



Utility/Distribution

CONCRETE POLES

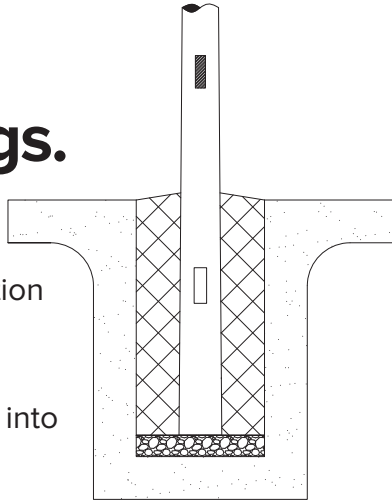


UTILITY STRUCTURES INC.

10 Benefits of USI Vibra-spun™ Utility/Distribution Concrete Poles

1. Cost savings.

Low foundation costs due to direct embedment into the ground.



2. Durable.

No decrease in concrete strength over life time.

3. Curb appeal.

The hollow raceway for internal routing of electrical cables.



4. Superior to both wood and steel.



Resistant to insects, fire, woodpeckers, rot and corrosion.

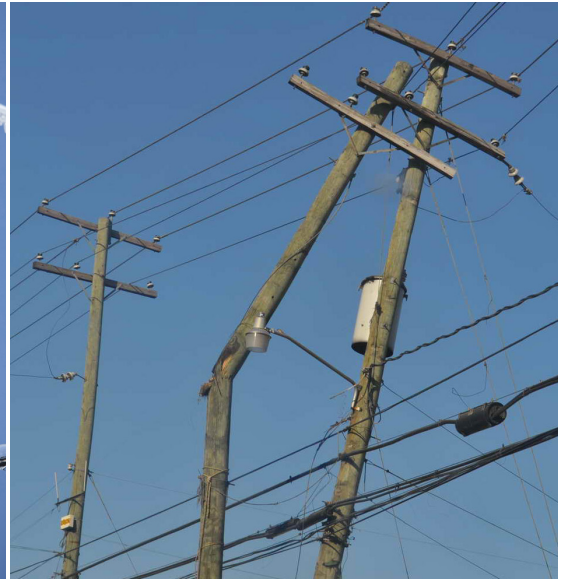
5. Self supporting.

No need for guy wires and minimizes footprint.



6. Reliable.

Concrete poles provide reliability in extreme weather events.



7. Environmentally friendly and maintenance-free.

Concrete is recyclable and direct burial is chemical free.

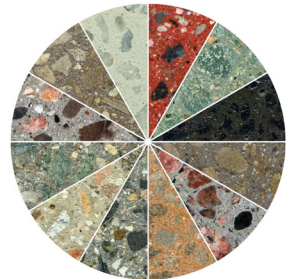
8. Connect quickly.

Prefabricated holes, inserts and couplings help you hit the ground running.



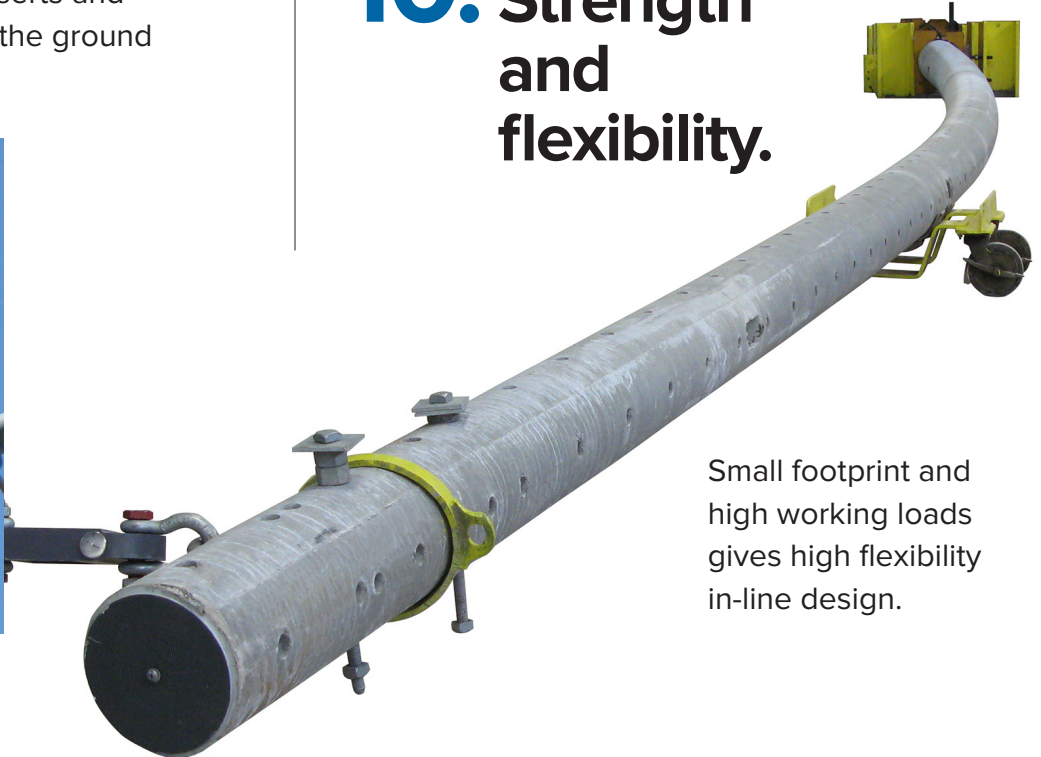
9. More choices.

Choose from a wide variety of colours, sizes and strengths manufactured to your exacting specifications.





10. Strength and flexibility.

Small footprint and high working loads gives high flexibility in-line design.



The Details

The USI Utility/Distribution Concrete Pole

<p>TYPICAL POLE</p>  <p>HAMPTON SERIES Round Tapered Concrete Pole</p>	<p>Overall Length 30' - 80'</p> <p>Above Grade Height 25' - 70'</p> <p>(Other lengths are available upon request)</p>	 <p>Round Symmetrical Cross Section</p>
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PHYSICAL DETAILS

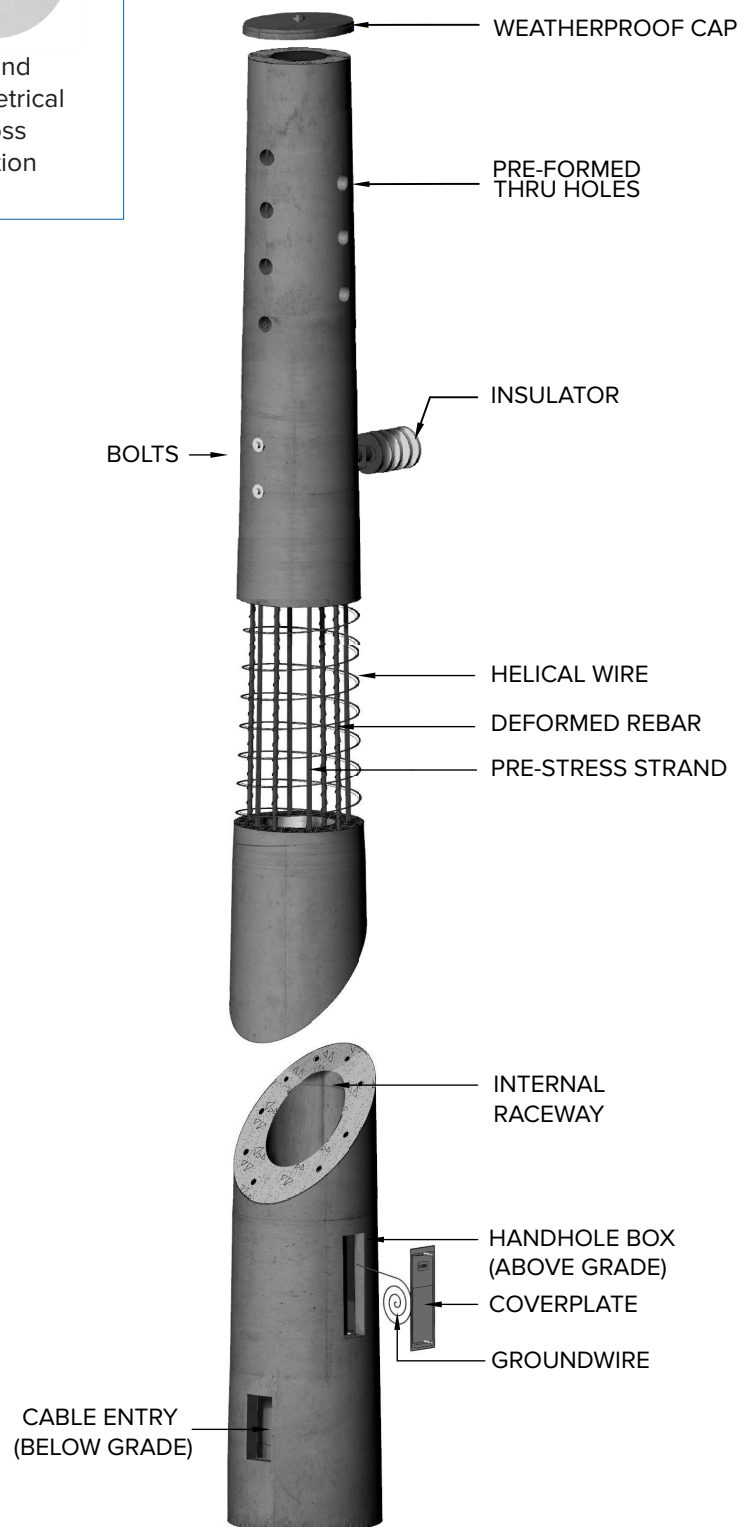
- Prestressed Reinforced, Spun Concrete Pole
- Hampton series pole is a typical standard
- Round symmetrical cross section
- Standard taper of 15mm/metre (0.18"/foot)
- Standard Plain Grey Colour, but other colours are available upon request
- Standard mold finish, but etched decor finishes are available upon request
- Available in lengths from: 30' to 80' overall (25' to 70' above grade)

STANDARD FEATURES

- Openings - All through holes for arms, fixtures, and accessories are available, refer to the technical information section
- Above grade Handhole - 3.5" x 10.5" standard handhole box is cast into pole at 36" above grade. Box and coverplate are both high density ZA12 Zinc Alloy material
- Below Grade Handhole - 3.5" x 10.5" cable entry handhole, 18" below grade
- Electrical ground will be supplied with a #6 stranded copper wire
- Zinc (non-corrosive) inserts in 1/4", 3/8", 1/2", 5/8" or 3/4" are available
- CSA Identification name plate – manufacture date, height, class and Job #

OPTIONS

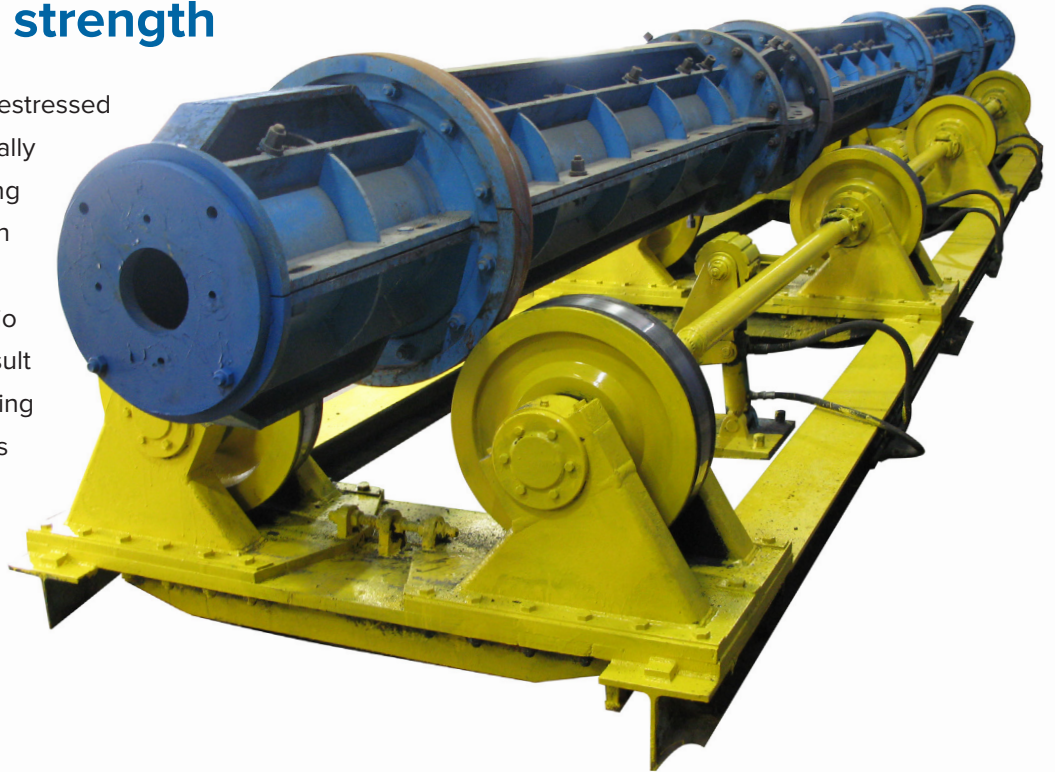
- Exterior Silane Sealer
- Admixture Corrosion Protection
- Wire Entry Box



Manufactured to surpass industry specifications

USI Vibra-spun™ concrete poles provide superior strength

Unlike conventional cast poles, prestressed spun concrete poles are centrifugally cast. This process involves spinning the poles at a very high rpm, which produces poles with the highest density and strength to weight ratio of any concrete available. As a result they are more durable, longer lasting and resistant to freeze/thaw cycles and chemical agents.



Installation

Direct Embedment – Simple and Cost Effective!

The most common method and biggest advantage for installing a concrete pole is by direct embedment. The pole is placed into an augured hole lined with gravel then back filled with native soils, stone dust or cement – depending on the soil conditions.

Advantages of Direct Embedment

- ✓ **Cost savings**
Eliminates the need for a costly anchor pole base footing.
- ✓ **Time savings**
Faster installation, allowing more poles to be installed in less time.
- ✓ **Convenient**
No reliance on weather, form work, or pouring schedules.
- ✓ **Appearance**
No exposed base plates or anchors bolts.
- ✓ **Strength**
The pole and footing are continuous, forming a stronger structure.
- ✓ **Environmental impact**
Does not contaminate the soil, unlike direct buried wood poles which contain chemicals treatments.
- ✓ **Landscaping**
The surrounding ground (grass, concrete, asphalt, etc.) can be finished right up to the edge of the pole.
- ✓ **Maintenance free**
Can be placed into the ground without the fear of rust or rot.



Applications

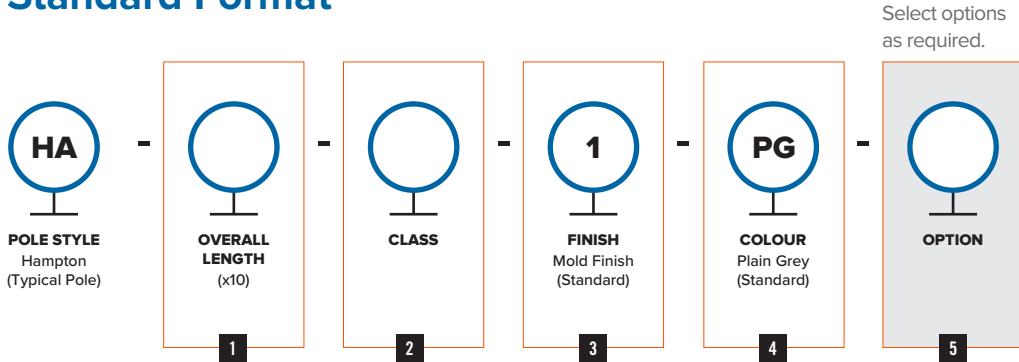
Joint Use • In-line
Dead End • Angle



Specifying instructions

Follow steps 1 to 5 to successfully obtain a quote or order your Utility/Distribution pole.

Standard Format



TYPICAL POLE



HAMPTON SERIES

Round Tapered
Concrete Pole

STANDARD FINISH



**MOLD
FINISH**

STANDARD COLOUR



Plain Grey

1 Select **OVERALL LENGTH**

30' - 80'

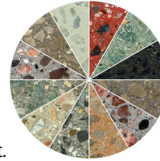
2 Select **CLASS (STRENGTH)**

The Hampton Utility/Distribution concrete pole is available in 12 different strength classifications.

CLASS		MINIMUM ULTIMATE TRANSVERSE LOAD	
		(LBS)	(KN)
LIGHT DUTY HEAVY DUTY	C	1200	5.3
	D	1500	6.7
	E	1900	8.5
	F	2400	10.7
	G	3000	13.3
	H	3700	16.5
	J	4500	20.0
	K	5400	24.0
	L	6400	28.5
	M	7500	33.4
	N	8700	38.7
	O	10000	44.5

4 Select **COLOUR**

The Hampton Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.



CODE	DESCRIPTION
AR	Autumn Red
AJ	Aztec Jade
BE	Black Eclipse
DB	Dark Bronze
DR	Desert Rose
DS	Desert Sand
ML	Midnight Lace
NG	Natural Grey
OJ	Oriental Jade
SP	Salt & Pepper
SB	Seluki Bronze
VW	Venetian White

5 Select **OPTIONS**

The Hampton Utility/Distribution concrete pole is available with 3 different options.

CODE	DESCRIPTION
P	Interior Corrosion Protection
W	Wire Entry Box
X	Exterior Silane Sealer

3 Select **SURFACE FINISH**

The Hampton Utility/Distribution concrete pole is available in 3 types of surface finishes.

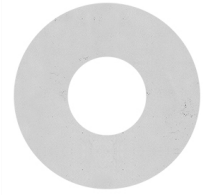
CODE	DESCRIPTION
1	Mold finish (standard)
N/A	Polished finish
3	Etched finish
4	Exposed finish



Plain Grey (PG) mold finish (1) is standard for all our poles.

CODE	DESCRIPTION
PG	Plain Grey (Standard)

30' | 35' | 40' | 45' OVERALL LENGTH



! The poles outlined in this chart represent a sampling only. Other lengths and strengths (classes) are available upon request.

30' OVERALL LENGTH | 25' ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)			
OVERALL LENGTH (FT.)	POLE HEIGHT ABOVE GRADE (FT.)	DIRECT BURIAL DEPTH (FT.)	POLE TIP DIMENSION (IN.)	POLE BUTT DIMENSION (IN.)	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)			
HA-300-C	30	25	5	6 1/2	11 7/8	1942	C	1200	5	1235
HA-300-D	30	25	5	6 1/2	11 7/8	1950	D	1500	4	1560
HA-300-E	30	25	5	6 1/2	11 7/8	1967	E	1900	3	1950
HA-300-F	30	25	5	6 1/2	11 7/8	1992	F	2400	2	2405

35' OVERALL LENGTH | 29'6" ABOVE GRADE

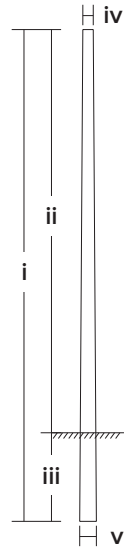
POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)			
OVERALL LENGTH (FT.)	POLE HEIGHT ABOVE GRADE (FT.)	DIRECT BURIAL DEPTH (FT.)	POLE TIP DIMENSION (IN.)	POLE BUTT DIMENSION (IN.)	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)			
HA-350-C	35	29.5	5 1/2	6 1/2	12 7/8	2609	C	1200	5	1235
HA-350-D	35	29.5	5 1/2	6 1/2	12 7/8	2624	D	1500	4	1560
HA-350-E	35	29.5	5 1/2	6 1/2	12 7/8	2634	E	1900	3	1950
HA-350-F	35	29.5	5 1/2	6 1/2	12 7/8	2659	F	2400	2	2405

40' OVERALL LENGTH | 34' ABOVE GRADE

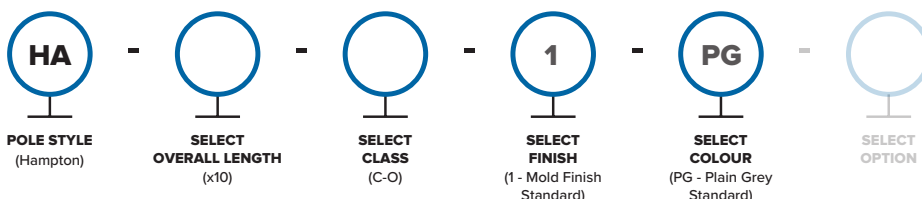
POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)			
OVERALL LENGTH (FT.)	POLE HEIGHT ABOVE GRADE (FT.)	DIRECT BURIAL DEPTH (FT.)	POLE TIP DIMENSION (IN.)	POLE BUTT DIMENSION (IN.)	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)			
HA-400-C	40	34	6	6 1/2	13 7/8	3361	C	1200	5	1235
HA-400-D	40	34	6	6 1/2	13 7/8	3376	D	1500	4	1560
HA-400-E	40	34	6	6 1/2	13 7/8	3386	E	1900	3	1950
HA-400-F	40	34	6	6 1/2	13 7/8	3411	F	2400	2	2405

45' OVERALL LENGTH | 38'6" ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)			
OVERALL LENGTH (FT.)	POLE HEIGHT ABOVE GRADE (FT.)	DIRECT BURIAL DEPTH (FT.)	POLE TIP DIMENSION (IN.)	POLE BUTT DIMENSION (IN.)	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)			
HA-450-D	45	38.5	6 1/2	6 1/2	14 5/8	4141	D	1500	4	1560
HA-450-E	45	38.5	6 1/2	6 1/2	14 5/8	4151	E	1900	3	1950
HA-450-F	45	38.5	6 1/2	6 1/2	14 5/8	4176	F	2400	2	2405
HA-450-G	45	38.5	6 1/2	8	16 1/8	5385	G	3000	1	2925



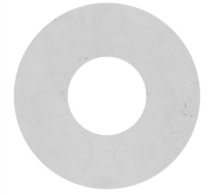
UTILITY/DISTRIBUTION POLE CODE – STANDARD FORMAT



NOTES

The Hampton (HA) series in a Plain Grey (PG), mold finish (1) is standard for all utility/distribution poles. Different colours and finishes are available upon request.

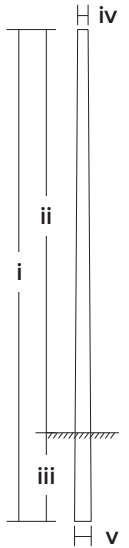
50' | 55' | 60' | 65' OVERALL LENGTH



! The poles outlined in this chart represent a sampling only. Other lengths and strengths (classes) are available upon request.

50' OVERALL LENGTH | 43' ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)
HA-500-D	50	43	7	6 1/2	15 1/2	5071	D	1500	4	1560
HA-500-E	50	43	7	6 1/2	15 1/2	5096	E	1900	3	1950
HA-500-F	50	43	7	6 1/2	15 1/2	5121	F	2400	2	2405
HA-500-G	50	43	7	8	17	6332	G	3000	1	2925
HA-500-H	50	43	7	8	17	6632	H	3700	H1	3510



55' OVERALL LENGTH | 47'6" ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)
HA-550-D	55	47.5	7 1/2	6 1/2	16 3/8	6123	D	1500	4	1560
HA-550-E	55	47.5	7 1/2	6 1/2	16 3/8	6148	E	1900	3	1950
HA-550-F	55	47.5	7 1/2	6 1/2	16 3/8	6173	F	2400	2	2405
HA-550-G	55	47.5	7 1/2	8	17 7/8	7736	G	3000	1	2925
HA-550-H	55	47.5	7 1/2	8	17 7/8	7786	H	3700	H1	3510

60' OVERALL LENGTH | 52' ABOVE GRADE

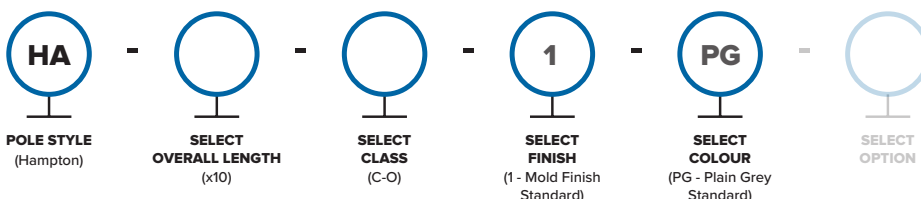
POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)
HA-600-F	60	52	8	6 1/2	17 3/8	7385	F	2400	2	2405
HA-600-G	60	52	8	8	18 7/8	9177	G	3000	1	2925
HA-600-H	60	52	8	8	18 7/8	9227	H	3700	H1	3510
HA-600-J	60	52	8	8	18 7/8	9377	J	4500	H2	4160
HA-600-K	60	52	8	9 1/2	18 7/8*	10299	K	5400	H3	4875
HA-600-L	60	52	8	10	19 3/8*	10710	L	6400	H4	5655

65' OVERALL LENGTH | 56'6" ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	NOMINAL POLE WEIGHT (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)
HA-650-F	65	56.5	8 1/2	6 1/2	18 3/16	8694	F	2400	2	2405
HA-650-G	65	56.5	8 1/2	8	19 3/4	10671	G	3000	1	2925
HA-650-H	65	56.5	8 1/2	8	19 3/4	10721	H	3700	H1	3510
HA-650-J	65	56.5	8 1/2	8	19 3/4	10871	J	4500	H2	4160
HA-650-K	65	56.5	8 1/2	9 1/2	19 5/8*	11559	K	5400	H3	4875
HA-650-L	65	56.5	8 1/2	10	20 1/8*	12316	L	6400	H4	5655

* Butt dimensions indicated with (*) have a taper of 13mm/m. Standard taper on all others is 15mm/m.

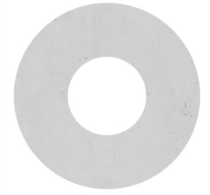
UTILITY/DISTRIBUTION POLE CODE – STANDARD FORMAT



NOTES

The Hampton (HA) series in a Plain Grey (PG), mold finish (1) is standard for all utility/distribution poles. Different colours and finishes are available upon request.

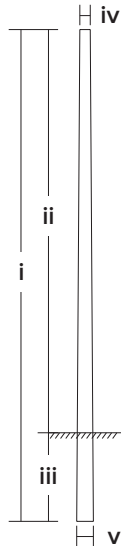
70' | 75' | 80' OVERALL LENGTH



! The poles outlined in this chart represent a sampling only. Other lengths and strengths (classes) are available upon request.

70' OVERALL LENGTH | 61' ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	NOMINAL POLE WEIGHT (LBS.)
HA-700-F	70	61	9	6 1/2	19 3/16	9328	F	2400	2	2405
HA-700-G	70	61	9	8	18 7/8*	10534	G	3000	1	2925
HA-700-H	70	61	9	8	18 7/8*	10584	H	3700	H1	3510
HA-700-J	70	61	9	8	18 7/8*	10734	J	4500	H2	4160
HA-700-K	70	61	9	12	22 7/8*	17299	K	5400	H3	4875
HA-700-L	70	61	9	12	22 7/8*	17349	L	6400	H4	5655



75' OVERALL LENGTH | 65'6" ABOVE GRADE

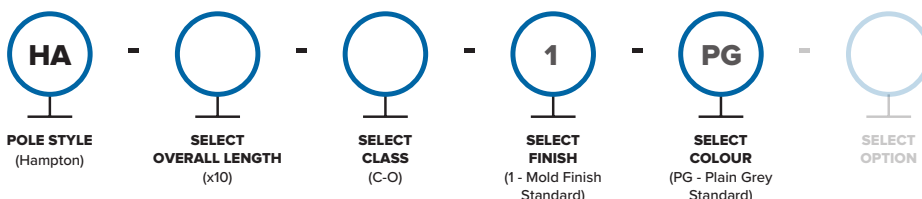
POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	NOMINAL POLE WEIGHT (LBS.)
HA-750-G	75	65.5	9 1/2	8	19 3/4*	12290	G	3000	1	2925
HA-750-H	75	65.5	9 1/2	8	19 3/4*	12340	H	3700	H1	3510
HA-750-J	75	65.5	9 1/2	8	19 3/4*	12490	J	4500	H2	4160
HA-750-K	75	65.5	9 1/2	12	23 3/4*	19486	K	5400	H3	4875
HA-750-L	75	65.5	9 1/2	12	23 3/4*	19536	L	6400	H4	5655

80' OVERALL LENGTH | 70' ABOVE GRADE

POLE CATALOGUE NUMBER						WOOD POLE EQUIVALENT				
	i	ii	iii	iv	v	APPROX. CLASS	APPROX. MIN. ULTIMATE TRANSVERSE LOAD (LBS.)	CLASS	MINIMUM ULTIMATE TRANSVERSE LOAD (LBS.)	NOMINAL POLE WEIGHT (LBS.)
HA-800-G	80	70	10	8	20*	13459	G	3000	1	2925
HA-800-H	80	70	10	8	20*	13509	H	3700	H1	3510
HA-800-J	80	70	10	8	20*	13659	J	4500	H2	4160
HA-800-K	80	70	10	12	24 1/2*	21841	K	5400	H3	4875
HA-800-L	80	70	10	12	24 1/2*	21891	L	6400	H4	5655

* Butt dimensions indicated with (*) have a taper of 13mm/m. Standard taper on all others is 15mm/m.

UTILITY/DISTRIBUTION POLE CODE – STANDARD FORMAT



NOTES

The Hampton (HA) series in a Plain Grey (PG), mold finish (1) is standard for all utility/distribution poles. Different colours and finishes are available upon request.

Utility Structures Inc.

Utility Structures manufactures a comprehensive line of concrete poles and related products covering the entire spectrum of outdoor lighting and hydro distribution. We engineer every single one of our products to meet exacting performance standards – and they're built to last. We manufacturer the only Vibra-spun™ pole in the industry. This trademark process involves introducing frequency vibration into the spinning process. This results in a denser, more durable pole, with a finish that is unsurpassed in the industry.



UTILITY STRUCTURES INC.

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