

# Warranty Registration

Thank you for filling your IngenuityPlus Warranty Registration. Send it to Eterna at the latest 30 days after the date of purchase, at the following address:

Eterna Hardwood Floors / IngenuityPlus  
1680 Principale, Saint-Norbert, Quebec, Canada J0K 3C0

The information the buyer provides under this Warranty Registration is for the sole purpose of keeping a record of IngenuityPlus Wood Flooring customers and will not be transferred to a third party for any other purposes.

(Please print)
Date of purchase (m/d/y)
Products(s) purchased
Species Width Color
Grade sq. ft. / sq. m. installed
Species Width Color
Grade sq. ft. / sq. m. installed

Your coordinates
Name
Address
City Province or State Country
Postal Code or Zip Code Telephone
Your home
Type of dwelling: Single family home, Townhouse, Condominium, Second or seasonal home, Other (Specify)
Year of construction
Location of flooring installed: Entrance, Living room, Dining room, Playroom, Passage way, Bedroom, Kitchen, Home office, Basement, Other (specify)

Your household
Number of adults, Number of children, Number of pets: Dog(s), Cat(s), Other(s) (specify)
Your hardwood floor dealer
Name of dealer
Address
City Province or State
Postal Code or Zip Code Telephone

Installation
Date of installation (m/d/y)
Name of installer
Company hired for installation
Address
City Province or State
Postal Code or Zip Code Telephone
Qualifications of installer: Specialized hardwood floor installer, Flooring installer, Handyman, Carpenter, Other

Please remember to keep in a secure place the following documents:
• Proof of purchase, including the quantity of wood purchased
• This Warranty, Care & Installation guide
• The label on your IngenuityPlus Wood Flooring packaging that includes the product code and description

# INGENUITYPLUS INSTALLATION GUIDE

READ ALL INSTRUCTIONS AND WARRANTY INFORMATION CAREFULLY PRIOR TO PREPARATION & INSTALLATION OF YOUR NEW FLOOR.

IngenuityPlus flooring can be installed in the following ways:

- Glued: On, above or below grade
• Nailed or stapled: On, above or below grade
• Floated: On or above grade only

NOTE: The IngenuityPlus Collection is not recommended for bathroom installations.

## Handing before installation

Take care in unloading and handling flooring cartons. Make sure that the flooring is delivered when the building has been closed in, including windows and doors. Cement work, plastering and all other materials must be thoroughly dry. Exterior work such as surface drainage away from the walls must also be complete and gutters in place.

To protect your flooring, we recommend that cartons be kept in a room where you can control the temperature and the humidity levels, on the ground floor or above and away from outside walls. Keep at least 4" (approx. 10 cm) of air space under the cartons.

## Relative Humidity

High humidity is the most frequent cause of problems with wood floors. This is why relative humidity must be maintained between 35% and 65% while installing and all year round. When relative humidity falls below 35% for a prolonged period of time, the top layer of the strip, made of hardwood, could contract and even cup. The surface should return to normal when relative humidity reaches recommended levels again. Use the necessary devices such as a dehumidifier in summer or a humidifier in winter to maintain humidity at the recommended levels.

## Owner's and installer's Responsibility

The initial Buyer or the owner must inspect each carton of flooring and moldings to ensure that they contain the right species, width, grade and color.

Wood floors come from nature and as such, each strip is unique. IngenuityPlus Flooring and moldings comply with industry standards, which allow up to five percent (5%) imperfections. Because of the natural color variation between each strip and to ensure a harmonious blend of shades, the installer should choose strips out of three or four cartons at a time and lay them down to visualize the floor prior to final installation.

Eterna's IngenuityPlus Flooring is covered by a Lifetime Structural Limited Warranty. Improper installation, failure to follow the instructions of this guide and the use of inadequate tools (e.g. a trowel and staple or nail-down tool other than the recommended ones), could void the warranty.

The owner/installer is responsible for the final visual inspection and approval of the strips and moldings before installation regarding grade, color, quality of manufacture and finish. Reasonable selectivity must be used and strips or moldings with obvious imperfections should be cut, discarded or placed in less visible areas such as a closet.

If a defective strip is used, the manufacturer's liability is limited to replacing defective material in excess of five percent (5%) of the quantity purchased only, not including labor costs.

## Care Throughout Installation

The limited warranties do not cover damage occurring during installation. To prevent damage due to walking on the floor or the handling of the strips, tools, toolboxes, glue or nails, make sure that the room stays clean during installation. Choose an area for cutting that will prevent sending dust and debris on your new floor. Then, find another surface to put down your tools other than your new hardwood floor.

If, even with all these precautions, an accident should occur, your dealer can provide an Eterna Touch-up kit for minor repairs.

## Before Installation

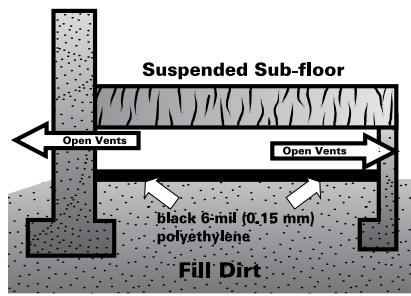
### Evaluation of Job Site & Moisture Content:

IngenuityPlus Engineered Flooring can be installed over the following surfaces:

- Concrete
• Existing wood floors
• Plywood
• Vinyl sheet
• Sheathing-grade oriented strand board (OSB)
• 1/2" (12.7 mm) ceramic tile
• Sound barrier
• Radiant heating systems

A thorough inspection of the job site is obligatory before installation to establish if the floor surface and conditions are acceptable. The owner/installer is responsible for inspecting the sub-floor and

measure its moisture content. If the owner/installer does not know how to check moisture content, this task should be delegated to a qualified professional floor installer. Test several areas, especially near exterior walls and plumbing. Some important aspects to verify:



- Minimum height of 18" (45.7 cm) under joists.
• For adequate cross ventilation, a minimum of two vents should be open year round so that air can circulate freely, and total vent openings equal to 1.5% of the surface area of the crawl space.
(Example: A 1,000 sq. ft./m² crawl space should have a total of 15 sq. ft./m² of vent openings.)

- To prevent moisture from reaching the wood flooring, verify that there is no standing water or moisture at the soil level; all soil should be covered with black 6-mil (0.15 mm) polyethylene.

## Humidity and the IngenuityPlus warranty

Damage caused by excessive moisture migrating through the sub-floor is not covered by IngenuityPlus Lifetime Structural Limited Warranty, this protection is only offered through the 25-year warranty against sub-floor-related moisture damage, and only if the owner/installer followed the guidelines available with our Eterna Ingenuity Sealer and Ingenuity Lock adhesive. In addition, any damage caused by the use of an unsuitable vapor barrier where necessary is not covered by IngenuityPlus Flooring's limited warranties. Moisture testing is the responsibility of the installer or owner.

## Sub-floor Requirements

Before beginning installation, make sure the sub-floor meets the following requirements.

It is important to note that Eterna Ingenuity Sealer is strongly recommended since problems caused by moisture coming from the sub-floor will not be covered by the warranty without its use in combination with Eterna Ingenuity Lock adhesive.

## A. Glue down over Concrete

Without Eterna Ingenuity Sealer

- Perform moisture testing when the slab has cured for a minimum of 30 days and ideally, 60 days.
• Test the concrete for dryness before installing flooring:
- First, inspect for any wetness at the base of the drywall or for visible signs of moisture on the concrete.
- Second, test for moisture. The acceptable limit is a maximum of 3 pounds per 1,000 sq. ft. (approx. 1.36 kg/93 m²) using the Calcium Chloride test.
• If the moisture emission is over 3 pounds per 1,000 sq. ft., do not install the flooring without the use of Eterna Ingenuity Sealer.
• Other than the Calcium Chloride test that we highly recommend, alkali and bonding tests should also be conducted in most cases.

## With Eterna Ingenuity Sealer

- The slab must have cured for at least 30 days and ideally, 60 days.
• Visually inspect the surface of the slab to make sure that it is free of moisture.
• Apply Ingenuity Sealer following the manufacturer's instructions.
• Install the flooring the day after.

## A clean slab needed

The surface of the slab must be free of paint, grease, sealant, oil, wax or any other curing compound. To remove dirt or another contaminant, sand with open grit (40) paper then, sweep or vacuum the concrete.

## A smooth and level slab is essential! (See also Ingenuity Sealer instructions):

- A slab is level to within 3/16" (5 mm) within a 10' (3.04 m) area or 1/8" (3.1 mm) within a 6' area (1.83 m).
• Use a terrazzo grinder or Carborundum stone to even irregularities.
• Apply Eterna Ingenuity Sealer.
• The day following the application of Ingenuity Sealer, fill cavities or low spots with a good quality portland cement. (Warning: do not use primer if using Eterna Ingenuity Sealer).
• Allow adequate curing time prior to installation.
• Do not install over concrete that has a compressive strength of less than 2,500 PSI. A simple test is to draw a nail across the top. The concrete is most probably lightweight if indentations appear.

Due to the great number of installation variables, and the fact that the IngenuityPlus manufacturer does not have control over the final installation, the 25-year warranty against moisture is valid only if Eterna Ingenuity Sealer and Eterna Ingenuity Lock adhesive are used during installation. This low-

cost investment will further protect the IngenuityPlus floor.

## B. Glue-down over radiant heating recommendations

1. The concrete must dry and cure naturally (normally between 30 to 60 days). The structure of the slab should be affected if the radiant heating system inside the concrete sub-floor is started prior to it being cured.
2. Excessive humidity will be removed by starting the system for a period of 14 to 16 days, at 1/2 of the system's maximum temperature. Halway through this period, increase the temperature to the system's maximum output for 2 days.
3. Once the slab or sub-floor is dried, turn off the system 1 or 2 days prior to installation. The temperature of the sub-floor cannot exceed 68°F (20°C) at installation time.
4. Install flooring following IngenuityPlus instructions.
5. 24 to 48 hours after installation, gradually increase the temperature of the system in increments of 10°F (5°C) per day.
6. After installation, do not allow the temperature at the surface of the flooring to exceed 80°F (26°C).

Radiant heat is dry – use the necessary devices to keep relative humidity between 35% and 65%.

## C. Wood sub-floor:

Recommended sub-floor/underlayment panels (codes are available on the underside of boards):

- US Voluntary Product Standard PS 2-92 or PS 1-95; and/or
• Canadian performance standard CAN/CSA 0325.0-92 Construction Sheathing.

Eterna recommends the following types of sub-floor and a maximum joist spacing of 19" (approx. 48 cm) on center:

3/4" CDX grade underlay plywood sub-floor/underlayment in 4' x 8' sheets	3/4" OSB grade underlay sub-floor in 4' x 8' with a 40 PSI nominal density rating
--------------------------------------------------------------------------	-----------------------------------------------------------------------------------

## Minimal requirements:

- 5/8" CDX plywood sub-floor/underlayment in 4' x 8' sheets or 3/4" OSB grade underlay sub-floor in 4' x 8' with 40 PSI nominal density rating with joist spacing of 16" (40 cm) on center.
For 3/4" CDX plywood or OSB sub-floors with joist spacing over 19" (approx. 48 cm) on center OR 5/8" CDX plywood sub-floor with joist spacing over 16" (approx. 40 cm) on center, you should:
• Install 2" x 6" beams between the joists at every 24" (approx. 61 cm), OR
• Install an additional layer of plywood
• 1/2" quality CDX plywood in 4' x 8' sheets
• The panels may be laid on the diagonal or perpendicular with the joists, with 1/8" (approx. 3.1 mm) spacing between the panels.
• Screw panels down on a minimum 6" (approx. 15 cm) grid pattern

Level the sub-floor by sanding down any edges over 3/16" on 10' (approx. 5 mm/3.04 m).

Over old wood floors, screw down 3/4" to 5/8" plywood on a minimum 6" (approx. 15 cm) grid pattern. Ensure that the sub-floor is level, clean, dry, conforms to the structural plan and does not creak. Drive down all protruding fastenings. Replace damaged or rotted sections.

## Assembly

As a rule, underlayment panels installed on joists should be fastened every 6" (approx. 15 cm) around the perimeter of the panel and every 12" (approx. 30 cm) along the intermediate supports.

## Spacing

All underlayment panels should be spaced 1/8" (3.1 mm) apart to ensure adequate expansion space. This can be done by using a circular saw set at the depth of the underlayment and by cutting around the perimeter of the panel.

CAUTION: Failure to respect the minimum specifications of the materials, distance between the joist support points and spacing between the sub-floor panels – that is over 19" (approx. 48 cm) – could bring problems, such as floor movement, gaps and squeaking noises.

It is equally important to check for moisture of the wood sub-floor, using a proper moisture meter. The humidity level reading should not exceed 14% and the difference between the moisture of the sub-floor and the IngenuityPlus Flooring must not exceed 4%. If the difference is greater than 4%, postpone installation until the sub-floor is drier.

## D. Vinyl Sheet and VCT Tile

(For glue-down installation, refer to Eterna Ingenuity Lock instructions):

- Make sure that all tiles or sheets are firmly bonded to the sub-floor.
• When vinyl is inadequately bonded, remove the materials and all flooring adhesive and lay down underlayment as per guidelines.
• Urethane sheet surfaces must be abraded to ensure optimal bonding. Remove all traces of wax by rough sanding.
• Do not glue over heavily cushioned sheets or rubber tile.

- Install doormats at all entrances to avoid tracking abrasive dirt and moisture in the house. Vacuum or shake out mats regularly.
• Use felt protectors or barrel-type coasters under all furniture to protect your floor against scratches and indentations.
• Use area rugs to protect flooring from water and heavy traffic.
• Beware of sharp objects and damaged high heels that can permanently scratch your floor. High-heeled shoes, especially those in poor condition, have been proven to be highly damaging to hardwood floors, and even cement floors.
• Cut your pet's nails regularly.
• Appliances and other heavy objects should be moved with adequate floor protection. Place them on an upside down piece of carpeting and slide the rug.
• Never use wax, oil-based detergent or any general-purpose household cleaner. These can dull or damage the finish, leaving a greasy film and make the floor slippery and more difficult to clean properly.
• Even though the OptimaQuartzprecision™ finish includes a non-yellowing compound, it is recommended to protect the floor from intense natural or artificial lighting with the use of proper window covering.

## WARRANTY FOR IngenuityPlus ENGINEERED WOOD FLOORING

Thank you for choosing IngenuityPlus Engineered Wood Flooring. This superior flooring is guaranteed to offer you satisfaction. Please read the following warranty details and installation guidelines carefully to maintain the beauty of your IngenuityPlus floor for years to come.

## Lifetime Limited Structural Warranty

Eterna's IngenuityPlus Flooring, like all Eterna products, is premium quality flooring. This is why we guarantee this flooring to be free of structural defects such as delamination, milling, denting, or grading. The Lifetime Limited Structural Warranty is valid as long as the homeowner who is the initial Buyer of the floor (hereinafter the "Buyer") owns the home. It is important to keep in mind that hardwood floors are a product of nature and that each strip is unique. Imperfections equivalent to up to 5% of quantity purchased are considered normal by industry standards. Should an individual piece be doubtful as to grade, finish, or manufacture, the piece should not be installed.

Normal relative humidity levels of 35% to 65% must be maintained in order to avoid excessive drying of the wood. In-floor radiant heating systems must be controlled and should not exceed the maximum surface temperatures recommended in Eterna's IngenuityPlus Installation Guide. Even properly installed flooring, however, can experience some cupping, separation between the boards, surface checking, and delamination at different times, particularly in extremely dry or humid periods (outside of the 35% to 65% recommended range) or when surface temperatures exceed the recommended maximum. Cupping, gapping, cracks or delaminations are not covered by this warranty.

## 25-Year Finish Wear-through Limited Warranty

IngenuityPlus Engineered Flooring is protected by Eterna's exclusive OptimaQuartzprecision™ finish. The quartz crystals in OptimaQuartzprecision™ interact with the aluminum oxide and the polyurethane to deliver greater resistance to wear and abrasion under normal residential use. The 25-year wear-through limited warranty covers against wear-through for the lesser of 1) 25 years or 2) as long as the initial Buyer owns the home.

NOTE: For surface wear to be covered under this limited warranty, the surface wear must be readily visible and must cover at least ten percent (10%) of the entire floor surface area. Gloss reduction is not considered surface wear.

If the initial Buyer decides to repair the floor or to change the stain's color, it is important to note that Eterna's IngenuityPlus Flooring can be professionally resanded.

## 25-Year Warranty against sub-floor-related moisture damages

The structure of engineered floors is more stable than traditional solid wood floors allowing it to be installed above grade, on grade, and below grade. Eterna guarantees that IngenuityPlus Flooring will not warp, buckle, twist or delaminate, due to moisture emissions migrating through the sub-floor – and not some other source – when installed using our Ingenuity sub-floor sealer and adhesives as per our installation instructions. It is important to note that the high number of variables to control during installation, combined with the fact that Eterna does not supervise the final installation, requires that the Buyer apply Eterna Ingenuity Sealer sub-floor sealer and Eterna Ingenuity Lock adhesive to be eligible for the comprehensive moisture-related warranty. This low cost investment will guarantee IngenuityPlus Flooring against damages from sub-floor-related moisture damages. The length of this warranty is for the lesser of 1) 25 years from the date of purchase or 2) for as long as the Buyer owns the home.

In the event of a verifiable claim, when tests confirm that excessive moisture emission is coming through a properly applied Eterna Ingenuity Sealer coating in excess of 4.5 pounds per the ASTM 1868 calcium chloride test method, and not some other source, this warranty covers one time replacement cost of materials and reasonable labour costs to replace or repair the damaged floor covering. Eterna reserves the right to inspect and conduct tests on all claims prior to authorizing repair or replacement.

Tile flooring may contain asbestos, which is a recognized carcinogen. Ask for professional advice if this may be the case before removing.

## E. Ceramic Tile (Refer to Eterna Ingenuity Lock instructions):

- Verify that all tiles are permanently bonded to the sub-floor.
• Poorly bonded tiles must be either re-adhered or removed with an adhesive residue or mortar.
• Abrade the surface of the tiles with a terrazzo grinder or an open grit (40) sandpaper to ensure proper bonding of the adhesive. All water created by the grinding or sanding must be thoroughly cleaned with water.
• Make sure that tiling is dry before spreading Eterna Ingenuity Lock Adhesive.

## F. Terrazzo (Refer to Eterna Ingenuity Lock instructions):

- Sanding is required to remove all seals, polish and wax.
• After sanding, vacuum and clean with mineral spirits.
• Allow the mineral spirits to completely dry before starting the installation.

## Tools & Accessories

### For glue-down installations:

1. Table saw, jig saw, mitre saw, jamb saw or circular saw
2. Chalk line
3. Measuring tape
4. Hammer
5. Knocking block
6. Safety glasses
7. Gloves
8. Trowel
9. 3/16" x 3/16" x 3/16"
(Using the wrong trowel can also cause the wood floor to sag. Eterna is not responsible for any damage caused by improper tools.)

### For nail-down installations:

1. Table saw, jig saw, mitre saw, jamb saw or circular saw
2. Chalk line
3. Measuring tape
4. Hammer
5. Hammer
6. Knocking block
7. Safety glasses
8. Mineral spirits
9. Appropriate nailer or stapler, for example:
a. Recommended for nail-down: Primattech R610 or Powerwall 200 with 1 1/2" (approx. 32 mm) cleats.
b. Recommended for stapling: Stanley-Bostitch LHF7125-2 with 1" (approx. 25 mm) staples.
10. Rubber mallet
11. 1" (approx. 25 mm) finishing nails

### For floating installations:

1. Table saw, jig saw, mitre saw, jamb saw or circular saw
2. Chalk line
3. Measuring tape
4. Hammer
5. Knocking block
6. Safety glasses
7. Gloves
8. Mineral spirits
9. 1/2" adjustable shims
10. 3M-2080 blue tape
11. Tuxlex®
12. TG Glue (Duraf FL-37)
13. Strip puller
\* Note: Tuxlex can be substituted to accommodate special installation requirements or standards. A sample of the applicable underlayment must be submitted to Eterna for written approval.

## Safety tips

• Operating tools and accessories can be dangerous. Make sure tools are in good working order. The bottom plate of the nailer must be free of any debris to avoid possible indentations and scratches in the finish. Follow manufacturers' instructions and warnings to avoid serious injury or even death.

• Always wear safety equipment such as gloves and safety glasses. Sanding and sawing can produce a lot of dust that can cause eye and skin irritation or respiratory problems. Use tools equipped with dust collectors and/or wear a mask. Rinse eyes and skin for 15 minutes with water if an accident should occur.

• When spreading sealant or adhesive, make sure that the room is properly ventilated. Be certain careful at all times when handling and installing strips to avoid, slips, falls, strains or other injuries.

## Room Preparation

Remove all existing accessories such as base moldings, shoe moldings and thresholds.
• Pass a razor knife along the top edge of the base moldings to prevent tearing of paint, drywall or drywall covering upon removal.

NOTE: Damages resulting from excessive ground moisture due to excessive rainfall, hurricanes or other natural disasters, damage from leaky faucets or appliances, broken pipes or improper maintenance are expressly excluded from this moisture warranty. These claims should be referred to the Buyer's insurance company. In addition, Eterna does not guarantee installations of IngenuityPlus over sub-floors with historical moisture problems or when flooring is being replaced due to a failure caused by excessive moisture emissions.

## 25-Year Adhesion Warranty

Eterna warrants to the original purchaser of the floor that, for 25 years from the purchase date, it's Eterna Ingenuity Lock adhesive will bond Eterna's engineered wood flooring to concrete, terrazzo, sheet vinyl, vinyl tile, plywood and OSB. The warranty may not be assigned or transferred. Random hollow areas are not an indication of adhesive release or failure between the wood flooring and sub-floor. Random hollow areas are usually a result of uneven sub-floors, especially on concrete sub-floors. Random hollow areas are not covered under this adhesion warranty. If a wood floor buckles, this is not an indication of adhesive failure. Buckled wood floors are a direct result of the wood flooring absorbing excessive moisture and abnormal expansion occurs. Excessive moisture that results in wood floors buckling may be result of, but not limited to, excessive moisture migrating through the sub-floor, excessive humidity in the building, plumbing breakage, flooding, water seeping through walls, etc. However, buckling is not covered under this adhesion warranty.

In the event that IngenuityPlus Flooring releases from the sub-floor due to adhesive failure, Eterna will pay for a one time replacement of the portion of the installation that is loose from the sub-floor, including all reasonable materials and labor. This is the sole and exclusive remedy under this limited warranty.

NOTE: In areas where extreme climate and humidity conditions prevail, some minor expansion and contraction will occur naturally. IngenuityPlus Flooring is guaranteed to maintain its bond to the sub-floor but the look of the floor may experience some changes. They should correct by themselves with seasonal changes.

The manufacturer specifically excludes and is not liable for any other damage or loss, including consequential or incidental damage or loss. The manufacturer is not responsible for workmanship which is not in compliance with published IngenuityPlus literature.

## Warning

It is essential to read and understand the terms of this warranty and the IngenuityPlus Flooring installation guidelines before installing the strips. As per industry standards, the warranty will be void if installation guidelines are not followed.

Since wood is a natural product, each strip is unique and shows minor variations of color grain, knots and mineral streaks. The initial Buyer and the installer have final responsibility regarding quality of work and must inspect all flooring before permanent installation to approve its color, finish and overall quality. The installer should not install a piece if a doubt exists as to grade, manufacture or finish.

BECAUSE EACH STRIP IS UNIQUE, ETERNA STRONGLY RECOMMENDS THAT YOU FIRST PRE-ASSEMBLE THE WOOD STRIPS TO DETERMINE APPROPRIATE COLOR, SHADE MIX AND LAYOUT OF THE FLOORING PRIOR TO FINAL INSTALLATION. Three or four boxes of strips should always be opened during installation to ensure a proper blend of shading.

To avoid moisture-related problems and for the floor to be covered by the warranty, surface preparation must follow the recommendations of the IngenuityPlus Flooring Installation Guide. The sub-floors must be prepared accordingly and as per National Wood Flooring Association (NWFA) guidelines as well as recognized trade techniques.

## Recommendations for Long-lasting Beauty of IngenuityPlus Wood Flooring

Recommended relative humidity levels of 35% to 65% all year long are essential to avoid problems caused by humidity. High humidity levels will result in undesired swelling, and low humidity levels will cause the floor to shrink. Cupping with engineered flooring is considered normal with relative humidity below 35% during a few weeks. The flooring should regain its normal appearance after a few weeks when relative humidity reaches the desired level. Use the necessary devices (humidifier/dehumidifier) and ventilation systems (air conditioning, heating, opening windows) to control the environment inside the home.

Use Eterna Floor Care products especially designed for hardwood floor cleaning. Never use water or abrasive cleaners or pour any liquid directly onto the floor. Wipe excess liquids or spills immediately. Doormats or carpets at all entrances will protect flooring against abrasive dirt and moisture – vacuum or shake them out regularly.

Although the OptimaQuartzprecision™ finish offers a non-yellowing compound against the effects of UV rays, adequate window coverings should be in place to protect IngenuityPlus Flooring from excessive sunlight or other intense lighting sources.

Do not let spike heels, especially those in poor condition, in your house. Spike heels can even damage a cement floor. Avoid scratches and indentations by putting felt protectors or barrel-type coasters under all furniture.

• Door castings should be undercut to avoid difficult scribe cuts. Use a jamb saw or lay a piece of flooring flat on the sub-floor as a depth guide for your handsaw.

Measure the room carefully to ensure that the new floor can be installed squarely and evenly since corners are not always at a 90° angle.

Remove the boards from their packaging and lay them on the floor according to the desired pattern. The last row of strips must be at least 1" (approx 25 mm) wide to be properly secured. If the area available at the end is less than 1", reduce the width of the initial row.

The Buyer must approve the proposed color and layout prior to permanent installation

## INSTALLATION

### CREATE A RANDOM EFFECT WITH STARTER BOARDS

IMPORTANT: Eterna flooring comes in fixed random lengths. To avoid creating an undesirable pattern in the floor, it is necessary to vary the lengths of starting boards during the entire installation.

- To create a "starter board", cut one board of each length in half. These boards, plus uncut lengths, will create random joints during initial rows.

- Continue the process of cutting "starter boards" at various lengths intermingled with the full-length units, to complete the installation of the flooring, with joints at least 5" (12.5 cm) apart.

- Avoid creating a pattern of joints by varying the length of the "starter boards".
• Cuts made from the opposite wall may be used for "starter boards" just as cuts from the "starter boards" may be used on the opposite walls.
• Starter boards should measure a minimum of 6 inches.

## Glue-down installation

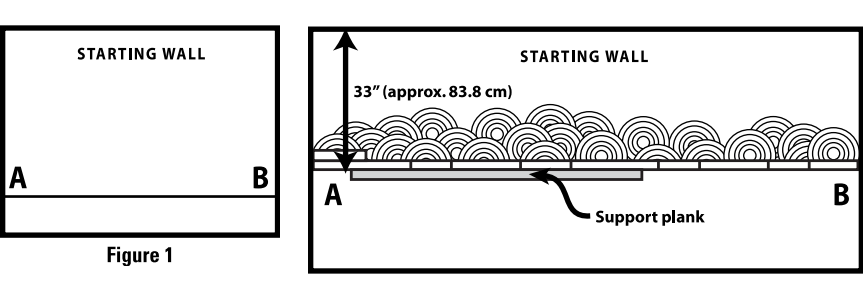
1. Lay out working line.
a. Snap a chalk line (line A-B, Fig. 1.) parallel to the starting wall at a distance determined by the following chart:

3 1/4" (8.25 cm) widths	33" (83.82 cm) from the starting wall*
5 3/16" (13.3 cm) widths	26 7/16" (67.31 cm) from the starting wall**

\* The distance from the starting wall is equal to the sum of a set amount of boards (5 to 10) + 1/2" (12.7 mm) for expansion.

\*\* The last row must be at least 1" (25 mm) wide. If necessary, reduce the distance from the wall and trim the first row to compensate.

- b. Place a long and straight support plank along this line.
c. Spread Ingenuity Lock adhesive as per instructions, toward the starting wall.
2. Place the tongue side of the board towards the starting wall, with the groove side on the support plank as per figure 2.
3. Complete the starting section and wait until it is dry and solid.
4. Remove the starting board.
5. Continue the installation.



## Nail or Staple Installation

1. Snap a chalk line parallel to the starting wall at a distance equal to the width of a board plus 1/2" for expansion. Adjust the line as necessary to allow for tool clearance, wall deviation and to allow the last row to be at least 1" wide.
2. Place the groove side of the board next to the starting wall, with the tongue side lined up on the chalk line.
3. Use 1" (25 mm) finishing nails to secure the board to the floor. The nails should be spaced 1/2" (approx. 1.3 cm) from the edge and 4" to 6" (approx. 10 to 15 cm) apart.

## Claims Policies and Procedures

The sole obligation and liability of the manufacturer of IngenuityPlus Engineered Wood Flooring, under our stated warranties and at the manufacturer's discretion, is to repair, replace or refinish said portion of the floor, provided that the Buyer meets all applicable terms, conditions, and limitations of the applicable limited warranty.

Claims must be filed by the initial Buyer and homeowner at the point of purchase. Defects should be reported to the point of purchase no later than 30 days after the purchase.

The following documents should be kept in a secure place since they will be requested when processing a claim: product code, proof of purchase, original warranty and the IngenuityPlus installation guidelines. The manufacturer reserves the right to inspect the floor and remove samples for technical analysis, including the removal of at least two wood strips for lab testing, if necessary.

## Limitations and Exclusions

