

Engineered Plank Glue & Staple/Nail Down Installation

Waverly Wood Flooring Engineered Plank can be installed over most sub floors, and is engineered to be dimensionally stable, making it suitable for installation above, on, or below grade. See all information and installation guidelines below.

Waverly Wood Flooring's engineered wood floors incorporate state of the art furniture technology using the world's finest hardwoods for lasting beautiful floors.

Preparing the Sub floor

- Sub floor must be clean and dry.
- Radiant Heat Systems cannot exceed 82 degrees F.
- Relative humidity levels should be maintained between 40% and 55%.
- For wood sub floor, it is recommended to repair any loose areas or squeaks.
- The sub floor must be level to within 3/16" in 10 feet. Sand high areas or joints (wood); fill low areas (no more than 1/8") with a "cement type" filler no less than 3,000 p.s.i.
- Concrete sub floors should be tested in several areas; especially near exterior walls and walls containing plumbing.

Testing Sub floor for moisture

Wood Sub floors: Tested with an approved moisture meter in several places, cannot have moisture content above 14%.

Concrete: According to the National Wood Flooring Association you can test for moisture in a concrete slab by securely taping a 2' square piece of polyfilm (plastic sheet) to the slab in 3 to 4 locations. Let the piece of plastic stand for 24 hours. The presence of moisture is certain if, after you remove the plastic, the slab under the removed plastic is discolored, or the plastic is cloudy, and/or especially if water droplets are on the underside of the plastic sheet. If test indicate too much moisture in the slab, do not install hardwood floors. For a moist slab, wait until it dries naturally, or accelerate drying with heat and ventilation and test again. This is only one way to test for moisture in the concrete slab, contact a hardwood installation professional for other suggested ways of checking for moisture.

Calcium Chloride (CC) tests and approved moisture meters are also excellent ways to determine the level of moisture in concrete. Allowable moisture level is 3 lbs. per 1,000 square feet per 24 hours using the CC test.

Concrete sub floors should be tested for moisture in several areas; especially near exterior walls and walls containing plumbing. Moisture meters like the Wagner and the Tramex should read no higher than 5%.

Tools & Accessories

Hand or Jamb Saw	Measuring Tape	Power Circular Saw
Pry bar or Pull Bar	Safety Glasses	Tapping Block
Hammer	¼" Wood Wedges (spacer Strips)	

Preparing the Jobsite

- Before installing any Waverly Wood Flooring product, central heat or air conditioning should be operating for a minimum of 14 days.
- Waverly Wood Flooring product should be stored in a flat position.
- Do not open packages until the day you are ready to begin installation. This prevents the T&G system from potentially absorbing too much moisture and causing a tight fit.
- Remove existing moldings.
- Undercut doorjamb with hand or jamb saw to allow for ease of installation and ½" expansion space in all directions.
- This flooring is designed to be installed working from right to left.

NOTE: Eliminate cutting short pieces at the end of each row. Accomplish this by measuring the length of the room and divide it by 48" (the length of the planks). If it appears you will be using a piece shorter than 6" at the end of a row then cut the first board at the starting wall to allow for a longer piece at the end. You do not want to have a row narrower than half the width of the planks along the last wall. You may need to rip the first row to allow for the flooring to be moved so the last row will not be too narrow. Remember to allow for 1/2" expansion along the walls.

Responsibility of the Installer and/or Owner

Waverly Wood Flooring believes that the grading of its products are the highest in the industry. However, the National Wood Flooring Association recommends to all its member manufacturers that an installer should figure an additional 5% of material to allow cutting waste and for minor natural or manufacturing defects.

- The floor installer must determine before installation that the condition of the sub floor meets or exceeds the conditions outlined in this instruction sheet.
- Waverly Wood Flooring will decline any responsibility for job failure resulting from or associated with sub floor or job site environment deficiencies.
- The floor installer assumes all responsibility for final inspection of product quality before installation. The installer should pull out and not install products with notable defects.
- Use of filler or putty stick for defect correction should be accepted as normal procedure.
- During installation, you should open a few cartons of product ahead of your progress and mix them to insure even color and shade mixture.
- Check instructions and trowel recommendations on the adhesive container. This will ensure proper adhesive spread and allow for adequate "bridging" characteristics.
- Improper adhesive spread may result in either "puddling" of adhesive, or too little adhesive. Both conditions can lead to adhesive failure and a loose floor.

Preparation

Remove all molding and wall-base and undercut all door casings with a hand or power jam saw using a scrap piece of flooring as a guide.

Racking the Floor:

Whether you choose to install the floor with glue, nails, or staples start by using random length planks from the carton or by cutting four or five planks in random lengths, differing by at least 6" for the 3" wide planks and 10" for the 5" planks. As you continue working across the floor be sure to maintain the 6" minimum between end joints and adjacent rows. Never waste material; use the left over pieces from the fill cuts to start the next row.

NOTE: When installing a pre-finished wood floor be sure to blend the wood from several cartons to ensure a good grain and shading mixture through out the installation.

For The Glue down Method

Mark the Starting Line:

Snap a chalk line with the appropriate distance from the wall to provide a work area and allow for wall irregularity when laying the last board. Check to make sure the line is parallel to the opposite wall. We recommend racking out two or three rows in advance to ensure all end joints in adjacent rows are at least 6" apart and the last piece in each row is no shorter than 6". Stagger joints to present a random presentation rather than developing a pattern in the floor.

Spreading the Adhesive:

Hold trowel at 45 degree angle (approx.) and spread the adhesive while holding the trowel firmly to the floor. Once the adhesive is spread over an area you can comfortably work in, allow the adhesive to "skin over" or come to the point where you can touch it and none comes off on your hand (depending on the temperature and humidity). The skinning over is commonly referred to as flash time.

Check the Adhesive container for suggestions.

Laying the Flooring:

- The first row should be set in the adhesive with the edge of the tongue along the chalk line.
NOTE: Some installers will tack-nail a starter strip on the dry side of the line to prevent the starter row from “traveling” in the adhesive as you pull the next row into the adjoining one.
- Do not walk off of the newly installed flooring unless a piece of carton board is used as a “kneeler board” to work from (this will keep the board from being pushed out of place). When you reach the far wall, make any lineal cuts in width so as to leave ½” areas for expansion.
- Continue installing the rows in this manner. Use a short piece of flooring to top the boards together. Place the short piece upside down with the tongue in the groove of the board being installed. Top with hammer and then lightly tap the side of the piece to dislodge from board.
- Remove your starter strip; spread adhesive in this area and install the remaining rows.
- Avoid floor traffic and moving furniture into room for 24 hours.

Completing the Job:

- Waverly Wood Flooring provides a full line of trim and molding pieces to add the finishing touch. All trim and molding pieces are pre-finished to blend with your newly installed floor.
- Either pre-drill molding pieces for ease of installation or use pneumatic face nailer.
- Moldings should be nailed to the wall and not to your newly installed floor.
- Refer to Waverly Wood Flooring’s “Protecting and Caring for Your Floor”.
- Minor damage can be repaired with the recommended Touch-Up Kit. Major damage may require a board replacement, which can be done by a professional installer.

Staple or Nail Down Installations

Waverly Wood Flooring Engineered hardwood floors may be installed over wood sub floors using staples or nailing cleats.

When installing Waverly Wood Engineered wood planks or strips by nailing or stapling, it is necessary to use the proper type of Flooring stapler or nailer.

Caution: Improper use of a power nailer can mark the surface of the flooring.

Recommended Nailers:

For 3/8 flooring: Spot nail FS 4825 Pneumatic Stapler with 1 ¼” staples @ 75-80 p.s.i.

For 3/8” & ½” flooring:

- Primatech #600-1 Nailer with 1” (25mm) nails.
- Bostich #S3297 (floor runner) Pneumatic Stapler with 1” staples.

For ¾” flooring:

- Stanley Bostich M III Stapler
- Port a Nailer
- Power Nailer

15 lb. Felt/building paper

Caution: Waverly Wood Flooring has tested the above recommended tools. Other staplers, staples, nailers and cleats may work as well however, since they are not currently recommended if their use damages or fails to properly secure the flooring the responsibility is the installers and not Waverly Wood Flooring.

Step 1

You must staple or nail 1” – 2” from the ends and every 4”-6” along the edges. This will help insure a satisfactory installation. It is best to set the compressor PSI at 80-85 lbs to keep the staples from going through or breaking the tongues. Improper stapling techniques can cause squeaks in the floor.

Adjustments may be necessary to provide adequate penetration of the nail or staple into the nail bed. You want it flush in the nail pocket. Use a scrap piece of flooring materials to set tools properly before installation.

Before installation of the engineered flooring begins, install a 6-mil polyethylene layer over the sub floor. This will retard moisture from below and may help prevent squeaks. Keep in mind there is no complete moisture barrier system for staple or nail down installations.

NOTE: 15 lb. roofing felt or resin paper may be substituted for the polyethylene and installed as below.

Lightweight concrete

Lightweight concrete that has a dry density of 100 lbs. Many products have been developed as self-leveling toppings or floor underlayments. These include cellular concrete, resin-reinforced cementitious underlayments, and gypsum-based materials. Although some of these products may have the necessary qualifications of underlayment for wood installations, others do not.

To test for lightweight concrete, scrape a coin or key across the surface of the sub floor. If the surface powders easily or has a dry density of 100 lbs. or less per cubic foot, use the floating installation method.

Wood sub floors

Wood sub floors need to be well nailed or secured with screws. Nails should be ring shanks and screws need to be counter sunk. The wood sub floor needs to be structurally sound and dry. They should not exceed 14% moisture prior to installation. If the sub floor is single layer, less than 3/4" thick, add a single cross layer for strength and stability (minimum 5/16" thick for a total 1" thickness). This is to reduce the possibility of squeaking. Wood sub floors must be free of paint, oil, existing adhesives, wax grease, dirt and urethane, varnish etc. Underlayment grade OSB (not the wax side) is also suitable on sub floors.

Particleboard is not an acceptable sub floor for staple or nail down installations but can be used as a sub floor in glue down installations. When installing over existing wood flooring, install at right angles to the existing floor.

Radiant Heated Sub floors

Before installing over a radiant-heated floor turn down the heat and wait until the floor has reached room temperature. After installing the floor return the heat slowly to the previous setting.

Full Residential Lifetime Warranty

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We are pleased to offer you the following full residential Lifetime Warranty, which covers all Waverly Wood Flooring products installed using recommended installation methods, maintaining using recommended floor care procedures under proper humidity conditions within your home for as long as you own your home. The Full Residential Lifetime Warranty is extended to the original purchaser(s) of Waverly Wood Flooring, for as long as they own their homes. It warrants only product applications (not installation methods) that are approved by Waverly Wood Flooring.

Waverly Wood Flooring

Waverly Wood Flooring warrants you, the original purchaser of the Waverly Wood Flooring hardwood floor, that your Waverly Wood Flooring Hardwood Floor will be free from defects of material or workmanship for as long as you own your home. That means your Waverly Wood Flooring floor was graded, measured, milled, assembled and quality control inspected in our plant and that it was manufactured to our specifications and industry standards when we shipped it. Once it is installed properly in your house, it will stay that way for as long as you own your home.

AO-SK Finish

Waverly Wood Flooring warrants that your AO-SK is a wear surface that will last under normal residential or light commercial conditions; for a period of 25 years for residential use, or a period of 5 years for light

commercial use from date of purchase, as long as you follow all the Protecting and Cleaning Your Hardwood Floor guidelines.

Adhesive

Waverly Wood Flooring warrants that when you properly install any Waverly Wood Flooring product exclusively with the recommended wood flooring adhesive, using installation procedures, it will maintain a bond for a lifetime. Proper installation procedures must include both pre-installations for sub floor moisture conditions (if the condition exists, special installation steps would be required) and use of prescribed installation methods. Adhesive breakdown caused by water from broken pipes, flooding or excessive sub floor moisture due to abnormal rain levels, is excluded from this warranty.

Information on Filing a Claim

To file a claim, you must first contact the company where your original purchase was made. If they are unable to satisfy the claim, contact by letter: Waverly Wood Flooring, 5894 New Jesup Hwy., Brunswick, Georgia, USA 31525, Attn. Claims Department. Waverly Wood Flooring will send a form that needs to be completed and returned for processing. Waverly Wood Flooring reserves the right to have a representative inspect the floor and remove samples for additional evaluation if needed.

Warranty Exclusions

If your Waverly Wood Flooring develops indentations scratches or damages which are caused by neglect, water, erosion, pebbles, sand, other abrasives, misuse, abuse, insufficient protection, insects, pets and spiked heel shoes, failure to follow Waverly Wood Flooring's written installation instructions, improper maintenance, not maintaining proper humidity conditions, improper alterations of the Waverly Wood Flooring, then any Waverly Wood Flooring warranty will no longer apply. Damage due to water saturation such as leaky faucet, broken pipe and wet mopping is excluded from the Waverly Wood Flooring warranty. Maintaining proper humidity is necessary-please refer to the product installation instructions for suggested range. If minor separations occur due to seasonal humidity changes, they are not covered by this warranty. Waverly Wood Flooring reserves the right to determine, with sole discretion, whether any item hereunder is defective or subject to exclusion noted hereby.

Waverly Wood Flooring Full Lifetime Warranty does not apply to any product or products designated or sold as "B: grade, cabin grades, seconds, closeout or nonstandard items so marked or designated. Any product or products so designated as sold "as is" and the Waverly Wood Flooring Full Lifetime Warranty does not apply.

The above warranties are the complete and exclusive statement of Waverly Wood Flooring Warranties, and are expressly offered in lieu of all other express and/or statutory warranties including the implied warranties of merchantability and fitness for a particular purpose.

Waverly Wood Flooring assumes no liability for incidental or consequential damages. Some states do not allow the exclusion of limitation for incidental or consequential damages. In that case, these exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Waverly Wood Flooring may repair, refinish or replace any defective product at its sole discretion. As the sole remedy provided by this warranty, any attempt to repair, replace, or refinish prior to Waverly Wood Flooring's optional inspection will void this warranty. No installer, retailer, agent or employee of Waverly Wood Flooring has the authority to increase or alter the obligations or limitation of this warranty.