

## Nexwood Railing System

Our railing system has passed the full scale loading test based on building codes: BOCA-NBC, ASCE 7, ICBO-UBC, IBC, OBC and NBC (Canada).

## Questions and Answers

1. **Are there toxic problems the consumer should be aware of?**
  - There are no toxic chemicals or preservatives involved in the manufacturing of Nexwood.
2. **Nexwood has been designed to look like lumber, what are the main differences?**
  - Nexwood has a higher density than wood; however, certain profiles are engineered to be lighter in bulk weight than actual lumber. Nexwood is resistant to termite and rot, and has low moisture absorption. Thus, Nexwood has a much longer life span than regular lumber.
3. **What are the main differences between Nexwood and the "plastic woods"?**
  - Plastic wood refers to lumber products that are made of 100% plastic. Generally, "plastic woods" are more expensive, more slippery, have shorter span length and experience more problems with expansion and contraction, whereas Nexwood is revolutionized to minimize these problems with a cutting-edge formulation of raw materials.
4. **What are some of the other uses of Nexwood?**
  - Nexwood can be used for flowerbeds, fences, railings, patio covers/overheads, docks, boardwalks, picnic tables, benches, façade, children playground and many other applications.
5. **What happens to Nexwood's composition if it were left in the sun for an extended period of time?**
  - A 2000-hour accelerated weathering test has shown that Nexwood loses little performance. There will be fading in color due to the natural weathering process of recycled plastic and cellulose content.
  - Similar to real wood products, Nexwood will tend to fade when exposed to sunlight and natural weathering. It is important to recognize that over time, our Driftwood Gray, Sierra Brown, Sequoia Red and Natural colors will tend to fade to a silver grayish color or may carry a slight undertone of the base color of the recycled plastic material (green, blue, red, etc.), due to the effects of UV radiation and weathering. The speed or intensity of this process varies due to many uncontrollable factors, i.e.: intensity of the sun, wet/dry cycles and general climatic conditions. There may also be slight "color tone variations" between boards from different production batches. We are unable to control the amount of fade or final color tone and therefore we cannot offer any warranty on the color of our recycled products. Our warranty specifically excludes: "Fading of original color due to natural weathering; or slight variations in color due to use of recycled plastic in the product; or customer misuse causing stains." Please visit our website at [www.nexwood.com](http://www.nexwood.com), or call us to obtain complete copies of the Nexwood Limited Warranty.
6. **Does Nexwood comply with building code?**
  - Nexwood products have already been tested and passed building code requirements based on International Code Council (ICC).  
For properties of Nexwood decking, refer to the span chart and Nexwood Test Results.

**7. What reaction will Nexwood have to fire?**

- Nexwood is a combustible material and will burn due to the 60% cellulose content; but, Nexwood has a much higher ignition temperature than wood (Self Ignition Temperature = 450° C / 842° F), and it has a low burning rate (Rate of Burning = 0.68"/min). Based on ASTM E-84 (Flame Spread Rating), Nexwood is in **Class B (Class II)**.

**8. Plastic lumber is known as being slippery. Is Nexwood slippery when wet?**

- Nexwood has a unique wood-like finish, which increases traction in all directions and meets the Occupational Safety and Health Administration recommendation.

**9. Can Nexwood be used for fencing?**

- Nexwood can be used for fencing, with railings as a frame. The installation is similar to that of railings; you can use 4x4 post sleeves. Insert wood as a post core, 2x4 as rails, and 5/4 T&G or Fascia Board for fence board. You must consult your local building officials before construction (For more details, see the Fence Building Guidelines section).

**10. What happens to Nexwood when left under water for extended periods of time?**

- Nexwood absorbs very little water. After a test in which Nexwood was submerged in boiling water for 24 hours, no substantial effect in strength was found. Water absorption of Nexwood is less than 1% (24 hours).
- Nexwood does not float in water.

**11. What are Nexwood's standard colors?**

- Nexwood is available in 3 different colors:  
**Driftwood Gray, Sierra Brown, and Sequoia Red.**  
Note: Like real wood, "mother nature" will affect the Nexwood color. All colors will eventually fade to a silver grayish color over time when exposed to sunlight and weather. Due to the use of recycled plastics, slight variations in color may occur between boards. The base HDPE recycled plastic content may carry a slight blue/green/red/gray color tone that may cause slight color variations between boards after weathering or fading.
- We recommend you choose Driftwood Gray for areas with high traffic, i.e., commercial docks, since this darker shade will hide stains better.

**12. What are the standard lengths available for Nexwood?**

- The Nexwood 2x6, 5/4x6 REB and 5/4 T&G are manufactured in lengths of 12', 16' and 20'; Nexwood 2x2, 2x3, 2x4, and C-Channels and E-Channels are manufactured in lengths of 12'; Nexwood 4x4 is manufactured in lengths of 8'; 0.5"x9" Fascia Board is manufactured in lengths of 8' and 12'.
- Product availability may vary by store or territory. Please check availability with your local dealer or lumberyard.

**13. Can Nexwood be milled? If so, are special tools required?**

- Yes, Nexwood profiles can be milled, but it may reduce the strength of the profile.

**14. Can Nexwood be painted or stained? If so, what types of products should be used?**

- Although not required, Nexwood may be painted or stained, especially for older deck. Clean your Nexwood deck surface before applying paint. NEVER paint over surfaces that may contain dirt, mold, mildew. Once Nexwood is painted, subsequent application will be necessary to maintain appearance. Nexwood cannot be responsible for performance of paints applied to any Nexwood products. Use high-quality oil based paint, and paint only on the brushed surface. Do not use paint on surfaces of high traffic areas.

**15. Do you recommended specific brands of screws?**

- We recommend that you use:

Application for:	Type of Recommended Screw:
<b>2x6 Deck Board</b> <b>5/4x6 R.E.B.</b>	#8x3" Nexwood full thread stainless steel trim head screw. #8x2½" Nexwood full thread stainless steel trim head screw.
<b>5/4 T&amp;G Deck Board:</b> ➤ Starter Board: ➤ Deck Board:	#8x2½" Nexwood full thread stainless steel trim head screw. Dual thread TrapEase Composite Deck Screw 2½" (Fasten Master) Sure Drive Composite Deck Screw #10x2½"
<b>Railing System:</b>  Accessories:	#8x3/4" Pan Head Screw #8x2¼" Pan Head Screw Cover the head of the screw using fastener cover <b>Snap-Caps</b> from Pro-Dec. Select the color from their color chart to match with your railing.

Swan Secure Products Fasten Master Sure Drive USA, Inc Pro-Dec Products Clean Coat Composite Deck Cleaner	<a href="http://www.swansecure.com">www.swansecure.com</a> , toll-free: 1-800-966-2801 <a href="http://www.fastenmaster.com">www.fastenmaster.com</a> , toll-free: 1-800-518-3569 <a href="http://www.suredrive.com">www.suredrive.com</a> , toll-free: 1-888-219-1700 <a href="http://www.pro-dec.com">www.pro-dec.com</a> , tel: 281-240-0924 <a href="http://www.cleancoat.com">www.cleancoat.com</a> , toll-free: 1-866-782-6888 <a href="http://www.expertchemicalinc.com">www.expertchemicalinc.com</a> , toll-free: 1-800-831-4963
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**16. What will happen if gases or other petroleum products are spilled on Nexwood?**

- Due to the cellulose content in Nexwood, it will absorb gas or petroleum to a minimal degree on the surface. If washed shortly after the spill, it should not stain. For spills that have been left for a long time, lightly brush with sandpaper or a stiff brush to remove the stain.

**17. What are the differences in storing Nexwood and lumber?**

- Nexwood should be covered when stored outdoors for long periods of time to keep it clean and presentable for your customers. Each crate of 80 pieces of Nexwood 2x6 or 96 pieces of Nexwood 5/4 T&G or 5/4x6 REB is shipped with a Nexwood plastic cover for protection. No more than three crates should be stacked in a column and make sure that the wooden bands securing the units are all aligned.

**18. How long can Nexwood be stored?**

- Nexwood should be covered and stored indoors. When properly stored, it has a long shelf-life. Customers are protected by Nexwood's 20 year limited warranty for 2x6 Nexwood deck boards and 10 year limited warranty for 5/4x6 Radius Edge boards (REB) and 5/4 T&G Nexwood deck boards. Please visit our website or call us to obtain copies of the warranty.

**19. What kind of glue should I use for Nexwood caps?**

- We recommend using one of the following brands: Lepage-PL400 Bulldog Grip Sub-Floor & Decking Adhesive, OSI-PL400 Heavy Duty Structural & Sub-Floor Adhesive.

**20. Can putty be used on Nexwood?**

- Putty can be used to cover small nicks and holes on the Nexwood surface. We recommend you choose a color of weatherproof/exterior putty that most closely matches your Nexwood surface.

**21. Can Nexwood be delivered to a job site and rolled off without damage?**

- Nexwood may become pocked or dented if rolled off a truck and left to fall to the ground. When packaged in units of 80 the unit weight of the 80 boards is over 2000

pounds. If pushed off from a truck in this state, some of the boards may be damaged. Like wood, cosmetic damage may occur if handled roughly.

**22. Can Nexwood be used for sub-structure?**

- Nexwood **cannot** be used for a sub-structure. We recommend using pressure treated lumber for the sub-structure.

**23. How does Nexwood react to cold weather?**

- Nexwood is designed to perform extremely well in all weather conditions. For expansion and contraction data see the gapping guidelines.

**24. Can scrap Nexwood be taken to a landfill or thrown in the garbage?**

Yes, as Nexwood contains no formaldehyde or arsenic based chemicals or preservatives, it is accepted in landfills.

**25. Do I need to gap the Nexwood board when installing it?**

**Yes**, All Nexwood products should be gapped to allow for expansion and contraction of the product.

- 5/4 Tongue & Groove: there should be a gap between boards. You must use gapping tools while installing 5/4 T&G board.
- 2x6 and 5/4x6 Radius Edge board: gapped a minimum of 1/8"-3/16" side to side.

**26. Can I use 5/4 T&G Nexwood board if I do not have a minimum of 12" from the bottom of the joist to the ground?**

**No**, 5/4 T&G board cannot be used in any application that does not have at least 12" from the bottom of the joist. Without adequate ventilation, the top surface is typically dry, and underneath the deck could be damp from moisture and or humidity. This, in some cases, may cause the 5/4 T&G board to cup slightly. This would void the warranty.

**27. What is the maximum span for Nexwood boards?**

	<b>Residential*</b>	<b>Commercial*</b>
<b>2x6 Nexwood board</b>	24" on center	16" on center
<b>5/4x6 Radius Edge Nexwood board</b>	24" on center	16" on center
<b>5/4 T&amp;G Nexwood board</b>	16" on center	12" on center

\* See install sheet for board installations that is not perpendicular.

## Building Tips

This section provides great tips and suggestions from some of our valued customers (expert deck builders). While some of these tips have not have been tested by Nexwood as of yet, Nexwood is in the process of doing further research and analysis. If you have any suggestions or great tips, we encourage you to share them with us via mail, or email ([inquiry@nexwood.com](mailto:inquiry@nexwood.com)), or toll-free: 1-888-763-9966.

### **Mike Owens, Deck Master - Plano, Texas**

**1. Using the "Herringbone" Pattern (See page 7)**

Building decks with the Herringbone pattern offers several advantages:

- Reduces scrap waste, the Herringbone pattern allows you to use short boards so waste is reduced