

Installation Guide - Interior Wall Paneling

READ THIS ENTIRE DOCUMENT THOROUGHLY BEFORE RECEIVING YOUR PANELING and follow throughout the installation process. Failure to do so will void the warranty.

INSPECTION

IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSPECT THE PRODUCTS PRIOR TO INSTALLATION. If, BEFORE INSTALLATION OR DURING INSTALLATION, you discover any product that has obvious defects, does not match the order or if for any reason you are not satisfied with the material, please contact reSAWN TIMBER co. immediately. **DO NOT** install the paneling. reSAWN TIMBER accepts no responsibility for costs of products or labor when products with visible defects have been installed nonetheless.

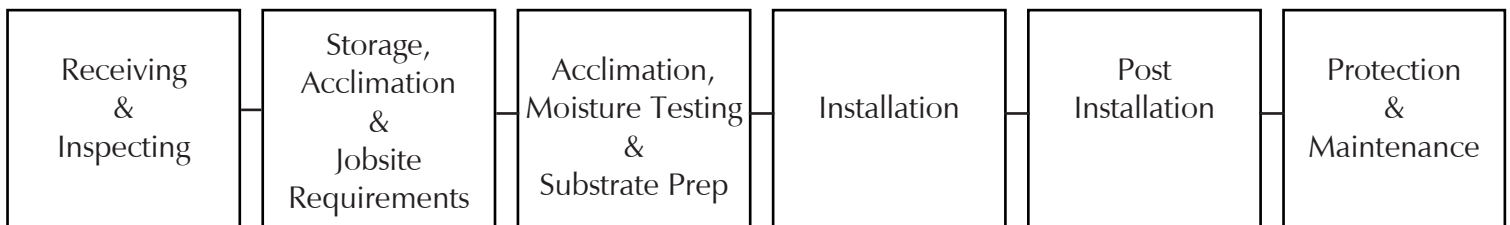
ACCLIMATION

As wood is hygroscopic and responds to changes in temperature/humidity, proper acclimation is the most important step in ensuring a proper installation. Acclimation refers to the moisture content of the wood paneling and the substrate plus the conditions of the job site in terms of Temperature and Relative Humidity. Improper acclimation can cause a host of issues such as buckling, shrinking and/or cupping after installation. See further instructions below.

SUBSTRATE PREP

Walls, Plywood Sheathing, and/or Furring Strips must be smooth, clean, dry and relatively straight. Improper substrate preparation can make the paneling unstable and cause premature damage. See further instructions below.

These guidelines cover the following Sections:



NOTE: This guide is provided as a reference. The user is responsible for proper installation of this product. The products must also be installed in strict accordance with all applicable building code requirements and other regulations. In addition, if not specifically covered by reSAWN's installation guide, the product must be installed in accordance with generally accepted construction practices.

reSAWN's paneling is not intended for exterior use. This product is intended for use in normal, dry interior environments only and must be kept dry and protected from moisture at all times.

RECEIVING & INSPECTING

IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSPECT THE PRODUCTS PRIOR TO INSTALLATION.

RECEIVING

Orders are shipped freight prepaid by Common Carrier or truckload Carrier. If your order arrives damaged due to shipping, note the damage on the freight bill before signing the bill of lading and contact your supplier immediately. Do not un-bundle your order and do not proceed with installation.

INSPECTING

Inspect the paneling prior to installation. Ensure adequate lighting for proper inspection. If, BEFORE INSTALLATION OR DURING INSTALLATION, you discover any product that has obvious defects, does not match the order or if for any reason you are not satisfied with the material, please contact your supplier immediately. **DO NOT** install the paneling. reSAWN TIMBER accepts no responsibility for costs of products or labor when products with visible defects have been installed nonetheless.

Commencement of work by installer is considered an acceptance of paneling materials, substrate, the jobsite itself including ambient temperature and relative humidity at the time of installation, and all impacting variables that may affect a wood paneling. No warranty claim will be accepted for paneling which is visibly wrong if such paneling is installed. Installed paneling is deemed to be visibly acceptable. Since wood is a product of nature, not plastic, standard industry practice allows for up to 5% (10% for reclaimed) of paneling shipped to have milling, handling, finish and/or grade defects. Pieces determined to have such defects should not be installed or if possible installed in an inconspicuous location where these defects will not be seen nor impair the functionality of the walls.

STORAGE, ACCLIMATION & JOBSITE REQUIREMENTS

STORE THE PANELING IN THE PROPERLY CONDITIONED INSTALLATION AREA FOR A MINIMUM OF **72 HOURS** BEFORE INSTALLATION TO ALLOW PANELING TO ADJUST TO ROOM TEMPERATURE.

STORAGE/ACCLIMATION

Store materials in clean, dry area indoors on flat, level surface. Do not store boxed directly on concrete or near outside wall. These wood planks need adequate acclimation for moisture equalization prior to installation. For solid planks, acclimation can be facilitated by opening the packaging and separating the planks into smaller lots. We recommend stacking the paneling, with $\frac{3}{4}$ " to 1" dry sticks between each layer of paneling to allow air circulation on all sides of the boards. For engineered planks, if possible, leave engineered wood planks in their sealed packaging until time of actual installation. Do not remove from packaging and acclimate like solid planks. If packaging was removed as a necessity to unload materials upon delivery, restack bundles onto the pallet in the installation area for storage/acclimation.

Store the paneling in the properly conditioned installation area for a minimum of **72 hours** before installation to allow paneling to adjust to room temperature. See jobsite requirements below for proper conditioning of installation area.

JOBSITE REQUIREMENTS

Prior to installation, the installer must ensure that the jobsite and substrate meet the requirements of these instructions. reSAWN TIMBER co. accepts no responsibility for paneling failure resulting from unsatisfactory jobsite conditions and/or substrate conditions.

All work involving water or moisture should be completed before installing hardwood paneling. For any new construction or remodeling project, hardwood paneling should be one of the last items installed.

HVAC systems must be operational and controlling site temperature and humidity. Area to receive paneling [and adhesive] must be properly conditioned at normal occupancy temperature (**60-70°F (15-21°C)**), and humidity levels (**35-55% humidity**), maintained for a minimum of **one week** prior to installation as well as during and continuously following installation. Do not install in areas subject to moisture.

Properly Conditioned Jobsite - maintain for 1 week prior to and continuously following installation	
TEMPERATURE	RELATIVE HUMIDITY
60-70°F (15-21°C)	35-55%

ACCLIMATION, MOISTURE TESTING & SUBSTRATE PREP

ACCLIMATION

Besides acclimating the wood paneling to the installation area as described in the previous section, Acclimation also refers to the moisture content of the wood paneling and the substrate.

Upon delivery, check wood paneling moisture content with a moisture meter to establish a baseline for required acclimation. Check the moisture content of multiple boards. A good representative sample is typically 40 boards for every 1,000 square feet of paneling. Acclimate to moisture content % appropriate for your area -- see NWFA Guidelines - Appendix D for a map of the USA and recommended MC% by state.

MOISTURE TESTING & SUBSTRATE PREPARATION

KEEP DETAILED DOCUMENTATION OF TEST RESULTS AND ALL TEST LOCATIONS.

reSAWN TIMBER co. is not responsible for any paneling failure caused by substrate conditions.

For Plywood Sheathing, and/or Furring Strips:

Perform tests so that each test area does not exceed 200 square feet (18.6 sq. m), and perform no fewer than two tests in each installation area and with test areas evenly spaced in installation areas.

Plywood sheathing, and/or Furring Strips must have a moisture content under 12% and within 4% of the moisture content of the paneling material for material less than 3 inches wide; within 2% of the moisture content of the Paneling material for material 3 inches or wider. If you record excessively high readings in one or more areas, do not proceed with installation until the origin of the moisture is identified and moisture problems are remedied. Pay special attention to exterior and plumbing walls. Never install paneling over 'green' plywood, or furring strips.

For New Buildings:

Do not install paneling until new plaster and masonry have had sufficient time to dry out. Before moisture testing begins, new plaster and masonry must be fully cured for at least 60 days. It is recommended that you perform an electrical impedance and electrical resistance test with a moisture meter (such as Tramex).

"DRY" SUBSTRATES, AS DEFINED BY THESE TESTS CAN BE WET AT OTHER TIMES OF THE YEAR. THESE TESTS DO NOT GUARANTEE A DRY SUBSTRATE. reSAWN TIMBER co. is not responsible for site related moisture issues.

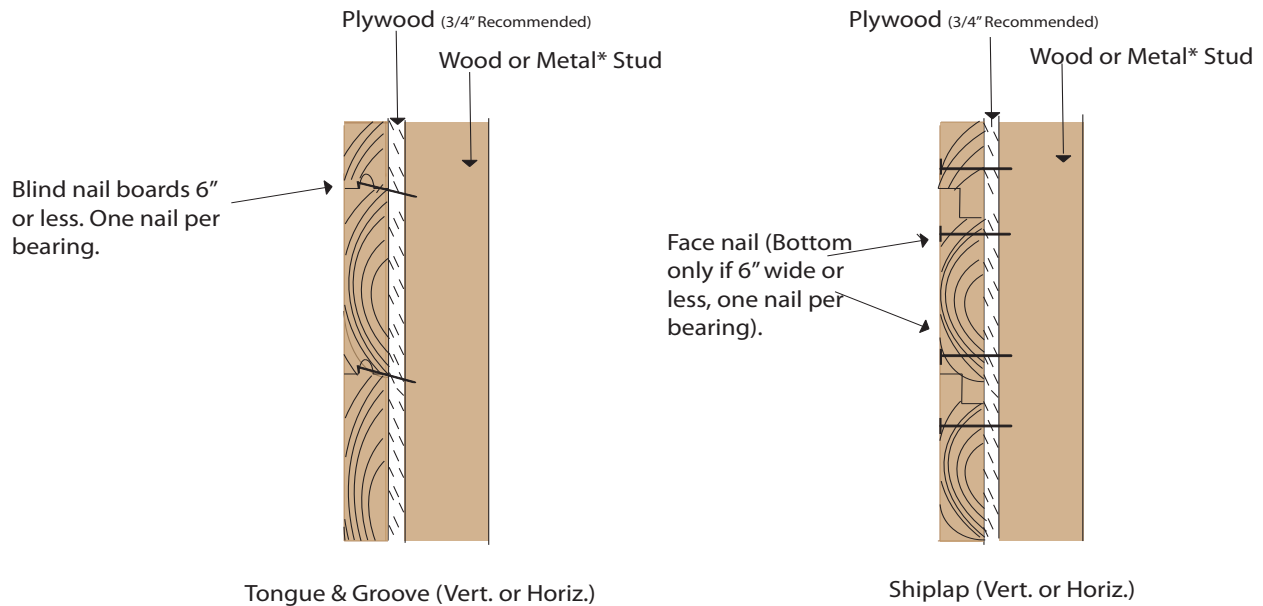
For Exterior Facing Walls & Installations Over Masonry:

Due to the concern of moisture, when paneling is installed on the interior side of exterior facing walls or over a masonry or concrete wall, we recommend installing a continuous vapor barrier **between the paneling and the supporting structure**. An impermeable vapor barrier with a perm rating of .15 or less, such as a 6 mil polyethylene film is recommended.

INSTALLATION

reSAWN TIMBER co.'s Wall Paneling can be installed above-grade or on-grade, but is not recommended for installation below grade. This product is intended for use in normal, dry interior environments only and must be kept dry and protected from moisture at all times.

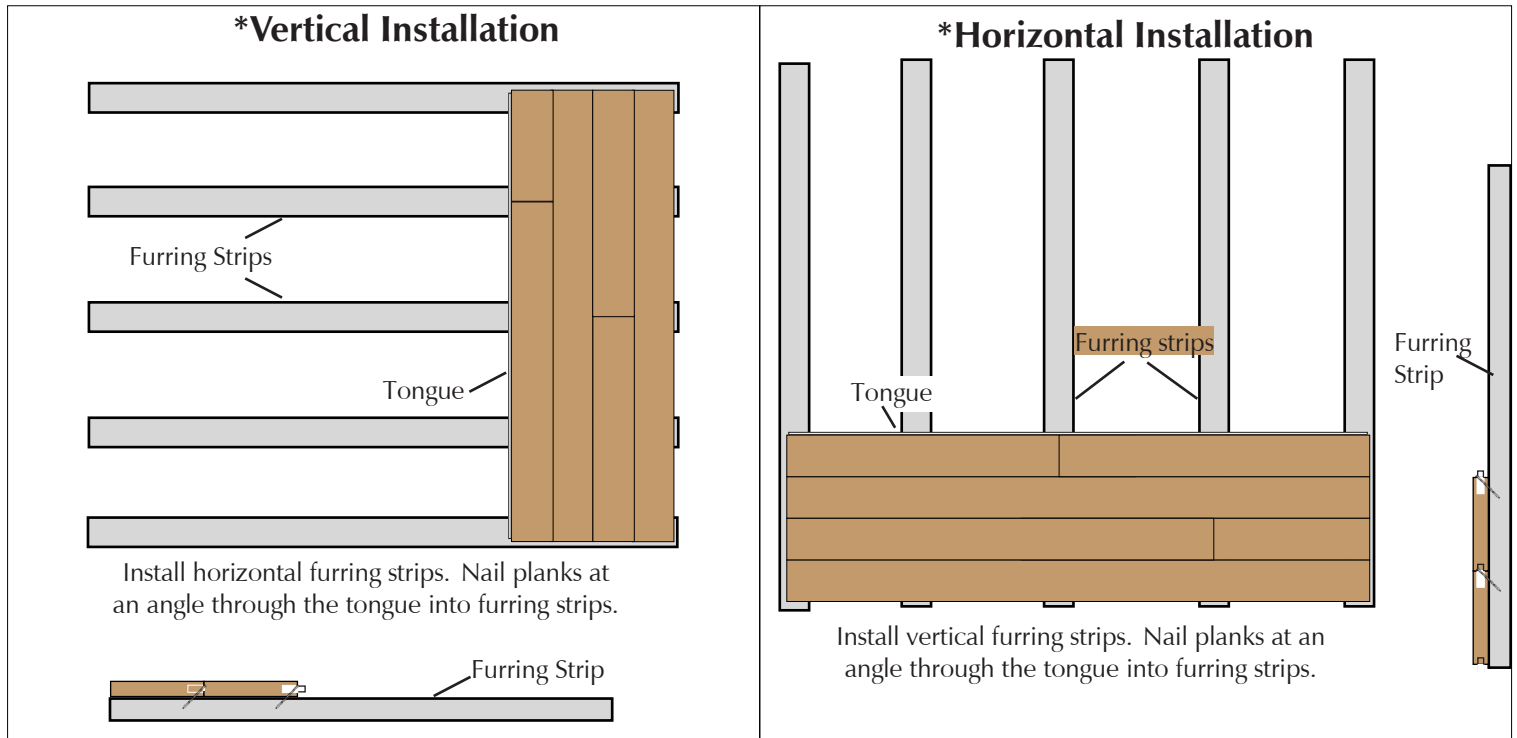
WE RECOMMEND NAIL/STAPLE INSTALLATION OVER PLYWOOD SHEATHING



*We do not recommend nailing into metal studs.

INSTALLATION OVER FURRING STRIPS

If substrate conditions require furring strips, planks can be nailed/stapled directly to furring strips. For installation requiring furring strips, if the planks are to be installed in a Horizontal Orientation, furring strips should be installed vertically. If installing the planks in a Vertical Orientation, furring strips should be installed horizontally (refer to diagram on next page). Install 1X4 furring strips spaced at a maximum of 36" and a minimum of 16" apart.



When tape is used to hold planks in place, the following tape must be used: *ScotchBlue™ Painter's Tape Advanced Delicate Surface* Visit <http://goo.gl/um1kqr> for more info.

As stated in the Technical Specification, reSAWN TIMBER co.'s wood planks have a Class B or C Fire Rating depending on the product. Most products can be fire treated to Class A. If Class A is required, please refer to furring strip install over gypsum board*.

For installation requiring furring strips, if the planks are to be installed in a Horizontal Orientation, furring strips should be installed vertically. If installing the planks in a Vertical Orientation, furring strips should be installed horizontally (refer to diagram on next page). Install 1X4 furring strips spaced at a maximum of 36" and a minimum of 16" apart.

PLEASE NOTE: It is the duty of the installer to judge the suitability of any piece for placement in an obvious area of the room. If you feel a piece is not suitable, either do not install it or install it in an inconspicuous place.

PREPARING FOR INSTALLATION

Be sure to follow proper substrate prep and moisture testing as outlined in the previous section. Remove door thresholds and trim and replace after paneling installation. Always leave at least 1/2" expansion space between paneling and all other permanent obstructions. Use wood or plastic spacers during installation to maintain this 1/2" expansion space.

Before installing, test a sample to make sure that stapling/nailing will not cause "dimpling" (localized raised edges) on the finished paneling. If dimpling does occur, **STOP** and adjust the stapler/nailer shoe and angle/place of staple entry in order to avoid it. **reSAWN TIMBER co. is not responsible for dimpling.**

Finishing prior to Installation

reSAWN TIMBER co. recommends ordering materials prefinished for ease of installation. However, if ordered as unfinished, materials should be finished PRIOR to installation. Since polyurethane is self-leveling, it is best to lay out the individual panels horizontally (on saw horses, for example), and spray or brush the polyurethane on before installation.

Starting Installation

Leave a gap of 1/2" at each wall surface for expansion and start to install the first row at a corner. Install the plank with the groove facing the floor if installing in a horizontal orientation, or with the groove facing the closest corner if installing in a vertical orientation. Establish a straight working line either by snapping a chalk line or using a laser level. Secure the first row by nailing into the tongue to the sheathing (or furring strip) and secure the groove side of the plank by face nailing into the sheathing. Insert the nails into the tongue at an angle and use enough force to have the nail flush with the surface of the tongue. If done properly, the groove of the next board should slide easily over the nails on the tongue of your previous plank.

Checking to make sure you are keeping the plank straight, continue nailing the plank until you get to the end of the plank. For nail/staple installations to furring strips, planks will need to be cut to ensure that ends land on the furring strip. This is not necessary when installing over plywood sheathing.

Install your next row by sliding the grooved side on the tongue of the first row. Stagger end joints of boards row to row a minimum of 8-10" for 3" to 5" planks, and 10" for planks wider than 5". Use a hammer and tapping block and tap against the tongue to pull planks together. Never tap against the groove of the plank. When near an edge, use a crow or pull bar to close end joints or tongue and groove. Be careful not to damage paneling edges. All of reSAWN TIMBER co.'s wood paneling is milled to very exacting standards, so pieces that do not go together easily usually have debris in the groove, the tongue and/or groove has been damaged, or the board is a little bowed and you just need to flatten it out, rather than forcing the pieces together.

Since the groove side is now secured by the tongue of the first row, there is now no need to face nail the board on the groove side. Continue to install rows. Check every two-three rows that you are still straight.

The space for the last row may be narrower than the width of the planks. Measure for the width needed and cut along the tongue. Use a crowbar as necessary to assist the last board into place. Nail this last board along the face.

Nail/Staple Installation Equipment

Use stapler/nailer of your choice that is suited for the material being installed. For engineered paneling, we recommend Bostitch's 18 Gauge Flooring Stapler - EHF1838K. Use fasteners of appropriate size - see NWFA guidelines for fastener schedule (Appendix F). Make sure that the nail gun's faceplate does not damage the finish of the wood being installed. 3M Blue tape can be placed on the faceplate to prevent damage.

POST-INSTALLATION

Remove expansion spacers. Reinstall trim to cover expansion space. For where two walls meet on an inside or outside corner, trim pieces can be purchased to cover the gaps.

Immediately following installation, clean and remove all dirt and debris from paneling by dry dusting. All knots, cracks, etc. can be filled with an epoxy filler or the wood filler of your choice. If prefinished with Hardwax Oil, clean using the 'Surface Care Spray' included with your order. See reSAWN TIMBER co.'s Care+Maintenance Guide for instructions.

PROTECTION and MAINTENANCE

Follow reSAWN TIMBER co.'s Care + Maintenance Guide (available at resawntimberco.com) to ensure the longevity and lasting beauty of your new paneling.

PROTECTION

Wood is subject to fading when exposed to direct sunlight. Whenever possible, use drapes or other systems to protect your paneling from excessive light. Wood expands/contracts in response to fluctuations in temperature/humidity. Maintaining the recommended temperature (60-70°F (15-21°C)) and relative humidity (35-55%) will minimize the visible effects of normal expansion/contraction. *In very dry climates, a humidifier may be necessary.* Wood is photosensitive & will change color as they are or are exposed to UV light. This natural occurring phenomenon is NOT considered a material defect and is excluded from coverage under the provisions of reSAWN TIMBER co.'s warranty. You can minimize the effects by using light filtering window treatments that will help prevent sunlight exposure.

Refer to reSAWN's CHARRED TechSpecs for species specific exterior recommendations & exterior install guidelines.