

# TANGENT™

MARINE DECKING



A COMBINATION OF STRENGTH, DURABILITY  
AND AESTHETICS.





## Marine Decking Performance:

Our marine decking is the proven long-lasting structural solution that provides long-term strength and durability and outperforms traditional marine decking materials.

Our marine decking resists water, mildew, moisture, and chemicals. Impenetrable to marine borers, Tangent marine decking provide a low-maintenance solution that **stands up to whatever nature throws at them.**

## PRODUCT VERSATILITY

- Marine Decking
- Residential Docks
- Boardwalks
- Piers



### DURABLE

Our products will not splinter, crack, chip, peel or rot and are impervious to insects.



### LOW-MAINTENANCE

No painting, staining, or waterproofing required.



### COLOR STABLE

Rich colors stay brilliant thanks to built-in UV protection.



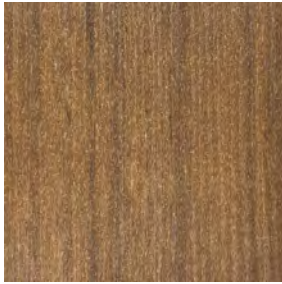
### EASY TO CLEAN

Our products do not stain or accumulate dirt and are easily cleaned with soap and water.



## AVAILABLE COLORS

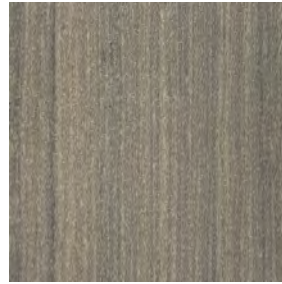
Available in 5/4x6:



Antique Mahogany



Birchwood



Coastal Gray



Driftwood Gray

Available in 2x6 and 5/4x6:



Light Gray



Sand



Weathered Wood

## TANGENT MARINE DECKING ADVANTAGE

### TANGENT™ VS OTHER MATERIALS

	 TANGENT™	 WOOD	 WOOD PLASTIC COMPOSITE	 PVC
Lasting durability	✓		✓	
Doesn't absorb chemicals, oils or water	✓			✓
Will not rot, corrode, splinter or decay	✓			✓
Will not leach chemicals into the environment	✓		✓	✓
Insect and marine borer resistant	✓			✓
Resistant to mold and mildew	✓			✓
Cap and core similar color	✓	✓		
Low-maintenance and easy to clean	✓			
Doesn't require painting, staining or sanding	✓		✓	✓
Made with recycled material	✓		✓	
Will not absorb moisture	✓			✓
Exceptional aesthetics	✓			✓



## TANGENT MARINE DECKING MATERIAL FAQs

### **What is the difference between Tangent marine decking, Composites and PVC Decking?**

Composites are made from a mix of plastic and wood flour, which can absorb moisture. PVC decking is not as tough as high density polyethylene (HDPE) and is limited to 16 inch spans. Tangent Marine Decking is made from a blend of extremely tough recycled HDPE, strengthening agents, UV inhibitors and anti-static additives. It is excellent at absorbing impacts and has no wood or organic fibers and is not susceptible to moisture that causes swelling, warping or splintering.

### **How is Tangent marine decking secured to the sub-structure?**

It is recommended that Tangent marine decking be face screwed using high quality stainless steel composite deck screws that will last the life of the dock. No pre-drilling is required. Some hidden fastener systems can be used.

### **What profiles and lengths do Tangent marine decking come in?**

Available in both 5/4 x 6 and 2 x 6, in lengths up to 24' and supported by a range of profiles for fascia, pile strips, posts and rails, etc. Check your local dealer for availability.

### **Will Tangent marine decking get hot in direct sun?**

Largely a function of color choice, heat absorbed on the surface of Tangent marine decking is comparable to that of wood and other alternative decking products. Lighter colors absorb less heat and remain cooler to the touch than darker colors.

## INSTALLATION GUIDE

### GENERAL INFORMATION

- Always consult local building codes prior to installing Tangent marine decking for specific requirements that may apply.
- Tangent Marine Decking is not a structural load bearing product and should not be used in such applications.
- This guide is intended to provide basic instructions for proper working and installation of Tangent marine decking. Both the purchaser and installer of Tangent marine decking, however, are solely responsible for understanding specific job conditions and determining the suitability of using Tangent marine decking.
- Tangent Marine Decking color and emboss may vary between production batches. Ideally, complete your installation from the same production batch. All units are labeled with production batch numbers. Speak to your dealer to order a dedicated production run. If installing boards from different production batches, be sure to mix boards as you install and to review and approve the look before securing.

### STORAGE & HANDLING

- Store Tangent marine decking on a flat, level surface to prevent it conforming to uneven surfaces.
- Allow Tangent marine decking to acclimate to ambient temperatures after it is delivered to the job site. Separate and lay out individual boards for an hour or more before beginning installation.
- Avoid laying individual boards directly on hot concrete or asphalt surfaces to avoid uneven temperature conditions prior to install.

### TOOLS

Tangent Marine Decking is installed using the same tools normally used for drilling, cutting, and routing wood.

### SAFETY

Wear personal protective equipment.  
Proceed with caution around power tools.

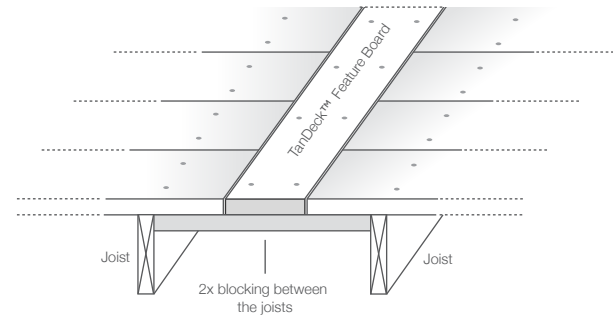
### CLEANING INSTRUCTIONS

For general cleaning, scrub the boards with a soap and water and a plastic bristled brush. For tough stains, including rust spots, the boards can be scrubbed with Iron Out™ or similar product. Pressure washing is not recommended. For more information, please refer to manufacturer's clean and care instructions.

# INSTALLATION GUIDE

## USE OF FEATURE BOARD

- Do not design the layout of the deck surface to incorporate “butt joints”, random length patterns (end to end), or with mitered joints. Inconsistent and noticeable gapping could result with seasonal temperature variations.
- It is critically important to incorporate a “FEATURE BOARD” perpendicular to the orientation of the dock boards to be installed where the layout design is longer than an individual board:
  - Install blocking below the location where you plan to locate the FEATURE BOARD.
  - Install and secure all dock boards first, leaving them slightly long and extending into the FEATURE BOARD cavity.
  - Let dock boards acclimate to a median ambient temperature.
  - Snap chalk lines where the FEATURE BOARD will be located, having allowed for an appropriate gap on both sides of the FEATURE BOARD. See Gap Chart for the size of gap between the ends of the dock boards, and the FEATURE BOARD.
  - With a circular saw, cut along the chalk lines, trimming all dock boards at the same time to ensure the contraction and expansion will be the same for all dock boards.
  - Install FEATURE BOARD last, secured by face screwing in same pattern and spacing as you have installed the dock boards.



## EXPANSION & CONTRACTION

- Tangent Marine Decking will expand and contract with variations in temperature.
- Face screw along the entire length to each joist to minimize and control expansion and contraction.
- Lay out all dock boards across joists and let acclimate to the average temperature of the day prior to face screwing.
- Consult Gap Chart below to determine the appropriate gap required at time of installation. These gaps are required on each end of every Tangent marine deck board to allow for expansion and contraction in seasonal temperature changes. Proper gaps are determined based on the temperature during installation and a maximum board temperature reaching 120° F.

Install Temp (F)	Board Length				
	60 ft	12 ft	16 ft	20 ft	24 ft
Gap (Inches)					
90	1/16	1/8	1/8	1/8	1/8
80	1/8	1/8	3/16	3/16	3/16
70	1/8	1/8	3/16	3/16	1/4
60	3/16	3/16	3/16	1/4	1/4
50	3/16	3/16	1/4	5/16	5/16
40	3/16	3/16	1/4	5/16	3/8
30	3/16	1/4	5/16	3/8	3/8
20	3/16	1/4	5/16	3/8	7/16
0	1/4	5/16	3/8	7/16	1/2

Example: installing a 12 ft board at an install temperature of 60°F in a climate where the maximum board temperature could reach 120°F, the recommended “gap” to leave on each end of the board is 3/16”.

## FASTENERS

- Tangent Marine Decking is installed using traditional tools used for drilling, cutting, and routing wood.
- Face screw two screws per joist, or use a hidden fastener system.
- Screws should be placed a minimum of 3/4” away from the board’s ends or edges.
- No pre-drilling is required.
- Tangent Marine Decking 5/4 x 6 - #8 or #9 screw / 2.5” minimum length.
- Tangent Marine Decking 2 x 6 - #9 or #10 screw / 2.75” minimum length.
- 316 grade stainless steel fasteners are recommended for coastal areas.

## SPAN & LAYOUT CONSIDERATIONS

- Tangent Marine Deck 2 x 6 boards can span up to a maximum of 24” on-center over the support joists; Tangent deck 5/4 x 6 boards can span up to a maximum of 16” on-center.
- Do not overhang Tangent marine decking beyond two inches from underlying support structure.
- To prevent visual variation of decking surface after install, it is VERY IMPORTANT that joists have sufficient and properly installed solid bridging between the joists, every eight feet and that the top of the joists are level to each other.

## LIMITED WARRANTY

- Tangent™ warrants that properly installed Tangent marine decking will not rot, splinter, decay or suffer structural damage directly from termites or fungal decay under normal use for a period of (50) years from the date of purchase (the “Warranty Period”). For full warranty information, please visit [www.tangentmaterials.com](http://www.tangentmaterials.com).






# TANGENT™

When it comes to alternative materials,  
**there's no alternative.**

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S-0004-5721