

Visual Artisan Floors

ENGINEERED WOOD FLOOR INSTALLATION GUIDELINES

PLEASE READ THE ENTIRE INSTALLATION INSTRUCTIONS BEFORE PROCEEDING WITH THE ACTUAL INSTALLATION

IMPORTANT

It is important that you read & understand the following information and instructions in their entirety before proceeding with installation. Please thoroughly inspect all Flooring products in each carton before installing the product. Visual Artisan Floors is not responsible for any labor or damages incurred by delivery delays, wrong product, incorrect installation or unacceptable jobsite conditions.

Engineered hardwood flooring is a beautiful product with natural variations in color, tone and grain. Therefore we cannot warrant against color variations within a floor or variations between samples and the installed floor. Samples should be representative of the wood species & grade and show the milling quality of the product. Color variations may increase over time with natural exposure to light and air, exotic woods tend to show this more.

Do not open the flooring packages until you are ready to begin installation. Work out of several cartons at the same time to ensure color and shade mix.

OWNER/INSTALLER RESPONSIBILITY

Our wood floors are manufactured in accordance with a defect tolerance not to exceed 5-7%. The defects may be manufacturing or natural. When flooring is ordered 5-7% must be added to the actual square footage needed for cutting and grading allowance. The installer assumes all responsibility for final inspection of product quality. This inspection of all flooring should be done before installation. Carefully examine flooring for color, manufacturing, factory finish and quality before installing it to ensure it meets the grade ordered and customers' expectations. The installer must use reasonable selectivity and remove or cut out pieces with defects, whatever the cause. Slight bowing is acceptable prior to installation and will be eliminated upon laying the next row down without hampering final installation results.

If material is not acceptable, do not install it and contact the seller immediately. Prior to installation of any hardwood flooring product, the installer must determine that the job-site environment and the jobsite sub floor meet or exceed all applicable standards for being structurally sound and environmentally acceptable. The construction site and subfloor must be clean, dry, flat and structurally sound. The manufacturer declines any responsibility for failure or deficiencies of the flooring resulting from or associated with subsurface or jobsite environmental conditions.

TOOLS & EQUIPMENT NEEDED FOR INSTALLATION

- Table
- Handsaw
- Circular or jigsaw
- Tape measure
- Chalk line and chalk
- Pull bar
- Hammer
- Tapping block
- Wooden or plastic spacer wedges
- Moisture Meter (can be rented)
- Broom and dust pan
- Vacuum cleaner
- Ear plugs safety glasses and dust mask
- Power nailer or stapler
- Electric drill and bits

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CAUTION: By not using proper tools, damage may result on the face and edge of the plank. Visual Artisan Floors Floors is not responsible for problems caused by use of improper tools. Note: Never hit the planks directly with a hammer—always use a tapping block to protect the edges of the boards.

PRE-INSTALLATION PROCEDURES & JOBSITE CONDITIONS

For conditioning the hardwood flooring, the HVAC systems should be fully operational at least 14 days prior to flooring installation, maintaining a consistent room temperature between 60° – 80° F with relative humidity between 40 - 55%. This not only stabilizes the building's interior environment, but also is essential when conditioning hardwood flooring to the job site. Hardwood flooring should be handled and unloaded with care and stored within the environmentally controlled site as recommended above. Flooring stores should be laid flat, not upright and if you have concrete subfloors they should be elevated at least four inches to allow air circulation under cartons. Leave hardwood flooring in closed cartons for as long as necessary to fully acclimate to site conditions. Always measure and keep a written record of relative humidity, moisture content of sub floor and moisture content of flooring just prior to installation.

Room Preparation

Remove existing baseboards and thresholds. Undercut door jambs and other wooden elements attached to walls using a piece of flooring material as a guide allowing for new flooring planks to slide under them. Remove or countersink nails and staples in the subfloor. Secure any loose or squeaking subfloor boards, replace if required prior to installation of new flooring.

Pre-installation Inspection

It is the responsibility of the installer to inspect each board for visible defects before installation of the flooring. If the defective.

Sub Floor Preparation

SUBFLOORS MUST BE:

- **CLEAN**-Scraped or sanded,swept, free of wax,grease,paint,oil,previous or existing glues or adhesives,and other debris.
- **SMOOTH/FLAT**-Within 1/8" on 6' radius. Sand high areas or joints, fill low areas (no more than 1/8") with a cement type filler no less than 3000 psi. Follow the instructions of the leveling compound manufacturer, but make certain the leveling compounds are completely dry before beginning installation. Any irregularities may cause hollow spots between the flooring and subfloor in any installation method and are not warranted.
- **STRUCTURALLY SOUND** - Nail or screw any loose areas that squeak or show movement. Replace any delaminated or damaged subfloor or underlayment. Avoid subfloors with excessive vertical movement. If the subfloor has excessive vertical movement or deflection before installation it is likely it will have deflection after the flooring is installed.
- **DRY** - Check and document moisture content of the sub floor using appropriate moisture tests. All moisture testing must be performed & documented before and after the flooring has been acclimated at least 48 hours and job site requirements met.

It is recommended to moisture test your subfloor prior to installation.

Wood subfloor moisture content should not exceed 12% and the moisture content of the wood should be within 4% of the subfloor moisture content.

Concrete subfloor tested with a calcium chloride test should not be greater than 3lbs moisture vapor per 1000 SqFt of area. If over 3 lbs moisture vapor per 1000 SqFt, a high quality moisture barrier system

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is required to block vapor transmission. If it is over 7 lbs moisture vapor per 1000 SqFt then you should NOT install the flooring. The concrete must be cured a minimum of 30 days prior to testing.

DO NOT install the flooring if these limits are exceeded.

Visual Artisan Floors Floors flooring can be installed over the following subfloors if properly prepared:

Concrete: On, above or below grade installations are acceptable. Must be clean, dry and flat within 3/16" (4.8 mm) over 10' (3.1 m) or 1/8" (3.2 mm) over 8' length. All concrete subfloors must be tested for moisture content, especially adjacent to exterior walls and plumbing fixtures. For on or below grade slabs, determine if a moisture barrier of 6 mil poly film between the earth and concrete is present. If unacceptable moisture levels exist, install sheet vinyl (PVC) directly to the concrete slab. Follow instructions from sheet vinyl manufacturer, using a premium grade alkaline resistant adhesive and full spread application system to bond vinyl to subfloor. Or a single component full spread, trowel applied moisture vapor retarder similar to Bostik MVP or Sika T21 or equivalent must be used to bring slab below 3 lbs MV per 1000 sqft.

Terrazzo: Should be cleaned with mineral spirits and lightly sanded/abraded prior to spreading the adhesive. Allow the mineral spirits to dry prior to spreading the adhesive.

Ceramic Tile: Tiles must be securely fastened to the subfloor. If grout lines are too deep they need to be filled. If using glue-down installation, the surface should be roughed up with a sander or grinder and cleaned to remove all dust. If grout lines are too deep they need to be filled.

Wood Type Subfloors: Plywood: minimum 5/8" thick with maximum spacing 16" on center joist construction or 3/4" thick with maximum 19.2" on center joist construction. OSB: minimum thickness 23/32" OSB with maximum spacing 19.2" on center joist construction. Particle Board: Floating installation is only permitted. Squeaks and popping areas should be repaired prior to flooring installation on all wood subfloors.

Vinyl: Includes sheet and vinyl tile. Vinyl must be securely fastened to the subfloor with full spread adhesive. Loose laid or perimeter glued sheet vinyl must be removed. Do not install over more than one layer that is thicker than 1/8".

Glue-down installation is not recommended over vinyl since light sanding would be required and existing vinyl may contain asbestos fibers that are not identifiable. Inhaling asbestos dust is extremely hazardous to your health. Ensure the proper care is taken for removal of this product as well.

Moisture Barrier

All concrete subfloors must be tested for moisture content, especially adjacent to exterior walls and plumbing fixtures. For on or below grade slabs, determine if a moisture barrier of 6 mil poly film between the earth and concrete is present. If unacceptable moisture levels exist, install sheet vinyl (PVC) directly to the concrete slab. Follow instructions from sheet vinyl manufacturer, using a premium grade alkaline resistant adhesive and full spread application system to bond vinyl to subfloor. Or a single component full spread, trowel applied moisture vapor retarder.

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Set Up

In order to have sufficient material at hand, calculate area and add 5% of material to allow cutting waste and for minor natural or manufacturers defects. Work out of several cartons at the same time to ensure color and shade mix.

Layout

Layout should be designed to save labor and materials as well as to enhance the appearance of the floor. The floor will be stronger and more stable if you lay it so that the joints in the rows are staggered at least 8" (203.2 mm). Staggered or irregular joints mean less material waste and a better overall appearance. Plan the layout so that the last row of flooring (which usually needs to be cut lengthwise) is not too narrow. In some cases, it may be necessary to cut the first row as well as the last row. Allow 1/2" (12.7 mm) expansion space along all walls. Flooring should be laid at right angle to the floor joist and, if possible, in the direction of the longest dimension of the room.

NAIL-DOWN OR STAPLE-DOWN INSTALLATION

Subfloor Preparation

Remove all dirt and rough areas by thoroughly cleaning, sanding and flattening the subfloor. Note: Particle board is not a suitable subfloor for nail-down or staple-down installation. The clean subfloor should be covered wall-to-wall with 15 lb. (6.8 Kg) resin paper, overlapping 4" (101.6 mm) along the edges.

Installation

To determine a straight first starting row, use a snap line the width of a few boards plus 1/2" (12.7 mm) expansion space from the wall. To keep first rows straight and in place, nail a straight 1 x 2 or 1 x 4 "holding board" on the first snap line, being sure to maintain the straight line. For nailer or stapler, use the correct shoe based on the thickness of flooring. If using pneumatic fasteners, set the compressor pressure to recommended PSI and adjust accordingly using a "practice" board. Check for surface and tongue damage before proceeding with installation. Begin installation with several rows at a time, tightening boards as necessary to reduce gaps before fastening. Attach each board placing fasteners; narrow crowned (under 3/8" or 10mm) 1"-1½" (25-40mm) staples or 18Ga 1"-1¼" (25-32 mm) hardwood flooring cleats "L" designed for engineered flooring, spaced every 3"-4" (75-100mm) with staples, every 4"-6" (100-150mm) with cleats, and within the 1"-2" (25-50mm) area of end joints. The last 1-2 rows will need to be face nailed where clearance does not allow blind nailing with stapler or nailer.

Installation Instructions

Rip the final row to fit and face the nail. If the final row is less than 1" (25.4 mm) width, it should be edge-glued to the previous row, before installation. The two joined rows can be face nailed as one board. Go back to the starting wall, remove the starting block and complete the final rows using 2" (50.8 mm) 6d nails, countersunk and filled.

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GLUE-DOWN INSTALLATION

- Urethane based adhesive is required.
- Concrete subfloor tested with a calcium chloride test should not be greater than 3 lbs per 1000 SqFt of area. If over 3 lbs per 1000 SqFt, a high quality moisture barrier system is required.
- To determine a straight first starting row, use a snap line the width of a few boards plus 1/2" (13 mm) expansion space from the wall. To keep first rows straight and in place, nail a straight 1 x 2 or 1 x 4 "holding board" on the first snap line, being sure to maintain the straight line.
- Make another snap line at a comfortable "arms reach" distance from the holding board about 24" (609.6 mm) or multiples of the width of flooring to a maximum of comfortable "arms reach".
- Spread adhesive in the first working area. Do not spread more adhesive than can be covered within 20 minutes. Install the flooring with the tongue against the holding board continuing along the edge maintaining a straight edge. Continue row to row taping seams as required using 3M Blue Tape.
- When the first section is complete, strike another parallel snap line from the last row installed, spread the adhesive and complete the section.
- Repeat section by section until the job is finished. Remove the starting board, spread adhesive and complete the area from the starting board to the wall.

FLOATING INSTALLATION

Install Underlayment Pad:

Install 6 mil Polyethylene vapor barrier over the entire flooring surface. Run vapor barrier up walls 2" to 3" (50 mm to 75 mm) and secure in place with tape. Overlap sheets of Polyethylene 16" and tape together creating an airtight seal. Apply underlayment over vapor barrier being careful not to poke holes or otherwise damage material during installation. Join padding sections with tape strips and tape down any additional loose edges. A "2-in-1 or 3-in-1" underlayment /moisture barrier may be substituted for two separate products listed above.

Installing the Boards:

Boards are installed left to right with the groove side facing the wall. Avoid establishing a stair-step pattern that will be repeated throughout installation. Stagger the ends of the boards a minimum of 8" (203.2 mm). Leave a minimum 1/2" (12 mm) expansion around all vertical objects such as walls, posts, and stairs. If the starting wall is uneven, trace the contour of the wall, using a scribe, onto the first row of planks and cut to size.

Application of Adhesive:

For T&G products only do not apply adhesive to locking systems. To secure a durable wood floor the boards must be bonded with adhesive in the tongue and groove. We recommend waterproof PVA glue (Titebond Tongue & Groove Glue) that is engineered for floating floors. The glue must be applied in a continuous 1/8" (3.2 mm) bead on the inside top of the groove on both the long and short edges. Dry fit first row avoid using a stair-step pattern. Number each plank in the order of installation. When you reach the last plank in first row, turn plank 180° so tongue is flush against tongue of previous plank. Mark the plank and cut to length. Dry fit final plank of row. Begin dry fitting the second row, starting with (if possible)

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leftover pieces from the previous row. Be sure to stagger end of boards at least 8" (200 mm). Floating installation is completed by gluing and taping flooring profiles together. Separate first two rows noting installation order. Holding the first board with the tongue resting in the palm of your hand, apply a thin bead of glue in the groove on the side and end of the board. Repeat process with subsequent planks. Press each board firmly together, tapping profiles lightly with a block and hammer if necessary. Clean excess glue from between boards with a damp cloth. Tape each board together at side and end seams using 3M Blue Tape. Often the last row will not end with a full plank. When this happens, place a full row of planks on top of the last row installed. Insert a 1/2" (12 mm) spacer against wall, and using a full width plank, trace distance from wall onto final row. Cut planks for final row to designated width. Apply glue and fit into place. Tape may be removed within one hour. Allow 12 hours before placing furniture on floors and 24 hours before introducing heavy objects or full traffic.

Note: Do not install cabinets or walls on top of floating floors.

INSTALLATION OVER RADIANT HEAT

Important Note: Brazilian Cherry flooring is NOT supported for installation with Radiant Heat systems.

- Heating System maximum allowable temperature is 80° F (26° C).
- The subfloor should be completely dry and cured for a minimum of 4 weeks prior to operation of the radiant system.
- System should run at normal temperature (typically 2/3 maximum output) for a minimum of 21 days prior to floor installation to further allow moisture from concrete to dissipate and reach final moisture content reading.
- The heating system must be turned off 24 hours prior to installation and must remain off for 24 hours after installation.
- Starting 2 days after completion of installation, gradually increase the temperature over a 7 day period to normal operating level. Never allow the floor surface temp to exceed 80° F (26° C).
- Room temperature should not vary more than 15° F (9 °C). Maintain 40 to 55% humidity in radiant heated rooms.
- Heating pipes must be covered with 1" of concrete or be a minimum of 1/8" (3.2 mm) below the bottom of the plywood subfloor.
- Under plywood subfloors heat transfer plates or insulation must be in place.
- Use Installation Instructions previously listed. For floating floors, the use of a 2-in-1 underlayment is required.

Maple flooring expands and contracts more than other wood types, especially when installed over radiant heating systems. You should allow for a larger expansion gap than other wood species – minimum 3/4 " - around all vertical objects such as walls, poles, and stairs expansion. Such gaps are not manufacturing defects. Take the above into consideration when choosing a wood type to be installed over radiant heat.

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ALL INSTALLATIONS: COMPLETING THE JOB

- Remove spacer wedges after waiting a minimum of 12 hours after installation.
- At completion of the installation, vacuum thoroughly and clean the floor with proper wood flooring cleaner on a soft cloth mop. Then wipe the surface clean to remove loose dirt or soil.
- Use stain, filler or a putty stick to touch up pieces that may have been damaged during installation or any defective pieces that were installed.
- Install any transition pieces that may be required, such as reducers, T-moldings and stair nosing.
- Keep several spare boards from the installation in the event of future repairs.