Glue-down Installation
This product is designed to be installed floated without glue, nail or staple. However, it can be glued down.

Glue Requirement
The glue has to be water based acrylic glue and designed for gluing PVC, LVT and other vinyl based flooring.
We do not recommend specific brands. The owner/installer is responsible for ensuring the suitability of their chosen glue for this product.

Installation Skill Requirement
The installer is responsible for having the skill to perform a combined glue-down/click lock.
It requires a special skill as the installer will be performing two method of installation at the same time.
Home Legend is not responsible for damages resulting from installation activities.

Installation grade levels
This product can be installed on, above or below grade levels.

Installation environment
This product must be installed indoors in a controlled normal living environment.

WARNING!
EXISTING INSTALLED RESILIENT FLOORING AND ASPHALTIC ADHESIVE MAY CONTAIN ASBESTOS OR CRYSTALLINE SILICA.

DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEAD- BLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT- BACK" ADHESIVE, OR OTHER ADHESIVES.

See current edition of the Resilient Floor Covering Institute (RFCI) publication “Recommended Work Practices for Removal of Resilient Floor Coverings” for detailed information and instructions on removing all resilient covering structures. They can be found through at: www.rfci.com

Owner/Installer Responsibility
This product is manufactured according to strict quality standards and inspection. However, the owner/installer assumes all responsibility for final inspection of product quality. Inspection of flooring should be done prior to installation. Carefully examine flooring for color, finish and quality before installing it. If material is questionable, contact the retailer immediately.
Color and shade will vary from one production lot to another. These are not manufacturing defects. Flooring to be installed in one continuous floor space should be purchased at the same time. Product purchased at a later time than the first purchase may be of different lot with different shade.
Consider purchasing 5% extra flooring material over the measured area. The extra material will be useful if you encounter damaged pieces, miscalculate the size of the room or miss-cut some pieces. This also will help you if your floor needs a repair but your product model is no longer manufactured.
Prior to installation, rack up planks from several boxes to ensure uniform distribution of color, shades and pattern in the installed floor. Should an individual piece be doubtful as to grade, the installer should not use the piece.
Minor scratches can generally be repaired with the use of putty, stain or filler. It is an industry standard practice of flooring installation and it should be accepted as normal by the home owner.

Job Site Condition
Prior to installation, the installer must determine that the job site conditions meet or exceed standards set forth in this instruction guide. Home Legend will decline responsibility for situations associated with improper installation or poor site conditions. When jobsite elements which include subfloor, humidity and temperature are not within standards, it will cause the flooring panels to expand or contract unacceptably.

Existing Home
Existing home should be in consistent normal living condition, e.g., room temperature of 60°F-75°F and relative humidity (RH) level of 35%-55%. During heating season, humidity level may be much lower than the acceptable range. During the non-heating season, the condition
is reversed. A humidifier and air-conditioner can be used to maintain the desired conditions.

Avoid excessive exposure to water from tracking during periods of inclement weather.

New Construction or Remodel

All work involving water, such as pouring basement concrete floors, drywall and plasterwork, plumbing, etc. must be completed well in advance of the floor delivery.

Your job site should be in consistent normal living condition, e.g., room temperature of 60°F-75°F and relative humidity level of 35%-55%, for a minimum of five days prior to the installation of your flooring. This environment should be maintained continuously thereafter.

Concrete Subfloor

General requirements of concrete subfloor are for it to be clean, flat, dry and cured.

It must be clean. There should not be any construction debris, soil, mud and any other objects on or adhering to the floor. In renovation or remodel work, remove any existing adhesive residue so that 100% of the overall area of the original substrate is exposed. If necessary, scrape and sweep before the installation. No protrusions of nails, debris, metals should remain on the floor.

It must be flat and level. Height variation must be less than or equal to 3/16 inch for every 10 feet, no bumps or low spots.

It must be dry. All concrete subfloors should be tested for moisture content and results documented. Visual checks may not be reliable. Acceptable test methods for subfloor moisture content include the use of Tramex Concrete Moisture Encounter Meter and Calcium Chloride Test (ASTM F 1869). The subfloor is acceptable if the moisture content is either:
1)Less than or equals 5% as measured by Tramex Concrete Moisture Encounter;
2)Less than or equals to 3 lbs. per 1000 square feet per 24 hours as measured by Calcium Chloride test (ASTM F-1869).

It must be cured. New concrete slab must cure for at least 60 days.

NOTE: “DRY” CONCRETE, AS DEFINED BY THE TESTS CAN BE WET AT OTHER TIMES OF THE YEAR. THESE TESTS DO NOT GUARANTEE A DRY SLAB. ALL NEW CONSTRUCTION CONCRETE SLAB SHOULD HAVE A MINIMUM OF 10 MIL POLY FILM MOISTURE BARRIER BETWEEN THE GROUND AND THE CONCRETE.

If excessive moisture is present or anticipated, it must be remedied by the use of appropriate moisture retardant. Possible remedy is concrete moisture sealer. When using sealer, strictly observe ALL sealer manufacturer’s instructions.

Wood Subfloor

General requirements of wood subfloor are for it to be clean, flat, dry and structurally sound.

It must be clean. There should not be any construction debris, soil, mud and any other objects on or adhering to the floor. In renovation or remodel work, remove any existing adhesive residue so that 100% of the overall area of the original substrate is exposed.

If necessary, scrape and sweep before the installation. No protrusions of nails, debris, metals, should remain on the floor.

It must be dry. Wood subflooring materials must not exceed 14% moisture content. Measure the moisture content using a reliable wood moisture meter.

It must be structurally sound. There should not be excessive movements or bouncing. All panels must be fastened to joists without gaps.

Engineered Joist/subfloor Systems

The information provided here applies to common, non-engineered joist/subfloor systems. Newer systems have been developed, such as engineered joist/subfloor systems which may allow for wider joist spacing and thinner subflooring materials.

As flooring manufacturers, we are unable to evaluate each engineered joist/subfloor system. Spacing and spans, as well as their engineering methods, are the responsibility of the builder, engineer, architect or consumer who is better able to evaluate the expected result based on site-related conditions and performance. The installer is responsible for the performance of the flooring when installed upon such systems.

Panel Wood Subfloor

Structural panel wood, plywood or OSB, must be installed sealed side down. When used as a subfloor, allow 1/8 inch (3 mm) expansion space between each panel. If spacing is inadequate, cut in with a circular saw. Do not cut in expansion space on tongue and groove panels.

Plywood Requirements

Minimum CDX grade (exposure 1) and conforming to US Voluntary Product Standard PS1-95 performance standard or Canadian performance standard CAN/CSA 0325-0-92.
The preferred thickness is ¾ inch (19 mm) as a subfloor [minimum 5/8 inch (16 mm)]. When using as an underlayment panel, a minimum 3/8 inch (9.5 mm) thickness is recommended.

**Oriented Strand Board (OSB) Requirements**

Conforming to US Voluntary Product Standard PS2-92 or Canadian performance standard CAN/CSA 0325-0-92 construction sheathing. Check the underside of the panel for codes. When used as a subfloor, the panels must be tongue and groove, and installed sealed side down. Minimum thickness to be 23/32 inch (18 mm) thick when used as a subfloor or 3/8 inch (9.5 mm) as an underlayment.

**Solid Wood Subfloors**

Minimum ¾ inch (19 mm) thick with a maximum width of 6 inch (15 cm) installed at a 45° angle to the floor joists. Group 1 dense softwood (Pine, Larch, Douglas Fir, etc.) No. 2 common, kiln dried with all board ends bearing on joists.

**Existing Subfloors**

Acceptable existing subfloors include: ceramic tile, terrazzo, marble, resilient sheet flooring, polymeric poured (seamless) floors, vinyl composites.

Unacceptable subfloors include: carpet, carpet tiles, needle felt, heavily cushioned vinyl floor, layers of vinyl floors.

**Radiant heated subfloor**

This floor can be installed over radiant heated subfloor. BEFORE installation begins, ascertain that the heating system is designed and controlled for wood flooring and that the circuit does not include other floor covering types. Failure to do so may cause excessive heat damage and shrinkage.

The radiant heating system must be operational and the heat must be on for at least 7 days prior to beginning the installation.

Turn off heat and let subfloor cool down to room temperature 3-4 hours prior to starting the job.

Acclimate the flooring until it is at the same temperature as the subfloor. Then install the flooring. After installation, turn the heating system back on and gradually increase the temperature to the desired level. The finished floor surface temperature must not exceed 85°F throughout the service life of the floor.

**Acclimation**

Acclimate the flooring by allowing it to condition to the normal living room temperature for 48 hours before starting the installation. Normal living condition is defined as: a) temperature range between 60°F to 75°F and b) relative humidity level range between 35% to 55%.

After installation is complete, the same condition must be maintained during service life of the floor. This product should not be exposed to very high temperature as it will deform the shape of the planks.

**Expansion Gaps**

Allow expansion gap of 5/16 inch to 3/8 inch around perimeter of the floor. Allow similar gap around all other vertical structures such as pipes, thresholds and under doors.

Large rooms, which are greater than 49 feet long or wide, require expansion T-molding. Wall openings, with or without door, require expansion T-molding.

**Tools**

You need the following tools to install this product:

- Utility knife, chalk line, chalk, pencil, T-square, tape measure, spacers, broom, hand saw or jamb saw, eye protection, work gloves.
- Adhesive, trowels, glue cleaner, towels.

**Installation Overview**

- Spread the glue width of two initial starter rows.
- Install the first row of planks.
- Install the second row.
- Spread another section of glue.
- Install another two rows.
- Repeat spreading glue/install planks cycle until all flooring has been installed.

**Installation Procedure**

**Step 1**

Ensure that the width of first and last row is not less than 2 inches wide. Measure the distance of room in the direction of the width of the plank. Divide the distance by the width of the plank. Multiply the number beyond the decimal point of the by the width of the plank. This is the width of the last plank. If it is less than 2 inches, you must cut the first plank. Determine the width of the first and the last row by adding the calculated width of the last plank to the width of a whole plank. Divide this number
by two. Subtract the expansion gap from the result. The result is the width of the first and last row.

**Step 2**
Cut off the unsupported tongue of the first row so that a clean, solid edge is towards the wall. If the first row of floor panels had already been trimmed in width to meet minimum requirement, there is no need to trim it again.

**Step 3**
Spread enough glue to allow set time and actual installation time. Different manufacturer may require different open time and set time.

**Step 4**
Install the product from left to right, across the room. Place the floor panel with the locking groove facing the room. You should keep 5/16 to 3/8 inch (5 mm) expansion gaps from the wall and all vertical fixtures during installation. This allows space for the floor panels to expand and contract as the surrounding environment changes.

**Step 5**
Place the short side tongue of the next floor panel at an angle into the short side groove of the first one and fold down. Continue with the next floor panels in the same way.

**Step 6**
Place the final floor panel face up, locking groove long side towards the wall, and the short end tongue positioned 3/16 to 5/16 inch from the wall. Mark the place where the floor panel is to be cut. Make a cut in the floor panel on the decor side with a utility knife. Use the snap method to break the unneeded part off.

**Step 7**
Stagger the end joints between rows at a minimum 12 inches. If you can, use the cut piece of floor panel from the previous row. If not suitable, take a new floor panel and cut it in half. Place the floor panel at a low angle and insert the long side tongue into the locking groove of the floor panel in the previous row. Fold the floor panel gently down.

**Step 8**
Place the short end tongue of the next floor panel at an angle against the previously installed floor panel and fold gently down. Ensure that the long side tongue is positioned on the locking strip of the previous row.

**Step 9**
Using gentle force and at an angle, you gradually, from left to right, push the long side tongue into the locking groove of the previous row.

You may need to lift the floor panel to the left of it slightly to allow for the ‘sliding action’.

Complete the whole row in the same way.

**Step 10**
Repeat the steps until all rows have been installed.

**Note:**
Expansion gaps around pipes. Measure the diameter of the pipes and mark the position on the floorboard. There should be a 3/16 to 5/16 inch expansion gaps between the floor panel and the pipe or other vertical structures. Cut out the holes.

Door frames may have to be undercut. Use a floor panel as a guide as to how much to saw. Put the floor panel faced down as a guide, saw off the bottom of the door frame to allow the floor panel to slide under it.
Maintenance and Care

• Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris. They can damage the floor the surface.
• Do not use vacuum cleaners with “beater bars”.
• Spot mop as needed. Any spills should be cleaned up immediately.
• Damp mopping of the floor should be performed on a regular or daily basis, depending on traffic and usage.
• For difficult to clean spots or stains, use cleaner marketed and sold to be used for luxury vinyl tiles flooring.
• Minimize the effect of heat and sunlight. They can cause fading, discoloration or thermal expansion. Close your curtains or blinds where extreme sunlight hits the floor. Rearrange furniture and rugs periodically.
• Do not leave any liquids (water, juice, soft drinks, spills, etc.) standing on the floor. Clean any wet spots immediately.
• Do not use steel wool or scouring powder which will scratch the floor.
• Minimize abrasive and dirt by placing mats on both sides of exterior doors. Area rugs in high-traffic areas are also a good idea.
• Place protective pads beneath furniture legs and other heavy objects. Keep furniture casters clean.
• Keep pets’ nails trimmed.
• Remove shoes with cleats, spikes or exceptionally pointy heels before walking on the floor.
• Take great care when moving furniture and heavy objects. Lay down a plywood and "walk" the item across it

Warranty

This product comes with manufacturer’s limited residential or commercial warranty, depending on which model was purchased. Warranty applies to original purchaser of the flooring. Please contact Customer Service Representative by calling our toll free number below for a written copy of the warranty which provides detail terms of coverage and limitations.

Technical Support

For installation information and technical questions not covered in this installation guide, please contact Technical Support Representative by calling the toll free number.

Toll Free Number: 877-630-1800