



GLUE DOWN INSTALLATION GUIDE

A GLUE DOWN INSTALLATION GUIDE FOR
SUPERIOR ENHANCED AND ENGINEERED FLOORS.

STORAGE & HANDLING

Your hardwood floor is a natural organic product which is affected by the humidity levels in the air around it. Both before and after installation it will absorb or release moisture. Wood is a natural material that seeks to be in balance with its surroundings. Hardwood destined for use in wood floors is carefully kiln-dried for that purpose. Typically, hardwood will expand during the summer months and shrink in the winter. Acceptable humidity levels (**Chart 1**) should be maintained at all times in the rooms where your floor is installed. You will receive the wood for your floor in specially designed cartons that have been stored in a controlled environment. These conditions must be maintained throughout shipping, installation, and thereafter.

The following considerations are important, and failure to follow them will void your warranty.

ACCLIMATION

Herwynen Sawmill Ltd. will not warranty Superior or Enhanced Flooring products that aren't stored and installed within the relative humidity range specified in Chart 1. Superior and Enhanced Flooring products cannot be stored on the construction site or acclimatized before install, doing so will void your warranty.

SUBFLOOR MOISTURE CONTENT

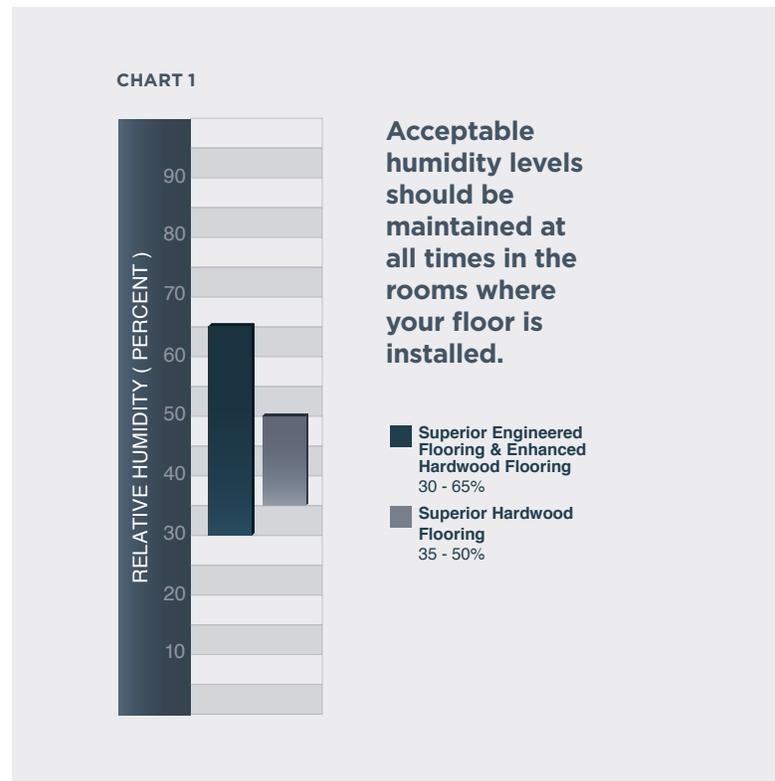
Measure the moisture content of the sub floor and the hardwood to be installed using a moisture meter. The moisture reading of the sub floor must be between 6% and 12% maximum. Hardwood strips must be under 2% maximum difference when compared to the sub floor. If the moisture content of the sub-floor is too low or high, postpone installation. Increase ventilation or use a humidifier or dehumidifier to adjust moisture levels before installation.

SUBFLOOR DESIGN

For wood sub-floors, hardwood flooring must be installed on plywood or OSB over joists. If the existing sub floor consists of particle board, then it will be necessary to overlay it with at least 5/8" plywood before installation. Be sure hardwood flooring is installed over industry standard sub-floors and underlayment, which as a minimum standard, must be 5/8" A.P.A. approved C.S.P/D.F.P. plywood C.O.F.I stamped, 23/32" or thicker O.S.B. underlay grade PS2-92, or 5/8" tongue and groove boards.

RELATIVE HUMIDITY

Drywall, plaster and concrete must be completely dry and the heating system fully operational with the temperature maintained at 22°C for one to two weeks before the flooring is delivered to the site. All concrete in the structure must have cured for at least 30 days.



GENERAL INSTALLATION GUIDELINES

Use only moisture-cured urethane or rubber adhesive. Check and follow the manufacturer's recommendations for trowel size, and spread rate to ensure adhesive transfer to substrate and hardwood. Be sure to also check adhesive expiration date. Conduct a moisture test on concrete (refer to the concrete paragraph on the next page). Test a small amount of adhesive on the concrete to ensure adhesion bonding. Be sure to use a metal trowel as the teeth in a plastic trowel will wear down and cause a difference in spreading rate. This will directly affect the hardwood's ability to adhere to the substrate. We recommend a "double glue" application. Using this method, the membrane will be glued to the subfloor, and the flooring glued to the membrane. This will give the best acoustic and stability performance. When flooring is glued directly on the subfloor it is called "simple glued". While simple glue systems work, they don't have the same acoustic ratings and stability as double glue systems.

PREPARATION INSTRUCTIONS

- Remove baseboards, quarter rounds and then screw down subfloors securely to avoid squeaking if necessary. The subfloor must be clean, dry, smooth and flat.
- Undercut any door-jambs on the bottom of the door frames if needed to permit a strip to be inserted under them.
- Clean the bottom of any footwear worn during installation.

RECOMMENDED ADHESIVES

- Bostik's Best, BST, Franklin 811 or Acoustitech AD-316 AD-532 adhesives for engineered products work well following their installation guidelines for 1/2" (13mm) and 3/4" (19mm) engineered products. Check with the adhesive manufacturer for applications used with radiant floor systems. Be sure to follow the manufacturer's installation instructions.

GENERAL GUIDELINES

- Your starting location should be the longest and straightest wall within the room.
- Hardwood flooring must be installed across the joists at a 90-degree or 45-degree angle for support.
- Installation should be done under natural light conditions.
- Adequate expansion space must be envisioned for the installation of all mouldings. Different installation methods require different expansions space.
- If heavy tools or other objects are dropped on the floor, they will damage it.



INSTALLATION INSTRUCTIONS

1. Start on your longest and straightest wall. Measure the width of the board. Add the thickness of the boards for your expansion gap. (example: 5" board + 3/4" thickness = 5 3/4") Snap a chalk line on the sub-floor this distance out from the wall.
2. Spread out the adhesive on the subfloor. Make sure you don't apply more than you can install flooring on before the adhesive sets up. The freshly applied adhesive must leave trowel marks/trowel ridges. Only apply adhesive up to your chalk line and not over it.
3. Ensure you mix in boards with varied color, grain, and length. This can be accomplished by setting out 3 to 4 boxes of flooring at a time. Place the planks into the wet adhesive with the groove side on the chalk line and facing the outside wall. This is the same direction to that of a nailed/stapled down installation. Ensure that the 1st row is exactly on the chalk line.
4. Cut off the last piece in your starting row, leaving the proper expansion space of 1/2" (13 mm) from the wall and use it as your 1st piece or starter board for the 2nd row. It is best to not use a piece under 6" (15 cm) as they tend to move out of position. Continue each row, engaging the groove into the tongue along the side 1st, then the end to be engaged 2nd. Try to distribute the long and short pieces while insuring that no end joints are within 6" of each other to avoid getting a cluster of end joints in one area (**see Image 1**). If any adhesive contacts the face of planks, use adhesive remover before it dries.
5. The use of painters' tape or 3M Blue masking tape will help to keep your planks from moving out of position. Do not use any regular masking, duct, or electrical tapes as these products can leave a film on your new flooring. Apply tape 90 degrees to row direction with approximately a 15-16" (38 to 41 cm) long piece; or long enough for 3-4 rows wide. Lap over or curl up the tape at one end to allow for fast, easy removal. Place tape at 48" (1,20 m) apart or across the rows.
6. Finish the room by installing the rest of the flooring. The last board may need to be cut on your table saw. Remember to leave an expansion gap between the last row and the wall.
7. Give the adhesive time to setup by avoiding any traffic for 24 hours. If this is unavoidable, use a kneeler board to help distribute the weight and movement.
8. Clean up your trowel and hands using the adhesive remover.

POST INSTALLATION GUIDELINES

- Never attach mouldings to the hardwood flooring (**see Image 1 on page 4**). Take care when installing the moulding to ensure that it will not inhibit the floor's ability to move. Quarter round and baseboards are to be nailed only to the wall.

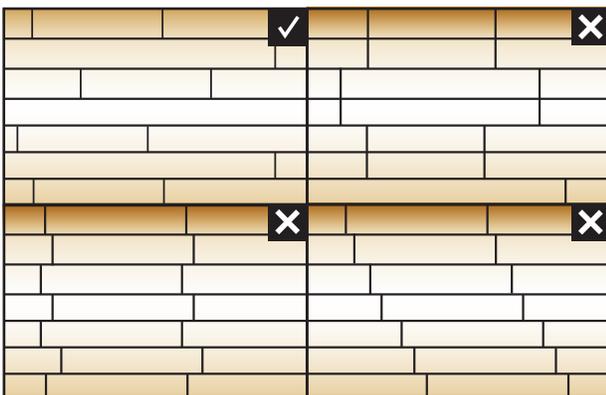


IMAGE 1



**SUPERIOR HARDWOOD FLOORING
BY HERWYNEN SAWMILL**

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