

# LUXECRAFT UNIZIP INSTALLATION INSTRUCTIONS

# **Materials Required for Installation**

- Tape Measure
- Full Face Tapping Block
- Saber Saw/Circular Saw
- Pull Bar
- Tile Cutter

- Carpenter Square
- Utility Knife/Blades
- Chalk Line
- Safety Glasses

NOTE: This product must be installed in accordance with installation instructions outlined in this document as to not void the applicable warranties.

NOTE: We recommend placing a single order for all cartons required for larger installations and commercial flooring projects.

#### **Asbestos Warning**

Warning! DO NOT MECHANICALLY CHIP OR PULVERIZE EXISTING PREVIOUSLY INSTALLED RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVES OR OTHER ADHESIVES. Previously installed resilient floor covering products and the asphaltic or cutback adhesives used to install them may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of asbestos or crystalline dust is a cancer and respiratory track hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless you are positive that installed product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material. 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.

# **Underlayments**

These vinyl flooring products can be installed directly over most existing floor coverings, EXCLUDING carpet (including needle felt), floating laminate, floating floor systems, lauan and cushioned vinyl flooring. You may install directly over ceramic (well-bonded with a skim coat), PVC, VCT (well-bonded, on- and above-grade), terrazzo (well-bonded), glued laminate, glued hardwood and fixed wooden boards, provided they are installed over a wooden subfloor.

NOTE: Do not use chemical adhesive removers to remove existing adhesive.

## **Wood Underlayments**

Wood subfloor systems require a double-layer construction. The top layer must be underlayment grade as specified and warranted by the manufacturer. Always fasten underlayment in accordance with the manufacturer's recommendations.

- A moisture test is required using a pin-type moisture meter. The moisture content must not exceed 14%.
- Wood subfloors must be structurally sound and in compliance with local building codes.
- Double-layered APA-rated wood subfloors should be a minimum 1 inch total thickness, with a least 18 inches well-ventilated air space beneath.
- Insulate and protect crawl space with a 6-mil vapor barrier.
- It is recommended that your chosen APA underlayment be designed for installation under resilient flooring and carry a written warranty.
- Underlayment can only correct minor deficiencies in the subfloor while providing a smooth, sound surface on which to adhere the resilient flooring.
- Always follow the underlayment manufacturer's installation instructions.
- Wood subfloors directly fastened to concrete or sleeper construction are not recommended.
- APA-rated Sturd-I-Floor panels are designed as combination underlayment/subfloor and are designed for carpet only. Installing this resilient flooring over Sturd-I-Floor panels would require installation of a minimum ¼-inch underlayment on top of the Sturd-I-Floor subfloor.
- It is NOT recommended to install this flooring directly over fire-retardant treated plywood or preservative treated plywood. The materials used to treat the plywood may cause problems with adhesive bonding. An additional layer of APA-rated ¼-inch thick underlayment should be installed overtop any treated subfloor.

#### OSE

- OSB panels and joints must be fastened and reinforced according to manufacturer's instructions. Completely sand the floor with a floor sander so that the floor is smooth and flat.
  - NOTE: The chips in OSB overlap. Without sanding properly, OSB has high and low spots throughout the floor that could telegraph through the vinyl.
- Some chips in the OSB structure can stain vinyl flooring and may require repeated primer to eliminate the staining potential. For these reasons, the sanded OSB surface must be primed using a manufacturer-approved acrylic latex primer.

#### Particle board

- Particle board underlayment panels must be underlayment grade as specified and warranted by the manufacturer.
- Surface must be primed using a manufacturer-approved acrylic floor primer.

NOTE: Perform moisture tests using a reliable moisture meter in multiple locations. Moisture readings should never exceed 14% for plywood, OSB, particle board, chipboard, or solid hardwood subfloors. If moisture readings exceed 14%, conditions must be corrected at the job site before installing the flooring.

## **Resilient Floor Covering as an Underlayment**

- Must be single layered, non-cushion backed, fully adhered and smooth.
- Show no signs of moisture or alkalinity.
- Wax, polish, grease and grime must be removed.
- Cuts, cracks, gouges, dents and other irregularities in the existing floor covering must be repaired or replaced.

NOTE: The responsibility of determining if the existing flooring is suitable to be installed over rests solely with the installer/flooring contractor on site. If there is any doubt as to suitability, the existing flooring should be removed, or an acceptable underlayment installed over it. Installations over existing resilient flooring may be more susceptible to indentation.

#### Concrete

New and existing concrete subfloors should meet the guidelines of the latest edition of ACI 302 and ASTM F 710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring" available from the American Society for Testing and Materials.

Moisture levels of concrete slabs before, during and after installation must be 8 lbs or less per 1,000 sq ft per 24 hours using an anhydrous calcium chloride test according to ASTM F1869 and pH must be between 5.0 and 9.0; or, if using ASTM F2170 in-situ probes, moisture levels should be less than 90% RH (relative humidity). Three tests should be conducted for areas up to 1,000 sq ft. Conduct one additional test for each additional 1,000 sq ft. Always measure, record and keep your testing results.

A minimum 6-mil polyethylene vapor barrier with a density of 0.92 lbs/cubic foot is highly recommended for all floating floor installations. The 6-mil polyethylene vapor barrier should have an overlap of 8 inches and should be taped at the seams. The 6-mil polyethylene vapor barrier should not be used to resolve moisture issues; the moisture must be mitigated by other means. Claims related to cupping and/or peaking without a 6-mil polyethylene vapor barrier could be denied.

The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

- Never use liquid adhesive remover or solvent cleaners for removing old adhesive residue or other substances on the substrate. Use of these cleaners will cause future failures in the new flooring.
- On- or below-grade slabs must have an effective vapor retarder directly under the slab.
- Concrete floors shall be flat and smooth within 3/16 inch over a 10-foot span.
- F-Number System: Overall values of FF 36/ FL 20 may be appropriate for resilient floor coverings.
- Glossy or waxed floors may require a higher value FF 75/ FL 50 to prevent telegraphing issues.

#### **Old Adhesive Residue**

If the adhesive is asphalt-based (cut-back) or any other type of adhesive is present, it must be dealt with in one of two ways:

- 1. It may be mechanically removed using methods such as bead blasting or scarifying, using a licensed professional contractor. (See Asbestos Warning above.)
- 2. A Portland cement-based self-leveling underlayment may be applied over it. Check with the underlayment manufacturer for suitability, application instructions and warranties.

## **Other Approved Underlayments**

- Self-leveling and patching compounds (latex-fortified Portland cement-based only).
- Radiant heat floors (not exceeding 85°F [29°C]).
- Gypcrete can be utilized when necessary due to radiant heat and in high-rise buildings. Gypcrete must be sealed using a manufacturer-approved acrylic
  floor primer to stabilize the surface. All issues with gypcrete cracking, crumbling, powdering and resulting in the release of adhesive bond are NOT
  warranted by the manufacturer.

# **Storage and Handling**

- Flooring must be acclimated in the room of installation between 55° and 85°F (13°-29°C) for 48 hours before installation. These temperatures should be maintained before, during and after the installation is complete.
- Always store and transport rigid luxury vinyl flooring on a flat surface in neat stacks to prevent warping. Never store the cartons upright or in moist, dusty rooms or in places with extreme temperatures. Cartons should be evenly stacked and stored away from any heating/cooling ducts and direct sunlight.
- Installation in enclosed Three Season Rooms: acclimate product and room at 55°- 85°F (13°-29°C) for 48 hours before, during and 48 hours after installation is complete. Maximum installation span for Three Season Rooms is 40 ft x 40 ft (12.2 m x 12.2 m) with a 1/2-inch (13 mm) minimum expansion for the perimeter or all vertical objects.

# **Subfloor and Wall/Door Preparation**

• Floor must be clean, smooth, flat and dry. Remove all foreign substances such as wax, grease, dirt, construction markings and contaminants, and any substance or chemical that would interfere with a good bond. Fill all holes and cracks with a latex-fortified Portland cement-based patching compound. Sand high spots to eliminate the possibility of telegraphing. Prime floor if needed with a manufacturer-approved acrylic latex primer to prevent over-absorption of adhesives and dust containment, and to ensure a better bond of the adhesive to the subfloor.

- Any unevenness of more than 3/16 inch over a 10-foot span (5 mm over a length of 3 m) must be leveled out. Remove bumps in the subfloor by sanding or scraping.
- Fill any low spots in the subfloor with a Portland cement-based leveling compound.
- Ceramic tile and embossed flooring exceeding the above requirements will require skim coating with a Portland cement-based patch to avoid bottom-up pattern telegraphing.
- Remove any existing floor molding. Removal of wall baseboards is optional providing quarter round is installed to cover the required expansion gap.
- Undercut doorjambs, allowing the rigid luxury vinyl flooring to slip under doorjamb/case molding.
- Sweep the subfloor clean. The floor must also be free of all contaminants.

## **Job Site Conditions**

- It is recommended that resilient floor covering installation shall not begin until all other trades are completed.
- Areas to receive flooring shall be clean, fully enclosed, with the permanent HVAC set at a uniform temperature range of 55°F (13°C) and 85°F (29°C) and maintained following the installation.
- Adhesive working and open times vary based on job conditions, substrate, temperature and humidity.

## **Temperature - Ambient**

- Controlled environments are critical for testing and installation. Fully operational HVAC systems are the best way to ensure temperature and humidity control.
- Do not install resilient flooring products until the work area can be temperature controlled. Minimum installation temperature is 55°F (13°C) with a maximum installation temperature of 85°F (29°C) and humidity below 65% for 48 hours prior to, during and after pre-installation testing.

#### NOTE: Do not install flooring if subfloor moisture test results exceed recommended limits.

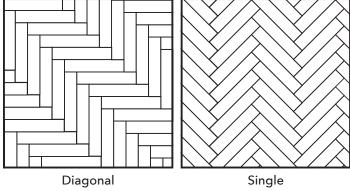
#### **Temperature - Radiant Heat**

- Radiant heated substrates must never exceed 85°F (29°C) surface temperature.
- Several days prior to installing resilient products over newly constructed radiant heated systems, make sure the radiant system has been on and operating at maximum temperature to reduce residual moisture within the concrete.
- Three days prior to installation, lower the temperature to 65°F (18°C). Twenty-four hours after installation, gradually increase the temperature in increments of 5°F.
- After continuous operation of the radiant system, ensure the surface of the floor does not exceed 85°F (29°C).

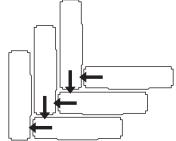
## **Installation Instructions**

This flooring uses Unizip edge profile technology to make installation easy.

- The Unizip patented click technology affords two different herringbone room orientations. Please determine the installation program and choose your favorite installation effect before installation.
- 2. According to the size of the installation area, determine the center point of the area to obtain the best effects.



- 3. The most common installation method: Diagonal Herringbone.
  - a. Using one plank of flooring as the reference edge, start to install the floor, first inserting the second plank short-side tongue into the reference long-side groove. Take the third plank and insert the long-side tongue into the reference plank long-side groove.
  - b. Tap the end joint into place with a hammer and tapping block to fully engage the end joints together.
  - c. Repeat installation of planks in this manner across the room, filling in planks on either side of the starter group of planks shown above.



- d. Measure the sides of the floor and cut off the excess, being careful to leave a 3/8-inch expansion space.
- e. Check the groove on each plank to ensure it is clean and free of debris.
- f. Continue installing planks, checking that all planks are fully engaged; if a slight gapping is found, the gap can be tapped together by using a tapping block.
- g. When fitting under door casings, etc., the flexibility and convenient connection of Unizip becomes evident. If necessary, a pull bar may be used to assist in locking the planks. If needed, remove the locking profile on the groove side in order to slide the plank into place and apply seam sealer to the edges to glue planks together.
- h. When fitting around obstacles or into irregular spaces, the product can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the plank.
- i. Protect all exposed edges of the flooring by installing wall molding and/or transition strips. Make sure that no plank will be secured in any way to the subfloor.
- Remove all spacers
- The entire perimeter of the installation must be sealed with the WetProtect molding system and 100% silicone sealant in accordance with the installation instructions. For sections where the WetProtect molding system cannot be used, seal the perimeter with 100% silicone sealant, as follows. DO NOT use acrylic sealant.
- First, fill all expansion spaces with 3/8-inch compressible PE foam backer rod and cover with silicone sealant.
- Prior to installing the moldings, apply silicone sealant to the portion of the molding or transition that will contact directly with flooring surface.
- Install moldings and immediately wipe away any excess silicone sealant.
- Apply silicone at connections to doorframes or any other fixed objects.

### Additional Instructions/Notes

#### **Molding and Transitions**

- All floor molding and transition strips need to provide a 3/8-inch (10mm) expansion space to allow expansion and contraction.
- Ensure moldings and transitions strips will not pinch the flooring. This will prevent the floor from properly expanding and contracting as well as allowing the structure to move freely over the floor.
- For rooms that have a run greater than 50 feet, a transition strip must be installed.
- Never allow nails or screws to enter the rigid luxury vinyl flooring or the expansion zone around the flooring perimeter as it will prevent proper expansion and contraction of the structure and flooring.
- Quarter round, base board, door jambs etc. should never pinch the flooring as this may prevent the floor from properly expanding and contracting.

#### Care & Maintenance

To help protect your floor and keep it clean, follow these proper care and maintenance guidelines:

#### **Preventative Maintenance**

- Prevent indentations and scratches by using non-staining floor protectors on the legs of chairs, appliances and all heavy furniture. Floor protectors should be at least 1 inch in diameter.
- Do not flood floor or subject to standing water.
- Protect your floor from tracked-in dirt by using mats at all outside entrances. Mats should have a non-rubberized backing and be marked as non-staining.
- Avoid tracking in tar or asphalt from driveways.
- Avoid high-heeled shoes on your floor as they can cause permanent indentations.
- Protect your floors against burns. Burns from cigarettes, matches or other extremely hot items can cause permanent damage.
- Avoid exposure to direct sunlight for prolonged periods, as this can cause discoloration.

## **Cleaning & Maintenance**

- Sweep the floor regularly with a soft bristle broom to remove loose dirt.
- Wash the floor with non-abrasive, neutral PH floor cleaner.
- For everyday maintenance, a mop moistened with warm water will suffice.
- Spills should be cleaned up immediately.

## DO NOT use the following on your luxury vinyl floor:

Soap-based detergents

Floor wax

- Abrasive or mopand-shine products
- Vacuum cleaners with a rotating beater bar
- Ammonia
- Bleach solution greater than 3%

NOTE: Always read the cautionary information on all cleaners prior to use.

NOTE: Never push, pull or drag furniture, appliances or other items across the floor. When moving furniture or heavy items, always lift and carry the items. To minimize the risks of scratches and gouges when moving heavy objects, place plywood underlayment between the flooring and object to be moved.