

CALI[®] hardwoods

barrel | whiskey&wine | cellar | reserve



Hardwoods Whiskey & Wine: Spiced Wine Bodega

Installation Guide

(888) 788-2254
CALIFloors.com

Flooring System

Barrel



Wide T&G

Plank Dims:
Random Length up to 74¾"
L x 7½" W x 1/2" H

Whiskey & Wine



Wide T&G

Plank Dims:
Random Length up to 86¾"
L x 8¾" W x 1/2" H

Cellar



Wide T&G

Plank Dims:
Random Length up to 82¾"
L x 7-¾" W x 1/2" H

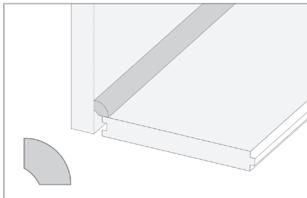
Reserve



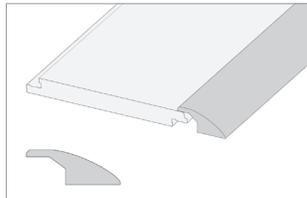
Wide T&G

Plank Dims:
Random Length up to 74¾"
L x 6½" W x 1/2" H

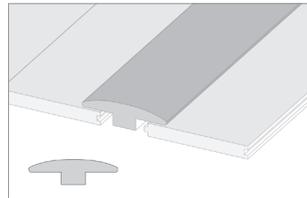
Flooring Accessories



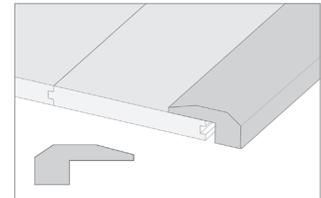
Quarter Round



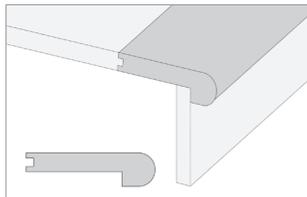
Overlap Reducer



T-Molding



Threshold



Stair Nosing

T&G Hardwoods Barrel, Whiskey & Wine, Cellar, and Reserve Hardwoods Installation

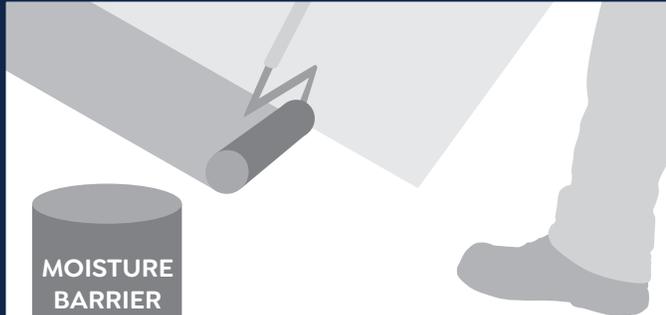
Before you begin installation, remember to P.A.C.E. yourself with the checklist below. Full installation instructions and maintenance guidelines can also be found online at www.CALIFloors.com

P **A** **C** **E**

PREPARE THE SUBFLOOR

P **A** **C** **E**

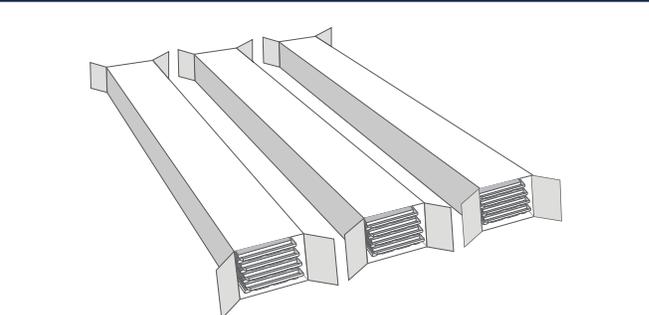
ACCLIMATE FLOORING



MOISTURE BARRIER

Use a Moisture Barrier on Concrete

The subfloor must be dry, fully cured and free of hydrostatic pressure. See instructions below regarding moisture testing your subfloor. A moisture barrier such as Titebond 531 over concrete may be necessary. Make sure the subfloor is flat, level, clean and free of debris. Test the subfloor for porosity and alkalinity, and complete a material bond evaluation. *Failure to properly prep subfloor may affect adhesive bond, result in telegraphing, and/or cause the floor to fail. CALI is not responsible for adhesive failures or floor failures due to improper subfloor prep.*



Acclimate Your Engineered Flooring For 72 Hours

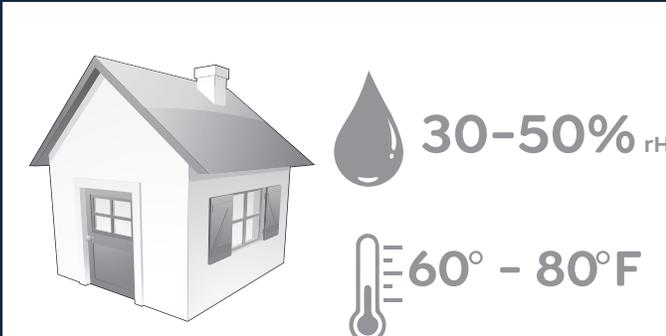
For Engineered flooring, lay boxes on the floor and only open box ends as shown above. Acclimate your floor as close to the installation area as possible, for 72 hours in normal living conditions.

P **A** **C** **E**

CONTROL ENVIRONMENT

P **A** **C** **E**

EXPANSION GAPS

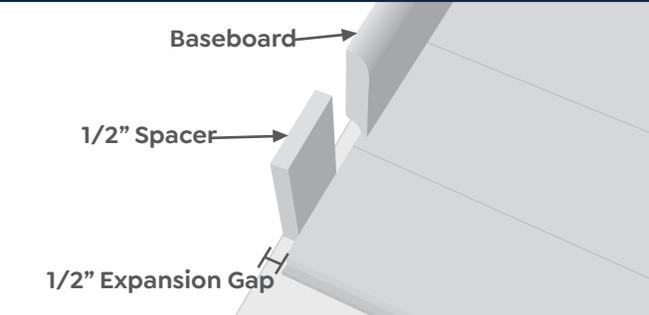


30-50% rH

60° - 80° F

Engineered flooring can be used in areas ranging from 30% to 50% relative humidity.

Engineered flooring can be used in temperatures ranging from 60° to 80° degrees.



Baseboard

1/2" Spacer

1/2" Expansion Gap

Leave at least 1/2" expansion spaces between flooring and ALL vertical objects (walls, cabinets, pipes, etc.) Large flooring runs may require additional expansion space. For floating floors, use transition moldings between rooms and doorways 3ft. or less. Undercut door jambs and casings to provide adequate expansion space. Do not screw or nail cabinetry or other permanent fixtures to a floating floor.

Pace does not outline all requirements for installation. To find all requirements, please refer to guide below.

Pre-Installation

Proper installation and maintenance are key elements in achieving best flooring results. It is the responsibility of the installer/owner to follow all guidelines provided by CALI for success. **Please read through this document completely, additional installation materials such as videos, illustrations and more can also be found at www.CALIfloors.com.**

Important Pre-Installation Notes

Note: Flooring not used for its intended purpose will not be covered under warranty.

The following information provided by CALI is intended to serve as general guide and may not cover all site specific situations. Please carefully read CALI's installation, maintenance and warranty documentation prior to installation.

CALI offers in house technical support as a courtesy to our customers. Consult with one of our flooring experts to find answers to your specific installation questions unique to your application. Contact us by email: customerservice@CALIfloors.com; or by phone: 1(866) 799-1006 ext. 1.

- Determine the best installation method that suits your application. CALI floors may be glued, nailed or floated with tongue & groove glue. Follow a suitable installation method for your project.
- Upon ordering of wood floor material consider adding an additional 8% to allow for cutting waste (5%) and grading allowance (3%).
- CALI flooring is manufactured in accordance with accepted industry standards, which permit manufacturing, grading and natural deficiencies not to exceed 5%. If more than 5% of the material is unusable, do not install the flooring. Immediately contact the distributor/retailer from which the flooring was purchased. No claim will be accepted for materials with visible defects once they are installed. Installation of any material serves as acceptance of the material delivered.
- Installer/Owner assumes all responsibility to inspect all flooring before installation. Boards deemed unacceptable in appearance can be placed in closets, near walls or simply not be used. Pieces with glaring defects that can be seen from a standing position should be cut off or not be used as use constitutes acceptance. The use of putty, filler sticks or markers to touch-up flooring during installation is considered normal practice.
- Because wood is a natural product, natural variations in color may occur within and between individual flooring planks. During installation, work from several cartons at a time to achieve a uniform appearance across the entire floor. Mix and mingle planks when dry laying the floor for best appearance. Blend moldings to planks that have similar color. Natural variations in color are not covered under warranty.
- It is the responsibility of the installer/homeowner to determine if the job site conditions, environmental conditions and sub-floor are acceptable for the installation of CALI flooring. CALI does NOT warrant against failure resulting from or connected with subfloor, job site damage, or environmental deficiencies after installation.
- CALI makes no warranty or guarantee of the quality of the chosen installer's work or of a particular installation performed by him or her. CALI disclaims all liability for any errors or improprieties in the installation of its products by an installer.
- **Controlling flooring moisture content is important for success. All hardwoods flooring is hygroscopic; its size and shape changes naturally with the absorption or release of moisture. The amount of movement varies depending on the preventative steps taken at the time of installation (i.e. acclimation, moisture barrier application, etc.) and the stability home environment thereafter. Care should be taken to control fluctuating levels of moisture indoors. CALI Hardwoods will perform best when the indoor environment is controlled to stay within a temperature range of 60° to 80° and 30%-50% humidity.**
- Floor noise is normal and will vary from one installation type to the next. Occasional noise is due to structural movement and may relate to sub-floor type, flatness, deflection, and/or related to the fasteners, changes in environmental conditions, relative humidity and the amount of topside pressure applied to the flooring. For these reasons floor noise is not considered a product or manufacturer defect.
- CALI engineered flooring is intended for installation above, on or below grade. For optimal performance below grade, the glue down method is highly recommended.
- 3M blue painter tape #2080 can be used to keep rows or sections of floor boards together until the adhesive has cured. (Incorrect or aggressive tape can harm the finish, do not leave on overnight.)



Job Site Preparation

Prior to installation, it is the installer’s responsibility to determine that the jobsite, environment and subfloor conditions all meet the requirements outlined in this guideline. Do not deliver flooring to jobsite until the building has been enclosed with windows and doors, all cement, plastering, and other “wet” work has been completed, and a consistent room temperature has been reached. Confirm proper drainage exists around the structure. HVAC system should be operational for at least two weeks prior to flooring being delivered. In crawl spaces, exposed earth must be fully covered with minimum 6-mil polyethylene sheeting. Crawl space vents must be open. A moisture retardant such as 6 mil polyethylene film must be placed in crawl spaces. Heating units or non-insulated ductwork close to the flooring or subfloor may cause “hot spots” which must be eliminated prior to installation.

During installation, it is the installer’s responsibility to document all jobsite conditions and measurements including the installation date, flooring moisture content, site relative humidity, temperature, and subfloor moisture content.

Delivering to Jobsite:

- Building must be enclosed with windows & doors
- Cement, plastering and other wet work must be completed
- Consistent room temperature has been achieved
- Confirm proper drainage exists around the structure
- HVAC system should be turned on and functioning 5 days before

Subfloor Requirements

General: Subfloor must be structurally sound and meet all NFWA guidelines. All subfloors must be flat to a tolerance of 3/16” in a 10’ radius. Use appropriate leveling products for correcting subfloor deficiencies. Subfloor surfaces must be smooth, clean, dry and free of contaminants that would interfere with an adhesive bond. All subfloors should be tested for moisture content (see “Subfloor Moisture Testing”). If high moisture readings are found, identify the moisture source and correct the problem before installation. Do not install flooring directly over floor joist without proper subflooring.

Appropriate Wood Subfloors Materials:

- CD Exposure 1 plywood (grade stamped US PS1-95)
- OSB Exposure 1 subfloor panels (grade stamped US PS1-95)
- Solid-board subflooring should be ¾” x 5½” (1” x 6” nominal), Group 1 dense softwoods, No. 2 Common, kiln dried

Concrete Subfloors: Subfloor must meet all above requirements. Concrete must be fully cured and at least 60 days old. Concrete must be free of dirt, oil, paint, old adhesive, wax, sealers and curing agents. Concrete that is not properly leveled can cause improper adhesive transfer, hollow spots, and squeaks. Sand or grind down high spots. Level low spots with appropriate leveling material; allow extra drying time for the leveling compounds. Test subfloor moisture content. To minimize moisture transfer from the slab, apply: Titebond 531+ Moisture Control System.

Moisture Testing Subfloor

General: Test the subfloor for moisture content before installation. If high moisture readings are found, identify the moisture source and correct the problem. Extend acclimation time and increase ventilation until the proper conditions have been met. Apply a moisture barrier. Please note that test results are only applicable the day of testing and will not ensure that moisture will not fluctuate with seasonal changes. Regardless of subfloor moisture content, the use of a moisture barrier is required for all installations. CALI does not warrant against moisture related problems. If results show moisture vapor at or exceeding 12%, determine its source and correct problem before installation.

Joist System Spacing (inches on center)	Minimum Thickness Plywood	Minimum Thickness OSB
12" to 16"	5/8"	23/32"
16.1" to 19.2"	23/32"	7/8"
19.3" to 24"	7/8"	1"

Wood Subfloors: Wood Subfloors: Use moisture meter to test wood subfloor moisture content. If results show moisture vapor at or exceeding 12%, determine its source and correct problem. Do not install the floor without a vapor barrier. CALI always recommends using a moisture/vapor barrier, especially if the moisture content of the flooring and subfloor vary greater than 3%.

Concrete Subfloors: Concrete subfloors must be tested for moisture vapor pressure in more than one place for consistent readings. If test results show moisture vapor exceeds the minimum requirements below, do not install the floor without an impermeable vapor retarder with a perm rating of less than .13 designed to permanently block this moisture.

- Calcium Chloride Test (ASTM F 1869): Maximum vapor emissions cannot exceed 3lbs/1000SF in 24 hours
- Tramex Concrete Moisture Encounter: Moisture readings should not exceed 4% on upper scale
- In-Situ Probe Method (ASTM F 2170): Relative Humidity levels should not exceed 75%

Moisture Testing Wood Floors

Use a reliable moisture meter that will accurately read the specific wood species being installed. Examples of acceptable moisture meters include Delmhorst or a Lignomat SDM. Contact the meter manufacture to verify settings for specific species being installed.

Moisture Barrier Requirements

General: Unexpected changes to subfloor moisture content may cause dimensional changes to the floor. To ensure a lifetime of satisfaction, it is strongly recommended that CALI flooring be installed over a moisture barrier or vapor retarder (following manufactures guidelines) per the following specifications:

Wood Subfloors: For best results, use a moisture barrier/vapor retarder with a perm rating between 0.7 and 50 when tested in accordance with ASTM E-96 Method A. Install as recommended by the manufacturer. Examples of acceptable moisture barriers for wood subfloors include: Silicon Vapor Shield, Asphalt laminated paper (UU-B-790a, Grade B, Type I, Style 1a.) and: Asphalt-saturated kraft paper.

Concrete Subfloors: For concrete applications, a moisture barrier/vapor retarder should be chosen based on concrete moisture content. For unlimited moisture protection, CALI recommends the use of Titebond® 531+ Moisture Control System or CALI Complete. Install as recommended by the manufacturer.

Acclimation & Conditioning of CALI Flooring

The goal of acclimation is to allow the moisture content (MC) of the flooring to fully adjust to its new surroundings before installation. ***Not properly acclimating wood flooring may cause excessive expansion, shrinkage, dimensional distortion or structural damage.***

Determine Normal Living Conditions - Ideal interior environmental conditions vary from region to region and job site to job site. It is the installer's responsibility to know what the "ideal" climate conditions are and customize the acclimation of the floor around those conditions. For a general view of moisture content averages by region, see the map below.

Control Home Conditions Accordingly - Acclimation should occur at normal living conditions. Before opening the cartons, the indoor environment should reflect the room temperature and relative humidity levels expected to be present before, during, and most importantly, after installation. Operate temperature / humidity control systems as normal. Allow normal ventilation through rooms.

For Hardwood Barrel, Whiskey & Wine, and Cellar Flooring: CALI recommends simply opening the ends of each box and breaking the shrinkwrap covering the flooring planks. It is best to keep planks in the boxes until they are ready to be installed to avoid bowing.

Acceptable Areas for Acclimation - Acclimate the flooring as close to the center of the installation area as possible. Do not store flooring next to outside walls, in direct sunlight, near air vents or under conditions that don't reflect the normal home environment. Garages, and exterior patios, for example, are not acceptable areas to store wood flooring during acclimation.

Determine Appropriate Acclimation Time Frame - CALI Engineered flooring should be allowed to acclimate on the job site for 72 hours.

Note: Acclimate Hardwood Barrel, Whiskey & Wine, and Cellar flooring for a minimum of 48 hours and a maximum of 72 hours. The worst-case scenario is one in which wood flooring is stored outside of the area in which the wood is to be installed. Acclimation is the responsibility of the installer/homeowner.

Radiant Heat Systems

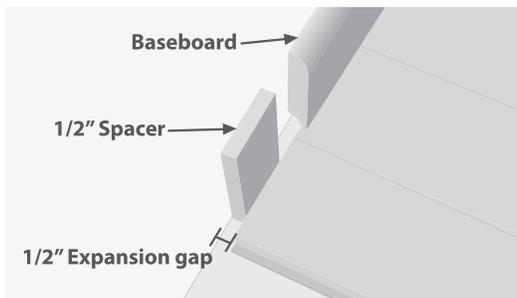
CALI flooring is only recommended for use over radiant heat systems if the special requirements specified by the National Wood Flooring Association are met (please refer to the NWFA's Radiant Heat Guidelines). Ensuring stable job site conditions, subfloor suitability and proper acclimation are especially important when installing over a radiant heat system. It is the responsibility of the installer to ensure that the recommended environmental conditions are met for installation. Refer to your radiant heat system manufacturer to determine its compatibility with hardwood flooring, and to learn the specific requirements for installation.

- Because of the wide variety of systems on the market (Hydronic, embedded in concrete, electrical wire/coil, heating film/mat) each with its own features and applications it is recommended that the user consult with the radiant heating provider for best practices, installation methods and proper subfloors.
- Typically the floating installation method is the most suitable for use with radiant heat systems.
- Radiant heat system must be turned on and in operation for at least 6 days before installation.
- The flooring must be acclimated per CALI's Engineered acclimation instruction over the radiant heat with the system turned on throughout the acclimation timeframe.
- The system must be turned down to 65°F and maintained 24 hours prior to installation.
- Once install is complete, turn system back on and slowly bring back up to normal operating temperature over a period 4-5 days.
- Floor should never be heated over 85°F. Consult with your radiant heating system manufacturer to successfully limit the maximum temperature.
- Always remember that rugs placed over radiant heated flooring can increase the surface temperature in that area by 3°- 5°F degrees.
- Relative Humidity must be maintained between 30-50%. The use of a humidifier may be necessary to achieve this.
- When turning off the radiant heat system it must be turned down slowly at a rate of 1.5° degrees per day. You should never just turn the system off.
- For additional information on radiant heating systems please refer to <http://www.radiantpanelassociation.org> or the NWFA's Radiant Heat Guidelines.

Installation of CALI Flooring

Expansion Space Is Required

- Since Hardwood Barrel, Whiskey & Wine, Cellar and Reserve flooring expands with any increase in moisture content, we require leaving at least 1/2" expansion space between flooring and all vertical objects (walls, cabinets, pipes, etc.). If the installation area exceeds 30 feet, a greater expansion space is required; approximately 1/16" for every additional ten (10) feet. For float installations that flow into other rooms, a transition piece must be used in doorways and openings between rooms (halls, archways, etc.) 3 feet or less to allow separate areas to move without interference.
- Note that proper expansion space depends not only on the size and flow of the installation, but also on expected seasonal changes in temperature and humidity that may cause the flooring to gain or lose moisture content over time. For example, if an installation takes place when humidity conditions are low, it's likely that the wood flooring will gain moisture and expand later during humid seasons. In those cases, incorporate additional expansion space through use of spacers or transition moldings.
- Hardwood Barrel, Whiskey & Wine, Cellar and Reserve floors must be able to expand/contract without interference. NEVER install flooring against any vertical or fixed object such as fireplace, columns, islands, door jambs, floor outlets, etc. Failure to follow this guideline may result in tenting, separation or buckled floors. Do not install cabinets or other permanent fixtures on top of the floor. Never nail or screw anything through a hardwood floor. If you have extremely heavy furniture items, install the floor using the glue-down method or nail-down method as opposed to floating the floor. For floated applications a T-molding must be used in doorways and openings between rooms 3 feet wide or less.
- To cover your expansion space, CALI carries matching Hardwood Barrel, Whiskey & Wine, Cellar, and Reserve flooring accessories which include reducers, t-moldings, baseboards, quarter rounds, thresholds and vent registers. Matching stair parts are also available; including stair nosing, treads and risers. CALI also provides all the glues and adhesives you will need for to complete your project. Please visit CALI's Flooring Accessories webpage.
- Undercut door casings and jambs. Remove any existing base, shoe mold or doorway thresholds. These items can be replaced after installation. When undercutting door casings the installer should confirm there is the recommended expansion space. The floor must have 1/16" clearance under the door casing to be able to float freely without vertical restriction. The installer should ensure that the plank can move freely under the door jamb.



Nail-Down T&G Installation Method

The nail-down method is suitable for wood subfloors using tongue and groove flooring only. Before you start, ensure that the job site, subfloor and environmental conditions are acceptable for installation of CALI engineered flooring. All requirements specified in CALI's Installation Guidelines must be met. Nailing down a click-lock floor will void the warranty.

Recommended Tools

The selection and use of any nailer is at the discretion and responsibility of the installer/ homeowner. Choose a nailer model that is specifically designed for tongue and groove applications. We recommend a Pneumatic 18 Gauge Flooring Nailer (such as the PowerNail 50p flex, 50F, Primattech 550 or similar). It is the installer's responsibility to determine the correct pressure for their nailer, and to ensure that the nail is properly seated. Dimpling of the flooring face or edge is not a manufacturing defect.

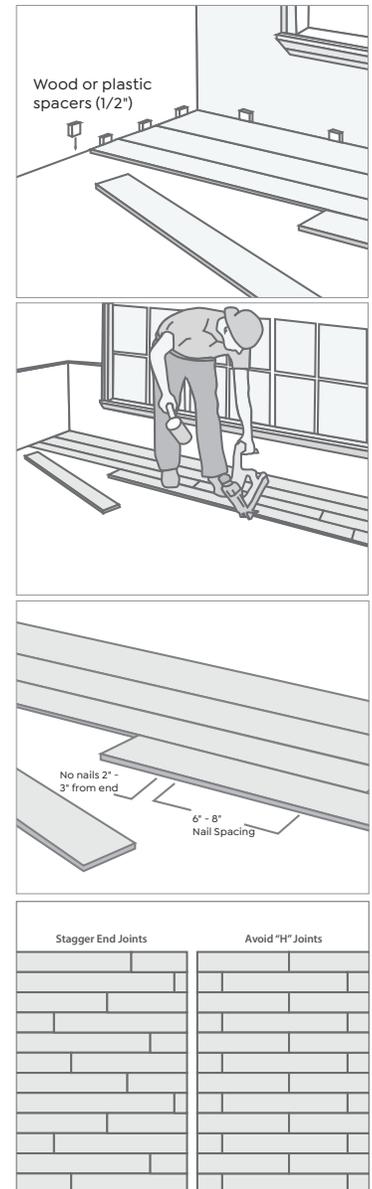
- Pneumatic 18-gauge tongue-and-groove flooring nailer
- Underlayment (see "Moisture Barrier Requirements")
- Tapping block (trimmed piece of flooring)
- Wood or plastic spacers (1/2")
- Flat bar or pull bar
- Miter saw (chop-saw)
- Earplugs & safety glasses
- Tape Measure
- Pencil
- Chalk line
- Hammer
- Undercut or jamb saw
- Use 1-1/2" to 1-3/4" long, 18 gauge cleats
- for Fossilized® flooring

Nail-Down Installation Steps

1. Use a vapor retarder designed for wood subfloors (see "Moisture Barrier Requirements").
2. When nailing, the flooring should be always laid perpendicular to the floor joist.
3. Allow at least a 1/2" space for expansion around the perimeter of the room and all vertical objects using spacers. Also see section: "Expansion Space is Required".
4. Dry lay (do not nail) a few rows before installation to confirm your layout plan.
5. Test the air pressure and angle of your pneumatic nailer with a sample plank to check for correct air pressure before installation. If you note any surface damage (face dimpling), tongue damage (splitting), etc., adjust the air pressure/angle accordingly. Test until dimpling no longer occurs.
6. Begin installation next to an outside wall. This is the best reference for establishing a straight working line.
7. Hold starter row in place by blind nailing or gluing to avoid unsightly nail marks.
8. Connect short side of second plank together with the mating side of the first plank.
9. Cut last plank and complete row. Use the remaining plank to start the second row.
10. Be sure to offset the end joints of consecutive rows by a minimum of six (6) inches for best appearance.
11. Continue second row by connecting short plank edges first with the long edges.
12. After the first two rows are secured, start the next row by nailing directly above the tongue at a 45 degree angle.
13. Carefully monitor nailer pressure to ensure that the nail head enters the tongue only as deeply as required to allow the adjacent plank to fit properly. Ensure that the nail head rests cleanly in the "pocket".
14. Recommended nail schedule is 6-8 inches along the length of each board. If installing wide+ 7 1/4" the schedule should be tightened to 4-6 inches.
15. Avoid nailing closer than 2-3 inches from the end of the plank.
16. As with the other rows, connect the short edges first and use a pull bar to tap the long edges together.
17. Always check your working lines to be sure the floor is still aligned.
18. The last row may require rip cutting the planks to size.
19. The last two rows will need to be secured in the same manner as the first two.

After Installation

- The newly installed floor is complete and can be walked on immediately.
- Use wood filler or putty to correct minor flooring damage that occurs during installation.



Glue-Down T&G Installation Method

Recommended Adhesive Products

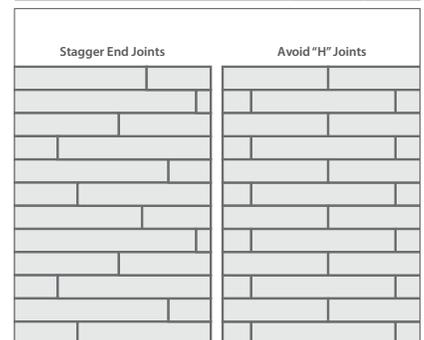
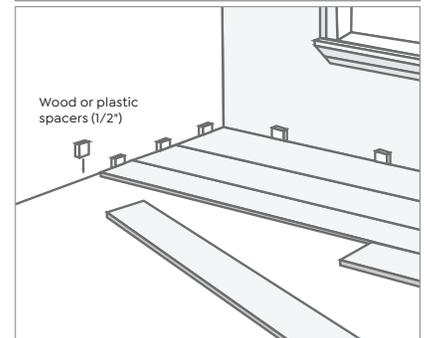
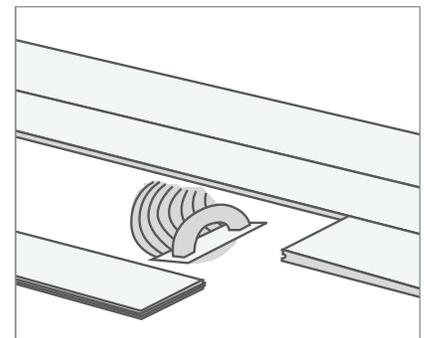
The selection, use and suitability of any adhesive/moisture control system is at the discretion and responsibility of the installer. Always use a moisture barrier and adhesive system manufactured by the same company – never mix products. CALI recommends using Titebond flooring adhesive and moisture barrier systems in accordance with manufactures specifications to receive Titebond’s Platinum installation warranty. *Remember: Always Follow Flooring Adhesive Recommendations. CALI does not warrant against adhesive related problems.*

Recommended Glue-Down Floor Tools

- Flooring adhesive: Zero-VOC Adhesive by Titebond®
- Undercut or jamb saw
- Adhesive trowel as recommended by adhesive manufacturer
- Hammer
- Underlayment (see Moisture Barrier Requirements)
- Tape measure
- Tapping block (trimmed piece of flooring)
- Chalk line
- Wood or plastic spacers (1/2")
- Carpenter square
- Flat bar or pull bar
- Earplugs and safety glasses
- Miter saw (chop-saw)
- Table saw

Glue-Down Installation Steps

1. Before you start, ensure that the job site, subfloor and environmental conditions are acceptable for installation of CALI engineered flooring. All requirements specified in CALI’s Installation Guidelines must be met.
2. Seal concrete subfloor with appropriate moisture control system prior to installation. CALI recommends Titebond® 531+ Moisture Control System.
3. Allow at least a 1/2” space for expansion around the perimeter of the room and all vertical objects using spacers. Also see section: “Expansion Space is Required”.
4. Dry-lay a couple rows before starting installation to confirm your layout plan.
5. Begin installation next to an outside wall. This is the best reference for establishing a straight working line.
6. Lay the first row of flooring with groove facing the wall. Starter rows should be secured by blind nailing and gluing.
7. Connect short side of second plank together with mating side of the first plank.
8. Cut last plank and complete row. Use the remaining plank to start second row.
9. Offset end joints of consecutive rows by a minimum of 6” for best appearance
10. With the first row in place, trowel out some adhesive and lay second row by connecting short edges of planks first. Use a pull bar to tap long edges together.
11. Always check your working lines to be sure the floor is still aligned.
12. Use tapping block to fit planks together, but be careful not to let installed floor move on the wet adhesive while you are working.
13. The last row may require rip cutting the planks to size.
14. Flooring planks on perimeter of room may require weight on them until adhesive cures enough to hold them down.



After Installation

- Always remove any adhesive from the surface of the flooring (smudges, fingerprints, etc.) before it dries. Use Titebond’s Adhesive Remover or Bostik’s™ Ultimate Adhesive Remover Towels to immediately remove any adhesive on flooring surface as you go.
- Allow the newly installed floor to fully cure based on adhesive recommendations before walking or moving furniture onto the floor.

Floating T&G Installation Method

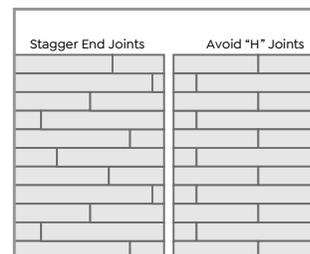
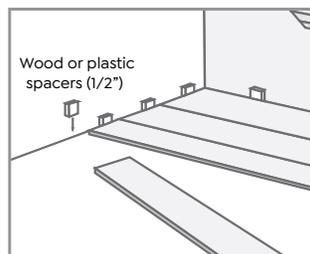
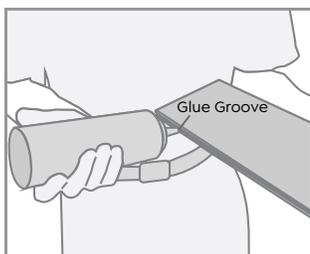
Recommended Glue-Down Floor Tools

- Titebond® Tongue & Groove Flooring Glue
- Undercut or jamb saw
- Underlayment (see “Moisture Barrier Requirements”)
- Hammer
- Tapping block (trimmed piece of flooring)
- Tape Measure
- Wood or plastic spacers (1/2”)
- Pencil
- Flat bar or pull bar
- Chalk line
- Miter saw (chop-saw)
- Earplugs & safety glasses
- 3M blue painter’s tape

CALI highly recommends using Titebond® Tongue & Groove Flooring Glue for floating applications. For best results, use a moisture barrier that is suitable for the subfloor type (see Moisture Barrier Requirements section for examples of acceptable moisture barrier systems). Leave at least 1/2” expansion space between flooring and all walls and vertical objects to allow for natural fluctuations. If the installation flows into other rooms and continuous runs in excess of 30 feet, a greater expansion is required; approximately 1/16” for every ten (10) feet.

Floating T&G Installation Steps

1. Use Titebond® Tongue & Groove Flooring Glue for floating applications.
2. Before you start, ensure that the job site, subfloor and environmental conditions are acceptable for installation of CALI engineered flooring. All requirements specified in CALI’s Installation Guidelines must be met.
3. Seal concrete subfloor with an appropriate moisture barrier. CALI recommends the use of Titebond® 531+ Moisture Control System prior to installation.
4. Allow at least a 1/2” space for expansion around the perimeter of the room and all vertical objects using spacers. Also see section: “Expansion Space is Required”.
5. It is recommended to install the planks parallel to the longest wall.
6. Dry lay (do not glue) a few rows before installation to confirm your layout plan.
7. Begin by laying the first plank in a corner with the long grooved side toward the long wall.
8. Apply a small continuous consistent bead of Titebond™ T&G flooring glue along the bottom side of the flooring groove.
9. Connect short side of second plank together with mating side of the first plank.
10. Cut the last plank and complete the row. Use the remaining plank to start the second row.
11. Make sure to offset the end joints of consecutive rows by a minimum of 6 inches for best appearance.
12. Continue second row by connecting short edges of planks first with long edges.
13. The last row may require rip cutting the planks to size, be sure to cut enough to maintain proper expansion space.
14. As with the other rows, complete the last row by connecting the short edges first and using a pull bar to tap the long edges together.
15. CALI recommends using 3M blue painters tape to help keep planks together while Tongue & Groove adhesive dries. Do not leave tape on overnight.



After Installation

- Always remove any adhesive from the surface of the flooring (smudges, fingerprints, etc.) before it dries. Use Bostik’s™ Ultimate Adhesive Remover Towels to immediately remove any adhesive on flooring surface as you go.
- Allow the newly installed floor to fully cure based on adhesive recommendations before walking or moving furniture onto the floor.