



**MP**

**McWANE  
POLES**

# A GROUNDBREAKING ALTERNATIVE

## TO CONVENTIONAL UTILITY POLES

### ► WHY McWANE DUCTILE IRON POLES?

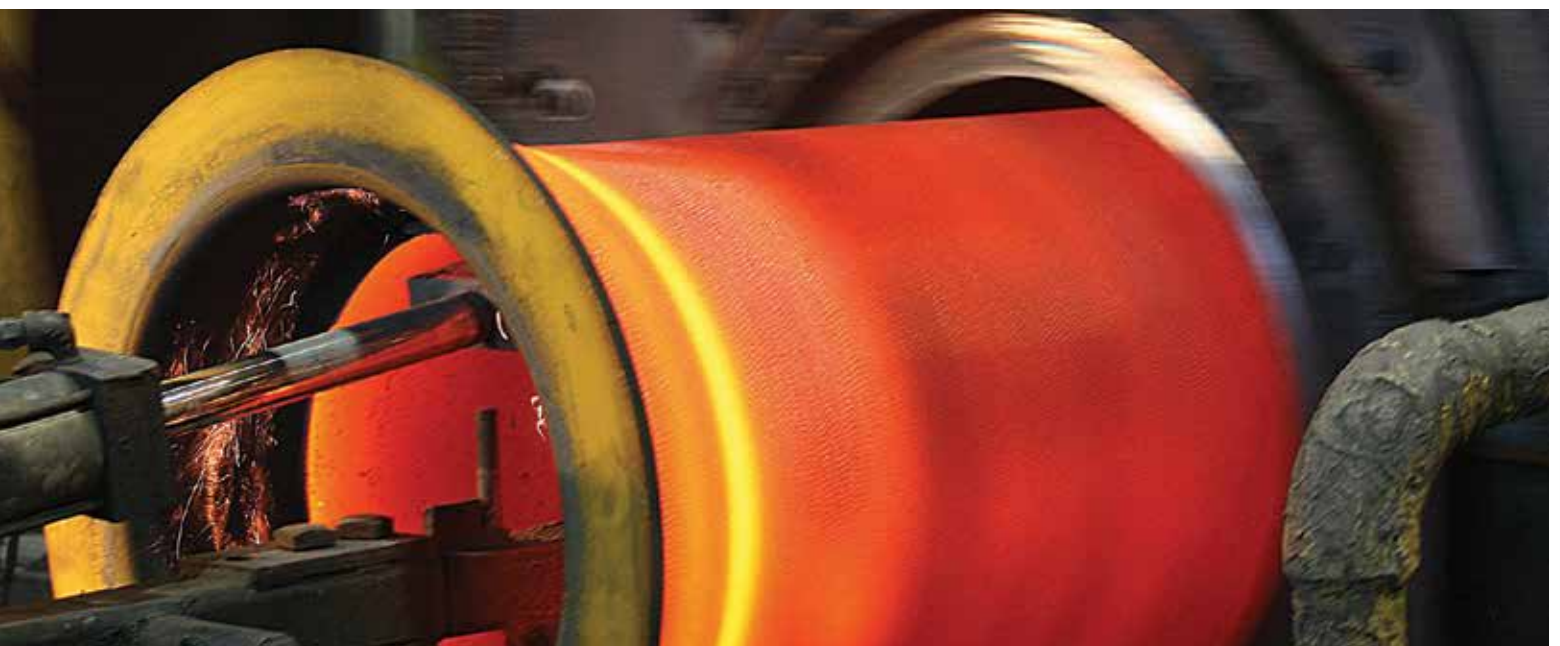
**LOW MAINTENANCE** — McWane ductile iron poles are completely resistant to rot, insects, and woodpeckers, so they require less maintenance than other poles.

**LOWER LIFE CYCLE COST** — With a 75 year plus expected service life and low maintenance requirement, McWane Poles have a lower life cycle cost than other poles.

**ENGINEERED CONSISTENCY** — McWane Poles are engineered and manufactured for consistent strength and appearance, and, unlike wood, they will not shrink or warp over time.

**SIMPLE INSTALLATION** — McWane Poles weigh less than wood and much less than concrete poles and are much easier to drill than steel, concrete, and fiberglass.

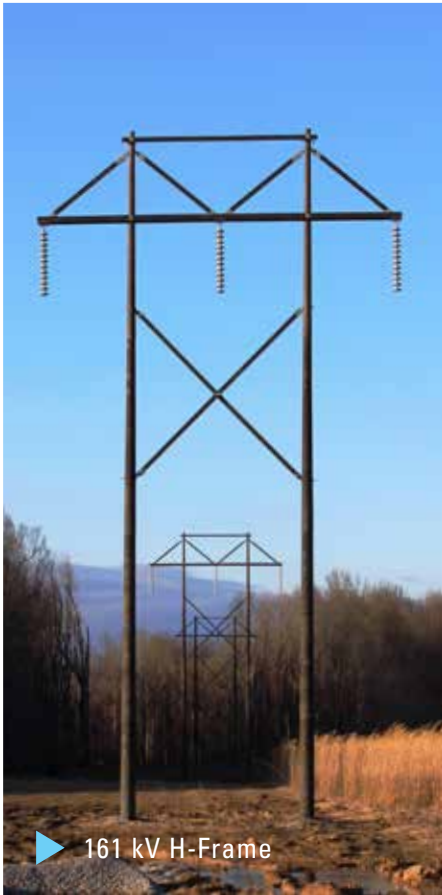
**LOW ENVIRONMENTAL IMPACT** — McWane Poles are made of over 96 percent recycled material and are 100 percent recyclable, and they do not leach harmful chemicals.



# McWANE POLES

IDEAL FOR THESE APPLICATIONS AND MANY MORE





▶ 161 kV H-Frame



▶ 115 kV



▶ Switch Poles

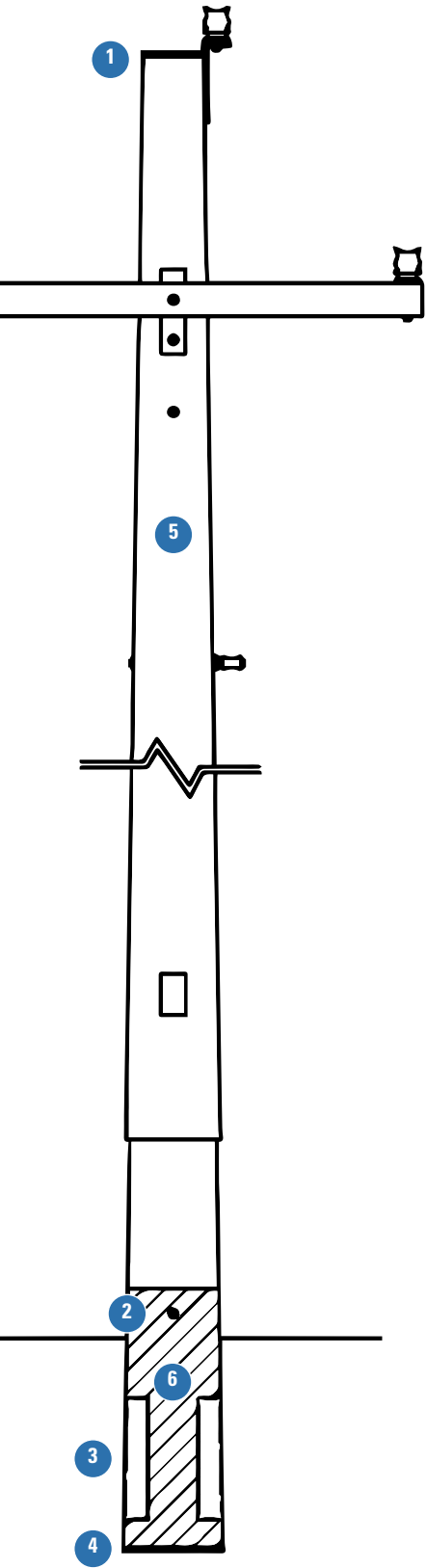


▶ Coastal Environments



▶ Un-Guyed Tap Poles

# POLE FINISHES AND FEATURES



## 1 Pole Cap Options



▶ Raptor Cap  
(Class H5 and Lower)



▶ Flat Cap  
(Class H5 and Lower)



▶ Ductile Iron Flat Cap

## 2 Ground Connection



## 3 Ground Plates



## 4 Base Plate



## 5 Pole Finish Options



▶ Weathered Finish  
Self-protecting finish



▶ Coated Finish  
Arc-applied zinc base coat with gray acrylic top coat (brown and black also available).

## 6 Embed Coating



▶ Ceramic Epoxy  
Applied internally and externally from base to 1' above ground standard

# POLE SIZES AND INFORMATION

Class 3								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	C3030	42	743	6.0	11.3	1.95	43.9	5.5
35	C3035	42	884	6.0	11.9	1.95	52.7	6.0
40	C3040	36	1140	6.0	12.8	1.95	62.4	6.0
45	C3045	33	1319	6.0	13.8	1.95	71.2	6.5
50	C3050	29	1512	6.0	14.4	1.95	80.0	7.0
55	C3055	24	1819	6.0	15.3	1.95	88.7	7.5
60	C3060	22	2031	6.0	16.3	1.95	97.5	8.0
65	C3065	17	2257	6.0	17.2	1.95	106.3	8.5
70	C3070	14	2722	6.0	17.8	1.95	115.1	9.0
75	C3075	[8]	3026	6.0	18.4	1.95	123.8	9.5
80	C3080	[8]	3350	6.0	19.4	1.95	132.6	10.0
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*	*	*	*	*	*	*	*	*

Class 2								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	C2030	42	841	6.0	11.2	2.41	54.1	5.5
35	C2035	42	1019	6.0	11.7	2.41	64.9	6.0
40	C2040	34	1293	6.0	12.7	2.41	77.0	6.0
45	C2045	29	1503	6.0	13.6	2.41	87.8	6.5
50	C2050	26	1728	6.0	14.6	2.41	98.6	7.0
55	C2055	21	2081	6.0	15.1	2.41	109.4	7.5
60	C2060	19	2338	6.0	16.0	2.41	120.3	8.0
65	C2065	14	2613	6.0	17.0	2.41	131.1	8.5
70	C2070	12	3044	6.0	17.5	2.41	141.9	9.0
75	C2075	[8]	3343	6.0	18.4	2.41	152.7	9.5
80	C2080	[8]	3658	6.0	19.4	2.41	163.5	10.0
85	C2085	[8]	4186	6.0	19.8	2.41	174.4	10.5
90	C2090	[8]	4515	6.0	20.8	2.41	185.2	11.0
95	C2095	[8]	4862	6.0	21.8	2.41	196.0	11.5

Class 1								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	C1030	36	991	8.7	14.1	2.93	65.8	5.5
35	C1035	36	1149	8.7	14.5	2.93	79.0	6.0
40	C1040	29	1496	8.7	15.5	2.93	93.6	6.0
45	C1045	25	1711	8.7	16.5	2.93	106.8	6.5
50	C1050	22	1914	8.7	17.5	2.93	119.9	7.0
55	C1055	18	2417	8.7	17.9	2.93	133.1	7.5
60	C1060	16	2726	8.7	18.9	2.93	146.3	8.0
65	C1065	12	3011	8.7	19.9	2.93	159.4	8.5
70	C1070	10	3578	8.7	20.3	2.93	172.6	9.0
75	C1075	[8]	3918	8.7	21.3	2.93	185.7	9.5
80	C1080	[8]	4223	8.7	22.3	2.93	198.9	10.0
85	C1085	[8]	4904	8.7	22.7	2.93	212.1	10.5
90	C1090	[6]	5287	8.7	23.7	2.93	225.2	11.0
95	C1095	[6]	5586	8.7	24.7	2.93	238.4	11.5
100	C1100	[6]	6100	8.7	26.5	2.93	251.6	12.0
105	C1105	[5]	6580	8.7	27.3	2.93	265.2	12.5
110	C1110	[5]	6760	8.7	27.3	2.93	278.4	13.0

Class H 1								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H1030	36	1144	8.7	14.1	3.51	79.0	5.5
35	H1035	33	1351	8.7	14.5	3.51	94.8	6.0
40	H1040	26	1732	8.7	15.5	3.51	112.3	6.0
45	H1045	22	1994	8.7	16.5	3.51	128.1	6.5
50	H1050	19	2274	8.7	17.5	3.51	143.9	7.0
55	H1055	16	2709	8.7	17.9	3.51	159.7	7.5
60	H1060	15	3013	8.7	18.9	3.51	175.5	8.0
65	H1065	11	3331	8.7	19.9	3.51	191.3	8.5
70	H1070	10	3859	8.7	20.3	3.51	207.1	9.0
75	H1075	[8]	4193	8.7	21.3	3.51	222.9	9.5
80	H1080	[8]	4544	8.7	22.3	3.51	238.7	10.0
85	H1085	[8]	5172	8.7	22.7	3.51	254.5	10.5
90	H1090	[6]	5549	8.7	23.7	3.51	270.3	11.0
95	H1095	[6]	5946	8.7	24.7	3.51	286.1	11.5
100	H1100	[6]	6932	8.7	25.3	3.51	301.9	12.0
105	H1105	[6]	7452	8.7	27.3	3.51	317.7	12.5
110	H1110	[5]	7812	8.7	27.3	3.51	333.5	13.0

▶ **BEST SOLUTION** “ Ductile Iron poles offer a unique combination of high value, incredible strength, light weight, durability, and flexibility, and they will not deteriorate like wood and concrete. They are more cost effective and do a better job than anything else the utility has come across. FKEC expects them to last a long, long time. ”

- Keith Kropf, PE - Director of Engineering at Florida Keys Electric Co-Op Association

▶ **EASY TO INSTALL** “ McWane Poles are much easier to work with. Only my two biggest line trucks can install concrete poles. This causes a backlog of work for pole installations. With McWane Poles, every line truck can perform an installation. ”

- Zane Howard, PE - Engineering Systems at Knoxville Utilities Board

\* Class poles are designed to wood pole equivalency, NESC Grade B construction.  
\* Weights can vary +/- 10%

Class H 2								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H2030	32	1381	8.7	14.2	4.16	93.6	5.5
35	H2035	28	1601	8.7	14.5	4.16	112.3	6.0
40	H2040	21	2083	8.7	15.5	4.16	133.1	6.0
45	H2045	19	2382	8.7	16.5	4.16	151.8	6.5
50	H2050	17	2668	8.7	17.5	4.16	170.6	7.0
55	H2055	14	3226	8.7	17.9	4.16	189.3	7.5
60	H2060	12	3576	8.7	18.9	4.16	208.0	8.0
65	H2065	9	3908	8.7	19.9	4.16	226.7	8.5
70	H2070	8	4568	8.7	20.3	4.16	245.4	9.0
75	H2075	[8]	4962	8.7	21.3	4.16	264.2	9.5
80	H2080	[8]	5316	8.7	22.3	4.16	282.9	10.0
85	H2085	[7]	6087	8.7	22.7	4.16	301.6	10.5
90	H2090	[6]	6543	8.7	23.7	4.16	320.3	11.0
95	H2095	[6]	6941	8.7	24.8	4.16	339.0	11.5
100	H2100	[5]	7955	8.7	25.3	4.16	357.8	12.0
105	H2105	[5]	8477	8.7	27.3	4.16	376.5	12.5
110	H2110	[4]	8789	8.7	27.3	4.16	395.2	13.0

Class H 3								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H3030	29	1508	8.7	14.2	4.88	109.7	5.5
35	H3035	25	1776	8.7	14.5	4.88	131.6	6.0
40	H3040	20	2256	8.7	15.5	4.88	156.0	6.0
45	H3045	17	2588	8.7	16.5	4.88	177.9	6.5
50	H3050	15	2938	8.7	17.5	4.88	199.9	7.0
55	H3055	13	3492	8.7	17.9	4.88	221.8	7.5
60	H3060	11	3873	8.7	18.9	4.88	243.8	8.0
65	H3065	9	4278	8.7	19.9	4.88	265.7	8.5
70	H3070	7	4938	8.7	20.3	4.88	287.6	9.0
75	H3075	[8]	5371	8.7	21.3	4.88	309.6	9.5
80	H3080	[7]	5830	8.7	22.3	4.88	331.5	10.0
85	H3085	[7]	6629	8.7	22.7	4.88	353.4	10.5
90	H3090	[6]	7116	8.7	23.7	4.88	375.4	11.0
95	H3095	[6]	7627	8.7	24.8	4.88	397.3	11.5
100	H3100	[5]	8665	8.7	25.3	4.88	419.7	12.0
105	H3105	[4]	9261	8.7	27.3	4.88	441.2	12.5
110	H3110	[4]	9806	8.7	27.3	4.88	463.1	13.0

Class H 4								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H4030	25	1728	11.4	16.9	5.66	127.2	5.5
35	H4035	22	1970	11.4	17.2	5.66	152.7	6.0
40	H4040	16	2579	11.4	18.2	5.66	181.0	6.0
45	H4045	15	2929	11.4	19.2	5.66	206.4	6.5
50	H4050	14	3210	11.4	20.3	5.66	231.9	7.0
55	H4055	11	3929	11.4	20.6	5.66	257.3	7.5
60	H4060	10	4327	11.4	21.7	5.66	282.8	8.0
65	H4065	8	4618	11.4	22.7	5.66	308.2	8.5
70	H4070	7	5459	11.4	23.1	5.66	333.6	9.0
75	H4075	[6]	5918	11.4	24.1	5.66	359.1	9.5
80	H4080	[6]	6243	11.4	25.1	5.66	384.5	10.0
85	H4085	[6]	7331	11.4	25.5	5.66	410.0	10.5
90	H4090	[5]	7856	11.4	26.5	5.66	435.4	11.0
95	H4095	[5]	8091	11.4	27.5	5.66	460.9	11.5

Class H 5								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H5030	25	1728	11.4	16.9	6.50	146.3	5.5
35	H5035	22	1970	11.4	17.2	6.50	175.5	6.0
40	H5040	16	2646	11.4	18.2	6.50	208.0	6.0
45	H5045	15	3036	11.4	19.2	6.50	237.3	6.5
50	H5050	13	3347	11.4	20.3	6.50	266.5	7.0
55	H5055	10	4172	11.4	20.6	6.50	295.8	7.5
60	H5060	9	4647	11.4	21.7	6.50	325.0	8.0
65	H5065	7	5035	11.4	22.7	6.50	354.3	8.5
70	H5070	6	5977	11.4	23.1	6.50	383.5	9.0
75	H5075	[6]	6508	11.4	24.1	6.50	412.8	9.5
80	H5080	[6]	6925	11.4	25.1	6.50	442.0	10.0
85	H5085	[5]	8079	11.4	25.5	6.50	471.3	10.5
90	H5090	[5]	8682	11.4	26.5	6.50	500.5	11.0
95	H5095	[5]	9065	11.4	27.5	6.50	529.8	11.5

▶ **MORE RELIABLE** “ Our guys are singing praises of this pole. All the insulators were stripped off the pole. I don't believe any other pole we use in this application would have survived undamaged like this one. ”  
 [After a large hickory tree fell on power lines, breaking wood poles on either side of a McWane pole.]

- Bart Borden - VP of Operations at Cleveland Utilities

▶ **THEY JUST WORK** “ They just work. They did exactly what they were designed to do - stop the domino effect. ” [After a winter storm took down 1,400 wood poles. No ductile iron or wood poles failed in the sections of line hardened with McWane Poles.]

- Reed Emerson, Cimarron Electric Cooperative's Senior Vice President of Engineering and Operations

\* Class poles are designed to wood pole equivalency, NESC Grade B construction.

\* Weights can vary +/- 10%

Class H 6								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H6030	16	1811	14.0	19.5	7.41	166.7	5.5
35	H6035	16	2065	14.0	19.9	7.41	200.1	6.0
40	H6040	16	2757	14.0	20.9	7.41	237.1	6.0
45	H6045	14	3158	14.0	21.9	7.41	270.5	6.5
50	H6050	13	3473	14.0	22.3	7.41	303.8	7.0
55	H6055	10	4348	14.0	23.3	7.41	337.2	7.5
60	H6060	9	4842	14.0	24.3	7.41	370.5	8.0
65	H6065	7	5231	14.0	24.7	7.41	403.8	8.5
70	H6070	5	6257	14.0	25.7	7.41	437.2	9.0
75	H6075	[6]	6779	14.0	26.7	7.41	470.5	9.5
80	H6080	[5]	7896	14.0	27.1	7.41	503.9	10.0

Class H 7								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H7030	16	1811	14.0	19.5	8.39	188.7	5.5
35	H7035	16	2065	14.0	19.9	8.39	226.4	6.0
40	H7040	15	2841	14.0	20.9	8.39	268.3	6.0
45	H7045	13	3283	14.0	21.9	8.39	306.1	6.5
50	H7050	12	3636	14.0	22.3	8.39	343.8	7.0
55	H7055	10	4554	14.0	23.3	8.39	381.5	7.5
60	H7060	9	5051	14.0	24.3	8.39	419.3	8.0
65	H7065	7	5394	14.0	24.7	8.39	457.0	8.5
70	H7070	5	6629	14.0	25.7	8.39	494.7	9.0
75	H7075	[6]	7236	14.0	26.7	8.39	532.4	9.5
80	H7080	[5]	8457	14.0	27.1	8.39	570.2	10.0

Class H 8								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H8030	16	1919	14.0	19.5	9.43	212.1	5.5
35	H8035	16	2207	14.0	19.9	9.43	254.5	6.0
40	H8040	14	3059	14.0	20.9	9.43	301.6	6.0
45	H8045	12	3535	14.0	21.9	9.43	344.0	6.5
50	H8050	11	3895	14.0	22.3	9.43	386.4	7.0
55	H8055	9	4872	14.0	23.3	9.43	428.8	7.5
60	H8060	8	5406	14.0	24.3	9.43	471.3	8.0
65	H8065	6	5785	14.0	24.7	9.43	513.7	8.5
70	H8070	5	7215	14.0	25.7	9.43	556.1	9.0
75	H8075	[5]	7943	14.0	26.7	9.43	598.5	9.5
80	H8080	[4]	9279	14.0	27.1	9.43	640.9	10.0

Class H 9								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	H9030	16	2271	16.5	22.1	10.53	236.9	5.5
35	H9035	16	2541	16.5	22.4	10.53	284.3	6.0
40	H9040	12	3475	16.5	23.5	10.53	337.0	6.0
45	H9045	9	3973	16.5	24.5	10.53	384.3	6.5
50	H9050	9	4968	16.5	24.9	10.53	431.7	7.0
55	H9055	8	5553	16.5	25.9	10.53	479.1	7.5
60	H9060	7	6161	16.5	26.9	10.53	526.5	8.0
65	H9065	5	7382	16.5	27.6	10.53	573.9	8.5
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11.7 Kip								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	11030	16	2271	16.5	22	11.7	263.3	5.5
35	11035	16	2683	16.5	22.3	11.7	315.9	6.0
40	11040	12	3545	16.5	23.4	11.7	374.4	6.0
45	11045	9	4080	16.5	24.4	11.7	427.1	6.5
50	11050	9	5066	16.5	24.7	11.7	479.7	7.0
55	11055	8	5649	16.5	25.7	11.7	532.4	7.5
60	11060	7	6256	16.5	26.7	11.7	585.0	8.0
65	11065	5	7477	16.5	26.9	11.7	637.7	8.5

12.8 Kip								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	12030	21	1927	16.5	22	12.8	288	5.5
35	12035	15	2590	16.5	22.3	12.8	345.6	6.0
40	12040	12	3749	16.5	23.4	12.8	409.6	6.0
45	12045	9	4286	16.5	24.4	12.8	467.2	6.5
50	12050	8	5413	16.5	24.7	12.8	524.8	7.0
55	12055	7	6117	16.5	25.7	12.8	582.4	7.5
60	12060	6	6849	16.5	26.7	12.8	640.0	8.0
65	12065	4	8187	16.5	26.9	12.8	697.6	8.5

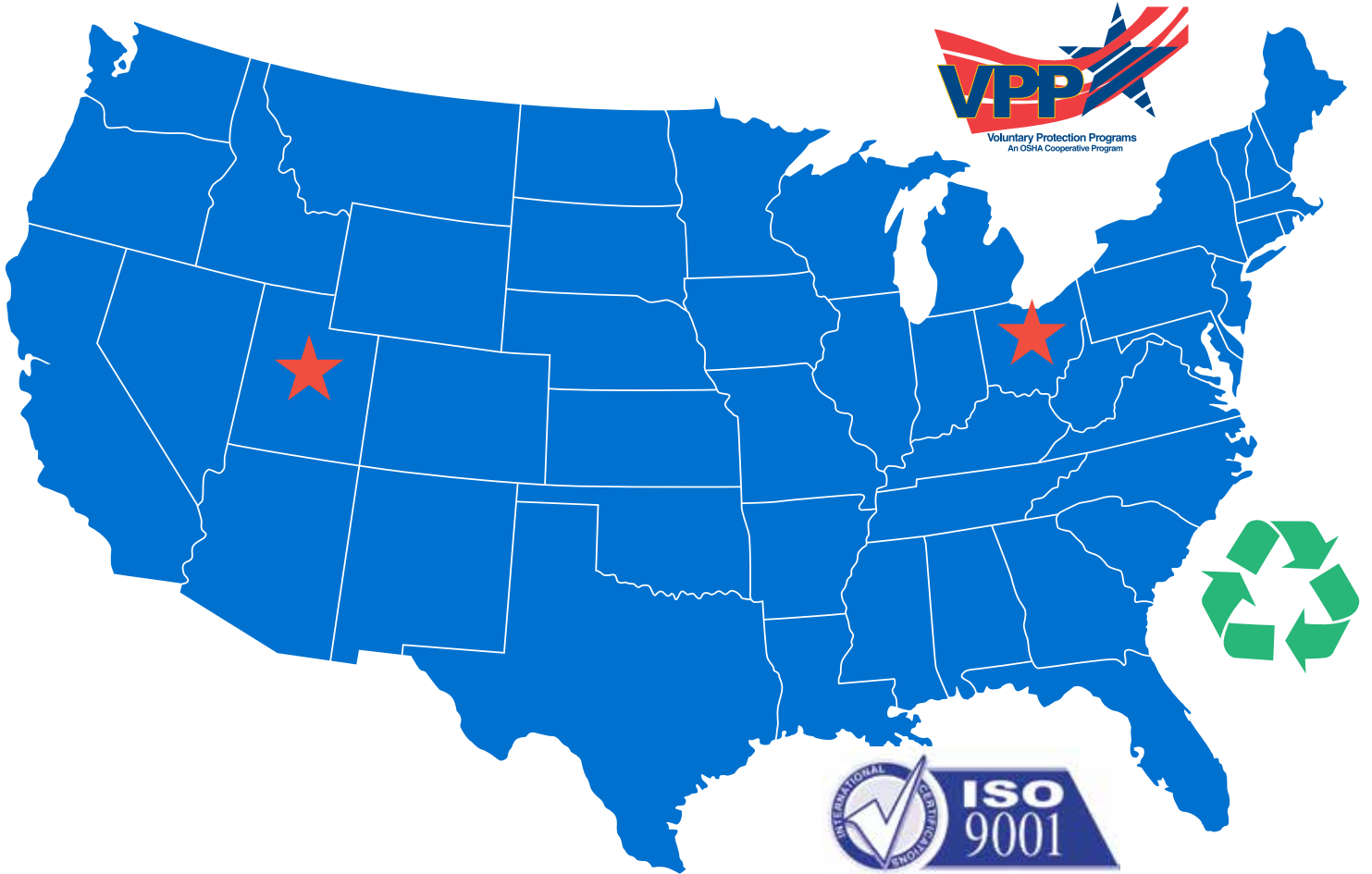
16 Kip								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	ANSI Embed Depth (Ft.)
30	10630	9	2770	16.5	22	16	360.0	5.5
35	16035	9	3079	16.5	22.3	16	432.0	6.0
40	16040	9	4359	19	25.9	16	512.0	6.0
45	16045	9	4968	19	27	16	584.0	6.5
50	16050	7	6190	19	27.1	16	736.0	7.0

20 Kip								
Feet	Part No.	Full Truck Qty. [2 Pcs.]	Stand. Weight (Lbs.)	Tip Dia. (In.)	Base Dia. (In.)	Allow. Tip Load (Kips)	Ground Line Capacity (Kip-Ft.)	Stand. Embed Depth (Ft.)
30	20030	9	2983	19	24.6	20	450.0	5.5
35	20035	9	3343	19	24.9	20	540.0	6.0
40	20040	9	4798	19	25.9	20	640.0	6.0
45	20045	8	5528	19	27	20	730.0	6.5
50	20050	6	6864	19	27.1	20	820.0	7.0



# MADE IN THE USA

★ IN PROVO, UTAH AND COSHOCTON, OHIO.



# RECOMMENDED ACCESSORIES AND TOOLS

## 1 Drill Bits



### Milwaukee Tool Part Nos.

- ▶ 3/8" Quick Change Arbor .....49-57-0035
- ▶ 11/16" Hole Saw Cutter..... 49-57-8201
- ▶ 13/16" Hole Saw Cutter .....49-57-8205
- ▶ Pilot Bit (replacement) .....49-57-0038  
*(Other sizes available.)*



- ▶ Unitec 13/16" Hole Saw Cutter..... 1-1-126  
*(Used for double-walled holes. Other sizes available.)*



- ▶ 15/16" x 5" HSS Straight Shank Spiral Flute Reamer - Fastenal Part No. 3370520  
*(Used to increased hole size. Other sizes available.)*



- ▶ Dormer E651 High-Speed Steel Combined Drill and Tap - Dormer Part No. E6511/2

## 4 Jacking Kit



## 2 Hole Plugs



- ▶ Hole Plugs ..... PLP-0750B (Black)  
PLP-0750G (Gray)

## 3 Pole Steps



- ▶ Pole Step with Fall Arrest Loop..... VAF 1002



- ▶ Jacking Kits Available for Purchase from McWane Poles
- ▶ Instructions for assembly are available at [mcwanepoles.com/resources](http://mcwanepoles.com/resources).

# POLES TESTING INFORMATION



▶ McWane Poles experienced no damage or loss of strength when tested by the Western Fire Center Inc. to a proposed Standard for fire resistance of wood poles.

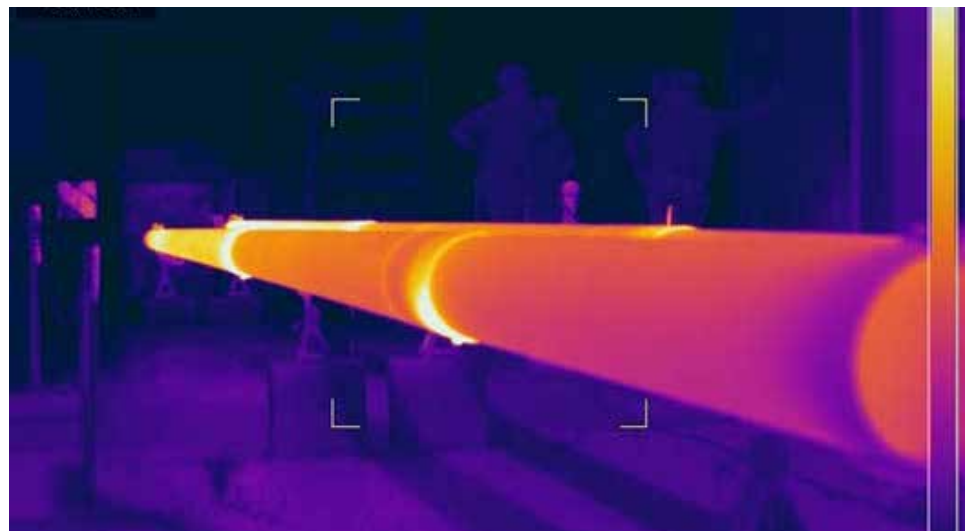


▶ **Properties of Ductile Iron**

Yield Strength	42,000 psi
Ultimate Strength	60,000 psi
Modulus of Elasticity	24,000 ksi
Minimum Elongation	10 %

▶ Ductile iron poles are designed to withstand 142% of class load before ultimate failure.

▶ AEP Dolan Lab's conductivity testing on a 45' pole resulted in approximately 2,000 micro-ohms impedance - equivalent to the resistance of a 4/0 copper ground.



**Tip Load, Minimum Capacity, Kips Applied 2 Feet below Pole Tip**

LENGTH	CLASS 3	CLASS 2	CLASS 1	H1	H2	H3	H4	H5	H6	H7	H8	H9
ALL	1.95	2.41	2.93	3.51	4.16	4.88	5.66	6.50	7.41	8.39	9.43	10.53

**Bending Moment, Minimum Capacity, Kip-Feet at Ground Line**

LENGTH	CLASS 3	CLASS 2	CLASS 1	H1	H2	H3	H4	H5	H6	H7	H8	H9
30	43.9	54.1	65.8	79.0	93.6	109.7	127.2	146.3	166.7	188.7	212.1	236.9
35	52.7	64.9	79.0	94.8	112.3	131.6	152.7	175.5	200.1	226.4	254.5	284.3
40	62.4	77.0	93.6	112.3	133.1	156.0	181.0	208.0	237.1	268.3	301.6	337.0
45	71.2	87.8	106.8	128.1	151.8	177.9	206.4	237.3	270.5	306.1	344.0	384.3
50	80.0	98.6	119.9	143.9	170.6	199.9	231.9	266.5	303.8	343.8	386.4	431.7
55	88.7	109.4	133.1	159.7	189.3	221.8	257.3	295.8	337.2	381.5	428.8	479.1
60	97.5	120.3	146.3	175.5	208.0	243.8	282.8	325.0	370.5	419.3	471.3	526.5
65	106.3	131.1	159.4	191.3	226.7	265.7	308.2	354.3	403.8	457.0	513.7	573.9
70	115.1	141.9	172.6	207.1	245.4	287.6	333.6	383.5	437.2	494.7	556.1	*
75	123.8	152.7	185.7	222.9	264.2	309.6	359.1	412.8	470.5	532.4	598.5	*
80	132.6	163.5	198.9	238.7	282.9	331.5	384.5	442.0	503.9	570.2	640.9	*
85	*	174.4	212.1	254.5	301.6	353.4	410.0	471.3	*	*	*	*
90	*	185.2	225.2	270.3	320.3	375.4	435.4	500.5	*	*	*	*
95	*	196.0	238.4	286.1	339.0	397.3	460.9	529.8	*	*	*	*
100	*	*	*	301.9	357.8	419.7	*	*	*	*	*	*

