

# THE DURABILITY DIFFERENCE





## A DIFFERENCE YOU CAN SEE

With less durable siding, unsightly damage can happen merely from everyday bumps and exposure to the elements.

LP® SmartSide® products combine the rich cedar-grain texture of traditional wood siding with the advanced performance of treated engineered wood – to help extend its curb appeal for years to come.

Read on for powerful evidence of LP SmartSide products' toughness.

# THE SECRET TO ADVANCED DURABILITY

All LP® SmartSide® products are treated to the core through our proprietary SmartGuard® process. With four components of protection, the SmartGuard process adds strength and helps LP SmartSide products withstand impacts, damage of freeze-thaw cycles, high humidity, fungal decay and more. See more about how LP SmartSide is made at [youtube.com/lpsmartside](https://www.youtube.com/lpsmartside).



# BIG-TIME BREAK RESISTANCE

Testing shows that LP® SmartSide® strand products offer outstanding impact resistance – better than vinyl and fiber cement siding – which means they can stand up better against everything from everyday bumps to airborne storm debris.

## A STRONG DEFENSE AGAINST HAIL

Third-party test results demonstrate that LP SmartSide lap siding resisted hail damage better than fiber cement and vinyl. In fact, the LP SmartSide warranty covers impacts from hail up to 1.75" in diameter.



## LESS BREAKAGE FOR EASIER INSTALLATION

Because LP SmartSide is less fragile than fiber cement, it's less prone to accidental breakage during handling and installation. It's also lighter than fiber cement siding and can be carried by just one person without breaking under its own weight. All this helps make LP SmartSide siding faster and easier to handle and install, and results in less waste.

## NASA IMPACT DAMAGE RESISTANCE EVALUATION

To help prove the superior durability of LP SmartSide strand siding, LP Building Products asked the National Aeronautics and Space Administration (NASA) to evaluate the impact damage resistance of both engineered wood strand siding from the LP SmartSide brand and fiber cement siding. **Here's a summary of some key findings.**



LP SmartSide

Fiber Cement

### When Hit by Small Rocks

Small rocks shot at LP SmartSide strand siding at 107 miles per hour have barely left a mark. The same kinds of rocks can visibly damage fiber cement even at lower speeds.



LP SmartSide

Fiber Cement

### When Hit by Golf Balls

A golf ball traveling at 63 miles per hour left no visible damage to LP SmartSide strand siding. Golf balls moving at less than 50 miles per hour can visibly damage fiber cement.



LP SmartSide

Fiber Cement

### When Hit by Baseballs

LP SmartSide strand siding has been hit by a baseball at 77 miles per hour and shown no visible damage. Slower-moving baseballs have put holes in fiber cement.

Video of the NASA evaluation can be found at [lpsmartside.com/advantages/durability](https://lpsmartside.com/advantages/durability).

# NO FEAR OF NATURE

## STAYS PUT IN HIGH WINDS

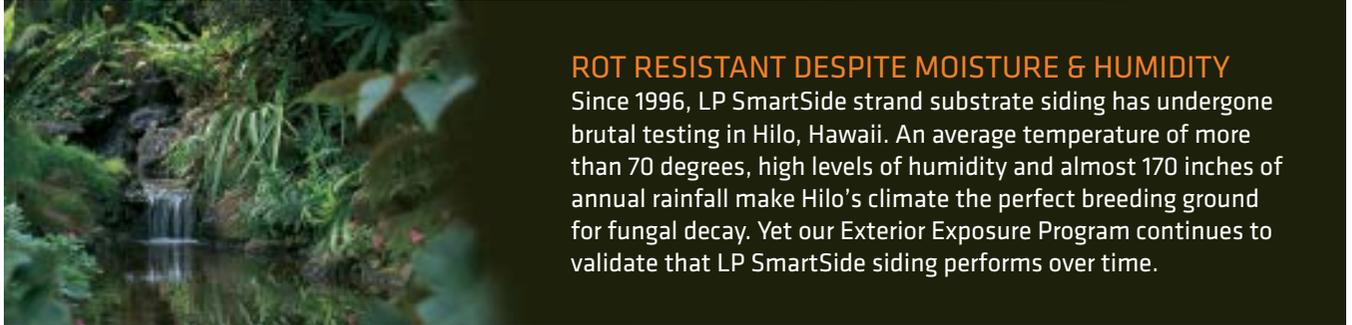
LP® SmartSide® Lap Siding is designed to withstand tough storms with wind gusts of up to 200 miles per hour.

*Refer to ESR-1301, Table 2B, Lap Siding.*



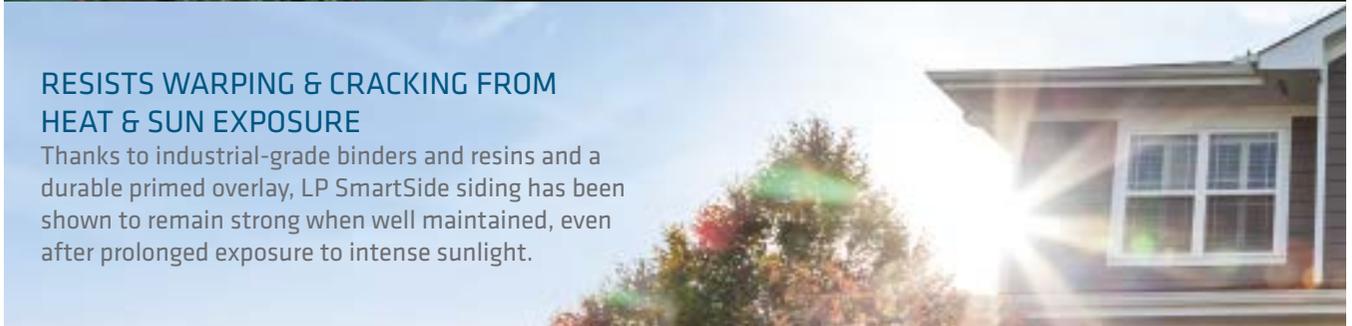
## ROT RESISTANT DESPITE MOISTURE & HUMIDITY

Since 1996, LP SmartSide strand substrate siding has undergone brutal testing in Hilo, Hawaii. An average temperature of more than 70 degrees, high levels of humidity and almost 170 inches of annual rainfall make Hilo's climate the perfect breeding ground for fungal decay. Yet our Exterior Exposure Program continues to validate that LP SmartSide siding performs over time.



## RESISTS WARPING & CRACKING FROM HEAT & SUN EXPOSURE

Thanks to industrial-grade binders and resins and a durable primed overlay, LP SmartSide siding has been shown to remain strong when well maintained, even after prolonged exposure to intense sunlight.



## RESISTS DAMAGE THROUGH FREEZE-THAW CYCLES

Many substrates delaminate when water is absorbed, then freezes and expands. LP SmartSide products, made with the SmartGuard® process, resist water and therefore are less subject to freeze-thaw cycle damage.



## DEFIES TERMITE DAMAGE

To put LP SmartSide siding products to the ultimate test, we exposed samples to Formosan termites, widely recognized as one of the world's most destructive pests. Each sample was placed on a grid, surrounded by untreated bait samples, then laid directly on top of termite colonies. The bait samples were damaged within three months – but even after a number of years, the LP SmartSide siding exhibited no structural damage.

### **Untreated Wood vs. LP SmartSide Product**

*Untreated wood devastated by Formosan termites (upper left) and undamaged LP SmartSide product protected with the SmartGuard process (lower right) during same testing period.*

