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

**Evaluation of an ET® Brown Pole**

**Conclusion of first evaluation after installation in 2012:**

While Southern Pine CCA ET Brown proved to be the highest rated poles in this group; ET Brown noticeably improved the climbing characteristics of ACZA treated Douglas fir poles. These poles will continue to be evaluated on a minimum 5-year basis with the results compared to those of the previously installed and evaluated poles.

### One-Year Evaluation (Category Average)

<table>
<thead>
<tr>
<th>Species</th>
<th>Treatment</th>
<th>Gaff Penetration</th>
<th>Insertion Force</th>
<th>Withdrawal Force</th>
<th>Confidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas Fir</td>
<td>ACZA</td>
<td>5.0</td>
<td>4.9</td>
<td>5.3</td>
<td>5.8</td>
</tr>
<tr>
<td>Douglas Fir</td>
<td>ACZA ET® Brown</td>
<td>5.6</td>
<td>5.9</td>
<td>6.0</td>
<td>6.5</td>
</tr>
<tr>
<td>Southern Pine</td>
<td>CCA ET® Brown</td>
<td>6.0</td>
<td>6.2</td>
<td>6.9</td>
<td>6.7</td>
</tr>
</tbody>
</table>

Numbers shown above represent the mean scores for climbability awarded by linemen at the conclusion of climbing trials. Scores are based on a 1-10 scale, with 10 being the highest rating.
Following treatment with ACZA, the outer layer of ET® poles is treated with a refined hydrocarbon oil emulsion. This emulsion serves as a lubricant, making the pole easier to climb and to work on, without affecting the preservative properties of the ACZA treatment. The result is a number of practical features.

**Warranty.** Wolmanized® ACZA-treated poles are backed by a 50-year warranty against damage from termites and fungal decay. For details, see 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 ACZA fixation in the wood, there is virtually no migration. As a result, remedial groundline treatment is not required for aging poles and rotation of poles in storage is unnecessary.

**Cleanliness.** These poles are non-oily, non-staining, and have no fumes for utility workers and to people who might come in contact with them.

**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 ACZA 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.

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**Life Cycle Assessment**

An independent life cycle assessment confirmed that ACZA utility poles use less energy and resources, have a lower environmental impact, decrease greenhouse gas levels, and offset fossil fuel use, when compared to concrete, steel and fiber-reinforced composite utility poles.

For more information see the report at www.Chemonite.com.

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Contact Us.
www.Chemonite.com