

## ATTENTION INSTALLERS

### **CAUTION: DRY ENVIRONMENTS**

Extra caution should be used installing flooring in dry environments and regions. Please note that our flooring products cannot withstand consistent exposure to less than 35% relative humidity. For this reason, please note that monitored acclimation must take place in a controlled and maintained environment within certain temperature and humidity ranges (see section II. Acceptable Job Site Conditions). HVAC should be in place and operating to facilitate this control. Humidity may need to be added with the careful use of humidifiers to maintain relative humidity between 35-55%. Failure to follow these instructions will void all warranties.

### **CAUTION: RADIANT HEAT**

Certain species do not perform well over radiant heat. Denser species such as hickory, maple, Brazilian cherry (Jatoba), Tigerwood, and Santos mahogany do not perform well and are not warrantied over radiant heat. Species such as red oak, walnut, and rift & quartered white oak are more stable and will perform better over radiant. However, be aware, this dry heat can shrink any flooring during drier months and gaps may be seen in between planks. All interiors, regardless of heating system, must be maintained within our recommended interior relative humidity range of 35% - 55% for successful installation. For warranty information specific to radiant heat installations please contact Teckton 417.622.0406.

### **CAUTION: WOOD DUST**

- Sanding, cutting and machining wood products can produce wood dust. Airborne dust particles can cause respiratory, eye and skin irritation. The International Agency for Research on Cancer classifies wood dust as a nasal carcinogen in humans.
- Power tools should be equipped with a dust collector. If high dust levels are unavoidable and appropriate NIOSH-approved dust mask should be used. Avoid contact with eye and skin.
- First Aid: In case of irritation, flush eyes or skin with water for at least 15 minutes.

## RECOMMENDED INSTALLATION PRODUCTS

### **REAL WOOD ADHESIVE**

- Minimal shrinking and non-slump for superior contact
- Superior spread rates equals lower cost per square foot
- High bond strength
- Good wet grab
- Trowels easily
- Superior elasticity gives quieter, more cushioned walking over installed floor
- Can be laid using walk-on or wet lay method

### **REAL WOOD COHESIVE 2-IN-1 MOISTURE BARRIER + ADHESIVE**

- Low VOC and low odor
- Significantly reduces install time vs. other barrier + adhesive systems
- Lowers installation costs
- Good ridge holding and non-slump properties
- Superior green grab
- Fully cured product offers a superior moisture barrier
- Superior elasticity produces quieter floors with great acoustic properties

### APPROVED INSTALLATION METHODS & PRODUCTS

COLLECTION	METHOD	RECOMMENDED PRODUCTS
<b>TECKTON</b> 5/8" Thick, up to 6" Wide Engineered	Glue down	<b>RWF Adhesive:</b> 3/16" x 1/4" x 1/2" V-Notch trowel. 55 sqft / gal spread rate. <b>RWF Cohesive*:</b> 1/4" x 3/16" V-Notch trowel. 40 sqft / gal spread rate.
	Nail down	<b>18 Gage Fastener:</b> 1-3/4" long. Nailed every 6-8", & 1-2" from ends of the boards.
<b>TECKTON EURO</b> 9/16" Thick, up to 9" Wide Engineered	Glue down	<b>RWF Adhesive:</b> 3/16" x 1/4" x 1/2" V-Notch trowel. 55 sqft / gal spread rate. <b>RWF Cohesive*:</b> 1/4" x 3/16" V-Notch trowel. 40 sqft / gal spread rate.
	Nail down	<b>18 Gage Fastener:</b> 1-1/2" long. Nailed every 6-8", & 1-2" from ends of the boards.
<b>BUILDER PLATFORM</b> 1/2" Thick, up to 9" Wide Engineered	Glue down	<b>RWF Adhesive:</b> 3/16" x 1/4" x 1/2" V-Notch trowel. 55 sqft / gal spread rate. <b>RWF Cohesive*:</b> 1/4" x 3/16" V-Notch trowel. 40 sqft / gal spread rate.
	Nail down	<b>16 Gage Fastener:</b> 1-1/2" long. Nailed every 4-6" & 1-2" from ends of the boards.

*\*Please refer to the RWF Cohesive label for the correct trowel size and spread rate for below grade installations.*

**For any nail-down application, it is important that your subfloor is clean, dry, sound and flat. Always follow the correct nailing schedule. To minimize squeaking consider using a glue-assist method.**

### I. IMPORTANT INFORMATION

Owner/Installer should carefully inspect material prior to installation. Wood is a natural product and as such will contain variations in grain, color and individual characteristics from board to board. **Materials installed with visible defects are not covered by warranty.** Any unacceptable material should not be installed. Rejection of material must be done on the full shipment of product, not box-by-box or piece-by-piece. Our flooring is manufactured within accepted industry standards, which allow grading deficiencies not to exceed 5%. It is recommended to add 5% - 10% to order quantities to allow for grading deficiencies and installation waste.

#### Acceptable Job Site Conditions

*\*As outlined by the National Wood Flooring Association*

Wood flooring is one of the last jobs of any construction project. The grade level should be noted so that the correct flooring can be specified for the job. Prior to delivery of the wood flooring a site evaluation should be done. Check for and ensure the following:

1. The building should be completely enclosed.
2. All outside doors and windows must be in place and have latching mechanisms.
3. The site should be at normal living conditions, whether it is under normal HVAC controls or temporary controls. The recommended temperature range should be between 60-80 degrees Fahrenheit, and the relative humidity should be between 35-55%. This range should be consistently maintained through out the life of the flooring.
4. Be sure the flooring will not be exposed to extremes of humidity, heat or moisture.
5. All concrete, masonry, plastering, drywall texture, painting, and other wet work should be completed and thoroughly dry.
6. Basement must be dry.
7. Outside surface drainage should direct water away from the building.
8. Crawl spaces must be dry.
9. Crawl space must be a minimum of 18" from the ground to the underside of the joist.
10. The crawl space earth (or thin "rat slab") must be covered 100% by a vapor retarder of 6 mil black polyethylene.
11. Where the 6 mil black polyethylene ground covering is in place, the crawl space should have perimeter venting equal to a minimum of 1.5 square feet, per 100 square feet of crawl space.
12. Vents should be properly located to foster cross ventilation.
13. Unvented crawl spaces need ground covering of 6 mil black polyethylene, which must be overlapped 6 inches and be sealed or taped. Continuously operated mechanical exhaust and perimeter wall insulation or conditioned air supply and insulation must be provided.
14. Subfloors (wood or concrete) should be checked by an appropriate method for establishing moisture content. For concrete slabs moisture should not exceed 3lbs/1000sqft per 24 hours on a calcium chloride test and 75% on an RH test.
15. Plywood or wood subfloor should be tested with a pin or scan type meter and should be within 4% of the wood flooring moisture content prior to installation. The plywood or wood subflooring should not exceed 13%.
16. Where the correct job site conditions are present, the flooring can be delivered and stored in the rooms in which it will be installed.
17. Upon delivery check wood flooring and subfloor moisture content to establish a baseline for required acclimation. We recommend a minimum of 3 days. Proper moisture testing of wood flooring and subflooring materials will determine proper acclimation. *We do not recommend removing engineered products from the packaging for acclimation.*
18. Keeping the job site within the recommended temperature (60-80 degrees) and humidity (35-55%) will allow for proper acclimation. Deviation from the recommendations could cause damage to the flooring, which will not be covered by the warranty.

Note: Local building codes may differ. Local building codes take precedence over these recommendations, please follow all local building codes.

### II. SUBFLOORS

The subfloor must be flat, meeting a minimum of 3/16" within 10' or 1/8" in 6'. For concrete sub floors, grind high spots or use a cement based leveling material (minimum compressive strength 3000 psi) to fill all low spots. Follow the leveling compound manufacturer's instruction. Leveling compounds must be allowed to thoroughly cure and dry prior to installation of wood flooring. The flooring installer is responsible for a level and flat subfloor.

### Recommended Subfloor Surfaces

#### CONCRETE SUBFLOORS

Concrete slabs should be of high compressive strength and constructed to prevent groundwater from permeating the concrete. Engineered hardwood flooring can be installed on, above, or below-grade. In addition, it can be installed over above-ground, suspended concrete floors. The suspended concrete must be a minimum of 1 1/2 inches thick and must be structurally sound. The exception to this is lightweight concrete (which usually contains high amounts of gypsum) having a density of 100 pounds or less per cubic foot. Test for lightweight concrete by using a nail to scratch the surface of the concrete. **If the concrete crumbles or turns to powder, it is not sound and you should NOT install the hardwood flooring using a glue down method.** If there is any question about concrete porosity or strength it is recommended to glue down one plank, let adhesive set for 24 hours and then pry the plank loose. If any concrete comes up with the plank, do not install using a glue down method. Concrete must have a minimum compression strength of 3,000 psi for direct glue applications.

#### CONCRETE SUBFLOORS WITH PLYWOOD

Always add a vapor retarder (min 6 mil plastic) before applying plywood underlayment to the concrete slab.

**Materials minimum:** 5/8 (19/32, 15.1mm) CD Exposure 1 plywood subfloor panels (CDX), 4' x 8' sheets.

Installation method

**Note:** Fasteners may be power-driven pins, pneumatic driven nails, screws, deformed pins, or other fasteners suitable for concrete application. Check with the fastener manufacturer for specification such as length, drill size, and/or shot load where applicable.

1. Stagger panel joints allowing approximately 1/8" expansion space around all panels to prevent edge peaking due to compression caused by panel swell.
2. Allow 3/4" minimum expansion space at all vertical obstructions.
3. Panels should be mechanically fastened. For power load or pneumatic pressure information, contact your local supplier.
4. Nailing requirements, minimum 32 shots per 4' x 8' panel.
5. Areas with higher humidity may require additional fasteners.

#### SCREED SYSTEM

**For engineered products less than 3/4" thick:** The screed system must be overlaid with a minimum 5/8 plywood (19/32, 15.1mm) CD Exposure 1 plywood subfloor panel (CDX), 4' x 8' sheets or 5/8 OSB underlayment properly spaced and oriented perpendicular to screed direction. All joints must be staggered.

#### DIRECT GLUING A PLYWOOD SUBFLOOR OVER CONCRETE

**Always follow the adhesive manufacturer's recommendation for proper application, proper adhesive and correct trowel notch and spread rate.**

1. Add the recommend vapor barrier product by the adhesive manufacturer before applying adhesive.
2. Use minimum 5/8 plywood (19/32, 15.1mm) CD Exposure 1 plywood subfloor panel (CDX), 4' x 8' sheets.
3. Cut the plywood panels to 2' x 8' or 4' x 4' sections. Score the back of the panel sections 1/2 the thickness on a 12" x 12" grid.
4. Lay sections in a staggered joint pattern in the adhesive, with 1/8" spacing between sheets, and 3/4" minimum expansion space at walls and vertical obstructions.

#### FLOATED SUBFLOOR

**Always add a vapor barrier before applying the subfloor.**

6. Use two layers minimum 3/8" (10mm), minimum CD Exposure 1 ply-wood subfloor panels (CDX) 4' x 8' sheets.
7. Place the first plywood layer with edges parallel to wall, without fastening. Leave 3/4" space between walls and plywood. Plywood panels should be spaced with 1/8" gaps between sheets.
8. Lay the second layer perpendicular or at 45° angle to the first layer. Use the same spacing requirements as above.
9. Staple/screw and glue (with urethane or construction adhesive) the second layer to the first layer on 12" interior grid pattern (6" on the perimeter). Be careful not to penetrate the vapor barrier.

#### WOOD SUBFLOORS

**Preferred Subflooring:** 3/4" (23/32", 18.3 mm) CDX grade Plywood subfloor/ underlayment (Exposure 1), 4'x8' sheets

or 3/4" (23/32", 18.3mm) OSB subfloor/underlayment grade, PS2 rated, sealed side down, with joist spacing of 19.2" (488mm) on center or less.

**Minimum Subflooring:** 5/8" (19/32, 15.1mm) CDX Plywood subfloor/ underlayment (Exposure 1), 4'x8' sheets, maximum 16" on center joist construction. Follow panel manufacturer's recommendations for spacing and fastening.

**Typical panel spacing and fastening for joist systems:** 1/8" (3.2mm) around perimeter and fastened every 6" (150mm) on bearing edges and every 12" (300mm) along intermediate supports.

10. Installation of flooring should not be made over joists spacing greater than 19.2" on center or parallel to the joists unless the subfloor has been properly strengthened, applying a second layer of underlayment may be necessary to bring the overall subfloor thickness to 1-1/8".
11. Test the moisture content of the wood subfloor and wood flooring with a pin type or scan type moisture meter. Wood subfloor moisture content must not exceed 13% and the wood flooring should be within 4% of the wood subfloor for engineered wood, and 2% of the wood subfloor for solid wood.
12. If using existing wood floor as subfloor, install new flooring at right angles to the existing flooring.
13. Do not glue, staple, or nail down hardwood flooring over particle board.
14. Do not install over existing glue down hardwood floors.

### CERAMIC, TILE, AND TERRAZZO

All wax and sealers must be removed with an appropriate cleaner/stripper. Ceramic tile and terrazzo should be abraded to allow for proper adhesion. Check for loose tiles by tapping and re-adhere. Fill grout lines with a cementitious latex fortified leveling compound.

### RESILIENT TILE, RESILIENT SHEET VINYL

Material must be full spread and secured to the subfloor. Do not install over perimeter glued floors. Do not install over more than one layer that exceeds 1/8" in thickness.

### GLUE DOWN ONLY

Do not install over more than one layer that exceeds 1/8" in thickness. Clean flooring with an appropriate cleaner and allow to thoroughly dry. If necessary degloss the floor using

an abrasive pad to enhance the bonding of the adhesive, if wax or other coatings are present, completely remove the material with a quality stripper, rinse the floor and allow to dry. Always check for proper adhesion bond prior to installing.

**CAUTION: DO NOT SAND** any existing resilient tile, sheet vinyl flooring, or flooring felt as they may contain asbestos fibers that are not readily identifiable. Inhalation of asbestos dust can cause serious bodily harm. Check local, state, and federal laws for handling hazardous material before attempting the removal of these floors.

### RADIANT HEAT INSTALLATIONS

Note that these recommendations for subfloors do not apply to floors installed with radiant heat systems. Contact Teckton for Teckton installation instructions over radiant heat systems at 417.622.0406.

## III. TOOLS NEEDED FOR INSTALLATION

### All installations

Broom, Tape Measure, Hammer, Chalk Line & Chalk, Hand Saw or Jamb Saw, Electric Power Saw, Eye Protection, Moisture Meter, (wood, concrete or both), Transition and Wall Moldings, NIOSH-designated Dust Mask, 3M Blue tape, tapping block.

**Add for Glue Down Installations:** Recommended adhesive, and adhesive remover, Appropriate trowel.

**Add for Nail Down Installations:** Appropriate nailer or stapler, Appropriate fastener, Compressor and hose, Nylon/ plastic tapping block.

## IV. JOB SITE PREPARATION

**Inspect the Flooring:** Inspect material and get written customer approval for appearance, color, finish, milling, and grade. Hold out pieces that may not be acceptable once installed.

**NOTE: We do not accept responsibility for any costs incurred when plank(s) with visible defects have been installed.**

**Ensure the Environment is Correct:** The environment must be between 60-80 degrees Fahrenheit, and between 35-55% relative humidity. Double check that the flooring has acclimated to within 4% of the subfloor moisture content. Walk across the entire subfloor to check that the subfloor is dry, clean, flat and sound. Any squeaks in the subfloor will not go away once flooring has been installed. Any deflection in boards or debris on the subfloor will cause noise in the flooring.

**NOTE: squeaks, cracking or popping sounds are not covered under warranty, and can be expected to some degree on any nailed down floor. Proper subfloor preparation may help minimize these noises.**

**Undercut Door Casings:** Undercut all door casings 1/16" higher than the thickness of the flooring being installed. To do this, use a scrap piece of flooring as a guide. Lay it on the substrate and cut the casing with a handsaw or use a power jamb saw set at the correct height.

**Blending of Cartons:** To achieve a uniform appearance across the entire floor, we highly recommend that you open and work from several cartons at a time and dry-lay the flooring, mixing the planks from several cartons. This will allow you to blend the planks for maximum aesthetic appearance. Make certain the room is well lit to ensure color is consistent and that any visual defects can be seen and removed.

**Match Transition Moldings:** For best appearance blend all transitions and moldings to planks that have similar color and graining. Set them aside for use as needed.

**Layout of Flooring:** "Racking the Floor" is essential to achieve a random appearance. Be sure to lay flooring perpendicular to the joists. Start by either using random-length planks found in the carton or by cutting four or five planks in random lengths, differing by at least six inches. As you continue working across the floor try to maintain a six-inch minimum between end joints. Randomly install different lengths to avoid a patterned appearance. Never waste materials; the end cuts from starter rows should be used at the opposite side of the room to complete rows or used to start the next row.

**Expansion Space:** Expansion space around the perimeter is required and should be equal to the thickness of the flooring material.

## V. GLUE DOWN INSTALLATION

Before you begin using the following instructions, please refer to the Acceptable Job Site conditions and Job Preparation information above. Concrete must have a minimum compression strength of 3,000 psi for direct glue applications.

**NOTE: Teckton recommends using RWF Adhesive or RWF Cohesive for glue down applications. Use the appropriate trowel and spread rate according to the adhesive manufacturer's recommendations for the specific floor you are installing. The adhesive manufacturer is liable for proper adhesion of the flooring to the subfloor.**

## GETTING STARTED

1. Establish a starting point. An outside wall is best: it is most likely to be straight and square with the room. Measure out from this wall, at each end, the width of two planks including the tongue plus the space needed for expansion.
2. Snap a chalk line from these points, parallel to that wall.
3. Prior to installing the flooring, fasten a straight edge inside the chalk line as a guide and to prevent the row of planks from shifting during installation. When gluing to a slab the straight edge may have to be screwed into the concrete. The straightedge could be a straight piece of lumber or piece of flooring. Alternatively, the first row can be face-nailed with finishing nails into the wood subfloor or sprig nailed into a concrete subfloor.

## SPREADING THE ADHESIVE

4. Using the proper trowel, hold the trowel at a 45° angle to ensure proper spread rate of adhesive. Apply pressure to allow the trowel to leave ridges of adhesive on the substrate with little adhesive left between the ridges. This will help to achieve the proper spread rate of the adhesive. Temperature, relative humidity, and airflow across the adhesive can have an affect on the open time of the adhesive.

## INSTALLATION

5. Spread adhesive from the chalk line/straightedge out to approximately the width of two pieces of flooring. Install the first row of planks along the chalk line/straightedge and secure into position with the tongue facing the starter wall.

**NOTE: Accurate alignment is important. Uneven starter rows can cause sides and ends to gap in proceeding rows of flooring. With the starter rows complete, you can begin the next row. Use medium to low tack masking tape (also known as "blue tape") to hold the boards tight together to prevent movement or gapping.**

6. When the first two starter rows are straight and secure, spread adhesive 2 to 3 feet wide across the length of the room. Never spread more adhesive than can be covered in 30 to 45 minutes. If the troweled out adhesive has skinned over, remove and trowel new adhesive.
7. Continue to install planks and push them into place. Place the tongue of the board into the grooves of installed boards and press into the adhesive. As you continue working across the floor try to maintain a six-inch minimum space between end joints. Install different lengths at random to avoid a patterned appearance.

**NOTE: Never strike a rubber mallet or hammer directly on the flooring to engage the tongue-and-groove. This practice can damage the flooring and/or the finish. Use a tapping block if necessary.**

8. Adhesive should never come into contact with the surface of the floor. If adhesive does come into contact, the adhesive will need to be sanded off prior to applying stain or finish.
9. As you approach the end wall it may be necessary to rip the width of the last row – be sure to allow for the expansion space along the end wall. Once the final cuts are made set planks into place.
10. After the floor is complete remove the straight edge and glue down the first two boards.
11. Foot traffic should be restricted for a minimum of 6-8 hours. Wait 24 hours before permitting moving of furniture onto the floor. Always follow the adhesive manufacturer's recommendations for dry/cure time.
12. Carefully remove the blue tape 24 hours after installation is completed. Do not wait more than 24 hours to remove tape since it could leave residue on the floor.

## VI. NAIL OR STAPLE DOWN INSTALLATION

Before you begin using the following instructions, please refer to the Acceptable Job Site Conditions and Job Preparation information above.

**NOTE: Our flooring is not warranted against squeaking, popping or crackling when using staple-down or nail-down installation methods. Some squeaking, popping or crackling is normal and possible when using staple-down or nail-down installation methods. These symptoms may be aggravated in drier areas or during dry conditions.**

**It is the responsibility of the installer to prepare the subfloor and ensure that it is clean, dry, sound, and flat. It is the responsibility of the installer to ensure a clean, sound, and quiet flooring installation. Flooring should be continually inspected throughout the process.**

### USE OF PNEUMATIC STAPLERS AND NAILERS

Minor occasional noises within the flooring are inherent to all staple/nail-down installations and can change as environmental changes occur. This is not a manufacturing defect and is therefore not covered under our warranties (see warranty brochure for complete warranty coverage). You can help reduce squeaking, popping, and crackling by being sure that the subfloor is structurally sound, does not

have any loose decking or joists, and is swept clean prior to installation.

You should also be sure that your stapler or nailer is setting the fastener properly, not damaging the planks, and that you are using the correct nailing schedule. When used improperly, staples or cleats can damage wood flooring. If the tool is not adjusted properly the staples/cleats may not be positioned at the proper angle and cause blistering, peaking, squeaking, or crackling of the floor. Some models may require the use of an adapter to adjust for proper thickness.

**Test the tool on a piece of scrap material first:** Set the stapler/nailer flush on the tongue side of the plank and install a staple/cleat. Should the staple/cleat penetrate too deeply reduce the air pressure. If the staple/cleat is not deep enough then increase the air pressure using an in-line regulator. The crown of the staple/cleat should sit flush within the nail pocket to prevent damage to the flooring and to reduce squeaking. Teckton is not responsible for damage caused by mechanical fasteners.

### MINIMUM FASTENER LENGTHS

**For 1/2" thick products:** minimum length is 1-1/2".

**For 9/16" thick products:** minimum length is 1-1/2".

**For 5/8" thick products:** minimum length is 1-1/2".

Read and follow the manufacturer's instructions for complete set-up and operation of equipment.

### USING ADHESIVE IN A NAIL DOWN INSTALLATION

For any engineered flooring that is installed above grade, PVA-type adhesive may also be applied in a "glue assist" to flooring boards that are being nailed or stapled down. This may help with noise/squeak abatement. Adhesive may be applied in a 1/8" bead in a serpentine pattern to the underneath side of the board before nailing or stapling down. Alternatively, a 1/8" bead of glue may be applied directly to the subfloor 1" away from the tongue of the previously installed row of flooring. If a glue-assist method is used, underlayment should not be applied to the subfloor. Adhesive should be in direct contact with both the flooring and subfloor.

### GETTING STARTED

1. After the subfloor has been properly cleaned and prepared, cover the subfloor with 15lb asphalt felt paper. This material will help to keep the floor clean and help to retard moisture from below. If the subfloor is nailed to a concrete subfloor a proper moisture barrier is required.
2. Establish a starting point. An outside wall is best: it's most likely to be straight and square with the room.

Measure out from this wall, at each end, the overall width of the plank including the tongue and the space needed for expansion.

3. Snap a chalk line from these points, parallel to that wall.
4. Install the first row of starter planks along the chalk line/straightedge and secure into position with the tongue facing away from the starter wall (toward you). This first row or two will have to be face-nailed with 1-1/4" or 1-1/2" finish nails. Countersink nails and fill with appropriate colored wood filler and remove excess filler from surface.
5. Blind nail/staple at a 45° angle into the nail/staple pocket on the tongue side, 2" from the end joints.
  - For 1/2" flooring, nail or staple every 4" to 6" down the length of each board.
  - For 9/16" and 5/8" flooring, nail every 6" to 8" down the length of each board.
6. Short boards should have a minimum of two fasteners per board.
7. Depending on the width of the flooring it may be necessary to top nail the first row prior to using a pneumatic stapler/nailer.

**NOTE: Accurate alignment is important. Uneven starter rows can cause sides and ends to gap in proceeding rows of flooring. With the starter rows complete, you can begin the next row.**

### INSTALLATION

8. Continue to install the flooring making sure to nail/staple 2" from the ends and following the proper nailing schedule for the thickness of flooring (see above). Make certain the tool is adjusted properly to ensure that the fastener is at the proper angle and is flush within the nail pocket. As you continue working across the floor try to maintain a six-inch minimum space between end joints. Randomly install different lengths to avoid a patterned appearance.
9. If needed use a tapping block to help engage the boards together until the tongue-and-groove is flush and tight and no gaps are present between adjacent planks.

**NOTE: Never strike a rubber mallet or hammer directly on the flooring to engage the tongue-and-groove. This practice can damage the flooring and/or the finish. Use a tapping block if necessary.**

10. As you approach the end wall it may be necessary to rip the width of the last row. Be sure to allow for the

expansion along the end wall. Once the final cuts are made set planks into place.

11. The last few rows will need to be fastened by hand. To fasten the final planks into place, you must either blind nail or face-nail through the surface on the final planks, or use appropriate adhesive. Countersink nails and fill with appropriate colored wood filler and remove excess filler from surface with a clean rag and approved cleaner.

### VII. COMPLETE INSTALLATION (ALL METHODS)

1. Sand and finish the floor per the finish manufacturer's recommendation.

### VIII. MAINTENANCE

1. Maintain the floor per the finish manufacturer's recommendations noting the warranty exclusions listed on the Teckton warranty page.