



Real wood made to endure.

## PERENNIAL WOOD™

Perennial Wood is genuine, beautiful wood made to endure. Produced from Southern pine that has been modified throughout with TruLast™ Technology, Perennial Wood resists changes from moisture and remains dimensionally stable for decades. Perennial Wood is not pressure treated with heavy metals, is not an artificial composite, and is not molded from plastic. It is real wood with real character that's been modified to last longer.

### Key Facts

- ▶ Once modified, Perennial Wood is three times more resistant to shrinking and swelling than unmodified wood, resulting in less cupping, bowing, and warping.
- ▶ It has 25% greater surface hardness than unmodified wood.
- ▶ TruLast Technology modifies the wood, providing a physical barrier throughout that's warranted to protect against rot, decay, and movement for 25 years.
- ▶ It works and machines like wood because it is wood — no special tools are needed.
- ▶ It is made from U.S. Southern pine — a renewable resource.
- ▶ It is processed and finished in the U.S.A., which eliminates shipping from offshore sources.
- ▶ Products made of Perennial Wood last longer than unmodified wood, resulting in less material disposal over the long term.



### PRODUCTS AND AVAILABILITY

Perennial Wood is well-suited for outdoor applications where the authenticity of real wood is desired without the damaging effects of the elements. The first consumer product offering is Perennial Wood decking, available in New England through about 100 Lowe's stores, and specialty deck dealers and building materials retailers. Eastman also offers Perennial Wood to other manufacturers for use in their products including outdoor furniture and windows and doors, and is exploring additional interior and exterior applications. For updates on the latest market introductions and new applications, visit [PerennialWood.com](http://PerennialWood.com).

# TRULAST TECHNOLOGY

TruLast Technology is a major advancement in wood technology and is the proprietary process that makes Perennial Wood possible. Wood that has been modified with TruLast Technology resists changes from moisture and remains dimensionally stable for decades. Simply put, TruLast Technology retains the wood's authenticity and beauty while changing the wood's cell structure to provide long-lasting outdoor performance.

## Key Facts

- ▶ TruLast Technology is a process called acetylation, which permanently transforms the wood's cellular structure throughout by using heat, pressure and an organic compound to replace the water-loving (hydrophilic) groups in the wood's cells with water-hating (hydrophobic) groups, which minimizes water absorption and the associated damaging effects.
- ▶ The process leaves no toxic substances within the wood. The organic compound, acetic anhydride, is used in manufacturing a wide range of products, from acetaminophen to artificial sweeteners (aspartame, sucralose) to toothbrushes, eyeglass frames, adhesive tape, tool handles, and LCD TV screens. Use of acetic anhydride leaves behind small amounts of acetic acid, which is also found in household vinegar.
- ▶ The resulting Perennial Wood remains straight and smooth and is three times more resistant to shrinking and swelling than unmodified wood — without compromising the wood's natural appearance.
- ▶ TruLast Technology modifies the wood, providing a physical barrier throughout (not just the surface) that's warranted to protect against rot, decay, and movement for 25 years.

TruLast Technology and Perennial Wood have been developed by Eastman, a Fortune 500 company with more than 80 years of experience in acetylation. For more information, visit [PerennialWood.com](http://PerennialWood.com).

## EFFECT OF MOISTURE ON UNMODIFIED WOOD VS. PERENNIAL WOOD

Wood shown after one minute of water exposure.



**Unmodified wood** bows, swells, and distorts when exposed to moisture from rain and humidity.



**Perennial Wood** resists moisture and remains truer to form.

