

# Kennedy

## FLOORINGS

### INSTALLATION GUIDE FOR LOOSE LAY LUXURY VINYL FLOORING

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- Davenport
- Newport I
- Newport II
- Embrace

#### BEFORE YOU BEGIN

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- Make sure you have the latest installation guideline to ensure up to date information by referring the revision date. Installation documents found at [www.kennedyfloorings.com](http://www.kennedyfloorings.com).
- Adherence to installation guideline is mandatory to validate warranty.
- Flooring products must be acclimatized for at least 48 hours prior installation in the installation area that meets the SUITABLE ENVIRONMENT guideline.
- Flooring products must be installed on a surface that meets the SUITABLE SURFACES guideline.

#### SUITABLE ENVIRONMENT

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- Installation area must be climate controlled with an operating air conditioner and heat source that is operational for a minimum of 7 days prior to installation. Climate controlled conditioning is expected to remain operational during and after installation.
- Installation area is expected to remain stable between 16°C and 25°C with a maximum relative humidity of 65%.

#### SUITABLE SURFACES

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Adequate sub-floor preparation is necessary to ensure a successful installation.

- Sub-floor must be lightly textured, porous, and well-bonded. The sub-floor must be dry, smooth, level, clean, and dust-free, with a tolerance not exceeding more than 1/8" in a 6' span.
- All sub-floor and underlayment patching must be done with a non-shrinking, water-resistant Portland cement patching compound.
- Holes, grooves, expansion joints, and other depressions must be filled with a Portland cement-based underlayment and troweled smooth and feathered even to the surrounding surface.
- If installing on a concrete slab, it must be dry, clean, and well-cured (cured for at least 6 weeks prior to installation). Concrete must be free from dust, powder, flaking, solvent, paint, wax, grease, oil, and other erroneous compounds that will effect the adhering qualities of the adhesive. Concrete moisture content must be less than 75% relative humidity. New concrete slabs must be dry and cured for at least 6 weeks prior to installation.
- Installing on wood and wood composite panels (plywood, OSB, flake board, and particle board) can be used provided they are smooth, flat, structurally sound, and free of deflection.
- It is acceptable to install over an existing ceramic tile provided it be made smooth by applying a cement overlay such as patching or leveling compound to smooth out grout joints to prevent telegraphing.

## UNSUITABLE SURFACES

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- Flooring product cannot be installed over rough and uneven sub-floors. Heavily textured and/ or uneven surfaces may telegraph through the vinyl and distort the finished surface.
- Flooring product cannot be installed over cushioned vinyl floor, vinyl floor consisting of multiple layers, or a sub-floor with multiple layers of existing flooring.
- Sub-floors soiled with dirt, dust, powder, solvent, paint, wax, grease, and oil are not suitable for installation.

WARNING: DO NOT REMOVE OLD RESILIENT FLOORING. THESE PRODUCTS MAY CONTAIN EITHER ASBESTOS FIBERS OR CRYSTALLINE SILICA, WHICH CAN BE HARMFUL TO YOUR HEALTH.

NEVER SCRAPE ADHESIVE RESIDUE THAT MAY CONTAIN ASBESTOS. NEVER USE LIQUID CHEMICALS TO REMOVE OLD ADHESIVE. SOLVENTS OR OTHER ABRASIVE CHEMICALS USED TO CLEAN THE SUB-FLOOR CAN DAMAGE THE BACKING OF THE LUXURY VINYL PLANKS OR TILES IF NOT PROPERLY REMOVED.

## RADIANT HEATED FLOORS

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Loose Lay Luxury Vinyl can be installed with concrete embedded radiant heated floors.

- Flooring must be installed using an embedded hydronic radiant heat system or electric radiant heat system that utilize embedded cables within the sub-floor.
- Radiant heat systems must be covered by a self leveling concrete and separated by the flooring at a minimum of ½".
- Radiant heat must not exceed 29°C.
- Flooring with radiant heat must be wet set installed using HS-V adhesive.

## TOOLS & SUPPLIES

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You will need a few tools and the appropriate adhesive to ensure the success of your installation including: utility knife, carpenter square, straight edge, tape measure, adhesive, and 1/16" x 1/32" x 1/32" U-notch trowel.

## ADHESIVE

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Our Shamrock Surfaces adhesive must be used in order to validate the warranty. Kennedy Floorings supplies a premium adhesive that is void of fillers to ensure a successful installation of your flooring.

- When referring to "flash over" of adhesive, this essentially means allowing the adhesive to become tacky to the touch, without any adhesive transferring onto your finger.

### PS-90

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Shamrock Surfaces PS-90 (2230) is a pressure sensitive flooring adhesive designed to be used with Luxury Vinyl flooring products. PS-90 is for full adhesion installation only.

- PS-90 is for residential applications only, and is not designed for commercial installations.
- PS-90 is simple to use, just follow the instructions found on the pale.

### HS-V

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Shamrock Surfaces HS-V (5900) is a high sheer vinyl flooring adhesive designed to be used with Luxury Vinyl Flooring products where an aggressive adhesive is recommended in areas with high traffic and rolling loads, and volatile temperature variations.

- HS-V adhesive is mandatory for commercial applications. Wet setting is recommended for volatile areas.
- HS-V adhesive is recommended for residential applications and is mandatory for loose lay installations.
- Application of HS-V is simple, just follow the instructions found on the pale.

## RESIDENTIAL INSTALLATION

Residential installations may follow a full adhesion or loose lay installation format. Below will explain the differences, and

### Full Adhesion Installation

Full adhesion installations will yield the best results and is recommended by Kennedy Floorings for residential applications.

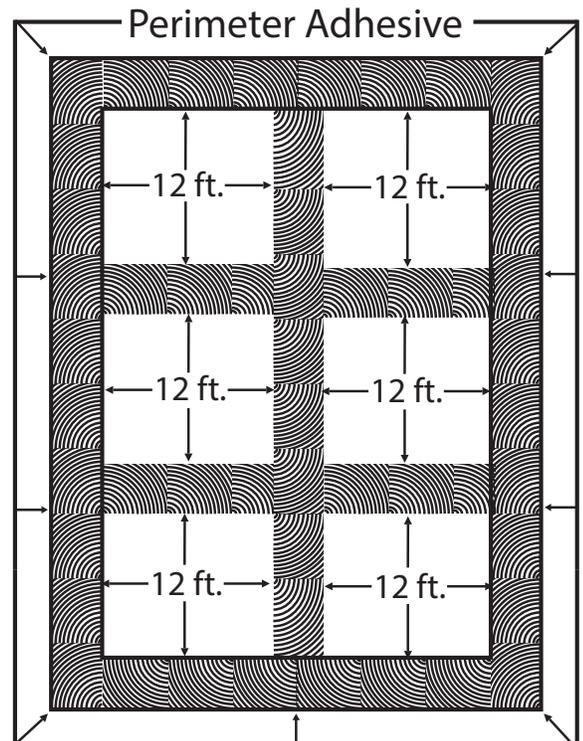
- Full adhesion for residential applications can use either PS-90 or HS-V adhesive.
- Our PS-90 pressure sensitive adhesive is typically used for residential applications. Pressure Sensitive adhesives react by grabbing the flooring product harder as pressure is applied. This allows planks to be easily pulled up and placed back down during and after installation. This is beneficial as damage caused by the user is easily remedied by replacing individual planks as needed.
- Our HS-V adhesive can also be used and is highly recommended for volatile areas. HS-V will adhere the flooring to the sub-floor in a more aggressive manner as the adhesive cures, as opposed to pressure essentially making the installation more dimensionally stable.
- If the installation area has radiant heat, it is mandatory to wet set the flooring using HS-V adhesive.

### Loose Lay Installation

- Loose Lay installation is for residential applications only, and will follow a grid pattern of adhesive strips within the installation area.
- Loose lay installations without the use of any adhesive is not recommended as the sub-floor beneath the flooring will move and shift over time caused by extreme climate changes that Canada undergoes each season, which may cause undesirable movement of the flooring.

- HS-V adhesive is mandatory for loose lay installation.

1. Map out where you will apply adhesive in a grid formation including the perimeter.
2. Working in manageable sections, apply the adhesive and wait for the adhesive to flash over before placing down flooring onto adhesive.
3. Apply adhesive into strips at the width of the flooring product.
4. Form an adhesive grid following the preplanned map with strips of adhesive at a maximum of 12' apart as shown in the diagram to the right.
5. Loose lay installation cannot be used in areas with radiant heat.
6. Although unlikely, except in volatile areas that experience extreme temperature variations and rolling loads, issues can arise caused by loose lay installation such as unwanted movement of floor, simply fully adhere the flooring in trouble areas.
7. Follow adhesive instructions found on the adhesive pale.



## COMMERCIAL INSTALLATION

- Commercial installation of Loose Lay Luxury Vinyl flooring products require a full adhesion installation using our HS-V adhesive.
- HS-V must be wet set in volatile areas that see high traffic, rolling loads, and extreme temperature variations such as entrances. This will ensure the stability of the flooring under extreme conditions.
- Follow adhesive instructions found on the adhesive pale.

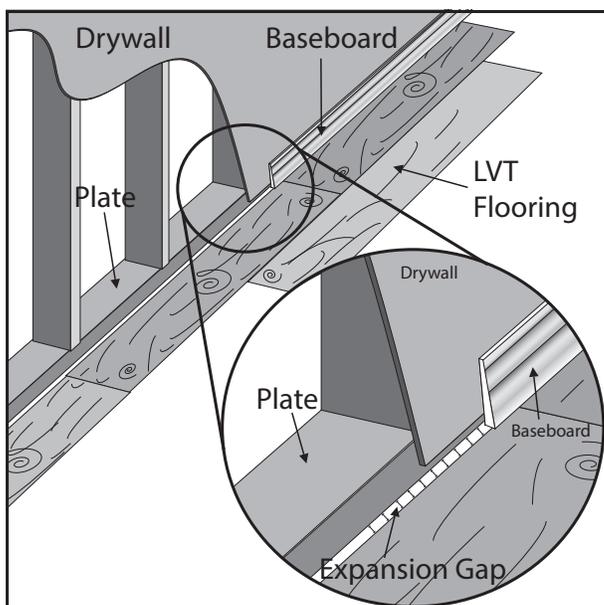
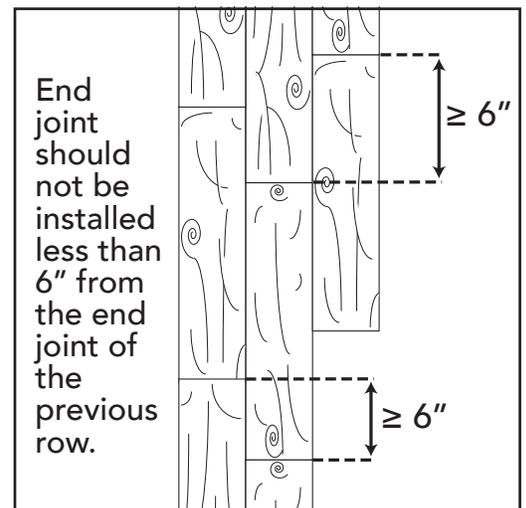
## INSTALLATION

BEFORE BEGINNING INSTALLATION ENSURE THAT SUITABLE ENVIRONMENT AND SUITABLE SURFACES GUIDELINES HAVE BEEN MET. NEGLECTING TO MEET GUIDELINES MAY RESULT IN A VOIDED WARRANTY.

It is highly recommended to sort through at least 25% of your flooring material by categorizing each visual variation into its own pile to ensure a successful "blend" of the flooring. Failure to do this crucial step may result in an unsatisfactory installation as certain areas may contain more of one image variation than another.

### Planning Your Installation

1. First, determine which installation format your flooring will use: full adhesion or loose lay. Take note of the installation guide for your chosen installation format as you follow the steps under the installation guide that follows.
2. Determine the direction you want the flooring to run. Typically the length of luxury vinyl flooring will run with the length of the room or the length of the floor plan.
3. It is important to plan ahead in order to avoid narrow planks widths or short plank lengths near walls and doors. Using the width of the room, calculate how many full boards will fit into the area, and how much space remains that will need to be covered by partial planks (width of room in inches  $\div$  width of plank in inches = number of planks). Do the same calculation for the length of the room (length of room in inches  $\div$  length of plank in inches = number of planks). Adjust the starting plank as necessary to avoid a narrow row of planks along a wall or door.
4. Flooring should be installed from one corner of the room working your way out row by row. Begin laying your floor at the corner of the longest wall. Lay a complete row of planks to determine the length of the final plank.
5. If the last plank (fill piece) is shorter than 6", then adjust the starting point accordingly. This is necessary in order to achieve the correct staggered effect. The cut edge should always face the wall.
6. To make any fill pieces, simply score the top of the surface of the LVT plank or tile using a utility knife and a straight edge, then snap downward.
7. Start the next row. Planks should be installed randomly, staggering the end joints, no less than 6" from the previous row end joints. Keep planks and tiles squared and tight to the surrounding floor as it is being laid down.
8. Stagger the joints a minimum 6" apart.



### The Perimeter

All structures shift and move, this is why it is mandatory to have an expansion gap off all walls.

9. Planks or tiles should be placed 1/4" off the wall plate. If an installation area is less than 20' in the longest direction, an 1/8" expansion gap is sufficient. Drywall and trim will cover the gap.

10. If you're doing a loose lay installation in a residential application, begin the installation by applying a strip of adhesive around the perimeter of the installation section, making sure that you are working within manageable sections.

11. As you continue to lay down flooring, apply adhesive around of the perimeter of the installation section, and strips of adhesive as you move out from the wall forming an adhesive grid.

## Continue Laying the Floor

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12. Continue to lay down the flooring following your chosen installation format (loose lay or full adhesion) taking care to spread the adhesive into manageable sections as you move along laying down the flooring.
13. It is important to ensure that the adhesive flashes over before laying more flooring unless it is being wet set with HS-V
14. To fit air vents, door frames, etc., make a cardboard pattern as a guide and use this to draw an outline on the plank. Cut to shape and check that it fits. It should fit snugly and should not be forced into place.

## Stairs

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15. For installation on stairs and landings, it is mandatory to fully adhere the flooring. Stair nosing should be metal, rubber, or you may use our coordinating trims available through your authorized dealer.

## AFTER INSTALLATION

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- When you have finished laying your floor, clean up any remaining or spilled adhesive with a damp cloth. Allow 5 days before washing the floor to allow the planks to adhere to the sub-floor.
- If an edge or corner of the flooring happens to lift slightly in specific areas, use adhesive to adhere the floor flush to the sub-floor.
- Sweep regularly to remove surface grit and dust. Use a damp cloth or mop to clean up any dirt and footprints. All spills should be cleaned up immediately.
- Never use wax, polish, abrasive cleaners, or scouring agents as they might dull or distort the finish. High heels can damage floors.
- Use protective pads under furniture. Do not use rubber or metal pads. Felt pads are highly recommended.
- Use doormats as entrance ways to protect the floor. Avoid using rubber backed rugs as they may stain or discolor the flooring.
- It's a good idea to save a couple of boxes of flooring in case of accidental damage. Planks can be repaired or replaced.
- If other trades are in the work area, a floor protector is highly recommended to help protect the finish of the floor.
- **CAUTION:** Some types of nails, such as common steel nails, cement coated or resin-coated nails, may cause discoloration of the LVT floor covering. Use only non-staining fasteners with underlayment panels. The procedure of gluing and screwing underlayment panels is not recommended. Solvent-based construction adhesives are known to stain Luxury Vinyl flooring. All responsibility for discoloration problems caused by fastener staining or the use of solvent-based construction adhesive rests on the flooring installer and/ or customer.

## SUPPORT

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Product support is available through your authorized dealer, and you may also contact Kennedy Floorings directly through email or phone for any questions or concerns you may have.

This is a comprehensive installation guide to ensure our customers experience a successful installation the first time.

Kennedy Floorings is dedicated in providing our customers the best flooring products available. All Kennedy Floorings products are rigorously tested to ensure our customers receive the best product possible.

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