

Steel Utility Pole

Material Specifications:

- Pole shaft shall be minimum of 65 ksi yield after fabrication
 - ASTM A572 Grade 65
 - ASTM A1011 Grade 65
- Bearing Plate Shall be either ASTM A36 or ASTM A572 Gr. 50
- Hot dip galvanizing shall be per ASTM A123.

Loading:

- Class loading is per NESC C2 and ANSI O5.1.

Embedment Depth:

- Embedment depth is assumed to be 10% of total pole length plus 2 feet. Embedment depth shall be verified by a foundation engineer based on actual soil conditions.

Slip Joints:

- Poles over 50 ft require a two-piece assembly with a slip joint.
- Slip joints are a minimum of 1.5 times the inner base diameter of the upper section or a minimum of 24 inches. Refer to contract documents for slip joint location.

Accessories:

- Provisions for step attachments available upon request. An approved hole pattern must be submitted if holes are to be factory drilled.
- Shop-applied corrosion protection coating or ground sleeves available upon request.
- Bearing plate and top cap are provided with every pole.

Additional Corrosion Protection:

- Additional corrosion protection at groundline and below is available upon request. Poles requiring additional corrosion protection shall use Corrocote (or approved equivalent) from bottom of pole to 1 foot above groundline. Coating thickness shall be per manufacturer's recommendation or customer specifications.

Features and benefits:

- Advanced fabrication facility with AISC Certification.
- Fabricated tapered round pole designs
- Poles are designed and configured to suit a variety of equipment and applications.
- Ameron uses low carbon steel, sourced in the USA if specified.
- All poles are galvanized to assure longevity in harsh environments.
- AWS D1.1 welding compliance.
- Rigorous quality control assures consistency & durability.
- Lightweight alternative to wood poles are easier to transport and install.
- Trusted source with over 4 decades of experience supporting utilities around the country.
- Comply with ANSI and RUS requirements.
- Corrosion protection, Corrocote and ground sleeves are available to increase durability and long life.
- All poles are manufactured with a constant taper rate of 0.1375 in./ft.

Markets served:

Utility distribution

Installation features/capabilities:

Grade B Class 5 to H3; 30 to 95 ft with additional lengths available upon request.

Ameron: your one stop shop for concrete and steel utility poles

Steel wood pole equivalent

Steel Wood Pole Equivalent - Grade B - 65ksi Steel - Base O.D. (in.)										
	Class	5	4	3	2	1	H1	H2	H3	Slip Joint*
	Tip Load (lb)	1235	1560	1950	2405	2925	3510	4160	4875	AG (ft)
Length (ft)	30	9.375	8.6875	9.375	10.0625	11.4375	12.125	13.5	14.1875	-
	35	10.0625	9.375	10.0625	11.375	12.125	13.5	14.1875	15.5625	-
	40	9.375	10.0625	10.75	12.125	12.8125	14.1875	15.5625	16.25	-
	45	10.0625	10.75	11.4375	12.8125	14.1875	14.875	16.25	17.625	-
	50	10.75	11.4375	12.125	13.5	14.875	16.25	17.625	16.25	-
	55	11.4375	11.4375	12.8125	13.5	13.5	14.875	15.5625	16.9375	30
	60	12.125	12.125	13.5	14.1875	14.1875	14.875	16.25	17.625	30
	65	12.8125	12.8125	14.1875	14.875	14.875	15.5625	16.9375	18.3125	30
	70	13.5	13.5	14.875	15.5625	15.5625	16.25	17.625	16.9375	30
	75	14.1875	14.1875	15.5625	16.25	16.25	16.9375	18.3125	17.625	40
	80	14.875	14.875	16.25	16.9375	16.9375	17.625	16.9375	18.3125	40
	85	15.5625	15.5625	16.9375	17.625	17.625	18.3125	17.625	19	40
	90	16.25	16.25	17.625	18.3125	18.3125	18.3125	18.3125	19.6875	50
	95	16.9375	16.9375	18.3125	17.625	18.3125	19	19	20.375	50

*Unless otherwise noted on contract documents.

Steel Material Gauge and Thickness				
Gauge	11	7	3	0
Thickness (in.)	0.1196	0.1793	0.2391	0.3125

Steel Wood Pole Equivalent - Grade B - 65ksi Steel - Pole Weight (lb.)									
	Class	5	4	3	2	1	H1	H2	H3
	Tip Load (lb)	1235	1560	1950	2405	2925	3510	4160	4875
Length (ft)	30	276	371	410	450	529	568	647	687
	35	337	455	502	590	640	732	778	871
	40	494	547	600	705	758	863	969	1021
	45	586	645	704	823	941	1001	1119	1238
	50	684	750	815	947	1079	1211	1343	1607
	55	841	841	991	1066	1278	1454	1543	1719
	60	960	960	1123	1205	1607	1716	1934	2152
	65	1085	1085	1261	1350	1801	1918	2154	2389
	70	1216	1216	1406	1501	2003	2130	2383	2952
	75	1340	1340	1543	1644	2192	2328	2598	3218
	80	1485	1485	1701	1809	2413	2557	3154	3530
	85	1636	1636	1865	1980	2642	2794	3454	3854
	90	1780	1780	2022	2143	2857	3419	3732	4155
	95	1944	1944	2200	2763	3495	3692	4056	4501