97	6.0	4.0	3.0	
SB24-D-50	20	24	66	4.41	8.88	6.0	4.0	3.0	
SB30-D-50	25	30	96	4.41	10.09	6.0	4.0	3.0	
SB35-D-50	30	35	121	4.41	11.26	6.0	4.0	3.0	
SB40-D-50	35	40	150	4.41	12.22	6.0	4.0	3.0	
SB46-D-50	40	46	203	4.41	10.09	6.0	4.0	3.0	
SB50-D-50	44	50	252	4.41	11.26	6.5	4.0	3.0	
Double Arm (@ 18	0°), two	Lumina	ires up	to 50#	each				
SB20-D-200	16	20	66	4.41	8.73	8.3	5.2	5.0	
SB24-D-200	20	24	80	4.41	9.59	8.3	5.2	5.2	
SB30-D-200	25	30	107	4.41	10.80	8.3	5.2	5.2	
SB35-D-200	30	35	145	4.41	11.97	8.3	5.2	5.2	
SB40-D-200	35	40	173	4.41	12.91	8.3	4.8	4.8	
SB46-D-200	40	45	236	4.41	14.32	8.3	4.8	4.8	
SB50-D-200	44	50	269	4.41	15.04	8.5	4.6	4.6	

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

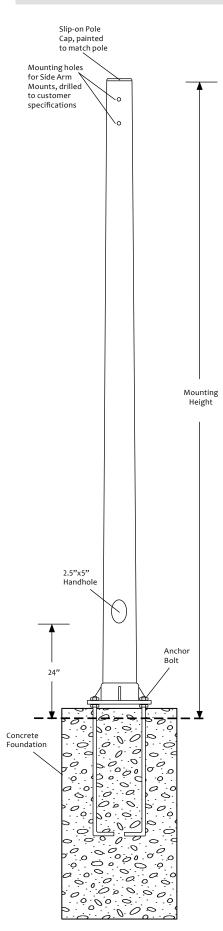


Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

 $Standard\ features\ are\ as\ shown\ on\ drawing.\ Available\ optional\ features\ are\ listed\ in\ the\ order\ grid\ on\ Page\ 2,\ and\ in\ the\ Accessories\ pages.$ Slip-fit tenon to be used only with 50# vertical load series.

Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the contraction of the contractionthe Accessories section.

Anchor Base: SIDE MOUNT



	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (Ib.)	Tip	Butt	Ma	ximum EPA		Bolt	
CMT Catalog Number	Nomina Height (Length (ft.)	Weig (Ib.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH	Circle (in.)	
Single Arm, up to 50# Luminaire										
SA10-D-50	10	10	38	4.41	5.89	6.8	4.0	3.5	8.625	
SA16-D-50	16	16	71	4.41	7.16	6.8	4.0	3.5	10.500	
SA20-D-50	20	20	83	4.41	7.97	6.8	4.0	3.5	10.500	
SA25-D-50	25	25	115	4.41	9.10	6.8	4.0	3.5	11.875	
SA30-D-50	30	30	145	4.41	10.08	6.8	4.0	3.5	13.500	
SA35-D-50	35	35	196	4.41	11.26	6.8	4.0	3.5	15.250	
SA40-D-50	40	40	241	4.41	12.20	6.8	4.0	3.5	16.000	
SA45-D-50	45	45	313	4.41	14.13	7.0	4.0	3.5	17.000	
Double Arm (@	180°), tv	vo Lumir	naires u	p to 50	# each					
SA16-D-200	16	16	74	4.41	7.87	8.3	5.2	5.2	10.500	
SA20-D-200	20	20	100	4.41	8.68	8.3	5.2	5.2	11.875	
SA25-D-200	25	25	134	4.41	9.81	8.3	5.2	5.2	13.500	
SA30-D-200	30	30	161	4.41	10.79	8.3	5.2	5.2	15.250	
SA35-D-200	35	35	261	4.41	12.91	8.3	4.8	4.8	16.000	
SA40-D-200	40	40	261	4.41	12.91	8.5	4.6	4.6	17.000	
SA45-D-200	45	45	334	4.41	14.13	8.5	4.6	4.6	17.000	

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

Bolt Circle (in.)	Bolt Size (in.)	Base Cover
8.625	0.5 x 15 x 4	BC1
10.5	0.625 x 21 x 4	BC2
11.875	0.75 x 30 x 4	BC3
13.500	1 x 36 x 4	BC4
15.250	1 x 36 x 4	BC5
16	1 x 36 x 4	BC6
17	1 x 36 x 4	BC7
18	1 x 36 x 4	BC8

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

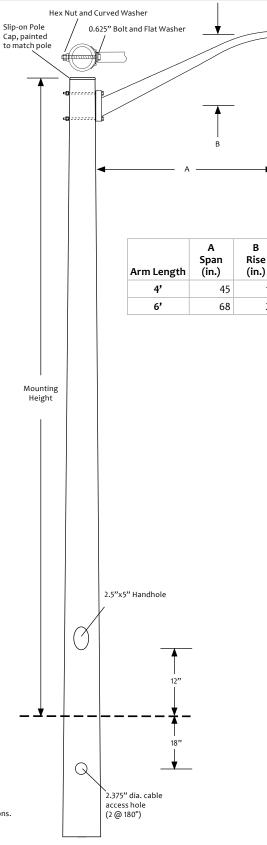
Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages. Supply drilling template with order

MAST ARM: 4-FOOT or 6-FOOT: Direct Burial

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip	Butt	Maximum 80 100		ı EPA			
CMT Catalog Number	Nomi Heigh	Length (ft.)	Weig (lb.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH			
4' or 6' Single Mast Arm, up to 50# Luminaire											
MB23-D-50-S4 MB23-D-50-S6	20	23	87	4.41	9.38	6.0	3.5	3.0			
MB30-F-50-S4 MB30-F-50-S6	25	30	115	5.12	11.51	6.5	3.5	3.0			
MB33-F-50-S4 MB33-F-50-S6	30	33	136	5.12	12.21	7.0	3.5	3.0			
MB39-F-50-S4 MB39-F-50-S6	35	39	176	5.12	13.63	6.5	3.5	3.0			
MB45-F-50-S4 MB45-F-50-S6	40	45	219	5.12	14.70	7.0	3.5	3.0			
MB50-F-50-S4 MB50-F-50-S6	45	50	254	5.12	15.92	7.0	3.5	3.0			
4' or 6' Double Ma	st Arm	(@180°),	two 50)# Lumi	naires						
MB23-F-50-D4 MB23-F-50-D6	20	23	96	5.12	10.09	5.2	4.0	3.0			
MB30-F-50-D4 MB30-F-50-D6	25	30	141	5.12	11.60	5.5	4.0	3.0			
MB33-F-50-D4 MB33-F-50-D6	30	33	161	5.12	12.25	5.5	4.0	3.0			
MB39-F-50-D4 MB39-F-50-D6	35	39	225	5.12	13.54	5.7	4.0	3.0			
MB45-F-50-D4 MB45-F-50-D6	40	45	281	5.12	14.84	5.5	4.0	3.0			
MB50-F-50-D4 MB50-F-50-D6	45	50	382	5.12	15.92	5.6	4.0	3.0			

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!



15

24

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory.

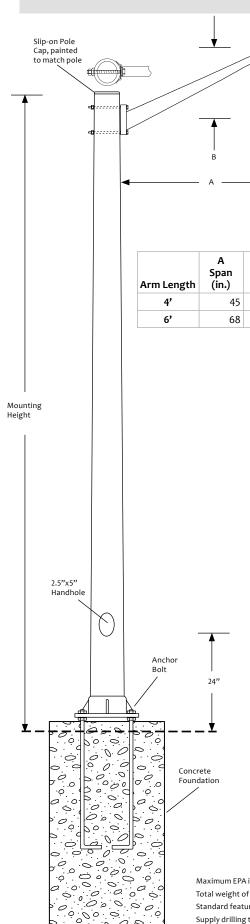
Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages

Slip-fit tenon to be used only with 50# vertical load series.

Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the Accessories section.

Anchor Base: 4-FOOT or 6-FOOT: MAST ARM



B Rise

(in.)

15

24

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (Ib.)	Tip	Butt	Ma	ximum I	E PA	Bolt	
CMT Catalog Number	Nom Heig	Length (ft.)	Weig (Ib.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH	Circle (in.)	
4' or 6' Single Mast Arm, up to 50# Luminaire										
MA20-D-50-S4 MA20-D-50-S6	20	20	112	4.41	8.68	6.0	3.5	3.0	11.875	
MA25-F-50-S4 MA25-F-50-S6	25	25	141	5.12	10.43	6.5	3.5	3.0	13.500	
MA28-F-50-S4 MA28-F-50-S6	30	28	154	5.12	11.13	7.0	3.5	3.0	13.500	
MA35-F-50-S4 MA35-F-50-S6	36	35	226	5.12	12.55	6.5	3.5	3.0	16.000	
MA39-F-50-S4 MA39-F-50-S6	40	39	274	5.12	13.40	7.0	3.5	3.0	17.000	
MA44-F-50-S4 MA44-F-50-S6	45	44	317	5.12	14.45	7.0	3.5	3.0	17.000	
4' or 6' Double N	last Arn	n (@180°), two !	50# Lur	ninaire	5				
MA20-F-50-D4 MA20-F-50-D6	20	20	121	5.12	9.39	4.0	3.0	3.0	11.875	
MA25-F-50-D4 MA25-F-50-D6	25	25	159	5.12	10.32	4.0	3.0	3.0	13.500	
MA28-F-50-D4 MA28-F-50-D6	30	28	196	5.12	11.84	4.0	3.0	3.0	15.250	
MA35-F-50-D4 MA35-F-50-D6	36	35	275	5.12	12.68	4.0	3.0	3.0	16.000	
MA39-F-50-D4 MA39-F-50-D6	40	39	332	5.12	13.54	4.0	3.0	3.0	17.000	
MA44-F-50-D4 MA44-F-50-D6	45	44	411	5.12	14.62	4.0	3.0	3.0	17.000	

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

Bolt Circle (in.)	Bolt Size (in.)	Base Cover
8.625	0.5 x 15 x 4	BC1
10.5	0.625 x 21 x 4	BC2
11.875	0.75 x 30 x 4	BC3
13.500	1 x 36 x 4	BC4
15.250	1 x 36 x 4	BC5
16	1 x 36 x 4	BC6
17	1 x 36 x 4	BC7
18	1 x 36 x 4	BC8

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages. Supply drilling template with order

MAST ARM: 8-FOOT or 10-FOOT: Direct Burial

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip	Butt	Max	ximum EPA				
CMT Catalog Number	Nom Heig	Length (ft.)	Weig (lb.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH			
8' or 10' Single Mast Arm, up to 50# Luminaire											
MB22-K-50-S8 MB22-K-50-S10	20	22	92	6.54	11.18	10.0	7.5	5.0			
MB28-K-50-S8 MB28-K-50-S10	25	28	121	6.54	12.48	10.0	7.5	5.0			
MB33-K-50-S8 MB33-K-50-S10	30	33	162	6.54	13.62	10.0	7.5	5.0			
MB38-K-50-S8 MB38-K-50-S10	35	38	200	6.54	14.64	10.0	7.5	5.0			
MB43-K-50-S8 MB43-K-50-S10	40	43	239	6.54	15.75	9.0	7.5	5.0			
MB49-F-50-S8 MB49-F-50-S10	45	49	358	6.54	17.10	10.0	7.5	5.0			
8' or 10' Double M	ast Arm	(@180°)), two 5	0# Lum	ninaires						
MB22-K-50-D8 MB22-K-50-D10	20	22	116	6.54	11.18	7.0	5.0	3.5			
MB28-K-50-D8 MB28-K-50-D10	25	28	163	6.54	12.48	6.5	5.0	3.5			
MB33-K-50-D8 MB33-K-50-D10	30	33	207	6.54	13.62	7.0	5.0	3.5			
MB38-K-50-D8 MB38-K-50-D10	35	38	268	6.54	14.64	7.0	5.0	3.5			
MB43-K-50-D8 MB43-K-50-D10	40	43	331	6.54	15.75	7.0	5.0	3.5			
MB46-K-50-D8 MB46-K-50-D10	43	46	369	6.54	16.48	6.0	5.0	3.5			

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

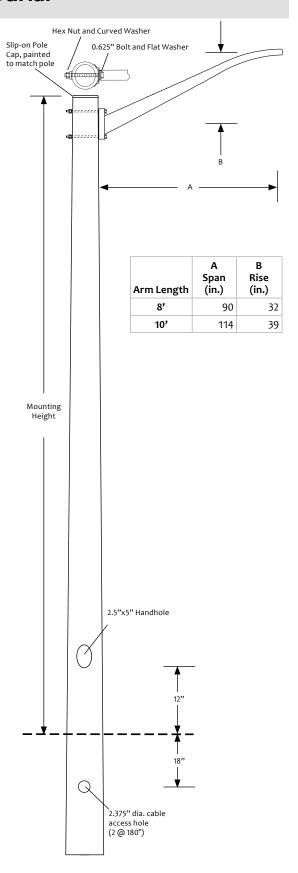
Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory.

 $Total\ weight\ of\ fixture (s)\ and\ bracket (s)\ should\ not\ exceed\ vertical\ load\ shown\ above.$

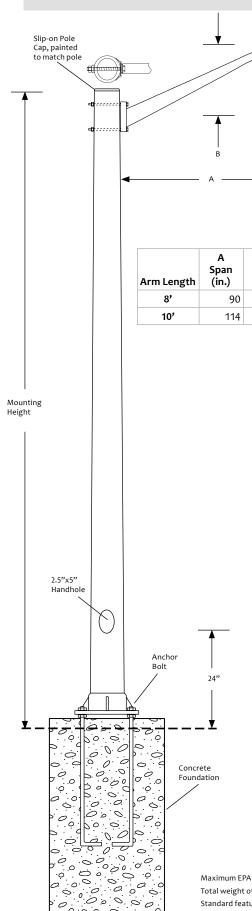
Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages.

Slip-fit tenon to be used only with 50# vertical load series.

Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the Accessories section.



Anchor Base: 8-FOOT or 10-FOOT: MAST ARM



B Rise

(in.) 32

39

CMT Catalog	Nominal Mounting Height (ft.)	Shaft Length	Weight of Pole (lb.)	Tip O.D.	Butt O.D.	80	ximum E	120	Bolt Circle	
Number		(ft.)		(in.)	(in.)	MPH	MPH	MPH	(in.)	
8' or 10' Single Mast Arm, up to 50# Luminaire										
MA18-K-50-S8 MA18-K-50-S10	20	18	121	6.54	10.32	10.5	7.0	5.0	13.500	
MA23-K-50-S8 MA23-K-50-S10	25	23	162	6.54	11.40	10.5	7.0	5.0	15.250	
MA28-K-50-S8 MA28-K-50-S10	30	28	201	6.54	12.54	10.5	7.0	5.0	15.250	
MA33-K-50-S8 MA33-K-50-S10	35	33	263	6.54	13.62	9.5	7.0	5.0	17.000	
MA37-K-50-S8 MA37-K-50-S10	40	37	304	6.54	14.59	9.5	7.0	5.0	17.000	
MA43-K-50-S8 MA43-K-50-S10	45	43	382	6.54	15.75	11.0	7.0	5.0	18.000	
8' or 10' Double	Mast Ar	m (@180	o°), two	50# Lu	ıminair	es		'	'	
MA18-K-50-D8 MA18-K-50-D10	20	18	137	6.54	10.32	7.5	5.0	3.0	13.500	
MA23-K-50-D8 MA23-K-50-D10	25	23	189	6.54	11.40	7.5	5.0	3.0	15.250	
MA28-K-50-D8 MA28-K-50-D10	30	28	241	6.54	12.54	7.5	5.0	3.0	15.250	
MA33-K-50-D8 MA33-K-50-D10	35	33	322	6.54	13.62	7.5	5.0	3.0	17.000	
MA37-K-50-D8 MA37-K-50-D10	40	37	383	6.54	14.59	7.5	5.0	3.0	17.000	
MA43-K-50-D8 MA43-K-50-D10	45	43	440	6.54	15.75	7.5	5.0	3.0	18.000	

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!

Bolt Circle (in.)	Bolt Size (in.)	Base Cover
8.625	0.5 x 15 x 4	BC1
10.5	0.625 x 21 x 4	BC2
11.875	0.75 x 30 x 4	BC3
13.500	1 x 36 x 4	BC4
15.250	1 x 36 x 4	BC5
16	1 x 36 x 4	BC6
17	1 x 36 x 4	BC7
18	1 x 36 x 4	BC8

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above.

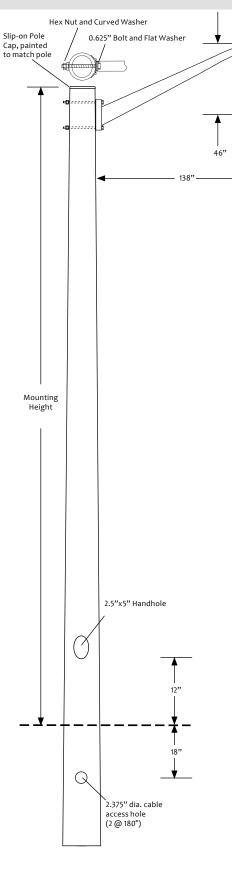
Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages. Supply drilling template with order

MAST ARM: 12 FOOT: Direct Burial

CMT Catalog	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip O.D.	Butt O.D.	Maximum EPA		PA 120		
Number	Nor Hei	Length (ft.)	Wei (lb.)	(in.)	(in.)	MPH	MPH	MPH		
12' Single Mast Arm, up to 50# Luminaire										
MB21-K-50-S12	20	21	88	6.54	11.02	9.0	7.0	3.0		
MB26-K-50-S12	25	26	121	6.54	12.21	10.0	7.0	3.0		
MB32-K-50-S12	30	32	170	6.54	13.40	12.0	7.0	3.0		
MB36-K-50-S12	35	36	201	6.54	14.34	9.5	7.0	3.0		
MB43-K-50-S12	40	43	263	6.54	15.75	10.5	7.0	3.0		
MB46-K-50-S12	44	46	331	6.54	15.75	10.5	7.0	3.0		
10' Double Mast Arm (@180°), two 50# Luminaires										
MB21-K-50-D12	20	21	117	6.54	11.02	7.0	5.0	3.0		
MB26-K-50-D12	25	26	166	6.54	12.21	7.0	5.0	3.0		
MB32-K-50-D12	30	32	221	6.54	13.40	7.0	5.0	3.0		
MB36-K-50-D12	35	36	270	6.54	14.34	7.0	5.0	3.0		
MB43-K-50-D12	40	43	340	6.54	15.75	7.0	5.0	3.0		

For 140 MPH, see High Wind Speed section.

Don't see what you need? Call us. We can build it!



Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory.

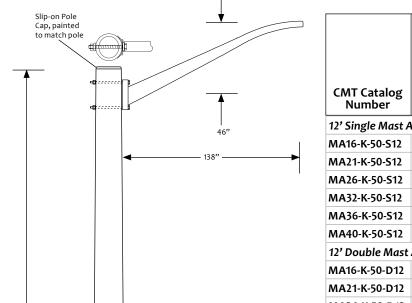
 $Total\ weight\ of\ fixture (s)\ and\ bracket (s)\ should\ not\ exceed\ vertical\ load\ shown\ above.$

Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages.

Slip-fit tenon to be used only with 50# vertical load series.

Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the Accessories section.

Anchor Base: 12 FOOT: MAST ARM



Mounting

Height

	Nominal Mounting Height (ft.)	Shaft	Weight of Pole (lb.)	Tip	Butt	Maximum EPA		Bolt		
CMT Catalog Number	Nomina Height	Length (ft.)	Weig (Ib.)	O.D. (in.)	O.D. (in.)	80 MPH	100 MPH	120 MPH	Circle (in.)	
12' Single Mast Arm, up to 50# Luminaire										
MA16-K-50-S12	20	16	116	6.54	10.08	9.0	7.0	5.0	13.500	
MA21-K-50-S12	25	21	153	6.54	11.13	10.0	7.0	5.0	13.500	
MA26-K-50-S12	30	26	201	6.54	12.21	10.0	7.0	5.0	15.250	
MA32-K-50-S12	35	32	258	6.54	13.34	10.0	7.0	5.0	16.000	
MA36-K-50-S12	40	36	320	6.54	14.34	10.0	7.0	5.0	17.000	
MA40-K-50-S12	44	40	357	6.54	15.04	10.0	7.0	5.0	18.000	
12' Double Mast	Arm (@	180°), tv	vo 50# l	Lumina	ires					
MA16-K-50-D12	20	16	137	6.54	10.08	7.0	5.0	3.0	13.500	
MA21-K-50-D12	25	21	182	6.54	11.13	7.0	5.0	3.0	13.500	
MA26-K-50-D12	30	26	236	6.54	12.21	7.0	5.0	3.0	15.250	
MA32-K-50-D12	35	32	308	6.54	13.34	7.0	5.0	3.0	16.000	
MA36-K-50-D12	40	36	379	6.54	14.34	7.0	5.0	3.0	17.000	
MA40-K-50-D12	44	40	428	6.54	15.04	7.0	5.0	3.0	18.000	

For 140 MPH, see High Wind Speed section.

Base Cover

BC1 BC2

BC3

BC4

BC5

BC6

BC7 BC8

Don't see what you need? Call us. We can build it!

	2.5"x5"				
	Handhole			Bolt Circle (in.)	Bolt Size (in.)
	\mathcal{M}			8.625	0.5 x 15 x 4
				10.5	0.625 x 21 x 4
		Anchor		11.875	0.75 x 30 x 4
		Bolt		13.500	1 x 36 x 4
		24"		15.250	1 x 36 x 4
				16	1 x 36 x 4
ᆂ.		<u> </u>		17	1 x 36 x 4
				18	1 x 36 x 4
		Concrete Foundation			

Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory.

 $Total\ weight\ of\ fixture (s)\ and\ bracket (s)\ should\ not\ exceed\ vertical\ load\ shown\ above.$

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Supply drilling template with order





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