

# Steel Poles



## STS SQUARE TAPERED STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on STS poles
- 20'-50' mounting heights
- Drilled or tenon (specify)

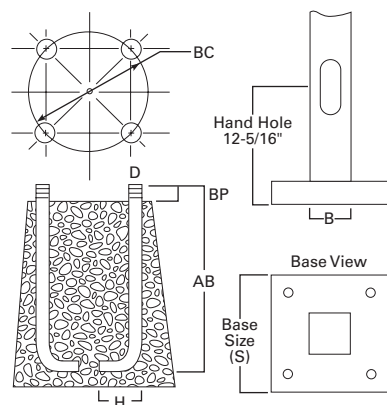
### ORDERING INFORMATION

SAMPLE NUMBER: STS5A20SF21XE

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
STS=Square Tapered Steel	5=5" 6=6" 7=7" 8=8" 9=9" Steel; 6-3/4" Aluminum	A=0.120" D=0.180"	20=20' 25=25' 30=30' 35=35' 39=39' 45=45' 50=50'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCI Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Glitter V=Vibration Dampener

**NOTES:** 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4" above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit [www.eaton.com/lighting](http://www.eaton.com/lighting) for available options, accessories and ordering information.

**Effective Projected Area (At Pole Top)**

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Diameter at Base <sup>3</sup> (Inches)	Shaft Taper (Inches/Feet)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B		D x AB x H		70 mph	80 mph	90 mph	100 mph	
20	STS5A20S	0.120	10-3/4	10-3/4	4	5.25	0.11	1 x 36 x 4	155	--	--	--	--	--
25	STS6A25S	0.120	11-1/2	12	4-1/8	6.00	0.11	1 x 36 x 4	205	--	--	--	--	--
30	STS6A30S	0.120	11-7/8	12-1/2	4-1/8	6.41	0.11	1 x 36 x 4	260	--	--	--	--	--
30	STS7D30S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	431	--	--	--	--	--
35	STS7A35S	0.120	12-1/4	13	4-1/8	6.81	0.11	1 x 36 x 4	305	--	--	--	--	--
35	STS7D35S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	475	--	--	--	--	--
39	STS7A39S	0.120	12-5/8	13-1/2	4-1/8	7.18	0.11	1 x 36 x 4	345	--	--	--	--	--
39	STS7D39S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	500	--	--	--	--	--
45	STS8D45S	0.180	13-3/8	14-1/2	4-1/2	7.88	0.11	1 x 36 x 4	620	--	--	--	--	--
50	STS9D50S	0.180	15-1/2	16	5	8.81	0.11	1-1/4 x 42 x 6	780	--	--	--	--	--

**Effective Projected Area (Two Feet Above Pole Top)**

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Diameter at Base <sup>3</sup> (Inches)	Shaft Taper (Inches/Feet)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max. Fixture Load - Includes Bracket (Pounds)
MH			S	BC	BP	B		D x AB x H		70 mph	80 mph	90 mph	100 mph	
20	STS5A20S	0.120	10-3/4	10-3/4	4	5.25	0.11	1 x 36 x 4	155	--	--	--	--	--
25	STS6A25S	0.120	11-1/2	12	4-1/8	6.00	0.11	1 x 36 x 4	205	--	--	--	--	--
30	STS6A30S	0.120	11-7/8	12-1/2	4-1/8	6.41	0.11	1 x 36 x 4	260	--	--	--	--	--
30	STS7D30S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	431	--	--	--	--	--
35	STS7A35S	0.120	12-1/4	13	4-1/8	6.81	0.11	1 x 36 x 4	305	--	--	--	--	--
35	STS7D35S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	475	--	--	--	--	--
39	STS7A39S	0.120	12-5/8	13-1/2	4-1/8	7.18	0.11	1 x 36 x 4	345	--	--	--	--	--
39	STS7D39S	0.180	12-5/8	13-1/2	4-1/2	7.13	0.11	1 x 36 x 4	500	--	--	--	--	--
45	STS8D45S	0.180	13-3/8	14-1/2	4-1/2	7.88	0.11	1 x 36 x 4	620	--	--	--	--	--
50	STS9D50S	0.180	15-1/2	16	5	8.81	0.11	1-1/4 x 42 x 6	780	--	--	--	--	--

## NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.

2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.

3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.

4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.