

### SPECIFICATIONS

**Poles:** Series 50 poles are 12' to 30' in height including a 4" top O.D. tapered and stepped structural aluminum shaft and decorative cast aluminum components. Poles are designed to accommodate post top luminaires or arm mounted luminaires with a maximum span of 6 feet.

**Shaft:** The shaft is formed from spun tapered seamless 6063 alloy aluminum. The shaft is tapered from 8" O.D. at the base straight to the cast collar. It is then tapered to 5" or 6" O.D. The shaft from the top of the cast collar is gradually tapered to the 4" top O.D. The top diameter of the shaft is 4" O.D. to allow arm combinations using a tenon interface. The shaft is inserted into the structural anchor shoe base casting.

**Anchor Base:** The anchor shoe base is cast from A356 alloy aluminum. A continuous circumferential weld joins the anchor base casting and shaft. The completed assembly is heat-treated to T6 temper after all structural welding is completed.

**Collar:** A two-piece cast aluminum decorative collar covers the anchor base and bolts. A second two-piece cast aluminum collar with a similar shape covers the shaft's step above the door. The two-piece collars are cast from A356 alloy aluminum. Half collars are fit together on the shaft with stainless steel hardware.

**Access Door:** The shaft is equipped with a door to provide access to the ground connector and circuit wiring. When the luminaire manufacturer provides remote lamp ballast control, these poles may be able to accommodate installation inside the pole base. The door is 11" tall, 4" wide, located 15" from the bottom of the anchor base, and attached to the shaft with stainless steel hardware.

**Pole Top Cap:** A removable cap is provided in conjunction with drilled shafts for direct lateral luminaire arm attachment.

**Anchor Bolt:** Anchor bolts are fabricated from carbon steel bar conforming to the requirements of ASTM F1554 Grade 55. The upper 12" of the bolts are hot dip galvanized per ASTM A153. Each anchor bolt is supplied with two hex nuts and two flat washers.

**Electrical Ground Connector:** To facilitate grounding connection, a drilled and tapped lug is provided. The ground lug is accessible from the access door and is sized for a 3/8" bolt with standard threads.

**Finish:** The finish for the pole is polyester powder coating applied over chromate pre-treatment in accordance with Valmont Industries' Specifications.

### SERIES 50

### CATALOG LOGIC

SERIES	MATERIAL	POLE SHAPE	LENGTH	TOP DIAMETER	WALL THICKNESS	SHAFT STYLE	FIXTURE MOUNTING	FINISH	OPTIONS
<b>AV</b>	<b>A</b>	<b>50</b>	_____	<b>40</b>	_____	<b>T</b>	_____	_____	_____
<b>SERIES</b> AV = Avenue	<b>MATERIAL</b> A = Aluminum	<b>POLE SHAPE</b> 50 = Series 50	<b>LENGTH</b> 120 = 12'-0" 140 = 14'-0" 160 = 16'-0" 180 = 18'-0" 200 = 20'-0" 250 = 25'-0" 300 = 30'-0"	<b>TOP DIAMETER</b> 40 = 4" Diameter	<b>WALL THICKNESS</b> 5 = 0.156" 6 = 0.188" 8 = 0.250"	<b>SHAFT SIZE</b> T = Tapered Round	<b>FIXTURE MOUNTING</b> P2 = 2 - 3/8" x 4" Tenon PD = 3" x 3" Tenon PA = Pole Top Tenon SM = Side Mount Drill <small>(Please Specify)</small>	<b>STANDARD FINISHES</b> WH = White BK = Black MB = Medium Bronze SG = Slate Grey ST = Sandstone SL = Silver BR = Burgundy RD = Red CG = Copper Green BG = Blue Green HG = Hunter Green AB = Azure Blue BV = Dark Blue Violet SC = Special Color <small>(Please Specify)</small>	<b>OPTIONS</b> SL = Special Pole Length <small>(Please Specify)</small>

# 12' TO 30' ALUMINUM POLES AVENUE SERIES 50



STRUCTURES

AVENUE DECORATIVE

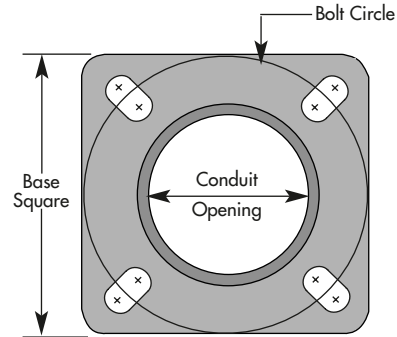
## ANCHOR BASE AND BOLT DIMENSIONS



### Access Door and Anchor

The pole includes an anchor base and a door to access the ground connector and circuit wiring. A decorative collar covers the anchor base and bolts.

### Anchor Base Detail



POLE HEIGHT (FT)	BASE DIMENSIONS (SEE DETAIL)				ANCHOR BOLTS	
	BOLT CIRCLE	OVERALL SQUARE	CONDUIT OPENING	BASE THK.	BOLT SIZE	BOLT PROJECT.
12' - 16'	12"	12"	11"	3/4"	3/4" x 17" x 3"	3.25"
18' - 30'	12"	12"	11"	3/4"	1" x 36" x 4"	3.75"

## STANDARD DIMENSIONAL AND LOAD DATA

POLE HEIGHT (FT)	CATALOG NUMBER <sup>Ⓐ</sup>	SHAFT			80 MPH <sup>Ⓑ</sup>		90 MPH <sup>Ⓑ</sup>		100 MPH <sup>Ⓑ</sup>	
		BASE O.D. (IN)	TOP O.D. (IN)	WALL THK. (GA)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)
12	AV-A-50-120-40-5-T-(M)-(F)	8	4	.156"	28.4	65	22.3	65	18.0	65
14	AV-A-50-140-40-5-T-(M)-(F)	8	4	.156"	24.2	65	18.9	65	15.2	65
16	AV-A-50-160-40-5-T-(M)-(F)	8	4	.156"	20.5	65	15.9	65	12.8	65
18	AV-A-50-180-40-5-T-(M)-(F)	8	4	.156"	17.1	65	13.2	65	10.6	65
20	AV-A-50-200-40-5-T-(M)-(F)	8	4	.156"	14.3	65	11.0	65	8.7	65
25	AV-A-50-250-40-6-T-(M)-(F)	8	4	.188"	11.6	65	8.8	65	6.9	65
30	AV-A-50-300-40-6-T-(M)-(F)	8	4	.188"	7.5	65	5.4	65	4.1	65
30	AV-A-50-300-40-8-T-(M)-(F)	8	4	.250"	11.1	65	8.2	65	6.4	65

<sup>Ⓐ</sup> Replace (M) with Fixture Mounting Method Code and (F) with Finish Code. See Catalog Logic for choices.

<sup>Ⓑ</sup> EPA calculations allow for 1.3 Wind Gust Factor. Variations from standard sizes listed above, available upon inquiry at the factory. Satisfactory performance of lighting standard is dependent upon the pole(s) being properly attached to a supporting foundation of adequate design. Valmont Industries does not design or offer recommendations for foundations.

**NOTE:** Pole Top Assembly weight and EPA must be added to luminaire(s) load data to determine appropriate pole size. Calculations include load at 3' above Pole Top and 6' eccentric to the pole.