

# Job Site Preparation

## Inspection

Carefully inspect all materials upon receiving the shipment. Any visual defects or damage must be noted on the original bill of lading. Wood-Boo™ Hardwood Flooring will not warrant any materials installed with existing defects. Installation will not be warranted by Wood-Boo™ Hardwood Flooring unless the material was installed by one of our crews and it was shown to be an installation issue.

## Preparation:

Bamboo flooring should be one of the last things installed in new construction. Any work involving moisture such as plumbing, dry walling, etc., should be completed prior to the installation of the floor. Materials should not be delivered until all the doors and windows have been installed and cement, plaster, paint, and other moist materials are completely dry. Concrete and plaster should be allowed to cure for 60-90 days. If time is of the essence, ASW membrane may be applied directly over 7-day-old concrete or gypcrete without damaging the substrate or the bamboo flooring. Basements and crawl spaces must be dry and well ventilated to prevent damages caused by excess moisture.

Once the job site is dry and prepared, materials should be delivered and allowed to acclimate for 48-72 hours, prior to installation. A consistent temperature of 60-75 degrees Fahrenheit should be maintained, with a relative humidity of 40-60% for a minimum of 5 days pre-installation. The relative humidity can be monitored using a hydrometer.

The substrate surface must be clean, dry, and smooth. All dirt, wax, oil, paint, or other curing agents or contaminants that could interfere with the bonding of the adhesive must be removed. Any drywall or concrete must be scraped down and smoothed out. Concrete sub floors must be level and have all cracks and holes filled, wood sub floor joints must be sanded smooth.

While bamboo flooring is more moisture resilient than other hardwoods, it is still subject to damage when in direct contact with a wet sub floor. The flooring must be isolated from the moisture by floating the floor over a non-absorbent pad such as ASW membrane. Urethane adhesives may fail to adhere if vapor pressure exceeds 4 lbs/1000 square feet in 24 hours. Check the adhesive manufacturer's directions and warnings for ideal application settings. Wood sub floors should not exceed a moisture content of 12%.

# MSDS Specifications

## Technical data for Wood-Boo™

**Hardness:** 4.0 N/mm<sup>2</sup> (Brinell test method)  
1,627 lbf average (ASTM D1037/Janka Ball Test). As a frame of reference, hard Maple is 1,460.

**Shrink/Swell:** 0.14% per 1%

## Equilibrium Moisture Content:

10% at 68 degrees F (20 degrees C) and 65% relative humidity. 8% at 68 degrees F (20 degrees C) and 65% relative humidity. 8% at 68 degrees F (20 degrees C) and 50% relative humidity

**Density:** 43.69 pounds per ft<sup>3</sup> (700kg/m<sup>3</sup>)

## Fire Resistance:

Class 1 per ASTM E648 (Critical Radiant Flux of .54 watts per cm<sup>2</sup>)  
Class 1 per NFPA 101

Wood-Boo™ pre-finished flooring is finished using a system where 6 coats of polyurethane acrylic are applied. The total coating applied is 80-85 grams per square meter. In the second layer, aluminum oxide “ceramic” crystals are included. Each layer in the system is UV cured.

Wood-Boo™ flooring has been tested pursuant to ASTM C1028 which is an industry endorsed protocol for measuring the static coefficient friction of the surface under wet and dry conditions. Average Coefficient of Friction results were .731 (dry) and .925 (wet).

## Adhesive used in Manufacturing:

ASTM E1333-96 is an industry accepted standard for measuring formaldehyde out gassing levels in urea formaldehyde based adhesives. All bamboo flooring manufacturers use urea formaldehyde resin in their laminating adhesives. It is the same adhesive used in all conventional interior plywood products as well. The standard set by the U.S. Department of Housing and Urban Development (HUD) is .3 ppm of formaldehyde. Wood-Boo™ adhesives test at .04 ppm or about eight times better than the HUD standard.

# Wood-Boo™ Specifications

**Dimensions:** 4 3/4" x 35 7/8" x 5/8"

**Finish:** 6 coats of German Klumpp matte ceramic finish

**Wear Layer:** 3.2mm hardwood, micro-beveled edge. Can order up to 5mm wear layer

**Structure:** Bamboo bottom layer with bamboo cross-ply core

**Packaging:** 12 pcs/box, 23.5 square feet/box, 30 boxes/pallet, 30 pallets/container  
21,150 square feet/40 foot container

# Warranty

Wood-Boo™ Hardwood Flooring warrants its entire Wood-Boo™ laminated plank, in its original manufactured state, to be free from manufacturer's defects for a lifetime. Wood-Boo™ Hardwood Flooring's standard German Klumpp ceramic finish carries a 25 year residential, 10 year commercial wear-through warranty. This excludes any mechanical problems such as indentations, scratches or surface damage caused by lack of proper maintenance or protection, moisture problems, or negligence. Accessories such as stair nosing and reducers are covered by a three year residential, one year commercial wear-through warranty. Gloss reduction is not considered surface wear.

Wood-Boo™ is a natural wood flooring product that contains normal variations of color, tone and grain. Wood-Boo™ Hardwood Flooring can not guarantee against natural variations within each plank, nor differences between samples shown and the color of the finished product. The installer is responsible for inspecting each plank for color and blending them to create a beautiful, high-dimensional looking floor. Wood-Boo™ Hardwood Flooring will not warrant any planks that are installed with existing defects. Any defects noted prior to installation will be covered and replaced. Wood-Boo™ Hardwood Flooring does not warrant installation.

Wood-Boo™ Hardwood Flooring's warranty does not cover scratches or damages caused by negligence, exposure to extreme heat, dryness or excessive moisture, accidents, abuse, misuse, indentations caused by high heels, stains as a result of chemical or industrial products or pet accidents, or because of insufficient protection of improper alterations of the original manufactured product.

Wood-Boo™ Hardwood Flooring may provide recommendations on installation techniques or products, however, we DO NOT warrant any of these tips or products, including adhesives, installation tools, moisture barriers, cleaners, or installation instructions. Please consult with the manufacturers of these products and/or the installer for warranty information.

Wood-Boo™ Hardwood Flooring is not a shipping company and cannot warrant damage that may have occurred while in transit. It is the customer's responsibility to inspect all material upon arrival. If any damage is found, it must be documented on the original bill of lading. It is the customer's sole responsibility to seek compensation from the shipping company. Every customer has the right to arrange for their own shipping.

## Maintenance

Proper maintenance is the key to ensuring the everlasting beauty of your Wood-Boo™ floor. Like any other wood flooring product, your Wood-Boo™ floor will require a few simple steps to maintain its beauty and integrity.

1. Use a humidifier or de-humidifier to maintain a relative humidity of 40-60% to minimize expansion and contraction.
2. Vacuum or sweep daily with a soft bristled broom. Walking on sand or dirt is the fastest way to damage the finish on your new floor. Blot up spills immediately.
3. Place quality mats/rugs at all exterior entrances to trap dirt, sand and rocks before they enter your home. Shake out or vacuum regularly.

## **General Information about Bamboo**

Bamboo is a versatile and environmentally friendly product that has been used for thousands of years in numerous disciplines and settings. Mature plants are cut and used to make furniture, plywood, paneling, cabinets, countertops, scaffolding, and flooring. As the consumer demand and desire increases for environmentally friendly products, the uses for bamboo continue to skyrocket.

Bamboo has an extensive root system which is constantly growing and replenishing itself, resulting in overwhelmingly abundant resources. Because of its root system, bamboo is considered a grass, not a tree. It matures to its maximum growth after 3-5 years, and is then harvested for use in both commercial and residential applications. There are over 1100 different species of bamboo, and not all varieties can be used for construction or consumer products. For example, the panda bear eats over 15 different varieties of bamboo, none of which can be used for flooring products. Moso, or hairy bamboo, is the species we use to make our bamboo flooring. It can grow up to 60 feet tall and have an 8-12 inch diameter within 3-5 years.

## **General Information about Hardwoods**

Exotic hardwoods are a precious commodity that is becoming increasingly popular with the growing construction industry. The widespread use of these hardwoods is causing the natural rainforests to be rapidly depleted at a rate of 30-50 million acres per year. If the destruction continues at this rate, these forests will be almost totally depleted within 30 years.

Most exotic hardwoods are much harder than their North American counterparts, and are much more stable in their engineered state. Their beauty and unique graining cannot be duplicated by any North American species and therefore, the demand for exotics continues to grow. In a nation overly concerned with beauty and appearance, it is impractical to expect consumers to stop utilizing these beautiful woods in their new or newly remodeled homes. It is this fact that encouraged us to develop an innovative, new flooring product that incorporates the beauty of exotic hardwoods, while greatly minimizing the depletion of our natural resources. We call it Wood-Boo™.

# Frequently Asked Questions About Wood-Boo™ Flooring

## **What kind of finish is used with my Wood-Boo™ floor?**

Our products are finished with the most highly advanced finish line available. We use a German Klumpp ceramic finish which we feel is the top rated product of its kind. We provide a 25 year residential, and 10 year commercial wear-through warranty on our finish. All of our products have a matte sheen which we have found minimizes the appearance of surface scratches.

## **Will my Wood-Boo™ floor get scratched?**

Yes. Although we use what we believe to be the most durable finish in the marketplace, its purpose is just to cover and protect the material. When sharp objects, sand, etc., are forced into the finish, the ceramic particles are broken down and white scratches are left behind. Performing activities that cause great pressure on the floor, such as moving furniture without protective pads, can and will gouge through the finish.

## **How hard is a Wood-Boo™ floor compared to other wood floors?**

When tested in accordance with the National Wood Flooring Association and the Janka ball hardness test, our products tested on average 1320 psi, which is harder than Maple or Oak. Each species has a different Janka hardness. You may find all of that information on our web site, [www.woodboo.com](http://www.woodboo.com).

## **Can my Wood-Boo™ floor be sanded?**

Initially your floor will not need sanding and coating because it is pre-finished. After years of wear and tear, it can easily be sanded and re-coated. Because of the size of our wear layer, your floor can withstand 3-4 sandings, which for most people, will last as long as they own their home.

## **Will my Wood-Boo™ floor change colors?**

Like any natural flooring product, your floor will darken or lighten, depending on the species, with time and exposure to UV light. The majority of the changes will occur within the first 90 days, so the use of area rugs should be limited during this time.

## **How is the bamboo attached to the hardwood wear layer?**

A non-toxic, heat-activated, pressure sensitive adhesive is rolled onto the wood and the bamboo. It is then placed in a heated press under extreme pressure for 30 seconds. This highly advanced procedure, which is identical to that of our premium bamboo flooring, has been proven to make the bond between the layers harder than the actual wood itself, therefore we can guarantee a lifetime structural/delamination warranty.

## **How this is the wear layer on my new Wood-Boo™ floor?**

Our standard wear layer is 3mm, however, you have the option to custom order a 5mm wear layer on most species. Please call our office for more details.

## **Is there a chance that the two layers could separate due to the fact that they react differently to moisture?**

Although this is a new product, we have done extensive testing using extreme heat and dryness controlled chambers. Also, the expansion and contraction properties of Wood-Boo™ are the same as our engineered Strand Woven product, which has a wear layer made up of bamboo fibers. We have been selling the engineered Strand product for several years and have no warranty issues.



**How is my Wood-Boo™ floor different from other hardwood floors?**

Basically Wood-Boo™ is a 75% environmentally friendly bamboo, 25% domestic or exotic hardwood, structurally engineered solid plank. It can be nailed, glued or floated, at, above or below grade, unlike most hardwoods.

**Can my Wood-Boo™ floor be glued directly to a concrete sub floor?**

Yes, unlike other hardwoods, Wood-Boo™ can be glued directly to concrete, below grade level. We recommend using ASW membrane as an anti-fracture, and moisture barrier.