

SSAB Series Poles

SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

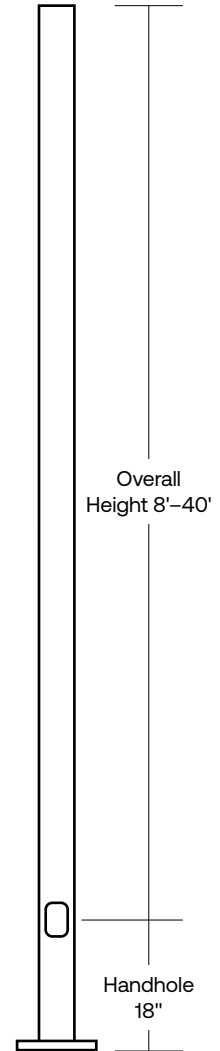
SPECIFICATIONS

CONSTRUCTION

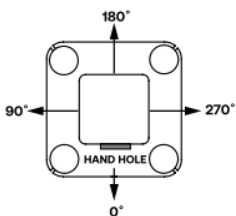
- Shaft: One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- Anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
 - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
1 x 36 x 4 — TAB-36-M38
- Super Durable polyester-TGIC powder coat finish with nominal 3.0 mil thickness. Meets or exceeds AAMA 2604 standards

INSTALLATION

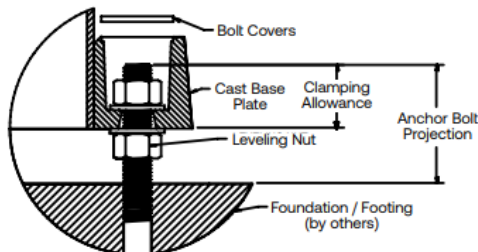
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



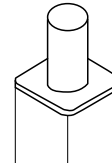
BASE



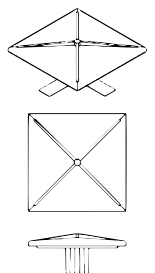
BASE DETAIL



TENON



POLE CAP



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ORDERING INFORMATION

Example: SSAB25-50B-2L-S2-DBT-UL

SSAB								
Series	Height	Shaft	Thickness	Mounting	Drill Pattern	Finish	Options	
SSAB Square Straight Aluminum Pole Beacon	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall C - .250" Wall	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 4 Four fixtures at 90° TA Tenon (2.38" OD x 4" Tall) OT Open Top (includes pole cap)	B1 Cruiser, "AM" arm B3 2 bolt (2-1/2" spacing), Viper "A" arm S2 2 bolt (3-1/2" spacing), Viper "AD" arm UDP Universal Drill Pattern	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGT Light Grey Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color ²	GF1 ³ 20 Amp GFCI Receptacle and Cover EHH ³ Extra Handhole C05 ³ .5" Coupling C07 ³ .75" Coupling C20 ³ 2" Coupling MPB ³ Mid-pole Luminaire Bracket VM1 ^{4,6} Mode vibration dampener VM2 ⁵ 2nd mode vibration dampener LAB Less Anchor Bolts UL UL Certified	

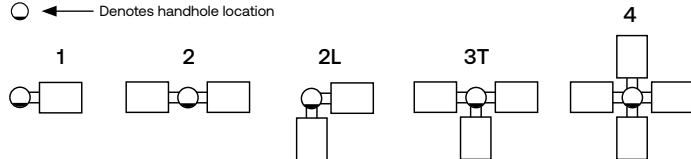
Accessories (Order Separately)

- ☐ VM2S08 Field-installed 2nd mode vibration dampener - 8 ft
- ☐ VM2S12 Field-installed 2nd mode vibration dampener - 12 ft
- ☐ VM2S16 Field-installed 2nd mode vibration dampener - 16 ft
- ☐ VM2S20 Field-installed 2nd mode vibration dampener - 20 ft
- ☐ VM2S25 Field-installed 2nd mode vibration dampener - 25 ft

- 1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSA-B-25-40-A-1-B1-TR-BBTT.
- 2 Custom colors available; RAL number preferable
- 3 Specify option location using logic found on page 3 (Option Orientation).
- 4 VM1 recommended on poles 20' and taller with EPA of less than 1.
- 5 There will be a weld witness mark on the side of the pole with the Factory installed VM2
- 6 Only available in 4in diameter poles

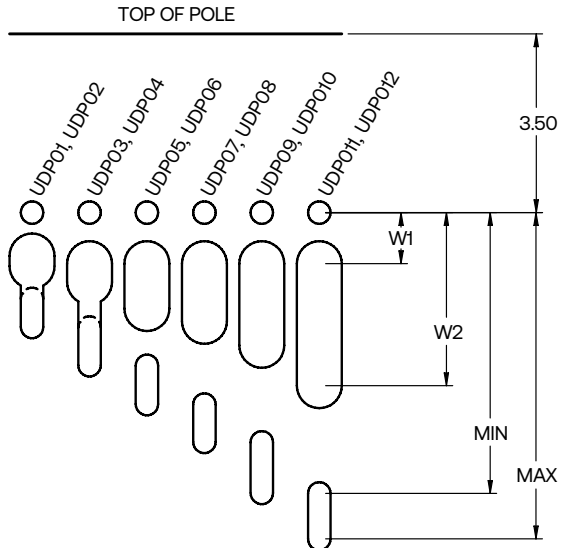
MOUNTING ORIENTATION

○ ← Denotes handhole location



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
3/8" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/8" to 1/2"	UDP02	UDP04	UDP06	UDP08	UDP10	UDP12
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

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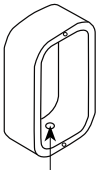
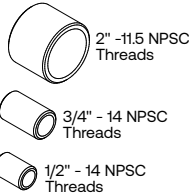
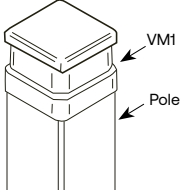


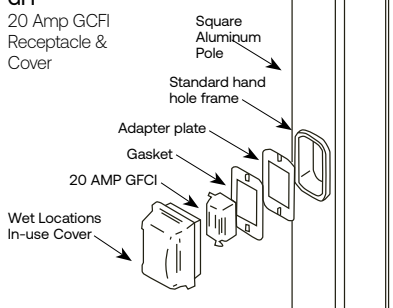
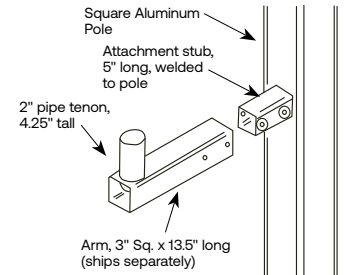
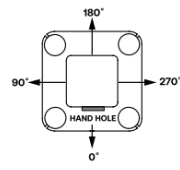
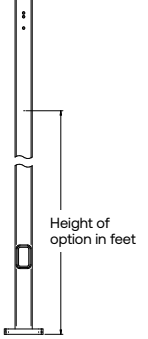
SQUARE STRAIGHT ALUMINUM

DATE:	LOCATION:
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CATALOG #:	

ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE	BASE PLATE SIZE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT (LBS)
	FEET	METERS							
SSAB08-40A	8	2.4	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	32
SSAB10-40A	10	3.0	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	37
SSAB12-40A	12	3.7	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	42
SSAB14-40A	14	4.3	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	47
SSAB16-40A	16	4.9	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	52
SSAB18-40A	18	5.5	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	57
SSAB20-40A	20	6.1	4" Square	.125"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	62
SSAB16-40B	16	4.9	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	74
SSAB18-40B	18	5.5	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	80
SSAB20-40B	20	6.1	4" Square	.188"	8.5"	9.88 x 2"	3/4 x 30 x 3"	3"	85
SSAB18-50B	18	5.5	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	91
SSAB20-50B	20	6.1	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	107
SSAB25-50B	25	7.6	5" Square	.188"	10.5"	11.25" x 2.5"	3/4 x 30 x 3"	3.5"	130
SSAB16-60B	16	4.9	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	105
SSAB18-60B	18	5.5	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	130
SSAB20-60B	20	6.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	155
SSAB25-60B	25	7.6	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	180
SSAB30-60B	30	9.1	6" Square	.188"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	210
SSAB16-60C	16	4.9	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	121
SSAB18-60C	18	5.5	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	144
SSAB20-60C	20	6.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	166
SSAB25-60C	25	7.6	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	224
SSAB30-60C	30	9.1	6" Square	.250"	12"	12.75" x 2.75"	1 x 36 x 4"	3.75"	258

- Notes:**
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
 - For more information about pole vibration and vibration dampeners, please consult factory.
 - Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.
 - † There will be a weld witness mark on the side of the pole with the Factory installed VM2.

EHH Extra handhole  Provision for Grounding	C05 / C07 / C20 Coupling 	VM1 1st mode vibration dampener  Field Installed Pole Top dampener designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.	VM2[†] 2nd mode vibration dampener  Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.	VM2SXX Field-installed 2nd mode vibration dampener  VM2S08 – 8' VM2S12 – 12' VM2S16 – 16' VM2S20 – 20' VM2S24 – 24'
GFI 20 Amp GCFI Receptacle & Cover 		MPB Mid Pole Bracket 		Option Orientation Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C05 should be ordered as: SSAB20-40A-TA-DBT-C05-0-15 (5" coupling on the handhole side of pole, 15' up from the pole base) † spacing required between option. Consult factory for other configurations.  

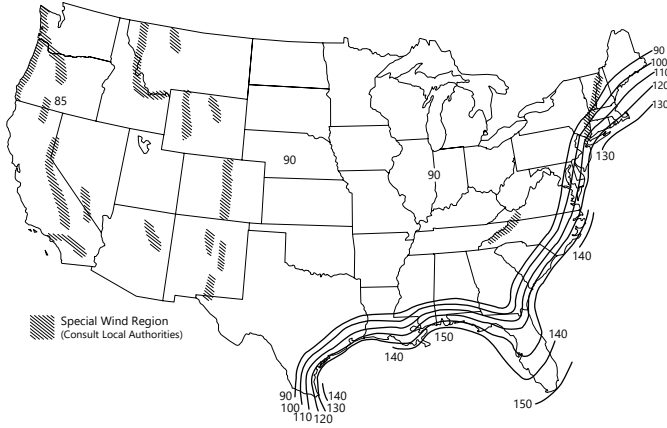
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WIND MAPS

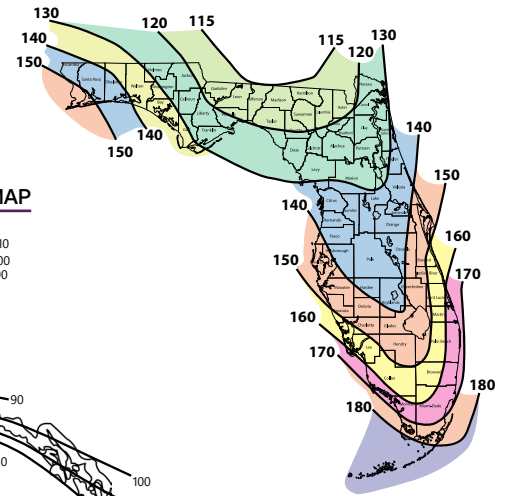
ASCE7-05 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

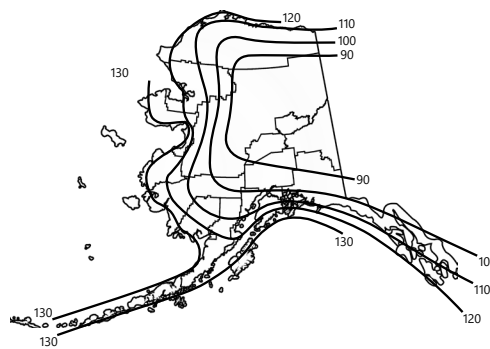
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FLORIDA REGION WIND MAP



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code.

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSAB08-40A	17.3	15.2	12.0	10.7	9.6	7.7	6.2	5.0	4.5	4.0
SSAB10-40A	12.6	11.0	8.4	7.4	6.5	4.9	3.7	2.8	2.4	2.0
SSAB12-40A	9.3	7.9	5.8	4.9	4.2	2.9	1.9	1.1	0.8	0.5
SSAB14-40A	6.7	5.6	3.8	3.0	2.4	1.3	NR	NR	NR	NR
SSAB16-40A	4.7	3.7	2.1	1.4	0.9	NR	NR	NR	NR	NR
SSAB18-40A	2.9	2.1	0.6	NR	NR	NR	NR	NR	NR	NR
SSAB20-40A	1.4	0.6	NR	NR	NR	NR	NR	NR	NR	NR
SSAB16-40B	9.2	7.7	5.4	4.5	3.7	2.3	1.2	NR	NR	NR
SSAB18-40B	6.8	5.6	3.6	2.7	2.0	0.8	NR	NR	NR	NR
SSAB20-40B	4.8	3.7	1.9	1.2	0.6	NR	NR	NR	NR	NR
SSAB18-50B	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	NR	NR
SSAB20-50B	9.8	8.1	5.2	4.0	3.0	1.3	NR	NR	NR	NR
SSAB25-50B	4.0	2.7	0.5	NR	NR	NR	NR	NR	NR	NR
SSAB16-60B	25.0	22.3	16.9	14.7	12.7	9.6	7.0	5.0	4.2	3.4
SSAB18-60B	20.7	17.7	13.0	11.0	9.3	6.5	4.3	2.6	1.8	1.1
SSAB20-60B	16.4	13.8	9.6	7.9	6.4	3.9	2.0	NR	NR	NR
SSAB25-60B	8.3	6.3	3.1	1.8	0.7	NR	NR	NR	NR	NR
SSAB30-60B	2.5	0.8	NR	NR	NR	NR	NR	NR	NR	NR
SSAB16-60C	25.0	25	24.5	21.5	19.0	14.9	11.6	9.0	7.9	6.8
SSAB18-60C	25.0	25	19.5	17.1	14.9	11.2	8.3	6.0	5.1	4.2
SSAB20-60C	24.2	20.9	15.4	13.2	11.2	8.0	5.5	3.5	2.6	1.8
SSAB25-60C	14.2	11.6	7.5	5.8	4.3	1.9	NR	NR	NR	NR
SSAB30-60C	7.1	5	1.7	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	115	120	130	140	150	160	170	180
SSAB08-40A	14.8	13.4	11.0	9.1	7.6	6.3	5.3	4.4
SSAB10-40A	10.9	9.8	7.9	6.3	5.1	4.1	3.2	2.5
SSAB12-40A	7.9	7.0	5.4	4.1	3.0	2.2	1.5	0.9
SSAB14-40A	5.6	4.8	3.4	2.3	1.4	0.6	NR	NR
SSAB16-40A	3.6	2.9	1.7	0.7	NR	NR	NR	NR
SSAB18-40A	1.8	1.2	NR	NR	NR	NR	NR	NR
SSAB20-40A	NR	NR	NR	NR	NR	NR	NR	NR
SSAB16-40B	7.7	6.7	4.9	3.5	2.4	1.5	0.7	NR
SSAB18-40B	5.4	4.5	3.0	1.8	0.8	NR	NR	NR
SSAB20-40B	3.5	2.7	1.3	NR	NR	NR	NR	NR
SSAB18-50B	10.6	9.2	6.8	4.9	3.3	2.0	1.0	NR
SSAB20-50B	7.8	6.5	4.4	2.7	1.3	NR	NR	NR
SSAB25-50B	2.2	1.2	NR	NR	NR	NR	NR	NR
SSAB16-60B	22.0	19.6	15.5	12.4	9.8	7.7	5.9	4.4
SSAB18-60B	17.2	15.2	11.7	8.9	6.6	4.8	3.3	2.0
SSAB20-60B	13.4	11.5	8.4	6.4	4.0	2.4	1.0	NR
SSAB25-60B	5.7	4.4	2.0	NR	NR	NR	NR	NR
SSAB30-60B	NR	NR	NR	NR	NR	NR	NR	NR
SSAB16-60C	25.0	25.0	22.8	18.6	15.2	12.5	10.1	8.2
SSAB18-60C	25.0	22.5	18.0	14.3	11.3	9.0	7.0	5.3
SSAB20-60C	20.4	18.0	14.0	10.8	8.2	6.0	4.3	2.8
SSAB25-60C	11.2	9.3	6.2	3.8	1.8	NR	NR	NR
SSAB30-60C	4.3	2.9	NR	NR	NR	NR	NR	NR



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NOTES

Wind-speed Website disclaimer:

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- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations.
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings