

# Bamboo Treatment

## Base 9-Step Process



### STEP 1

#### Received Raw Poles (Quality Control)

Make sure that the bamboo(s) do not directly touch the ground. Process the bamboo poles as early as possible. Weekly delivery will be based on washing tubs capacity.



### STEP 2

#### Pre-cleaning

Wash and scrub the bamboo poles prior to soaking to remove dirt and lichen that can clog the washing tub.



### STEP 3

#### Node Punching

Drill the bamboo nodes (both sides) for water and treatment chemicals to pass through. Use 12mm Ø drill bit for punching of nodes.



### STEP 4

#### Washing (Removal of starch)

Soak the bamboo poles in moving water (washing tubs) for 3 days in order to remove starch. Before removing from the washtub, the bamboo pole(s) must be scrubbed to remove starch on the exterior of the bamboo.



### STEP 5

#### Drying (Air/Sun Drying)

Drying is the process of removing natural water of bamboo poles. Air drying is longer than sun drying. Air drying is applied if facility has limited drying space.

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### STEP 6

#### Quality Control (Washed and Semi-dried Poles)

Ensure that there are no rejected (i.e. cracked or shrink) washed and semi-dried poles that will undergo treatment, taking into consideration the production cost of chemicals.



### STEP 7

#### Treatment (Soaking in Chemical Solution)

Load washed poles to treatment tank. Make sure poles are totally submerged in chemical solution.



### STEP 8

#### Dripping (Excess Chemical Solution)

Remove the cover and set up the dripping board. Unload the bamboo poles and allow the excess chemical solution to drip back in the treatment tank for 2 to 3 hours.



### STEP 9

#### Racking of Treated Poles (Final Drying)

Organize the treated poles in a rack and in a dry place away from direct sunlight. Check the quality of the treated poles if approved for construction.