

# Comparison of

## Steel Pole Finishes

### Powder Coating Finish:

All exterior surfaces are coated with TGIC (Triglycidyl Isocyanurate) Polyester Powder to an average dry film thickness of 4.0 mils (0.004”).

### Galvanized Steel Pole Finish – Zinc Coating:

The product is hot-dip galvanized to the requirements of either the current revision of ASTM A123 or the current revision of ASTM A153.

### Paint over Galvanized Steel Pole Finish:

The product is hot-dip galvanized to the requirements of either the current revision of ASTM A123 (Specification for Zinc Coatings on Iron and Steel Products) or the current revision of ASTM A153. Then coated with TGIC (Triglycidyl Isocyanurate) Polyester Powder to an average dry film thickness of 4.0 mils (0.004”).

*Scoring: 1=very bad; 5=very good*

	Powder Coating	Score		Score	Powder Coating over Galvanized	Score
<b>Abrasion</b>	Good	3	Excellent abrasion resistance	5	Good	3
<b>Chemical Resistance</b>	Good	3	Moderate	4	Combination coating provides the best chemical resistance	5
<b>Color &amp; Gloss</b>	Performance varies by location	3	Weathers over time	N/A	Performance varies by location	3
<b>Durability</b>	Good	3	Excellent Durability	5	Combination of reclamation, closed loop, recycled	5
<b>Environment</b>	Reclaimed material	5	100% closed loop and recycled	5	Combination of reclamation, closed loop, recycled	5
<b>Salt Water Conditions</b>	High-ambient salt environments are damaging to basic paint finishes	2	Galvanized surfaces are subject to damage in high-ambient salt environments	2	Combination of these two processes extend the service life	3
<b>Roadway Deicing Chemicals</b>	Deicing chemicals have adverse effects	2	Galvanized surfaces are subject to damage by deicing chemicals	2	The combination of these two processes extend the service life	3

	on basic paint finishes					
<b>Anti-Graffiti</b>	Can be cleaned with non-abrasive methods, however the performance of the finish (color and gloss) will likely be affected	3	Galvanized surfaces can be cleaned with non-abrasive methods.	4	Can be cleaned with non-abrasive methods, however the performance of the finish (color and gloss) will likely be affected	3
<b>Cost</b>	Lowest cost option	5	Moderate cost option	4	Higher cost option	3
<b>Repair</b>	Effectively repaired in field	4	Reference ASTM A780 for repair of hot-dip galvanized	4	Effectively repaired in field	4
<b>TOTAL</b>		33		35		37