



*Wolmanized® CCA-ET® Brown poles in the foreground are shown with Wolmanized® CCA poles (rear) and untreated poles (left).*



# WOLMANIZED® ET® BROWN P O L E S

*Combining the longevity and cleanliness of CCA poles with the climbability of oil-impregnated poles and traditional brown coloring*



Following treatment with CCA, the outer layer of ET® poles is treated with a refined hydrocarbon oil emulsion. This additive serves as a lubricant, making the pole easier to climb and to work on, without affecting the preservative properties of the CCA treatment.

The result is a number of practical features.

**Long life.** Wolmanized® CCA-treated poles are backed by a 50-year warranty against damage from termites and fungal decay. For details, see [wolmanizedwoodHD.com/poles](http://wolmanizedwoodHD.com/poles).

**Low conductivity.** The low conductivity of dry Wolmanized® poles provides protection against the effects of current leakage and increases the security of line workers.

**Fixed preservative.** Because of CCA fixation in the wood, there is virtually no migration. As a result, remedial ground-line treatment is not required for aging poles and rotation of poles in storage is unnecessary.

**Cleanliness.** These poles are clean to the touch and non-staining to utility workers and to people who might come in contact with them.

**Safety.** An independent human health risk assessment — on children who play near CCA poles and workers with exposure to these poles — found less intake of inorganic arsenic from poles than from normal intake of food and drinking tap water.

**Climbability.** Excellent climbing characteristics have been confirmed by numerous field-climbing trials on both new and aged poles.

**Workability.** They are easier to saw, drill and nail into than regular CCA poles because the emulsion additive acts as a lubricating oil.

**Verification.** Retention of oil can be readily verified by inspection agencies — a difficult task with other additives.

**Fire resistance.** The addition of oil emulsion can lessen the effects of fire. A study by representatives of The Australian National University concluded that “CCA-oil treated posts were less likely than CCA-C or CCA-wax treated posts to be destroyed after two hours of smouldering.”



### The climbability lasts

	9-Year Trial 1997	14-Year Trial A 2002	14-Year Trial B 2002	20-Year Trial 2008
<b>CCA</b>	4.8	5.5	4.6	5.6
<b>Penta</b>	7.2	7.0	—	7.6
<b>CCA ET®</b>	7.6	7.3	6.8	7.6

Numbers shown above represent the mean scores for climbability, as given by linemen following climbing trials. Scores are based on a 1-10 scale, with 10 being easiest to climb. All poles were installed in 1988.

**WOLMANIZED®**  
HEAVY DUTY WOOD