

CATALOG #: \_\_\_\_\_

Type: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Spun pole shaft with cast aluminum base provides durability and resists corrosion
- Designed to accommodate up to two fixtures on a pole top assembly with a maximum 72" O.C. fixture span
- 12' to 30' height options
- An assortment of finishes are available to complement the architectural elements of any outdoor space
- Access door provides easy on-site maintenance

## SPECIFICATIONS

- SHAFT** – 4" O.D top tapered and stepped round pole spun from seamless 6000 series aluminum alloy.
- POLE TOP** – Plate and tenon provided for top mount luminaire. Removable finial available for poles receiving drilling patterns for side-mount luminaire arm assemblies.
- HANDHOLE** – Covered handhole and grounding provision provided.
- COLLAR & BASE COVER** – Clamshell design made from high-quality aluminum casting.
- FINISH** – Polyester powder coat bonded to pretreated metal, meets AAMA 2604 specifications for outdoor durability.
- ANCHOR BOLTS** – Conform to ASTM F1554 Grade 55, galvanized a minimum of 12" on the threaded end.
- MOUNTING** – Anchor base (base plate) cast from 356 alloy aluminum. The completed assembly is heat-treated to a T6 temper after the structural welding is completed. A mounting template is provided with each pole and anchor bolt order.

## ORDERING EXAMPLE: AV50 - A - 120 - 40 - 156 - T - TM238 - DBR - AB - OPTIONS

SERIES	MATERIAL	HEIGHT	TOP DIAMETER	WALL THICKNESS	SHAFT STYLE
AV50	A Aluminum	Additional limitations may apply. Specify according to chart. See page 4 for LOAD AND DIMENSIONAL DATA.			T Tapered Round
		120 12'-0"	40 4"	156 0.156" <sup>[2]</sup>	
		140 14'-0"		188 0.188" <sup>[3]</sup>	
		160 16'-0"		250 0.250" <sup>[4]</sup>	
		180 18'-0"			
		200 20'-0"			
		250 25'-0"			
		300 30'-0"			
		SL___ Special pole length <sup>[1]</sup>			

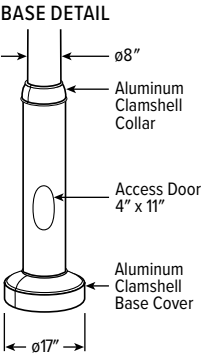
FIXTURE MOUNTING <sup>[5]</sup>	FINISH <sup>[6]</sup>	ANCHOR BOLTS	OPTIONS
<b>POLE TOP MOUNT</b>	<b>BLK</b> Black <sup>[15]</sup>	<b>AB</b> Anchor bolts <sup>[19]</sup>	<b>FS</b> Festoon box only <sup>[21]</sup>
<b>TM238</b> 2-3/8" x 4" Round tenon	<b>DBR</b> Medium bronze	<b>LAB</b> Less anchor bolts	
<b>TM278</b> 2-7/8" x 4" Round tenon	<b>DBZ</b> Dark bronze	<b>PAB</b> Pre-shipped Anchor Bolts <sup>[20]</sup>	<b>FINIALS</b> <sup>[22]</sup>
<b>TM3</b> 3" x 4" Round tenon	<b>GRAY</b> Standard gray		<b>B</b> Ball
<b>TC___</b> Custom Round Tenon <sup>[7]</sup>	<b>GRN</b> Green <sup>[16]</sup>		<b>H</b> South River
	<b>SLV</b> Satin aluminum <sup>[17]</sup>		<b>M</b> Metro
<b>DRILLED SIDE MOUNT</b> <sup>[8]</sup>	<b>WHT</b> White <sup>[18]</sup>		<b>N</b> Pineapple
<b>SM/S</b> Single 0° <sup>[9]</sup>	<b>RAL#___</b> Specify custom color		<b>P</b> Point
<b>SM/D90</b> Double 90° <sup>[10]</sup>			<b>R</b> Pantheon
<b>SM/D180</b> Double 180° <sup>[11]</sup>			<b>S</b> Spear
<b>SM/T90</b> Triple 90° <sup>[12]</sup>			<b>V</b> Burnsville
<b>SM/T120</b> Triple 120° <sup>[13]</sup>			
<b>SM/Q90</b> Quad 90° <sup>[14]</sup>			

## NOTES

- Please specify, consult factory.
- Up to 200 Height only.
- 250 and 300 Heights only.
- 300 Height only.
- Designed for pole top tenon or drilled side mount. See page 2 for MOUNTING DETAILS.
- See page 3 for FINISH OPTIONS.
- Must specify tenon diameter and height, consult factory.
- Removable finial available, see Options.
- Located at 0°.
- Located at 0° and 90°.
- Located at 0° and 180°.
- Located at 0°, 90°, and 180°.
- Located at 0°, 120°, and 240°.
- Located at 0°, 90°, 180°, and 270°.
- RAL #9004.
- RAL #6005.
- RAL #9006.
- RAL #9003.
- Four L-bolts provided with two hex nuts and two flat washers each, shipped with pole.
- Four L-bolts provided with two hex nuts and two flat washers each.
- Casting only. Outlet, cover and hardware by others.
- For poles with side-mount drill only, for additional finial options consult factory. See page 3 for OPTION DETAILS.

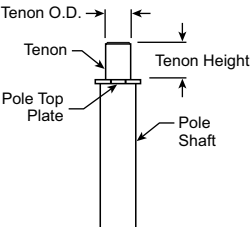
# AV50 Aluminum Tapered & Stepped Round Pole & Base

## FIXTURE DETAILS



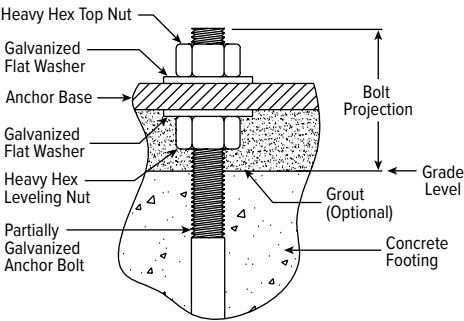
## MOUNTING DETAILS

### POLE TOP MOUNT TYPICAL TENON

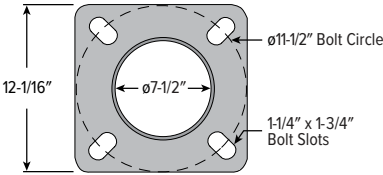


### ANCHORAGE DATA

#### BOLT PROJECTION

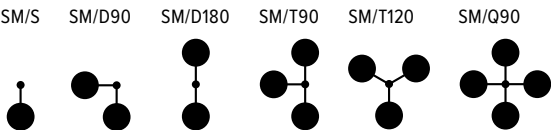


#### ANCHOR BASE

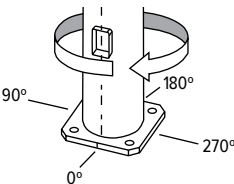
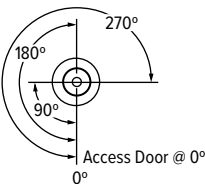


POLE HT.	ANCHOR BOLTS			ANCHOR BASE			
	BOLT SIZE	PROJECTION	±	BOLT CIRCLE		SQ.	THK.
12' - 16'	3/4" x 17" x 3"	3-1/4"	N/A	11-1/2"	1/2"	12-1/16"	3/4"
18' - 30'	1" x 36" x 4"	3-3/4"	N/A	11-1/2"	1/2"	12-1/16"	3/4"

### DRILLED SIDE MOUNT OPTIONS



### RADIAL INDEX



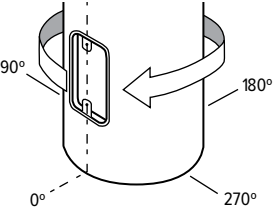
The Radial Index references how parts are oriented around the shaft. A degree measurement is used from a base point. The standard base point of reference is the access door. Degrees are measured in a clockwise motion as viewed from the top of the shaft.

AV50

Aluminum  
Tapered & Stepped Round Pole & Base

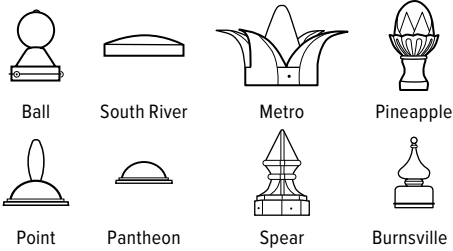
OPTION DETAILS

ALUMINUM FESTOON BOX

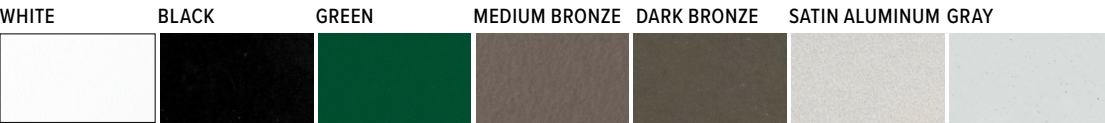


NOTE: The festoon box is located above the access door at 0°.

FINIALS



FINISH OPTIONS



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

# AV50 Aluminum Tapered & Stepped Round Pole & Base

## LOAD AND DIMENSIONAL DATA

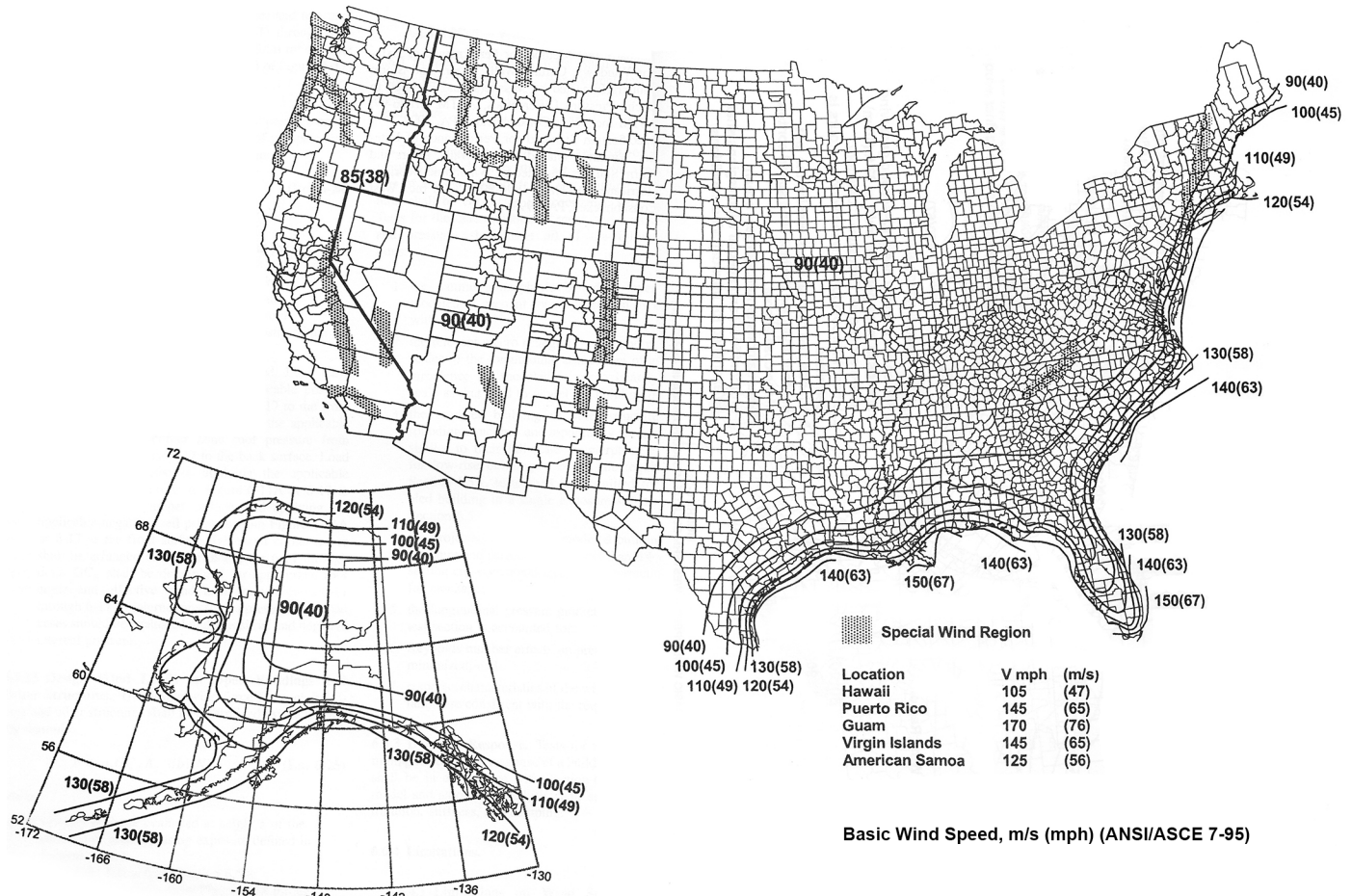
POLE HT. (FT)	CATALOG NUMBER	POLE DIMENSIONS				80 MPH <sup>1,2</sup>		90 MPH <sup>1,2</sup>		100 MPH <sup>1,2</sup>	
		BASE O.D. (IN)	TOP O.D. (IN)	WALL THK. (IN)	STRUC. WT <sup>3</sup> (LBS)	MAX LUMINAIRE EPA (SQ FT)	MAX LUMINAIRE WEIGHT (LBS)	MAX LUMINAIRE EPA (SQ FT)	MAX LUMINAIRE WEIGHT (LBS)	MAX LUMINAIRE EPA (SQ FT)	MAX LUMINAIRE WEIGHT (LBS)
12	AV50-A-120-40-156-T	8	4	0.156	52	20.0	65	20.0	65	18.2	65
14	AV50-A-140-40-156-T	8	4	0.156	58	20.0	65	19.2	65	15.4	65
16	AV50-A-160-40-156-T	8	4	0.156	64	20.0	65	16.4	65	13.1	65
18	AV50-A-180-40-156-T	8	4	0.156	70	18.1	65	14.0	65	11.2	65
20	AV50-A-200-40-156-T	8	4	0.156	76	15.6	65	12.0	65	9.5	65
25	AV50-A-250-40-188-T	8	4	0.188	106	13.4	65	10.2	65	8.0	65
30	AV50-A-300-40-188-T	8	4	0.188	123	9.2	65	6.7	65	5.1	65
	AV50-A-300-40-250-T	8	4	0.250	160	13.2	65	9.9	65	7.7	65

- <sup>1</sup> Effective Projected Area (EPA) calculations allow for 1.3 Wind Gust Factor. Maximum EPA and weight values are based on top mounted luminaires or arm assembly having a centroid 3'-0" above and 6'-0" eccentric to the pole top at Nominal Mounting Height. Variations from sizes above are available upon inquiry. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
- <sup>2</sup> See WIND MAP below.
- <sup>3</sup> Structure Weight is a nominal value which includes the pole shaft and structural base.

- Pole installations in various parts of the country perform satisfactorily; however, in select locations destructive vibration can occur. H.E. Williams, Inc. is not responsible for vibration induced fatigue damage.
- H.E. Williams, Inc. warrants this product to be free from defects in materials and workmanship. Any defective part returned within one year from the date of delivery of the goods will be repaired or replaced without charge, F.O.B. factory.
- This warranty specifically excludes fatigue or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

- The above warranties are given in lieu of all other warranties express or implied, including without limitation, the warranty of merchantability and the warranty of suitability for a particular purpose. It is expressly stated that H.E. Williams, Inc. assumes no liability for consequential or liquidated damages arising out of a breach of the sale, including any warranties arising therefrom, and buyer's remedy shall be limited to repair or replacement of defective parts as described above.
- Any action for the breach under a sale including any warranties arising therefrom must be commenced within one year after the cause of action accrues.

## WIND MAP



The Effective Projected Area (EPA) standards shown in the Load and Dimensional Data Tables on the specification sheets are designed to withstand dead loads and theoretical dynamic loads developed by variable wind speeds, as charted, with an appropriate wind gust factor under the following conditions:

- Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10 m) above ground for Exposure C category.

- Linear Interpolation between wind contours is permitted.
- Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
- Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
- This map is intended as a general guide. Check your local area for unique wind conditions.

From Standard Specifications for Structural Support for Highway Signs, Luminaires, and Traffic Signals, Copyright 2009, by the American Association of State Highway and Transportation Officials, Washington D.C. Used by permission. Documents may be purchased from the AASHTO bookstore at 1-800-231-3475 or online at [bookstore.transportation.org](http://bookstore.transportation.org)