



Installation Guide: Solid Bamboo Flooring

For questions or concerns please contact our technical support

Monday – Friday 7:00 a.m. – 4:00 p.m. PST

1-877-630-1800 – option 2

For the latest version of installation instructions visit

www.homelegend.com

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Safety Information

CAUTION

CAUTION: WOOD DUST

Sawing, sanding and machining wood products can produce wood dust. It can cause respiratory, skin and eye irritation. Avoid prolonged exposure to wood dust. Power tools should be equipped with a dust collector. It is recommended to perform wood dust generating activities outdoors. If high dust levels are encountered use an appropriate NIOSH-designated dust mask.

CAUTION

CAUTION: ASBESTOS IN EXISTING FLOOR

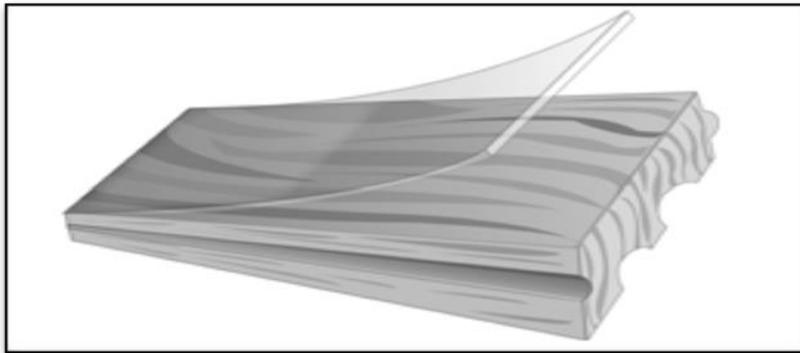
This Home Legend product does not contain asbestos. Existing installed resilient flooring and asphaltic adhesive may contain asbestos fillers or crystalline silica. Do not sand, dry sweep, dry scrape, drill, saw, bead-blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphaltic "cutback" adhesive or other adhesive. See "Recommended Work Practices for Removal of Resilient Floor Coverings" (rfci.com) for detailed information and instructions on removing all resilient covering structures.



GREENGUARD CERTIFICATION

Home Legend Solid Bamboo Flooring is Green Guard Gold Certified. The GREENGUARD Gold Certification requirements comply with the State of California's Department of Public Health Services Standard Practice for Specification Section 01350 (California Section 01350) for testing chemical emissions from building products used in schools and other environments. As such, GREENGUARD Gold Certified products can be used to earn valuable credits in the CHPS Best Practices Manual for K-12 schools, the US Green Building Council's LEED® Green Building Rating Systems, the Green Guide for Healthcare, the NAHB Green Building Guidelines, Green Globes, Regreen and many other building codes, standards and specifications. For more information, visit www.ul.com/gg or www.greenguard.org

Product Specifications



Wear layer:

The top coat film is a polyurethane sealer with an aluminum oxide finish; which improves scratch resistance. The polyurethane layer is UV cured.

Solid Plank:

Solid bamboo flooring consists of bamboo strips pressed together to create a solid plank with a tongue and groove joint system. Flooring can only be glued on the subfloor as a traditional installation method. A moisture retardant wax seal is added to the structure of each plank to improve moisture protection. This solid construction allows the flooring to be sanded and refinished.

Product Included	Approved Installation Methods	Approved grade levels
All Bamboo Tongue And Groove	Primary Method: Full Spread Glue	Above Grade. On Grade.

Pre-Installation

Safety and health precautions:

- ✓ Power tools can be dangerous. Operate in strict accordance with the manufacturer's operating instructions and safety precautions.
- ✓ Unsafe and improper use can cause serious injuries.
- ✓ Avoid inhalation and exposures to wood dust, by mechanical means, by wearing personal protective equipment.
- ✓ Wear appropriate personal protective equipment (PPE) which includes NIOSH or OSHA approved dust masks, safety goggles and work gloves.

Owner/Installer Responsibility:

- Be advised, the owner is to be present during the installation for consultation/direction.
- The owner and installer should discuss installation and arrangement to maximize satisfaction. If this is not possible, consultation should be done prior to installation.
- The manufacturer's installation guide is the primary source of installation procedures. Installers should also be familiar with installation guidelines from National Wood Flooring Association (NWFA) woodfloors.org.
- The owner/installer accepts all responsibility for product quality of completed installation.
- Flooring to be installed in one large area should be purchased at the same time. Product purchased at a later time than the first purchase may vary.

Inspection:

- Arrange planks from several boxes to ensure even distribution of color, shade and/or characteristics.
- Wood floors are natural products containing natural variations.
 - Variations in color, tone, grain, mineral streaks, small knots and other characteristics can be found from plank to plank.
 - Similar variations exist between samples, images and the purchased flooring. This is normal and it does not mean the product is defective.
- For claims purposes, you are allowed to open up to 4 boxes for product inspection.
IMPORTANT: Do not open all the boxes, opening all the boxes constitutes your acceptance of the product.
- Examine flooring for product quality and customer satisfaction.
 - If the customer is satisfied, proceed with installation.
 - If the customer discovers that the product is defective, or if material is questionable, you should stop the installation and contact the retailer.
- This product is manufactured according to strict industry quality standards. Standards permit a defect tolerance not to exceed 5%.
- Order an additional 5% extra for cutting wastage and grading allowances (10% for diagonal installations).
- During installation, inspect the planks continuously. Defects that can be seen from a standing position should be cut off or removed. Installing defective planks implies acceptance.

Note: Accessories, trims and moldings are manufactured to coordinate with the varied appearances of the floor planks; any exact matches are coincidental. Non-matching accessories are not defective products.

Prior to installation:

- Arrange planks from several boxes to ensure even distribution of color, shade and/or characteristics.
- Ensure subfloor is clear of debris and dirt.
- The length of the each plank in any box can vary from 12 inches to the maximum full length stated on the packaging or other product descriptions. Each box can contain all full length boards or a combination of full length and shorter boards. There is no specific percentage of product length distribution.

Tools and Materials:

- | | | |
|---|--|----------------------------|
| ✓ Tape measure | ✓ Carbide tipped saw blade for fine cut | ✓ Eye protection |
| ✓ Moisture meter (wood, concrete or both) | ✓ NIOSH-designated dust mask | ✓ Straight edge |
| ✓ Chalk line & chalk | ✓ Hand saw or jamb saw | ✓ Pry Bar |
| ✓ Hammer | ✓ Tapping block | ✓ Mallet |
| ✓ Power saw | ✓ Adhesive remover for selected adhesive | ✓ Broom |
| ✓ Pull bar | ✓ Clean rags | ✓ Color matched wood putty |
| ✓ Flooring adhesive or Joint Glue | | ✓ Weight roller |
| ✓ Trowels | | ✓ Painters Tape |

Pre-Installation (cont'd)

Acclimation In-service Conditions:

Acclimation is the process of adjusting (conditioning) the moisture content of bamboo flooring to the environment in which it is expected to perform. The bamboo flooring is fully acclimated when its moisture content and dimensions (width and length) are stable for at least 3 consecutive days. Allow at least 72 hours for bamboo to acclimate to the temperature and humidity of the room. If flooring is being installed in an excessively dry or humid climate, allow additional acclimation time. Cut open the boxes and plastic wrap of the packaging to allow air circulation. Elevate planks from the floor by placing them on 4"X 4" lumber or equivalence. Place spacers (3/4" to 1" sticks) between each layer and cross stack the layers for maximum exposure to ambient conditions. Acclimation Installation temperature range is 60°F-80°F and relative humidity (RH) of 35%-55%. Conditions in which the floor was acclimated installed should be maintained continuously thereafter. It is recommended to document acclimation information below:

Date: _____ Relative Humidity (%): _____ Temperature (°F): _____	Subfloor Type: _____ Subfloor Avg. Moisture Content (%): _____	Flooring Avg. Moisture Content (%): _____
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Job Site Condition

- At the time of installation, the installer must ensure that the job site conditions will not negatively affect floor.
- Conditions include: subfloor/substrate, ambient temperature and relative humidity, and all other impacting variables.
- Manufacturer will decline responsibility for damages associated with improper installation or poor site conditions.

Storage and Condition

- Do not store flooring in uncontrolled environmental conditions.
- Garages and exterior patios are **not acceptable** areas to store flooring.
- Handle and unload wood flooring with care and store within the environmentally controlled site in which it is expected to perform.
- Flooring stored on concrete slab should be elevated at least four inches to allow air circulation under cartons.

New Construction or Remodel

- All work involving water, such as pouring basement concrete floors, drywall and plasterwork, plumbing, etc. must be completed well in advance of the floor delivery.
- Ensure that the building is enclosed.
- Where building codes allow, permanent heating and/or air conditioning systems should be operating at least five days preceding installation.
- Consistent temperature of 60°F-80°F and relative humidity (RH) of 35%-55% which should be maintained continuously thereafter.

Existing Home

- Existing home should have a consistent room temperature of 60°F-80°F and relative humidity (RH) of 35%-55%.
- Continuous deviation from the specified conditions will affect the dimensions of flooring.
- During heating season, humidity may be much lower than the acceptable range. Throughout heating season, a humidifier is recommended to prevent excess shrinkage.
- During the non-heating season, humidity levels can be maintained by using an air conditioner, dehumidifier, or by turning on your heating system periodically.

Basements and Crawl Spaces

- Concrete slab or surface must be dry.
- The surface in the crawl spaces must be completely covered using 6 mil black polyethylene.
- Crawl space clearance between the earth and underside of joists should be no less than 18 inches.
- Perimeter vent area should be equal to 1.5% of the total square footage of the crawl space or as mandated by code.

Pre-Installation (cont'd)

Concrete Subfloor Requirements

- It must have minimum rated strength of 3000 psi.
- It must be flat. It should be flat within 1/8" in a 6-foot span or 3/16" in a 10 foot span; **no bumps or low spots**. High spots can be removed by grinding; depressions can be filled with patching compound formulated for use in floor installation.
- It must be clean; **no construction debris, soil, mud** and any other objects on/or adhering to the floor; if necessary, scrape and sweep away before the installation; no protrusions of nails, debris, metals should remain.
- New concrete slab must cure for at least 60 days.
- It must meet concrete moisture mentioned below.
- It must be free from moisture related conditions which can damage the installed flooring.

Light Weight Concrete

It is concrete with a rated strength of less than 3000 psi.

Perform a quick check by drawing a nail across the top; if it leaves indentation, it is light concrete.

For glue-down application, the concrete must possess shear strength greater than the glue. If concrete rated psi is unknown, contact the adhesive manufacturer for guidance.

Concrete Moisture

All concrete subfloors should be tested for moisture content and results should be documented, Visual checks are not reliable. Perform tests at locations around exterior doorways, near walls containing plumbing, near foundation walls and in the center of the room. Perform three tests for the first 1,000 sq. ft. and one test for every additional 1,000 sq. ft. thereafter. The concrete moisture content should meet one of the following criteria below:

- 4.5% when tested using Tramex Concrete Moisture Encounter
- Less than 3 pounds per 1000 square feet per 24 hours when using Calcium Chloride test (ASTM F 1869)
- 75% when using Relative Humidity Testing (ASTM F-2170).

Please note: Concrete moisture content may be acceptable the time of the test but these tests do not guarantee a perpetual "dry" concrete slab. The concrete slab moisture content can vary at other times of the year. We are not responsible for moisture related damage to installed flooring.

Wood Subfloor Requirements:

- It must be clean; no presence of construction debris, soil, mud and any other objects on or adhering to the floor; no protrusions of nails, debris, metals should remain. If necessary, scrape and sweep the subfloor before the installation.
- It must be structurally sound and stable: no movements or squeaks, no loose panels or loose nails, no signs of ply delamination or other damages. Repair all shortcomings before installation.
- It must be flat with no bumps or low spots; the subfloor should be flat within 1/8" in 6 feet span or 3/16" in 10 feet.
- Test for moisture using reliable moisture meter. Perform tests at locations around exterior doorways, near foundation walls, near walls containing plumbing lines and in the center of the room. Measure 20 locations per 1000 square feet.
- Moisture content of subfloor should be less than **12%**.

Plywood or Oriented Strand Board (OSB) Specifications

- On truss/joist spacing of 16" (406mm) O/C or less, the industry standard for single-panel subflooring is minimum 5/8" (19/32", 15.1 mm) CD Exposure 1 plywood subfloor panels (CD Exposure 1) or 23/32" OSB Exposure 1 subfloor panels, 4' x 8' sheets. Expansion gap between panels should be 1/8" (3 mm). If panels are not tongued and grooved and there is not sufficient spacing or is inadequate, cut in the required spacing with a circular saw. Do not cut in expansion space on tongue and groove panels.

Existing Floors

Installation over existing floor requires the installer to consider potential issues related to moisture damage, adhesive failure and fastener failure. Contact the adhesive and fastener manufacturers respectively for their specific instructions, recommendations and requirements.

- Acceptable floor coverings include: solid hardwood, linoleum, terrazzo, ceramic tile and other "moisture sealed floors."
- Unacceptable floor coverings include: floating floors, carpet, needle punch felt, edge glued linoleum and other "moisture absorbing flooring."

Pre-Installation (cont'd)

Expansion Gap

- Required gap width is 3/4".
- It is required around the perimeter of the floor and between floor and all vertical obstructions.
 - Do not place permanently installed structures such as kitchen counter/cabinet on the installed floor.
 - Cutting around permanent structures will save square footage and waste.

Radiant Heated Subfloor

- This solid product cannot be installed over radiant heated subfloor.

Adhesive

- Use a non-water base premium flooring adhesive, formulated for solid bamboo flooring installation.
- Preferred type: moisture cure urethane floor glue.

Bond Failure

Bond failure is not flooring product defect. Most installation failures, including bond failure, result from jobsite moisture. Do not unpack or deliver flooring to the jobsite until moisture problems are corrected. Read adhesive manufacturer's instruction carefully. Certain wood flooring adhesives may have special requirements and limitations of use. Some existing floor may not be acceptable. Not following the adhesive manufacturer's recommendations can lead to installation failure or product damage and will void your warranty.

Glue Spots on Face of Finished Floor

Adhesive can damage the floor's finish, especially when it has dried. It is extremely important to take precautionary steps NOT to leave finger prints or footprints marks on the face of the board. If glue comes in contact with the face of the board, remove immediately with the adhesive remover recommended by the adhesive manufacturer. Use clean towels, changing them frequently to prevent haze and adhesive residue. If the spot removal damages the appearance of the boards, replace the board.

General Tips

Helpful Pointers

General Tips

- Make sure your work area is well lit. Good visibility ensures that color is consistent and that visually defective planks are detected and removed.
- The remainder of the last plank can be used as a starter board on the following rows. The minimum length of the first and last plank needs to be longer than the width of the material being installed.
- Leave 3/4" expansion gap around perimeters, under doors and around vertical objects, including permanent or fixed cabinetry.
- Using a shorter piece at undercut door jams will help when fitting flooring in place.
- Most often the entire length of the last row will need to be cut so that it is narrow enough to fit the remaining space.

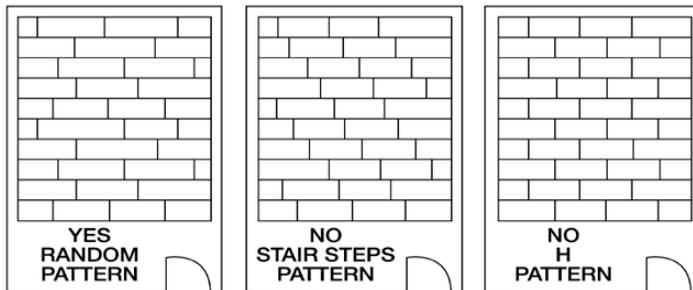
Glue-Down Installation Tips

- Always refer to the specific instructions on the flooring adhesive label. The information given here is for typical installation. Adjust it according to adhesive manufacturer's instruction.
- Use trowel as specified by adhesive manufacturer.
- Continuously check the transfer of adhesive THROUGHOUT the installation process. If the adhesive no longer transfers to the back of the flooring material, it must be removed and new adhesive applied.
- Work your way out of the room.
- After the installation is completed, keep the floor free from daily foot traffic for a minimum of 24 hours to allow adhesive to properly cure.

Pre-install Activities

Pre-install Activities

- Subfloor should be in a clean condition.
- Inspect plank quality and grading.
- Lay out several cartons.
- Arrange planks to ensure even color distribution.
- A random pattern is recommended.
- Minimum stagger point should be longer than the width of the plank.



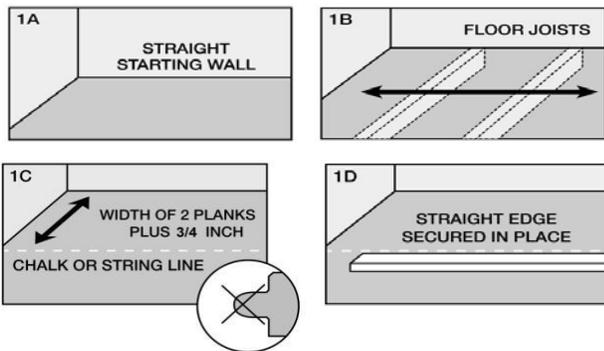
- Remove existing base, shoe molding or threshold carefully. They can be used to cover the 3/4" expansion gap left around the edge of the room.
- Undercut doors and casings using a handsaw laid flat on a piece of scrap flooring. This eliminates difficult scribe cuts.
- Always use protective foot/pad and proper height adapter plate on the fastening machine to prevent face damage, mallet damage, and edge bruising.

Glue Down Installation

PLEASE NOTE:
ANY EXCESS GLUE WHICH GETS ONTO THE SURFACE OF THE FLOOR MUST BE REMOVED IMMEDIATELY WITH ADHESIVE REMOVER

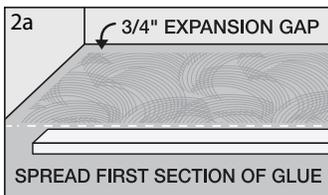
Step 1 – Establish a Starting Line

- Select a straight starter wall.
- Lay out the direction of the floor. If possible, install the flooring perpendicular to the joists.
- Mark the starting line using a chalk line. This distance between the wall and the line should equal the face width of 2 floor planks plus $\frac{3}{4}$ " (create expansion gap by leaving $\frac{1}{2}$ " space between wall and cutting off the $\frac{1}{4}$ " tongue from the long side of the plank).
- Securing a straight edge on the side away from the starting wall is recommended to ensure straight alignment of the starter rows



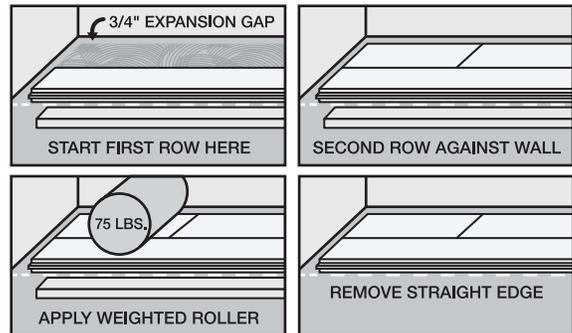
Step 2 – Spreading the Glue

- Spread the glue from the straight edge / chalk line out towards the direction of the starting wall. Spread only enough glue to install what can be set within 45 minutes (15 minutes of OPEN TIME and an additional 30 minutes for actual installation). Usually about two rows width coverage. Different manufacturer may require different open time and set time.
- You will repeat step 2a with each succeeding row.



Step 3 – Install the Starter Rows (first two rows)

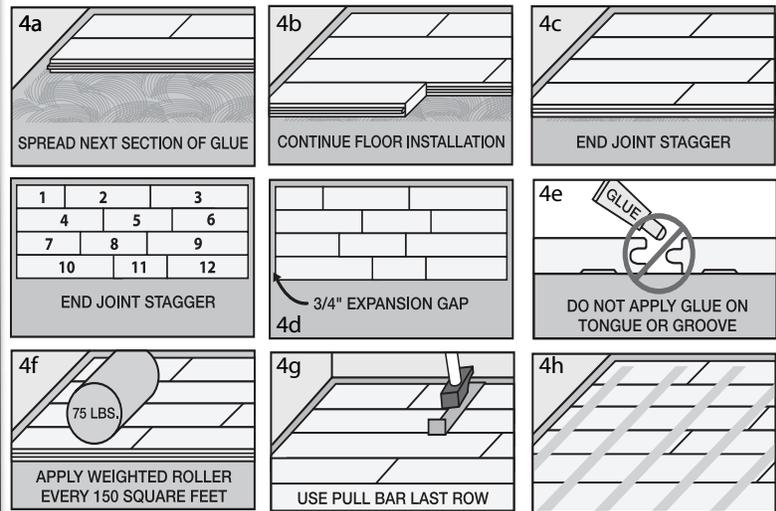
- Installation begins from the straight edge / chalk line out with tongue facing away from the wall.
- Allow expansion gap between the wall and the end of the board.
- Use a 75-pound roller to roll the flooring immediately after 150 square feet.
- Remove straight edge and continue with the installation.



Glue Down Installation

Step 4 – Install the Remaining Rows

- a) Spread another section of glue. Never spread more that can be covered before the adhesive is set. If adhesive is set and will not transfer to the back of the plank, scrape off the adhesive and apply fresh adhesive.
- b) Continue to install the next rows.
- c) Make sure there is a random staggering at the end joints of at least 6" apart. Be attentive to staggering the ends of the boards correctly in adjacent rows to avoid clustering end joints.
- d) Ensure that a 3/4" expansion gap is maintained around the perimeter of the room.
- e) Make sure that there is 100% adhesive contact between the underside of the planks and subfloor. Any excess glue which seeps onto the surface of the floor must be removed immediately with adhesive remover. Do not apply on T&G edge.
- f) Tap the planks together until the tongue and groove are in place. Be careful NOT to damage the face of the planks. Use a clean, smooth, 75-pound roller to roll the flooring immediately after installation and after every 150-square foot interval during the installation to insure proper adhesive transfer.
- g) The Pull Bar helps you reduce seams in tight spaces, that can't be reached with a tapping block while the glue dries.
- h) The flooring should be taped together during installation using painters tape to keep the planks from moving during installation while the glue dries. The tape must be left in place for a minimum of 24 hours.
- i) After the installation is completed, keep the floor free from foot traffic for a minimum of 24 hours to allow adhesive to properly set.

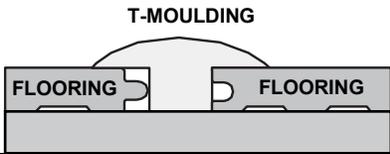
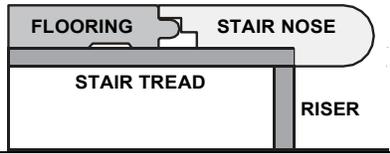
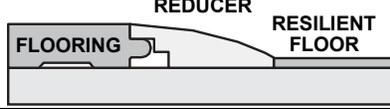
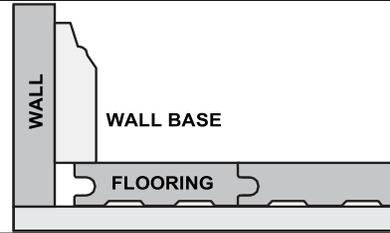
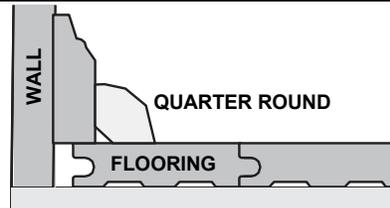


Finishing Touches

- Clean the floor.
- Install or reinstall all wall trim pieces. Nail them through the wall, but not to the subfloor to avoid restricting the expansion gap.

Accessories

Diagrams are for general illustrative purposes only. Actual products may differ from picture.

 <p style="text-align: center;">T-MOULDING</p>	<p>T-Molding is used to create a transition between floor coverings of similar heights.</p>
 <p style="text-align: center;">STAIR NOSE</p>	<p>Stair Nose is used in conjunction with flooring installed on stair steps or finished edge of a higher-level floor like in a sunken living room.</p>
 <p style="text-align: center;">CARPET REDUCER</p>	<p>Carpet Reducer (also called Baby Threshold or End Cap) is used to transition floor coverings of differing heights. This reducer is also commonly used to border a fireplace, sliding glass door and other exterior door jambs.</p>
 <p style="text-align: center;">HARD SURFACE REDUCER</p>	<p>Hard Surface Reducer is used to transition to another hard surface flooring of different heights such as tile, vinyl, concrete.</p>
 <p style="text-align: center;">WALL BASE</p>	<p>Wall Base is used to give a finished look at the base of the walls. It can be used with or without Quarter Round.</p>
 <p style="text-align: center;">QUARTER ROUND</p>	<p>Quarter Round is used to cover the expansion space between the Wall Base and your flooring. It can also be used them to make smooth transitions between the floor and cabinetry. It can be used with or without Wall Base molding.</p>

Technical Support

For installation information and technical questions not covered in this installation guide, please contact our Technical Support Representative by calling the toll-free number below.

Toll Free Number: 877-630-1800 or 877-960-8001

Care and Maintenance

Daily Maintenance

1. Sweep, dust mop or vacuum your floor regularly to remove any particles that could cause abrasion or scratch your floor.
2. **CAUTION:** Vacuums with a beater bar or power rotary brush head can damage a floor and should never be used.
3. Use a damp mop to remove spots and soil. Apply appropriate cleaning solution to the cleaning cloth / mop. Do NOT apply directly to the floor.
 - For lightly soiled area, clean with distilled water.
 - For moderately soiled area, use a mild solution of isopropyl alcohol and distilled water. Isopropyl alcohol is commonly referred to as rubbing alcohol and is sold in up to 70% concentrations. This product should be diluted by mixing one-part alcohol and 2 parts distilled water.
 - For tougher spots, use a higher concentration of isopropyl alcohol and distilled water.
 - For extreme cases, acetone and distilled water can be used.

HINT: For best results, clean the floor in the same direction of the planks. When the cleaning cloth/mop becomes soiled, rinse or replace it with a clean one. Following up with a clean, dry cloth will remove residual streak marks and spots.

4. Do NOT leave any amount of liquids (water, juice, soft drinks, spills, etc.) on the floor. Clean any wet spots immediately.
5. Do NOT use a steam cleaner.
6. Do NOT use a wet mop or douse floor with water or liquid cleaners. Liquid can seep between the cracks and cause moisture damage.
7. Do NOT use any cleaning agents containing wax, oil or polish. Left over residue will form a dull film.
8. Do NOT use steel wool or scouring powder which will scratch the floor.

Cleaning with store bought product

- If you choose to use a store-bought product, test the product in a non-conspicuous area (i.e., closet, corner, or scrap pieces) for potential adverse side effects.

Preventative Maintenance

- When rolling heavy furniture or appliances across the installed floor, a protective sheet and/or plywood may be needed to help from scratches and or debris.
- Place protective pads beneath furniture legs and other heavy objects.
- Minimize abrasive material and dirt by placing mats on both sides of exterior doors and by using area rugs in high-traffic areas.
- Rearrange furniture and rugs periodically to avoid uneven color and shade changes from light exposure.
- Use protective mats beneath rolling chairs and keep furniture casters clean.
- Keep pets' nails trimmed.
- Remove shoes with cleats, spikes or exceptionally pointy heels before walking on the floor.

Climate Maintenance

- Care should be taken to control humidity levels within the 35% - 55% range. Flooring, especially hardwood and bamboo, dimensions will be affected by varying levels of humidity.
- Dry Climates: A humidifier is recommended to maintain humidity levels. Wood stoves and electric heat tend to create very dry conditions during the winter months this also will cause shrinkage in flooring.
- Humid, Wet Climates: By using an air conditioner, heater, or dehumidifier proper humidity levels can be maintained to prevent excessive expansion due to high moisture content.

Floor Repair

- Very light and small surface scratches can be repaired with a staining "touch up" pen of the appropriate color.
- Slightly deeper scratches can be repaired by means of colored putty and or stains. Fill the scratches with the putty. Level with putty knife. Wipe off excess putty.
- Very deep scratches may require the replacement of the planks.

Warranty

Home Legend, LLC flooring comes with Limited Wear Warranty. The limited warranties apply to original purchaser of the flooring and are not transferable. For detailed terms of coverage and limitations please contact our Customer Service Department by calling our toll-free number: 1-877-630-1800.

WARRANTY REGISTRATION

PLEASE SEND ALL COMPLETED FORMS ALONG WITH A COPY OF PROOF OF PURCHASE TO CLAIMS@HOMELEGEND.COM OR SUBMIT TO THE ADDRESS BELOW:

HOME LEGEND, LLC
WARRANTY REGISTRATION
P.O. BOX 887
ADAIRSVILLE, GA 30103

NOTE: ONLY 1 REGISTRATION FORM IS REQUIRED. PLEASE KEEP A COPY OF RECEIPT FOR YOUR RECORDS.

Customer Name	
Customer Address	
City, State, ZIP Code	
Phone/E-mail	
Product Model Number	
Product Description	
Date Purchase	
Retailer Name	
Retailer Address	
City, State, ZIP Code	
Installer	