



# TATA ENTERPRISES, INC

## RESIDENTIAL INSTALLATION GUIDELINES FOR MANGARIS® DIAMOND

### Storage and Handling:

- Keep your **MANGARIS®** boards clean, dry and out of direct sunlight before installation and finishing.
- Allow the material to acclimate and stabilize to the local climate (4-7 days) prior to installation.
- More time required to acclimate in hot/dry climates. (7 – 14 days)
- To Avoid Metallic Particle Corrosion Contamination, Do Not Cut Metal anywhere near the deck boards during and after installation.

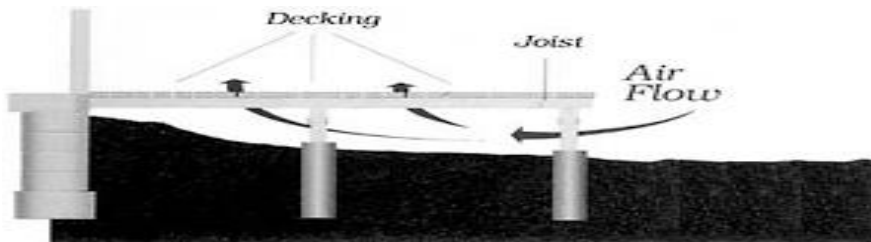
### Allowable Decking spans:

Board Size	Load (On Center Spacing)			
	40psf	60psf	100psf	<b>Recommend</b>
1x4, 1x6	32"	28"	24"	16" on center
5/4x6, 5/4x4	42"	38"	32"	24" on center

**Note: Pls make sure you are complying to local building codes regulation.**

### Ventilation and Air Flow:

- Allow adequate ventilation for proper air flow to reduce cupping potential. (See diagram)



- Minimum recommended ground clearance:
  - a. 5/4x6 and 1x6 Regular Boards are 24" or 18" with vapor barrier and a slope drainage system to avoid standing water.
  - b. 1x4 and 5/4x4 Regular Boards are 18" or 12" with vapor barrier and a slope drainage system to avoid standing water

### Finishing:

- Reduce moisture "wicking". Seal all fresh cuts with Anchor Seal (liquid paraffin wax) available from Lumber Dealer.



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- We recommend finishing **MANGARIS®** with deep penetrating oil based and have ultraviolet inhibitors, **on all four sides.**
- A Periodic cleaning and a light coat of finish will be required in order to maintain the original color of your deck or allow weathering to a silver-grey look. Consult your dealer regarding a finish product prior to re finishing your deck.

## Fasteners and Spacing:

- **MANGARIS®** deck boards are kiln dried. Unlike air dried boards, shrinkage is very limited; however, excessive moisture may cause the boards to expand slightly.
- Recommended spacing is 1/4" for 6" (5 1/2" Net) deck boards and 3/16" for 4" (3 1/2" net) boards. Also allow 1/4" from any structures including foundations or rail post.
- Pre-drill Pilot holes 3/4" from edges and ends and countersink for all screws using a minimum #10 high-quality Stainless-Steel screw. Coated deck screws may be used but could cause staining. Minimum screw penetration into joist of 1 1/2".
- **Tiger Claw's TCG Clips** may be used when installing **Pre-Grooved and Pre-Oiled 5/4x6 Board supplied by Tata Enterprises, Inc, at 24" maximum joist spacing** and a **minimum 24" ground clearance with proper air flow ventilation, vapor barrier and a slope drainage system to avoid standing water. Not Approved for 1x6 Product.** Consult your dealer regarding this hidden system.
- When installing **MANGARIS®** hardwood decking, as with many other wood products, we recommend the use of a protective respiratory mask, gloves and eye protection. Wood dust may cause irritation and allergic effect. If you should have safety concern; please ask your local department of building and safety prior to starting your project.
- For technical or installation questions, call 1-866-901-DECK, 8AM – 5PM Pacific Time.

### ***"Installation Alert"***

MANGARIS™ DIAMOND (MERBAU) is one of the most durable rot resistant wood products in the world today due in part to a heavy amount of the natural chemical (Tannins) found in all wood species.

Even though it is these Tannins that contribute to a Class A Flame Spread, Rot resistance and termite resistance they may also bleed out when exposed to excessive moisture. For that reason, please use Caution when installing: Not recommended for second story applications or where there is the potential to stain surrounding areas, such as patio furniture or light-colored exterior walls. If used in this application please make sure to thoroughly condition boards prior to installation by exposing to moisture until all signs of the red tannins have dissipated. Contact TATA Enterprises for additional information. (866-901-3325)



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## Disclaimer

**MANGARIS®** Hardwood Decking is carefully manufactured and inspected to ensure the finest quality. However, these are natural wood products and are subject to variant in color, density, grain and performance. Natural wood products are also subject to dimensional change due to expanding and contraction caused by the changing on moisture and humidity in the environment surrounding the wood. Therefore, shrinkage, swelling and surface checking are very common occurrences.



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## **MANGARIS® DIAMOND Warranty and Performance Warranty**

### **25 Year Limited Warranty.**

This warranty is to cover Deck Boards from Structural Damage that caused by rot, fungal decay & damage caused by termites for at least 25 years when purchase from an official MANGARIS® dealer and install the product according to the standard installation guideline. This warranty doesn't include supporting framing structure and installation labor.

**First Year Performance Warranty for Diamond only by Tata Enterprises, Inc.** a California Corporation with an office located at 2603 Camino Ramon Suite# 200, San Ramon, CA 94583.

When the installation guidelines are followed properly by installers (**excluding hidden fastener**) , Tata Enterprises, Inc. will guarantee for 12 months after decking installed that **MANGARIS™ DIAMOND** will perform well as an 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 standard installation guidelines.