

### SPECIFICATIONS

**Poles:** Series 20 poles are 8' to 16' in height including a cast aluminum structural base and a 4" O.D. straight round aluminum shaft. Poles are designed to accommodate post top luminaires or arm mounted luminaires with a maximum span of 3 feet.

**Shaft:** The shaft is formed from extruded seamless 6063 alloy aluminum. 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 decorative base casting.

**Structural Base:** The structural base is cast from A356 alloy aluminum. The structural base casting and shaft are joined by a continuous circumferential weld at the outside top of the base. The base locates the anchor bolts outside the main shape. The completed assembly is heat-treated to T6 temper after all structural welding is completed.

**Access Door:** The base 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 10" tall, 5" wide, located 17" 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 20

### CATALOG LOGIC

SERIES	MATERIAL	POLE SHAPE	LENGTH	TOP DIAMETER	WALL THICKNESS	SHAFT STYLE	FIXTURE MOUNTING	FINISH	OPTIONS
<b>AV</b>	<b>A</b>	<b>20</b>		<b>40</b>		<b>S</b>			
<b>SERIES</b> AV = Avenue	<b>MATERIAL</b> A = Aluminum	<b>POLE SHAPE</b> 20 = Series 20	<b>LENGTH</b> 080 = 8'-0" 100 = 10'-0" 120 = 12'-0" 140 = 14'-0" 160 = 16'-0"	<b>TOP DIAMETER</b> 40 = 4" Diameter	<b>WALL THICKNESS</b> 6 = 0.188" 8 = 0.250"	<b>SHAFT SIZE</b> S = Straight 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 (Please Specify)	<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 (Please Specify)	<b>OPTIONS</b> SL = Special Pole Length (Please Specify)

# 8' TO 16' ALUMINUM POLES AVENUE SERIES 20



STRUCTURES

AVENUE DECORATIVE

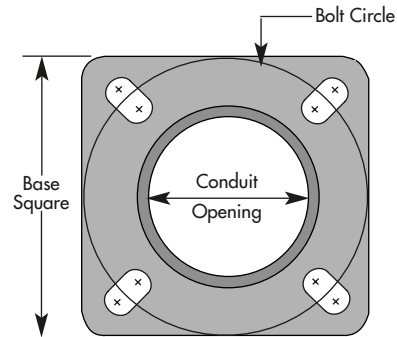
## ANCHOR BASE AND BOLT DIMENSIONS



### Access Door and Anchor

The structural base includes an anchor plate and door to access the ground connector and circuit wiring.

### Anchor Base Detail



POLE HEIGHT (FT)	BASE DIMENSIONS (SEE DETAIL)				ANCHOR BOLTS	
	BOLT CIRCLE	OVERALL SQUARE	CONDUIT OPENING	BASE THK.	BOLT SIZE	BOLT PROJECT.
8' - 16'	11"	11.3"	6"	3/4"	3/4" x 17" x 3"	3.25"

## 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)
8	AV-A-20-080-40-6-S-(M)-(F)	4	4	.188"	16.4	65	12.8	65	10.3	65
10	AV-A-20-100-40-6-S-(M)-(F)	4	4	.188"	13.3	65	10.3	65	8.3	65
12	AV-A-20-120-40-6-S-(M)-(F)	4	4	.188"	10.9	65	8.4	65	6.6	65
14	AV-A-20-140-40-6-S-(M)-(F)	4	4	.188"	9.0	65	6.8	65	5.3	65
14	AV-A-20-140-40-8-S-(M)-(F)	4	4	.250"	11.9	65	9.1	65	7.1	65
16	AV-A-20-160-40-6-S-(M)-(F)	4	4	.188"	7.2	65	5.3	65	4.0	65
16	AV-A-20-160-40-8-S-(M)-(F)	4	4	.250"	9.7	65	7.3	65	5.6	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 3' eccentric to the pole.