


UTILITY POLE COMPARISON CHART

	 StressCrete Pre-Stressed Spun Concrete	Wood	Steel	Static Cast Concrete	Ductile Iron	Composite	Laminated Wood
Engineering and Strength	Engineered product designed to customer's exact requirements including number and placement of through holes. Easy to field drill if necessary.	Not an engineered product which can be field drilled	Engineered product which is difficult to field drill and must be protected	Engineered product which can be field drilled	Engineered product which is difficult to field drill and must be protected	Engineered product which can be field drilled and must be protected	Engineered product which is difficult to field drill
	<u>Guaranteed</u> minimum strength that remains constant throughout its entire service life (lifetime warranty)	Average strength (not guaranteed) that diminishes over time	Strength is dependant on correctly installed slip joints and maintenance of corrosion	Guaranteed minimum strength	Strength is dependant on correctly installed slip joints and maintenance of corrosion	Strength is dependant on correctly installed slip joints and maintenance	Guaranteed minimum strength with bi-directional loading
	Highly reliable assisting with storm hardening initiatives	Low reliability during extreme weather events	Reliable	Non-round shape reduces carrying capacity in extreme winds	Long term reliability unknown	Long term reliability unknown	Reliable
Durability and Maintenance	Zero maintenance	Periodic preservative maintenance may be required every 5-10 years to prevent rot and decay	Periodic maintenance to ensure surface integrity is not compromised	Low maintenance	Unknown	Coating must be maintained to protect from UV	Periodic preservative maintenance may be required every 5-10 years to prevent rot and decay
	Not fatigue sensitive	Not fatigue sensitive	All welded and splice joints are fatigue sensitive	Not fatigue sensitive	All splice joints are fatigue sensitive	Unknown	Not fatigue sensitive
	Fire resistant and does not rot or rust. Not susceptible to freeze-thaw effects.	Susceptible to fire, rot and woodpeckers, requiring periodic inspections to determine structural integrity	Most susceptible to degradation at the ground line and below grade	Susceptible to freeze-thaw effects, rust and spalling	Most susceptible to degradation at the ground line and below grade	Damage such as scrapes during handling must be repaired to prevent deterioration	Susceptible to fire, rot and woodpeckers requiring periodic inspections to determine structural integrity
Environmental	Contains components that are natural or can be reused or recycled	Treated with harsh preservatives making disposal difficult	Can be reused or recycled	Can be reused or recycled	Can be reused or recycled	Unknown	Treated with harsh preservatives making disposal difficult
Mounting Holes	Pre-cast mounting holes which eliminates the need for field modifications	Typically require field drilling and modification to install	Pre-drilled mounting holes	Typically come with pre-cast mounting holes	Pre-drilled mounting holes	Pre-drilled mounting holes	Pre-drilled mounting holes
Construction	Centrifugally cast, pre-stressed reinforced concrete with round hollow core; one piece for easy installation	Naturally grown product; one piece	Multiple pieces that must be jacked together requiring longer installation	Square cross section with increased wind loading and high mass; one piece	Press fit joints that are pinned together or two piece pole options	One piece or multiple pieces that must be jacked together requiring longer installation	One piece or spliced sections
Installation Type	Direct buried which is fast and very cost effective	Direct buried	Baseplate installation which is costly to install. Direct embedment which requires additional coating or grounding sleeve to prevent corrosion.	Direct buried	Direct embedment which requires additional coating or grounding sleeve to prevent corrosion	Direct buried	Direct buried
Typical Lifespan and Cost	75+ years, low lifetime cost	25-40 years, maintenance and inspection costs	40-60 years, maintenance and inspection costs	40-60 years, depending on conditions	Lifespan unknown, maintenance and inspection costs	Lifespan unknown, maintenance and inspection costs	Lifespan unknown, maintenance and inspection costs
Warranty	Lifetime warranty	Varies, if available	Varies, if available	Varies, if available	Unknown	Varies, if available	Varies, if available
Industry Experience	Over 60 years	Varies	Varies	Varies	Since 2008	Varies	Varies