

**BIYORK**

HydroGen 6<sub>mm</sub>

INSTALL INSTRUCTIONS



## BY INNOVATION. BY DESIGN. BIYORK.

Every aspect of our floors are designed in pursuit of performance ready for the world.

We Believe that everything we do is a movement towards an alluring combination of Dynamic Performance and Modern Craftsmanship. We do this by making every inch of our floors push the boundaries of Innovation forward with Beautiful Designs, Ease of Installation and Our Obsession ForThe Next Best Thing.

Together, we deliver the foundation that reflects your Personality and create the Ultimate Statement in any space.

This is BIYORK.

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- **HYDROGEN FLOORING** has a patented locking system (**Unilin Unipush**) making it ideal for a floating installation, however this product must be glued down (pressure-sensitive adhesive) when used for light commercial traffic applications. Please follow adhesive manufactures recommendations.
- Avoid constant exposure to excessive temperatures or direct sunlight for extended periods of time, since this might cause planks to expand/separate or change colour. When selecting a **HYDROGEN FLOOR**, please consider these variables when selecting your flooring product.
- **HYDROGEN FLOORING** does not need to be acclimated if stored and installed in a temperate-controlled environment, maintain between 60°F and 80°F. Additional acclimation must be considered when temperatures mentioned above are not met. Store flat and fully supported during shipping and storage. It is not necessary to remove material from packaging while acclimating. Allow the product to condition in the room where installation is to take place at a constant temperature between 60°F and 80°F or 18°C - 26°C, for a period of 48 hours prior to installation.
- Slight variations in colour and structure are designed to enhance the natural appearance of the product. Work from multiple cartons during installation and mix the planks to create a more uniform appearance.
- **PRIOR TO INSTALLTION** please check to verify color, shade, locking system, any obvious or minor defects. **BIYORK CANADA** will not be held responsible for any defective materials installed. Any defective materials found prior to installation should be set aside for assessment.
- In facilities where walkers, wheelchairs (i.e.), residential and or with extended care use, or in facilities with movement of heavy displays, racks, dentist chairs, etc. These types of installations may exert extreme stress and compromise the locking system and or the face appearance.
- Installation Tools must be Rubber hammer, tape measure, pull bar, tapping block, cutting saw.

## THE SUBFLOOR

- Although **HYDROGEN FLOORING** planks are water/moisture proof, they are not to be used as a moisture barrier. Your subfloor should becompletely dry prior to installation. Keep in mind that constant moisture coming from the subfloor or topically, will cause mold/mildew to be trapped underneath the product, contributing to an unhealthy environment. **BIYORK CANADA** will not warrant any flooring product based on damages created by excessive moisture.
- Subfloors must be clean, structurally sound and flat within 3/16" in 10 feet (4.7mm in 4m) radius or 1/8" in 6' radius (3.3mm in 1.8mm). The subfloor should not slope more than 1" per 6 feet in any direction. Cracks or holes must be filled with a fast-drying setting cement-based polymer modified patching compound or equivalent. Any unevenness over 3/16" (4.7mm) the high spots must be sanded down, low areas filled with patching compound to create a flat surface. Voids or humps in the subfloor will prevent the planks from locking properly. The subfloor must be clean of dirt, oil, glue residue, carpet tacks/staples or adhesive residue should be removed prior to installation. Some types of nails, such as common steel nails, may cause discoloration of the vinyl floor covering. Solvent based construction adhesives are known to stain vinyl floor coverings. All responsibility for discoloration problems caused by above mentioned products is not the responsibility of **BIYORK CANADA**.
- It is the installer responsibility to determine if the subfloor is dry and flat within standards to begin with the installation.
- **HYDROGEN** Planks and Tiles have an attached IXPE 1mm underlayment. Flooring must be glued down with a pressure sensitive adhesive when used for light traffic commercial applications.
- We recognize that some subfloor constructions are more "bouncy or springy" than others. Therefore, by adding or increasing subfloor thickness it will help strengthen and limit vibration. By doing so, joist spans may be increased.
- **BIYORK CANADA** requires 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) OBS sub floor / underlayment grade PS2 rated, sealed side down with joist spacing of 19.2" (475) on center or less.
- Minimum Subflooring requirements 5/8" (19/32, 15.1MM) CDX plywood or 5/8" OSB subfloor/underlayment (exposure 1), 4'x8' sheets, maximum 16" on center joist construction.
- When joist spans exceed 16" on center, we advise an additional sheet of 1/2" CDX grade plywood be added to limit potential deflection.

## COMMERCIAL APPLICATION

- **HYDROGEN FLOORS** have an attached IXPE 1mm underlayment. Flooring is recommended to be glued with an approved adhesive for light commercial applications. In heavy Commercial applications or under rolling load traffic it is required to be glued to the subfloor
- The adhesive should be given sufficient time to cure and establish a bond between the substrate and the Hydrogen flooring. Before walking or placing furniture and appliances on a new floors, be sure to set the room temperature after installation and leave the appropriate drying time according to the adhesive manufacturer's instructions.
- Be sure to remove any residual glue from the surface in a promptly manner if noticed (mineral spirits can be used for this process). Wipe off with a damp cloth, then dry off when adhesive is removed.

## Different Production Runs:

- **HYDROGEN FLOORS** can have slight colour variations in between production runs. Before starting the installation, it is best to check the production run # which is indicated on the label on the carton. If you find that you have cartons from different production runs, it is highly recommended to open cartons and mix of planks from each different production run on your floor. This will result in a more natural looking floor.

**DO NOT** install your **HYDROGEN FLOORS** over soft subfloors such as carpet, floating floors, or **any foam underlayments**

- **HYDROGEN FLOORS** can be installed over the following
  - Fastened wood flooring (must be sound, dry, clean, and flat).
  - Ceramic or porcelain tile (grout lines must be leveled, tile will need to be sanded or grinded 3-4 inches around grout line perimeters to ensure proper leveling compounded adhesion (especially over glossy tile).
  - When laying the floor over existing ceramic tiles first level with fast setting cement-based polymer modified patching compound to fill in low areas such as grout joints.
  - Linoleum, PVC (must be sound, dry, clean, and flat).
  - Adhered cork underlayment.
- **Kitchen Cabinets and Islands:** Kitchen Cabinets & heavy islands must **NOT** be installed directly on top of the flooring. (They should be installed prior to the installation of the flooring). A floating floor system should never be pinned down by heavy objects. As this will limit the floorings ability to expand and contract during seasonal change.
- The use of pull bar and tapping block is recommended to ensure a successful install.
- **HYDROGEN FLOORS** provides a very tight fit. Proper care must be used to ensure all seams are tight at end of install. An unprofessional installation or use of improper tools can result in damage to the click-lock profiles.
- **VIDEO REFERENCE** available on our website [www.biyorkcanada.com/pages/resource-library](http://www.biyorkcanada.com/pages/resource-library)

## MEASUREMENTS

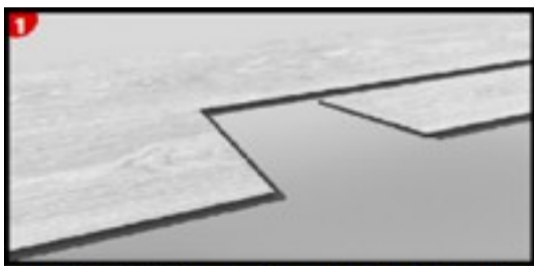
- Arrange with the Owner/Client on which direction the flooring should run since this influences the visual size ratio of the space. Install parallel to the longest wall or the main light-source is recommended for the best visual effect.
- Pre-plan the floor by measuring the room first. If the width of the last row is less than 2" (5cm) saw the first and the last plank in equal width.
- Snap the lines on the substrate to identify the layout reference points. Planks should be set using this reference to ensure boards are aligned and will lock together correctly.
- While **HYDROGEN** is waterproof, it will still contract or expand according to extreme weather conditions, therefore appropriate expansion gap must be kept.
- **HYDROGENS MAXIMUM RUN** before transitions are required is 80 ft x 80 ft.
- Adequate expansion space is still required around all perimeter and vertical obstructions. Cover the expansion space with suitable moldings.
- We do recommend the use of transitions between doorways or bedrooms, or between different floor coverings where they meet.

## PROCEDURE

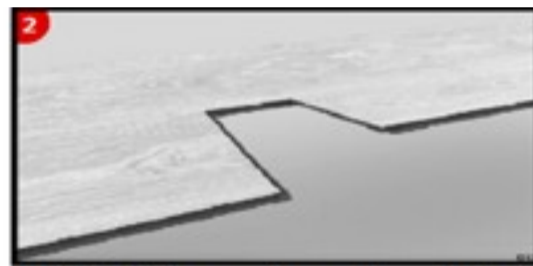
- **HYDROGEN FLOORS** are designed to be installed utilizing the floating installation method (5GI Locking System). Never secure the planks to the subfloor when using the floating installation method.
- **DO NOT install cabinets or other fixed objects** on top of the flooring. Undercut all doorjambs and make sure to provide proper expansion space 5/16" (8mm) around all vertical obstructions. Do not fasten base moldings and or transition strips to the planks.
- **HYDROGEN** (commercial recommendation) is approved for glue down installation over approved wood and concrete substrates and may be installed on, above and below grade. Please refer to the adhesive manufacturer's installation guidelines. Always follow adhesive manufacturer's recommendation for correct trowel notch, open time and spread rates.
- The adhesive should be given sufficient time to cure and establish a bond between the substrate and the **HYDROGEN**. Before walking or placing furniture and appliances on a new floor, be sure to set the room temperature after installation and leave the appropriate drying time according to the adhesive manufacturer's instructions.

First row:

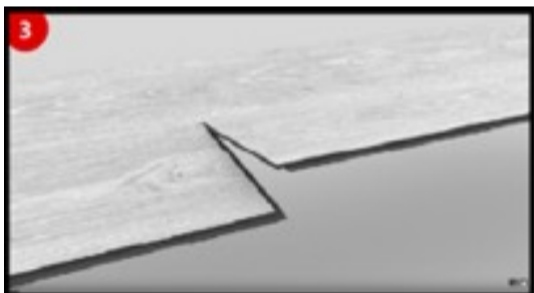
- Use spacers along the walls to maintain proper expansion space (5/16") and align the first plank. Start with the first plank in the left corner of the room, tongue-side facing out from the wall to the length and to the right on the width. Work from left to right.
- Position the following planks as an extension of the first plank.
- Cut to fit the last plank of the row. To do this you can use a utility knife to score the surface at the appropriate point and then break the tile over an edge. A laminate cutter or miter saw can be used as well to make the cut.



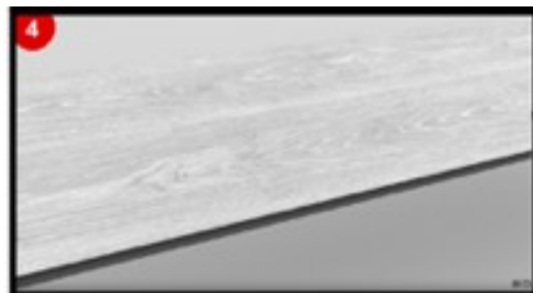
**STEP 1:** Lock long edge of plank by inserting tongue into groove at an angle and drop in place.



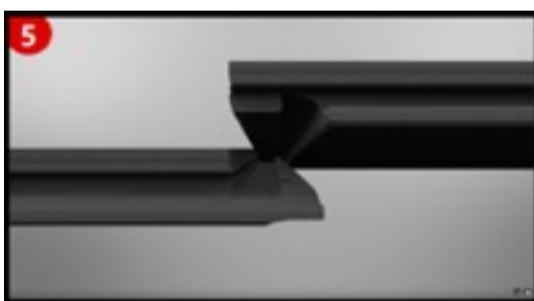
**STEP 2:** Make sure long edge of plank tongue into groove at an angle click



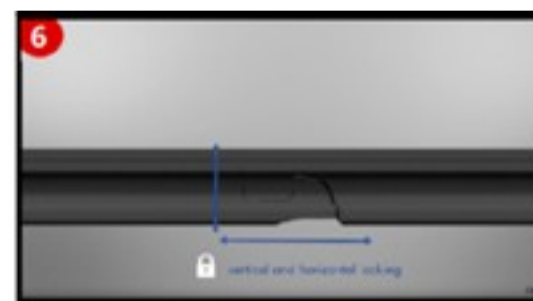
**STEP 3:** Slide plank follow long side toward until the short side tongue just touches the groove



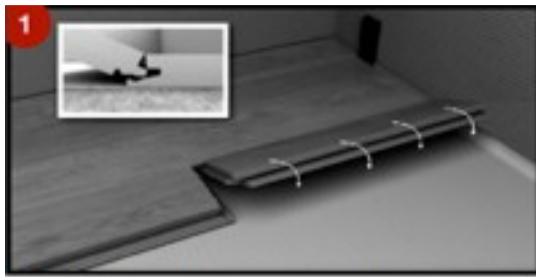
**STEP 4: IMPORTANT!** Use hammer or strike hard with your hand, make sure tongue into the groove and clic perfectly



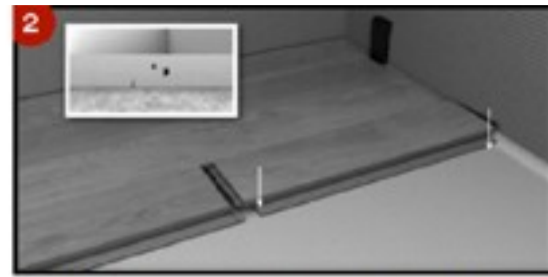
**Unlocked style**



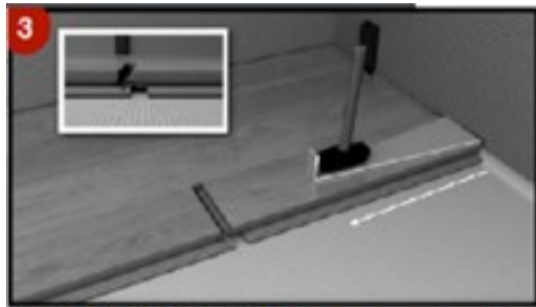
**Fully locked style**



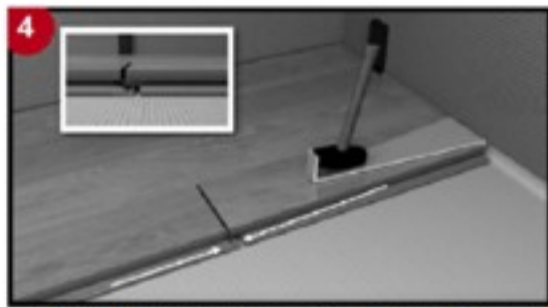
**STEP 1:** Lock long edge of plank by inserting tongue into groove at an angle and drop in place.



**STEP 2:** Slide plank toward end of previously installed plank until the tongue just touches the groove.

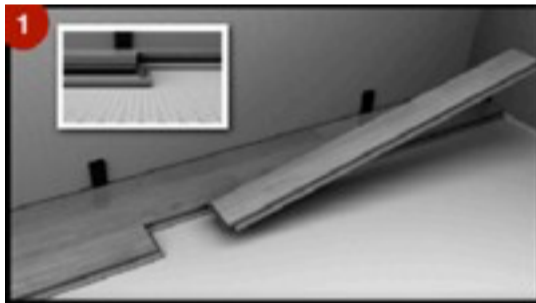


**STEP 3: IMPORTANT!** Use hammer and pull bar to tap short edge of plank to ensure a tight fit.

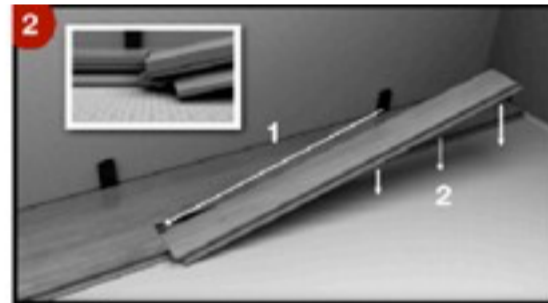


**STEP 4:** Make sure it fits perfectly, ANY GAPPING CAN COMPROMISE THE LOCKING SYSTEM!

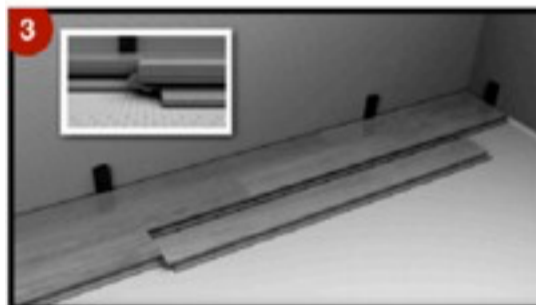
INSTALLATION TYPE 2 (ANGLE AND ANGLE)



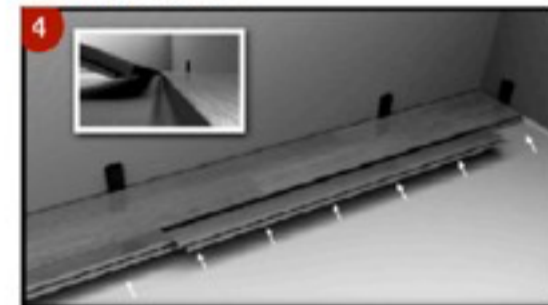
**STEP 1:** Lock short edge of plank by inserting tongue into groove



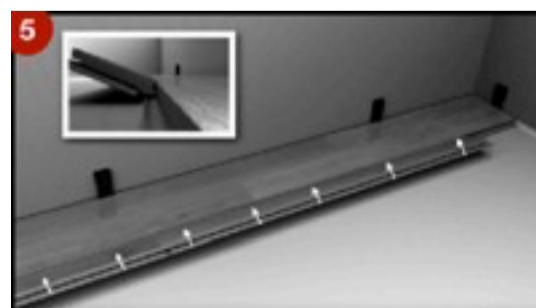
**STEP 2:** Make sure the tongue is fully inserted into the groove, then drop down the floor .



**STEP 3:** Lay the floor flat and keep a distance of 2-3cm from the behind plank.



**STEP 4:** Raise 2 pieces of floor at an angle of around 30. Make sure that the lock on the short side is not disengaged.



**STEP 5:** Keep the short side latches pushed parallel into the floor until tongue into groove



**STEP 6:** Make sure that the long side and short side tongue into the groove, and then drop down 2 pieces floor



**HYDROGEN FLOORS** the heating system either “hydronic or electric” must be tested and fully operational at normal living temperatures. Please allow for cement/ mortar cure times to ensure proper installation of heating system.

They are compatible with a concrete subfloor with an in- floor (embedded) radiant heating system. There must be a minimum of 1.25cm (1/2”) separation between SPC and radiant in-floor heat system.

- Before installing, make sure to test the heating system has been pressure tested and set to maximum heat (81°F) to force out any residual moisture and to make sure the system is working properly.
- Shut down the heating system at least 48 hours before during and after installation.
- Keep room temperate between 68°F and 77°F during the installation.
- After flooring is installed, the temperature of the radiant heat floor may be increased gradually 48 hours after installation, in increments of 5°F, but the surface temperature should never exceed 80°F. Contact the radiant heating manufacturer for further recommendations.
- Radiant Heat Systems must have fail safe capabilities to ensure surface temperatures **DO NOT EXCEED 26.6 degrees Celsius or 80 degrees Fahrenheit.**

## SPC EURO STAIRNOSE “INSTALLATION TIP”

- The stairnose profile is not a click joint. The back lip of the plank or tile only slides and rests in the groove of the nosing, creating a flush finish.
- Ensure the plank or tile fits properly into the groove. A knife may also be required to clean any access core material in the groove for a tight fit.
- For best results the bottom of the nosing that rests directly in the subfloor or stair, can be lightly sanded for supreme holding strength with the adhesive.
- PL Premium - construction adhesive is recommended to secure and hold the nosing down. (Please not PL premium takes 10 to 12 hours to cure)
- Painter’s tape and direct weight (heavy object) can also be used to hold the nosing in place, while the adhesive is curing.
  - After 10 to 12 hours - the nosing will be secure, and the installer can work off the nosing.
  - Crazy glue can also be applied into the groove of the nosing to create an instant bond between the nosing and plank or tile.
- **IMPORTANT:** If an installer needs to work immediately off the nosing that day. A couple of brad nails in a discreet area on the face of the nosing can be used to hold the nosing down in place, while the adhesive is curing.
  - It can also be assisted with painter’s tape and direct weight if required.
  - Crazy glue can also be applied into the groove of the nosing to create an instant bond between the nosing and plank/tile.
  - (Be careful not to walk on or disturb the nosing during this process)
- The immediate plank worked off the nosing can also have a lazy S of PL adhesive to prevent movement at this connection. (Only if required)

The fundamentals of floor care include understanding the importance of cleaning your floors for safety, appearance and cleanliness and following a routine maintenance program that helps protect your floor investment and bottom line.

All floor coverings require some care to look their best; many problems can be prevented before they occur. The type and frequency of traffic on your floor covering will determine the frequency of maintenance needed. The type of flooring and even the colour will also have some bearing on how much care may be necessary. For example, solid colour floorings will show scuffs, scratches, dirt and general wear to a greater degree than multicolour of chips or patterns. Of course, white or light colours will show staining to a greater degree than darker colours. For this reason, solid colour and white floorings should receive special attention concerning preventative maintenance and the amount of care provided. Proper selection when choosing the type and style of flooring will help prevent maintenance related problems after installation.

### **First time for optimal maintenance. Best within 24 hours of installation**

#### **For CLICK HYDROGEN Products:**

- Regular cleaning is a proven way to help keep your SPC flooring in top shape.
- Establishing a regular maintenance regime will keep your floors looking beautiful for years to come.
- **Sweep/Vacuuming:** Sweep at least one a week to remove any dusty loose dirt, small pebbles. Before vacuuming, be sure to check the condition of the beater bars.
- **Mop:** Never use abrasive cleaners on Hydrogen only use recommended/ approved vinyl floor cleaners. Along with a microfiber cloth.
- **Harsh Chemicals:** Do not use vinegar or one step cleaners/polishing agents or oil soaps on Hydrogen Products. These products can leave a film or residue, change the sheen level, and affect the wear layer over time.
- **Never use a steam cleaner on Hydrogen.** The hot steam is actually doing more harm than good to your SPC flooring. The excessive heat together with the moisture that seeps in the joining edges can weaken the adhesive bonds and layers of the floors structure. It will also cause irreversible damage like warping edge cupping, bending, and bubbling of the plank or tile.
- **Spills:** Clean up any spillage instantly by simply wiping off with a damp cloth. Be sure to wipe the area dry once you're done. (the longer the spills are left unattended the more likely they are to permanently stain the flooring). However, some stubborn stains are more difficult to remove. Common stains like juices, red wine, food and grease, marker pens, paint, or lipstick. Apply mineral spirits to a clean cloth to slowly releasing the stain. Once stain has lifted use another damp cloth with water to clean up the stain, this also helps dilute the mineral spirits off the surface. Dry off when complete.
- **Minimize dirt:** Invest in a good quality rug, non- stain or non- rubber backed doormat in front of all entrances to prevent any sand, loose soil, grit, dust, and other dirt being carried into the house. It is best to place a doormat at every entry point.
- **No Shoes:** One of the most effective ways to reduce dirt: simply adopt the 'no shoes' policy. This can further eliminate possible dirt from outdoors and maintain SPC floor hygiene at the same time. Adopting the no shoe policy will cut down the chances of scratches caused by stones and sand that are carried along when you have your shoes on. Stiletto shoes should not be worn on the flooring as they can cause permanent damage.
- **Heavy Protection:** Protect your SPC flooring with quarter - inch plywood, or cardboard when moving furniture or changing out appliances. This will help prevent scratches and scuff marks.
- **Pets:** If you are a pet lover, do watch out as animals' nails will also leave scuff marks on your floor. Trimming of nails and claws of your pet regularly will help minimize potential scratches.
- **Future Protection:** Another way to avoid unwanted scratches and scuff marks is to install felt pad protectors underneath tables, chairs, desks, couches etc. As most furniture items in the home are constantly moving and sliding on the flooring, felt pad protectors will help eliminate and protect the flooring from surface scratching. They should be checked and replaced when required. Check the condition of all casters or rollers on the furniture before placing the furniture on the floor.

- **Sunlight and Excessive Heat:** Prolonged exposure of direct / extreme sunlight may cause your SPC flooring to fade, become dull or discolour. Hydrogen floors must be protected from direct sunlight. We recommend the use of blinds or curtains on all windows that allow direct or extreme sun exposure. This will also help limit uncontrollable heat. Flooring exposed to excessive heat can be affected by thermal expansion, which can cause the floor to bend or undulate.
- **BIYORK CANADA** is not responsible for any damaged or defects caused from the effects of the sun.

In order to maintain the warranty. The homeowner is responsible for the following tasks.

- Please ensure color and appearance of materials are accurate prior to installation.
- Please read the installation instructions prior to the installation of the Hydrogen SPC flooring
- Follow our cleaning and maintenance guidelines to properly maintain your investment.
- In the case of any repairs required to the flooring in the future, we recommend homeowners have 1 extra carton of material stored in a cool dry area.
- Final inspection of the installation rests with the homeowner or the installer
- BIYORK CANADA is not responsible for any damaged or scratched pieces of flooring that have been installed.
- It's the installers responsibility to set aside any material in question during the installation process.