



## Pro Plug System Installation Notes

### 1) Required Tools

- a. Deck Straightening Wrench's (2) similar to Bow Wrench. (Wood decking has naturally occurring bow which can be easily removed during installation with a deck straightening tool).
- b. High Speed Corded Drill (Unlike Cordless drills where rpm's may diminish with battery drain, high speed corded drills maintain consistent rpm which results in improved bit performance and service life).
- c. Hole Location Jig similar to the Deck Master System (Drilling Jigs assure consistent aesthetic placement of screws and plugs).
- d. Hammer (Plastic Smooth Face).
- e. Sharp Chisel - 1/2" or wider (If screws are not set properly or debris enters the hole prior to plug installation, plug may sit prominent and require trim. Trim plugs cutting in the direction of the grain using hand pressure only).
- f. Sand Paper (120 grit) (As the Pro Plug Tool For Wood becomes less sharp during use, fuzzing around the edge of the countersink hole may appear which can easily be removed with a light hand sanding).
- g. Small Hand Router w/1/8" radius bit – optional (the use of a small hand router to break the deck board ends improves finished product aesthetics and improves board end to board end transitions).
- h. Pro Plug Tool for Wood (The Pro Plug Tool for Wood will service differently by wood type. The following are estimates only, of holes per tool between tool replacements, actual usage may be impacted by variations in species density, moisture content and installation conditions).
  - h.1 Ipe (350)
  - h.2 Cumaru (350)
  - h.3 Garapa (350)
  - h.4 Cambara (500)
- i. Pro Plug Stainless Steel Screws ( Minimum screw length requirement is typically calculated at 1.5 times the thickness of the deck board being installed).
  - i.1 1x decking (net .75" thickness) – #8x2.5"
  - i.2 5/4x decking (net 1" thickness) - #8x2.5"
- j. #T-20 Star Drive Bits.

- k. Exterior Grade Glue such as Franklin International 1413 Titebond III or Elmers E7310 Carpenters Wood Glue Max (It is important to utilize a good quality water proof glue, any excess of which can be easily wiped off during application).
- l. Pro Plug Glue Applicator (It is important that the applicator ejector ports be kept clean during use and cleaned or replaced between uses).
- m. Pro Plugs (The unique tapered design of Pro Plugs when used as part of the Pro Plug Tool For Wood, screw and Glue Applicator system virtually eliminates the need for post installation plug cutting, grinding, chiseling or sanding).

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### **2) Installation (Step By Step)**

- a. Installation Conditions ( Make sure the weather conditions are dry and that the decking is sufficiently acclimated, clean and free of dirt and debris).
- b. Select and trim deck board to desired length.
- c. End seal deck boards ( see Manufactures recommendations).
- d. Radius Deck Ends - Optional
- e. Lay deck board in desired location.
- f. Use straightening wrenches to assure board is straight and properly located.
- g. Utilize Hole Jig to establish consistent hole locations.
- h. Drill holes with countersinks at desired locations ( make sure any drilling debris is removed from the hole after drilling and countersinking).
- i. Set Screws (make sure screws are well set. Do not over torque as over torque may cause board splitting especially at board ends).
- j. Apply glue using Pro Plug applicator.
- k. Align surface grain of plug with the grain of the deck board.
- l. Apply plug and set with hammer until flush. (Do not delay application of glue and plug after drilling and countersinking. Countersinking exposes wood fiber to potential moisture absorption which could negatively affect the proper fit of plugs).
- m. If plug sits prominent, use sharp chisel to remove excess plug by gently pressing the chisel along the grain of the plug. (This may indicate that debris remains in the hole or that the Pro Plug Tool for Wood has become too dull and should be replaced).
- n. Wipe away any excess glue.
- o. Sand if required.
- p. Touch up finish if required.
- q. Move on to next board.
- r. Finish deck boards if desired. The use of prefinished decking will require application of sealer to plugs after installation. (Follow manufactures recommendations).