

Evolution Wood Plank System Installation Instructions Featuring VacuuBond® Peel & Stick + Guided Tongue & Groove



Read the instructions completely before starting the installation to avoid failure and warranty exclusions.

EWP is primarily installed as flooring, but it can easily be installed on walls and ceilings as Wallplanks®. These instructions still apply to walls and ceiling installations.

Tools & Accessories Needed: Broom / Vacuum / Saw(s) / Pencil / Tape Measurer/ Chalk Line/Paint Roller/ Tapping Block / VacuuBond® Primer or VacuuBond® Membrane / Crowbar/ Safety glasses

VacuuBond® Installation Preparations:

1. Flooring must be between 60° F and 80° F before installation can start. If the flooring boards have been stored off site and they are below 60° F, you **MUST** wait until the boards are at the minimum installation temperature before starting. **Important: See Proper Site Conditions & Handling**
 - **Installation should not take place in temperatures below 60°**
 - Sub-floor preparation is the most important step in preparing to install your new **VacuuBond®** hardwood floor: **Important: See Subfloor Types & Walk Through Site Recommendations**
2. It is vital and required that the sub-floor is **clean and dry**. Dust remaining on the sub-surface will prevent proper adhesion, and moisture will prevent long-term adhesion and possibly warp boards. To ensure a great, lasting install, sub-floor should be cleaned thoroughly or primed with **VacuuBond® Primer and/or VacuuBond® Membrane** depending on the subfloor
 - i. Primer is used for most sub-floor installations and dries in 30-40 min. Primer should be applied on any sub-floor that could be porous like existing well-dry concrete or plywood or where you are unsure that all dirt/dust has been completely removed. Avoid collection of dirt or dust on top of the primer. VacuuBond® will not seal on dust.
 - ii. Membrane is required for any sub-floor with moisture risk. This includes below grade installations and concrete poured less than *at least* 6 months prior to flooring installation. Concrete should dry for min. 1 month before applying membrane. Membrane dries in 4 hours.

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Applying Primer or Membrane:

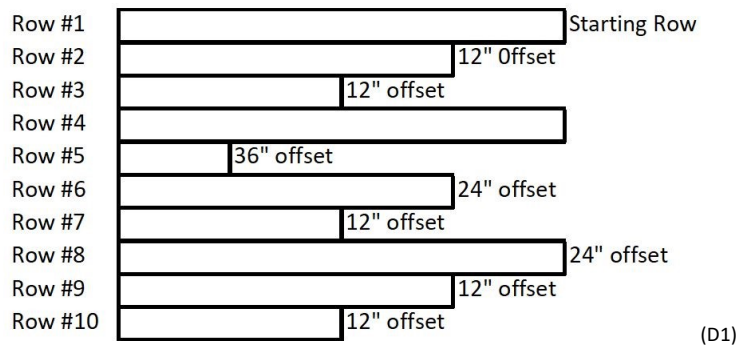
Both the Primer and the Membrane can be applied with a paint roller. To apply on floors, we recommend one with a long handle.

1. **Primer** (for above grade installations): Apply a thin coat of primer to the sub-floor and allow time to dry. Dry for approximately an hour, must be dry to the touch.
2. **Membrane** (for below grade installations): Apply Membrane to the entire floor prior to installing your VacuuBond® flooring and allow 4 hours to dry.
3. Make sure you are rolling slowly and carefully near your walls to avoid any spatter. This applies to both the primer and the Membrane.

Installation Procedure:

Read first before starting installation

1. Determine starting wall and direction to lay boards. An outside wall is normally best as it is most likely straight and square with the room.
2. Start by opening 4 to 6 cartons of flooring and inspect color range, quality, and lengths. Select the boards you wish to install. Follow appropriate rules for measuring and laying your staggering sequence. A general rule of thumb is to have a minimum of a 12" offset (+/- 2") and not to repeat the same seam for 2-3 rows. Please see the sequence example below.



3. Always work out of several cartons at the same time to insure a good visual mix of your boards.

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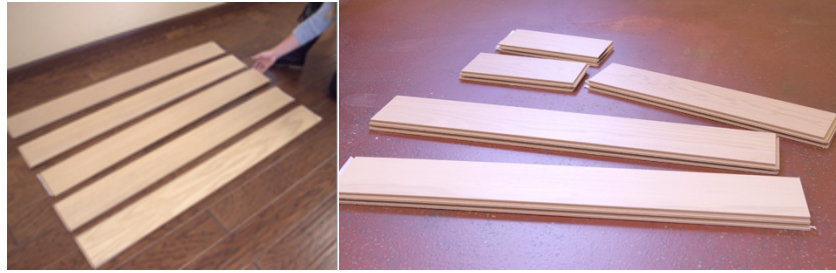
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4. Determine your starting line and make sure to include expansion space ($\frac{1}{4}$ " - $\frac{1}{2}$ "). To do this, hold one board width from the wall, then another board perpendicular to that. The thickness of a board is around $\frac{1}{4}$ ". Snap a straight chalk line on the subfloor next to the beginning wall, making sure the chalk line is $\frac{1}{4}$ " - $\frac{1}{2}$ " wider than the width of one board.
5. Lay the tongue side of the flooring towards the starting wall with the groove side on the chalk line. Clean up any excess chalk debris.
6. When cutting boards, cut them AWAY from your installation area. Saw dust on the sub-floor will make the adhesive not stick. This will void the cleaning and priming work you have done. Keep the sub floor clean during installation.



Important: For successful installation, use diagram #2 above and install the boards in the order as indicated for the first two rows and use D1 sequence example to determine proper measurements and make sure your installation is starting on the straightest possible line. You will install from left to right.

STARTING INSTALLATION

- A. Pull the release paper from the back of board 1 (PRO TIP: when removing the paper, peel it off quickly at a 45 degree angle) and place the board as indicated above, making sure to line up the groove of the board with the chalk line and the tongue with the wall. Align the end of the first board about $\frac{1}{4}$ " - $\frac{1}{2}$ " from the left wall.
- B. Remove the release paper and place board 2 with the tongue facing into the groove of board 1 on the chalk line.
- C. Remove the release paper and place board 3 with the tongue into the groove of board 1 and the end butting up tightly to board 2.

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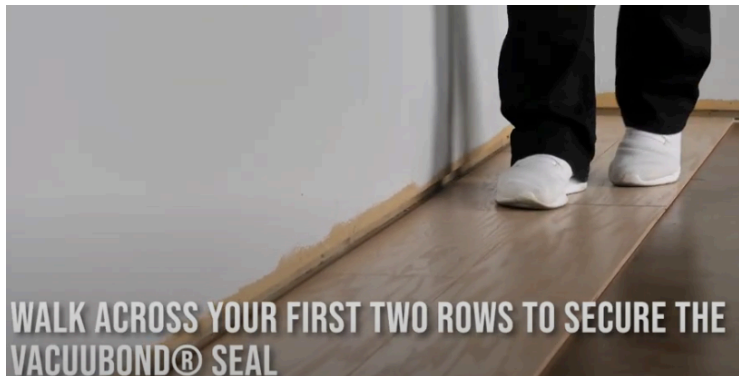
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- D. Place board 4 with the tongue facing the wall again, slide the groove to the tongue of board 3 and make sure the edges are still aligned with the chalk line. Make sure that the joints between boards 3 & 4 and 1 & 2 are square and that the long side fits tight.
- E. Continue alternating boards until you reach the right wall with the first two rows. You will cut boards to fit on the right side of the room. IMPORTANT: When you cut boards, cut them away from the installation area. Saw dust over the primer will make the Vacuubond not stick.
- F. Once the first two rows are completed, walk “heel to toe” across the length of all boards to expel the air from under the board and create the **VacuBond®** suction. Make sure the adhesive has made full connection to the subfloor.



- G. You can lay down row three and all following rows in order, from left to right *without alternating as in rows one and two*. Once you start laying down the third row, we recommend you “just step on it” (shown in instruction video, time 5:21) to make sure each board is tight to the row before it. You may also gently use a tapping block on ends if needed.
- H. Make sure to walk “heel to toe” across the length of every board installed to expel the air from under the board and create the **VacuBond®** suction. Make sure the adhesive has made full connection to the subfloor.
- I. **Rows 3 and beyond:** Cut off the end of the final board at the end of each row and save this remaining piece for the next row (if it is at least 8" long). Start each new row with the remaining piece from the previous row (if it is at least 8" long); or cut a new board. Stagger end joints (at least 12") and randomly install different lengths to ensure a natural appearance. Do not create discernible patterns such as “H” or “steps.” Select boards to create a uniform appearance without clusters of short lengths or areas of only light or dark planks. Do not install any objectionable boards that have visual defects

Maintain expansion gap equal to thickness of the floor (1/2" or 1/4") around the perimeter of the entire floor.

- J. Continue this process across the room. The last board should be ripped to the necessary width allowing for 3/8" to 1/2" expansion space against walls and all vertical obstructions, such as cabinets, door jams, columns, and kitchen islands.

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Notes

- Do not install **VacuuBond® Floors** in excess of 50 feet in length or width without the use of transitions.
- For door jams, do not remove the backing paper, as it is exceedingly difficult to position the boards. Instead, apply PVA tongue and groove glue in the grooves of the board. Make sure to leave the expansion gap.
- Use transitions on doorways and other adjacent floors.

Completing the Job:

- 1.) Install molding and trim making sure not to nail into the hardwood flooring.
- 2.) Sweep or vacuum the floor. Clean the floor with an approved hardwood flooring cleaner.
- 3.) If necessary, to protect the finish during construction, cover the floor with rosin paper or another type of breathable wrapping.

Proper Site Conditions & Handling:

1. The building must be fully constructed and enclosed. It is essential that masonry, dry wall, paint, and all other 'wet' work be completed and allowed to thoroughly dry as this will affect the moisture level at the job site.
2. The exterior landscape should be complete with all gutters, downspouts and drainage directing rainwater away from the building. Crawl spaces must have adequate cross ventilation. There must also be at least 24" from the ground to the underside of the joists. Ensure exterior landscaping is complete and graded away from the foundation.
3. Permanent HVAC systems must be working and in operation 14 days prior to installation to stabilize the interior environment at normal living conditions and to acclimate the flooring. The HVAC must also be in operation during and after the installation to ensure a stable environment to protect the hardwood floor. Ideal conditions are always a temperature between 60-80 degrees Fahrenheit (15-26 degrees Celsius) and relative humidity between 30-60% during and after installation. The use of a humidifier or dehumidifier may be required to maintain these conditions.
4. Engineered wood flooring can be installed on, below or above grade level, but should not be installed in full bathrooms or other wet environments.
5. Take care when transporting and unloading hardwood flooring at the job site. Store the hardwood flooring in a safe dry place making sure to provide a 4" air space under cartons that are stored upon "on-grade" concrete floors. Flooring should be stored in small lots in the rooms where the installation will take place and allowed to properly acclimate to the job environment.
6. Flooring should be allowed to acclimatize for at least 48 hours (about 2 days) or until conditions are normal and meet minimum installation requirements for moisture content. Store the wood flooring in the unopened boxes at the installation area. Do not store the boxes of flooring directly on concrete or close to a wall. DO NOT OPEN more than a few boxes in advance of installation and only the number of boxes that will be installed within the next few hours. Only open enough boxes to ensure a good mix of lengths and color.

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7. Moisture content should be checked with the appropriate device to ensure proper installation conditions. Moisture content of wood subfloor should not exceed 9% and the moisture content of the wood should be within 2% of the subfloor.
8. Concrete sub floors must be fully cured for a minimum of 60 days and **or** dry (3lbs or less/24 hours /1,000 sq. ft., with a calcium chloride test) or less than 75% with relative humidity probes (in-situ testing)
9. Always store wood flooring in a controlled environment of 60 - 80° Fahrenheit (15° - 26° Celsius) and 30% -60% relative humidity.

Subfloor Types & Walk Through Site Recommendations:

- 1.) Particle board and plywood are approved sub-floors for **VacuBond®** applications. OSB must be a high grade with a heavy concentration of adhesive.
- 2.) Make sure concrete is flat, dry, structurally sound, and clean.
- 3.) **Important:** Sub-floor should be flat to 1/8" within an 8' radius.
- 4.) Site conditions must be between 60° F and 80° F.
- 5.) Allow for an expansion space equal to the thickness of the floor (i.e. 3/8" or 1/2") around all vertical obstructions.
- 6.) No area of connected floor can span greater than 50' in width or 50' in length without allowing for additional expansion space beyond the standard 3/8" to 1/2". Installations larger than 48' require T-Molds or other transition pieces in addition to the extra spacing.
- 7.) Note: Minor occasional noise (such as squeaking) within the flooring is inherent to all hardwood flooring applications and can occur as environmental conditions change.

GENERAL RECOMMENDATIONS FOR TONGUE & GROOVE HARDWOOD FLOORING INSTALLATION. 3/8", 1/2", 9/16", 5/8", 3/4". We recommend the installer follow all guidelines set forth by the National Wood Flooring Association (www.nwfa.org) for job site, subfloor, and general installation recommendations. Engineered hardwood flooring can be installed on all grade levels; on grade, above grade and below grade. This includes installation directly to concrete, terrazzo and wood sub floors, or over existing ceramic tile, wood and vinyl floors, with proper preparation. **Installer/Owner Responsibility:** It is the responsibility of the owner/installer to inspect the flooring. It is also the owner/installer's responsibility to ensure the jobsite conditions, and that jobsite subfloors are environmentally and structurally acceptable prior to the beginning of installation. Prior to installation, the owner and/or installer are responsible for the final inspection of materials and is encouraged to report any deficiencies in grade, manufacturing, and finish directly to the seller. Should an individual piece be questionable or not meet standards, it should not be used. Materials installed with visible defects will not be covered by the warranty. The owner and/or installer are responsible for ensuring that the proper installation conditions and appropriate subfloors meet or exceed all NWFA industry standards. Proper installation can be affected by adverse moisture content in the product, humidity at the job site, acclimation of flooring to local site conditions, preparation of job site, preparation of subfloor, and flooring layout. The sub-floor must be clean, flat, dry and structurally sound. We recommend ordering an additional 5% above the actual square footage requirements to allow for cutting and grading of material. Due to inherent variations with wood flooring product, the installer must work out of 4-5 cartons simultaneously to ensure proper blending across the floor.

RADIANT HEAT EXCEPT FOR 2mm HICKORY SELECTIONS

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This flooring is warranted for installation over hydronic radiant heat if installed per these instructions. However, flooring is not warranted over electric radiant heat systems. Only hydronic systems are approved. Please carefully read the “Radiant Heat” section below before finalizing product selections.

- When installing engineered wood flooring over radiant heat, follow all directions in addition to the directions below.
- Flooring is not warranted for use over radiant heat systems heated by electric elements. Only hydronic systems are approved. Hydronic systems must include in-floor temperature sensors and a wall thermostat that allows the system to adjust the water temperature according to anticipated heat loss. Flooring installed in multi-unit projects where the water temperature is not regulated separately in each unit is not warranted.
- Prior to installation over radiant heat, moisture testing must be conducted and documented per ASTM 1869-89 (Calcium Chloride Test) or for wood sub-floors, using a pin type meter. The moisture content for concrete subfloors must not exceed 3.0 lbs. per 1000 square feet per ASTM 1869-89 (Calcium Chloride Test), and the moisture content for wood subfloors must not exceed 12%. If moisture levels exceed these limits, **do not install the flooring.**
- The surface temperature of the subfloor must never exceed 82°F in any location. The temperature setting must always remain within 15°F of normal operating level and should never be turned completely off. Excessive heat, rapid heating, and/or failure to maintain humidity levels between 30% and 60% are likely to cause cracking, cupping, and other forms of floor failure. Slight surface checking (cracking), particularly at the ends of planks, should be expected in installations over radiant heat and do not constitute a product failure.
- All concrete must be allowed to properly cure and dry for a minimum of 4 weeks prior to the operation of the radiant heat system. The system should then be operated at least 2/3 maximum output for a minimum of 2 weeks prior to installation to further allow moisture from the subfloor to dissipate and reach equilibrium. This procedure must be followed regardless of the time of year. Four (4) days prior to flooring installation, reduce thermostat to 65°F.
- As always, relative humidity of the jobsite must be maintained between 30% and 60%. Use of a humidification/dehumidification system may be required to maintain the proper humidity levels, particularly over radiant heat. Failure to maintain proper humidity levels will void all warranties.
- Beginning 48 hours after installation, slowly raise the temperature of the heating system to its preferred operating level over a period of 5 days.

Asbestos Warning on Job Site:

Do not sand existing resilient tile, sheet flooring, backing or felt linings as these products may contain asbestos fibers that are not easily identified. The inhalation of asbestos dust can cause asbestosis or cause other serious bodily harm. Check with local, state and federal laws for information about handling hazardous material before trying to remove these floors.

Wood Dust WARNING: Wood dust contains a chemical known to the state of California to cause cancer. Approved respirators may be needed depending upon dust conditions. Sawing, sanding and/or machining wood

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products can produce wood dust, which can cause a flammable or explosive hazard. Wood dust may also lead to lung, upper respiratory tract, eye and/or skin irritation, and some species of wood may cause dermatitis and or allergic respiratory effects. The International Agency for Research on Cancer (IARC) has classified wood dust as a nasal carcinogen in humans. The National Toxicology Program (NTP) has also classified wood dust as a known human carcinogen.

- Avoid dust contact with ignition source.
- Sweep or vacuum dust for recovery or disposal.
- Avoid prolonged or repeated breathing of wood dust in air.
- Approved respirators may be needed depending upon dust conditions.
- Avoid dust contact with eyes and skin. Wear gloves and safety glasses when handling and machining the product.

First Aid: If inhaled, remove to fresh air. If irritation persists, contact a physician.

CLEANING AND MAINTENANCE:

- Prevent Scratches - There is no such thing as a “scratchproof” wood floor, but following these basic procedures will reduce the likelihood and frequency of scratches:
 - Do not drag or roll furniture or other heavy objects across the floor. Rollers from refrigerators, TV’s, stereos, etc. will dent the floor. To prevent the denting first lay 1/2" plywood on the floor and roll the appliance or heavy furniture on the plywood.
 - Place protective mats under chairs with wheels.
 - Felt padding should be permanently affixed to the legs of all furniture before it is moved into the space.
 - Do not allow people to wear spiked heels on the floor, this will damage even the hardest wood floors and finishes.
 - Pet claws should always be properly trimmed.
 - Work boots and shoes that may have pebbles lodged in the soles should be removed prior to entering.
 - Remove Grit - Care should be taken to prevent dirt, sand, and grit from accumulating on the surface of your floor. They will act like sandpaper and abrade the finish. Walk off mats should be placed inside and out at all exterior exits, and the floor should be swept or vacuumed frequently.
 - Mats and Area Rugs - All mats or rugs should be cleaned and/or replaced on a regular basis. They should also be moved occasionally to allow natural color changes caused by light to occur evenly in all areas. Never use latex or rubber backed mats or rugs; they will permanently stain the floor.
 - Avoid Standing Moisture - Water and hardwood floors do not mix. Never wet mop your floor, and always clean up spills and standing water as soon as possible. With water or any other cleaning agent, be sure to thoroughly ring out the applicator or mop prior to applying it to the floor. A damp mop is fine if the moisture is limited to an

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amount that will evaporate quickly. Moisture that can seep into the seams between the planks may cause damage to your flooring. Do not allow soiled mats or rugs to stay on the floor as they can trap moisture on the surface.

RESIDENTIAL LIMITED LIFETIME WARRANTY:

- The finish will not wear through in normal residential conditions with proper maintenance.
- Flooring will be free from manufacturing defects for as long as you own your home (original purchaser only). Manufacturing defects are improper milling, laminating, or assembly.

THIS LIMITED WARRANTY IS MADE SUBJECT TO THE FOLLOWING CONDITIONS:

- The flooring must be used only indoors in residential areas and installed and used in accordance with our installation procedures.
- The installation was done in compliance with the written instructions, and humidity levels are not below 30%.
- No warranty coverage is provided for flooring that contains obvious defects of any kind that were installed, nonetheless.
- The surface wear must not have occurred because of incorrect maintenance or accidents such as damage caused by scratching, impact or cutting. It must be readily visible and be 10% or more of the floor. Gloss reduction is not considered wear.
- Wood is a natural product. Variations in its grain pattern, color and/or texture are normal and are not considered defects. No warranty shall apply to those. The warranty will not apply to the natural color changes which occur in wood over time due to light exposure.

WARRANTY EXCLUSIONS:

- Squeaking, popping or crackling due to low spots, un-even sub-floor, insufficient expansion space
- Color match to other wood products such as moldings, stairs or cabinets.
- Indentations, scratches or damages caused by negligence, exposure to extreme heat, dryness or water saturation (including, but not limited to, a leaky faucet, broken pipe and wet mopping), accidents, abuse, misuse, indentation from high heels or pet nails, pet stains, furniture rollers, stains as a result of chemical or industrial products, failure to follow all the manufacturers specific written installation and maintenance instructions, insufficient protection or improper alterations of the original product.
- This writing is the complete and exclusive statement of the warranty and is in lieu of all other express and/or statutory warranties. The manufacturer assumes no liability for incidental or consequential damages, so this exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state or province to province. The sole remedy provided herein is the repair or replacement of the defective products. Labor for installation is not covered by this warranty.
- No installer, retailer, distributor, or agent has the authority to increase or alter the obligations or limitations of this warranty.

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- All disputes arising out of the purchase of this product or this warranty shall be subject to mandatory and binding arbitration in Wausau, Wisconsin, pursuant to the rules of the American Arbitration Association. Any jury trials are expressly waived.

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