

## MOVEMENT

### **Perennial Wood is three times more dimensionally stable than unmodified Southern pine.**

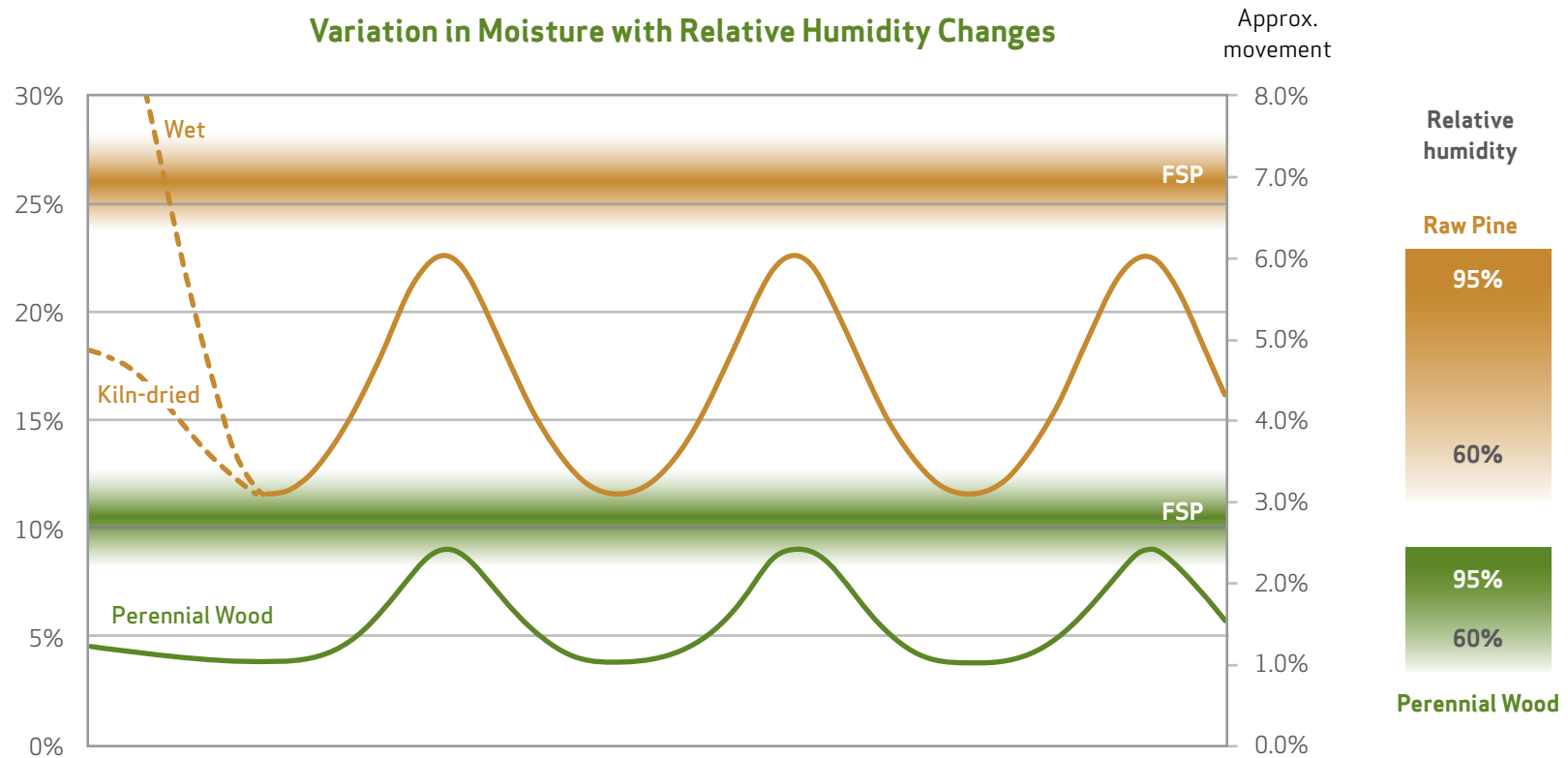
- Perennial Wood is at very low moisture content after modification. Even though Perennial Wood is more dimensionally stable than unmodified pine, allowing the wood to acclimate to its use conditions will minimize installation problems.
- Even with acclimation, expect slight expansion of Perennial Wood when exposed to high moisture conditions.
- Perennial Wood has a 25-limited warranty against movement, which means your Perennial Wood porch boards are warranted to not move more than 4%.
  - This leads to less gapping between individual boards and less cupping (“washboard effect”) because Perennial Wood boards stays truer to form over time.

### **Standard wood practices are recommended when installing Perennial Wood porch flooring.\***

- ACCLIMATION — product should sit at the jobsite for 14 days to allow for equilibration with the use environment.
- EXPANSION SPACE — minimum 1/2” expansion space between porch flooring and fixed structures (walls, posts, columns, etc.) to allow for dimensional change.
- COVER — tongue and groove porch boards are intended for fully-covered use
- SLOPE — porch should be sloped 1/4” per foot to allow water runoff
- GUTTERS — properly installed gutters redirect rain and other precipitation runoff away from porch flooring

\*SouthernPineDecks.com

## Variation in Moisture with Relative Humidity Changes



- RH conditions based on typical ranges in North Carolina. Other regions may vary.
- Raw Pine moisture estimated from control sample reported in "Water Vapor Sorption Isotherms for Southern Pine Treated with Several Waterborne Preservatives", Samuel L. Zelinka and Samuel V. Glass, Journal of Testing and Evaluation, Vol. 38, No. 4.

- Initial moisture concentrations for raw pine taken from American Painting Contractor, July 1992, Volume 69, Number 7, Professional Finishing of CCA Pressure-Treated Wood.
- Perennial Wood moisture concentration estimated from internal testing with radius edge decking measurements. Initial conditions assumed to be warehouse conditions of 70%RH
- FSP = Fiber Saturation Point. Although moisture content can continue to increase, wood does not experience significant dimensional movement above this point.