

TATA ENTERPRISES, INC.

2177 Harbor Bay Parkway <> Alameda <> CA 94502 <> TEL: (510)865-8888 <> FAX: (510)865-8558
www.tataenterprises.net

Installation Guidelines for Mangaris Diamond (merbau) and Mangaris Red (red balau)

Keep your MANGARIS™ boards clean, dry and out of direct sunlight before finishing and installation.

- Allow the material to acclimate to the temperature and relative humidity before installation (4-7 days).
- Allow adequate ventilation for air circulation and a vapor barrier covering the ground when used for decking 24” and closer to the ground (we recommend a minimum of 12” from the ground with opened air flow)
- To help prevent moisture “wicking”, the ends of the boards should always be sealed with a clear paraffin wax base sealer immediately after cutting and before installation.
- **We recommend finishing MANGARIS™ RED or DIAMOND** with a deep penetrating oil based finish, with ultraviolet inhibitors, on all four sides. A periodic light coat of finish will be required in order to maintain original color.
- MANGARIS™ decking boards are kiln dried; therefore, shrinkage is very limited; however, being a kiln dried imported wood product, MANGARIS™ might absorb moisture and expand slightly. We recommend minimum of 1/4” spacing between each 5-1/2” deck board and 3/16” between each 3-1/2” board as well as a 1/4” “starter” space between the first (or last) board and any solid post or structure.
- To minimize splitting, we recommend pre-drilling pilot holes 3/4” from the edges & ends of the boards. For best results counter sink and screw through the face using a #10 or Bugle Head Stainless Steel screw.
- Hidden fasteners are not typically recommended for use on any hardwood decking products but the use of Tiger Claws TCG clip with TATA’s pre-grooved/stained 5/4x6 Diamond board is an approved installation method. Not approved for 1x6.
- When installing MANGARIS™ wood decking as with many other wood products, we recommend the use of a protective respiratory mask, gloves and eye protection.
- For technical or installation questions, call 1-866-901-DECK, 8AM – 5PM Pacific Time.
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Weathering Process for Mangaris Diamond

Mangaris Diamond (Merbau) is one of the most durable rot resistant wood products in the world today which makes it ideally suited for use in outdoor furniture and decking.

It is an abundance of natural oils (Tannin) in the wood that ensures your outdoor products to look good, last for years and are easy to maintain.

It is this abundance of oils that can cause your wood to bleed when initially exposed to rain or heavy dew. Very similar to what is found in the California Redwoods. The tannin will appear as a dark red liquid and may cause staining to surrounding areas. As the nature of each piece is different you may or may not get bleeding. Although bleeding time is unpredictable in length it generally is completed in a matter of hours if boards are left unfinished. A thorough hose-down of the deck or heavy rainfall will assist in flushing excess tannin away. Pre-finishing will reduce heavy bleeding but may not completely eliminate the process.

The natural oil remaining in the wood acts as a preservative to protect it from splitting, cracking, rotting and infestation. Mangaris Diamond will turn a silvery gray color if left unfinished or you can maintain its natural beauty with periodic maintenance

Caution: when installing on a second story application it is recommended to allow boards to complete bleeding process before finishing and installing to avoid the potential for staining delicate surfaces below

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Mangaris Warranty and Performance Warranty

Mangaris Red:

20 Year Limited Warranty (against rot, decay & damage cause by termites)

Mangaris Diamond:

25 Year Limited Warranty (against rot, decay & damage caused by termites)

First Year Performance Warranty for Diamond only by Tata Enterprises, Inc.(thereafter “Tata”), a California Corporation with an office located at 2177 Harbor Bay Parkway, Alameda, CA.

When the installation guidelines are followed properly by installers (**excluding hidden fastener**), Tata Enterprises, Inc. will guarantee for 12 month after decking installed that MANGARIS™ DIAMOND will perform well as exterior decking with no or limited cupping, twisting, and face checking.

Tata Enterprises, Inc. will replace all the material upon Tata Enterprises, Inc.’s investigation and approval as defect material. (Material only no labor)

Defect boards are:

- 1) Boards cupping more than standard tolerance of 1/8” if installed properly with the above guidelines.
- 2) Boards twisting more than standard tolerance of 1/4” if installed properly with the above guidelines.
- 3) Boards showing face checking more than standard tolerance of 12” per check & tend to split if installed properly with the above guidelines.