

Multi Layer Vinyl Click (MLF)

MLFAngleAngle20.1

INSTALLATION & MAINTENANCE INSTRUCTIONS | VINYL CLICK PLANKS



**PLEASE READ ALL INSTRUCTIONS CAREFULLY, BEFORE YOU BEGIN INSTALLATION.
IMPROPER INSTALLATION WILL VOID WARRANTY. FOR ALL INSTALLATION CONDITIONS AND INFORMATION NOT COVERED SPECIFICALLY UNDER THESE INSTRUCTIONS, OR DEFECTIVE MATERIAL, CONTACT PACMAT PURE FLOORING.**

Always check the manufacturer website (www.pacmatpure.com) for the latest installation information, warranty and maintenance information. Read and follow all manufacturer instructions.

Please Note: Floating floors are designed to expand and contract monolithically without restriction.

Special attention needs to be given to (but not limited to):

- Avoid excessive heat, such as sun rooms and area with extended direct sunlight. Excessive heat can cause uneven expansion and contraction and result in floors buckling. Window coverings can be installed to reduce excessive heat.
- Do not apply baseboard too tight to the flooring, or nailing through the flooring, resulting in restricted movement.
- Do not restrict movement by installing cabinets, islands or other heavy objects on top of the flooring. Heavy objects such as pool tables and refrigerators are acceptable as long as they do not exceed 300 PSI onto the floor.
- All sub-floors must be smooth and flat, void of waxes or other contaminants that might allow the flooring to stick to the sub-floor surface, restricting movement.
- Always allow proper expansion space. An expansion gap must be provided, continuously, at all vertical surfaces, allowing material to expand and contract with no restriction.
- Floors that are restricted from freely expanding and contracting are subject to buckles and gaps. Buckling and gapping due to restricted movement is not covered under warranty.

IMPORTANT: This product comes with an attached cushion, no additional cushion is required or approved.

THE USE OF AN ADDITIONAL CUSHION WILL VOID ALL WARRANTIES.

General Guidelines

Always follow the most current installation instructions. For the most current instructions go to the manufacturer website pacmatpure.com.

Always read the complete installation instructions prior to installation.

Always follow all Local and Federal Building Codes.

Always follow all OSHA regulations for safety.

Although this product is waterproof, it is not a moisture barrier.

Installation Tools Required

1/4" Spacers	Utility Knife	String Line
Rubber Mallet	Tape Measure	Square
Hand Saw, Circular Saw, Jig Saw	Pencil	Pull/Pry Bar

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1) Pre-Installation Checklist

1) NORMAL ROOM CONDITIONS (NRC): Normal room conditions are defined as; ambient air temperature between 60-85 degrees Fahrenheit; surface temperature between 60-85 degrees Fahrenheit; ambient RH (Relative Humidity) between 35% -60%. Flooring should be the last material installed on a project. Make sure all painting and drywall is done, doors and windows are installed and HVAC system is installed and operating.

2) ACCLIMATION: Flooring products are designed to perform in normal room conditions (NRC) ambient temperature and surface temperature must be between 60-85 degrees F, ambient relative humidity (RH) must be between 35-60%. Flooring products must achieve and maintain NRC prior to, during and after installation. Temperature readings must be taken and documented, including ambient room temperature and surface temperature. Acclimate cartons laying flat, not on end or on side, stacked no more than 5 cartons high. Avoid storing flooring direct sunlight. Do not store on radiant in-floor heated areas.

3) INTERIOR ONLY: This product is designed for interior climate controlled areas only.

4) SUB-FLOOR MOISTURE CONCRETE SUBSTRATES: Moisture levels in concrete substrates must be no higher than 85% Relative Humidity (ASTM F2170-09) and MVER of 10lbs (Calcium Chloride Test ASTM F1869-10). For levels higher than approved levels moisture mitigate with a product designed to reduce moisture level to acceptable level. Sub-floor pH must be between 5 and 9 on a pH scale. It is difficult to measure gypsum substrates for moisture. Although Relative Humidity Probes (ASTM F-2170-09) are the recommended method of testing, they are not practical due to the number of tests required and often the thickness of the gypsum. A professional electronic moisture indicator (Protimeter Aquant recommended) can be used to indicate if the substrate is dry enough to receive floor covering.

5) SUBFLOOR MOISTURE WOOD SUBSTRATES: Moisture levels in wood underlayment must not exceed 14% moisture determined by a professional electronic pin meter (example: Protimeter Surveymaster). Sub-floor pH must be between 5 and 9 on a pH scale.

6) SUB-FLOOR CONSTRUCTION: Sub-floors must be clean, dry and free of any materials that might interfere with unrestricted movement. Sub-floors must be soundly constructed to eliminate vertical movement. Sub-floors must be flat, no more than 3/16" undulation in 10 linear feet or 1/8" in 6'. Sub-floors must meet all Federal and local building codes. Patch sub-floor depressions using a portland based patch, grind down high spots following acceptable installation standards.

***Note: For wood substrates insure that there is a minimum of 18" between the sub-floor and the ground, the crawl space is ventilated and there is a minimum 6mil poly sheeting installed over the entire ground surface overlapped and taped.**

7) PRODUCT DIRECTION: For best visual results install flooring in the same direction of direct sunlight. Use of suitable window coverings during the times of most direct sunlight is strongly recommended. Always work out of 3-5 cartons mixing products from several boxes. Always dry lay prior to final installation to insure best visual results.

8) VISUAL INSPECTION: All flooring must be inspected, in proper lighting, prior to installation. Installed material with visible defects is not covered under the flooring warranty.

9) APPROVED SUBSTRATES: Approved substrates include: properly prepared concrete and cement leveling compounds (minimum 3500 PSI), properly prepared gypsum (minimum 3500 PSI), and underlayment grade plywood/OSB/OFB board.

***Note: Concrete substrates must be properly cured and meet moisture requirements. All concrete substrates on or below grade are required to have an approved poly film moisture barrier with minimum 6mil thickness properly installed.**

10) RADIANT HEATED FLOORING: Flooring is only approved over hydronic (water) in floor heating. Radiant heated floors should never exceed 85 degrees Fahrenheit.

11) ADHESIVE RESIDUE: Never install over adhesive residue, all residue must be completely removed or properly encapsulated.

12) CHAIR PADS AND LEG PROTECTORS: Chair pads are required under roller castors and leg protectors, a minimum of 1.5" diameter are required under chair legs.

13) FLOOR PROTECTION: After installation floors must be protected from trade and other damage by a floor protection designed for this purpose.

Always follow the most current installation instructions. For the most current instructions go to the manufacturer website pacmatpure.com

2) Installer Responsibilities

It is the floor covering installers responsibility to:

- Make sure the latest installation instructions are followed. For the most current instructions go to the manufacturer website pacmatpure.com.
- Make sure the product is suitable for its intended use.
- Visually inspect all material and remove any visibly defective material. Visibly defective material installed will not be covered under warranty.
- Stop any project that does not meet installation guidelines and contact the flooring retailer it was purchased from.
- Work out of several boxes mixing product for visual appearance. Dry fit prior to installation is the recommended method.

3) Suitability of Product

This product is approved for climate controlled indoor applications only.

Approved for use in:

- Residential applications (exclusions: heavy rolling traffic such as hospital beds or electric wheelchairs)
- Multi-Family applications (exclusions: heavy rolling traffic such as hospital beds or electric wheelchairs)
- Light Commercial applications: Light commercial is defined as light traffic commercial areas such as business offices and boutique shops (exclusions: heavy rolling traffic such as hospital beds or electric wheelchairs)

Not approved for use in:

- Areas of heavy rolling loads (such as: hospital beds, electric wheelchairs)
- Heavier traffic areas, entry foyers, or any area where food is prepared or objects are rolled or dragged around
- Industrial Applications

Please read warranty for a more complete definition of acceptable use.

4) Site Condition Requirements (NRC)

Normal Room Conditions (NRC):

Normal Room Conditions (NRC) must be maintained prior to, during and after installation. Normal room conditions are defined as:

- Ambient air temperature between 60-85 degrees Fahrenheit
- Surface temperature between 60-85 degrees Fahrenheit
- Ambient RH (Relative Humidity) between 35%-60%
- Substrate must be dry: concrete-less than 85% RH (Relative Humidity), wood less than 14% moisture
- pH levels between 5 and 9
- All flooring products are required to achieve NRC prior to installation

5) Acclimation Requirements

All products must acclimate to the room conditions in which they are being installed.

Flooring products (including adhesive & trim) are designed to perform in normal room conditions (NRC). Flooring products must achieve and maintain NRC 24 hours prior to, during and after installation. Temperature and Relative Humidity readings must be taken and documented, including ambient room temperature and surface temperature.

Acclimate cartons laying flat, not on end or on side, stacked no more than 5 cartons high. Allow air movement between boxes. Avoid storing flooring in direct sunlight. Do not store on operational radiant in-floor heated areas. It is critical to take a surface temperature reading of the vinyl plank prior to installation, it must also be at NRC (Normal Room Conditions).

NRC (Normal Room Conditions) must be consistently maintained at:

- Room temperature between 60 and 85 degrees F
- Surface temperature between 60 and 85 degrees F
- Ambient RH (Relative Humidity) between 35 % and 60%
- Flooring material must be maintained between 60 and 85 degrees F

6) Sub-floor Flatness Requirements

Sub-floor Flatness:

Sub-floor must be flat, with no undulation exceeding 3/16" in a 10' radius (or 1/8" in 6'). Grind high spots down and/or fill low spots with a quality cement patching compound. Allow patch to completely dry prior to installation. Follow patch manufacturers installation guidelines.

• Follow all federal and local build regulations and OSHA procedures when grinding. Some substrates might contain harmful contaminants; such as silica sand or asbestos. It is critical that you determine prior to grinding if there are any harmful contaminants in the sub-floor.

Warning: Follow the Resilient Floor Covering Institute (RFCI rfci.com) recommended practices whenever you are grinding a substrate, existing flooring or adhesive residue. These surfaces may contain Asbestos or other harmful contaminants.

7) Sub-floor Construction Requirements

Sub-floor Construction must meet all Local and Federal Building Codes:

Sub-floors must be soundly constructed (minimum 16" on center), to eliminate vertical movement. Sub-floors must be flat, not to exceed undulations exceeding 3/16" in 10' or 1/8" in 6 feet.

Approved Sub-floors: It is the floor covering installers responsibility to insure that sub-floor conditions are suitable.

Substrates must meet all Federal and local building codes.

- Concrete, properly prepared concrete, cement patch & leveling, (minimum 3500 PSI). Must not exceed 85% RH (ASTM F-2170-09) and must not exceed 10lb MVER (ASTM F1869-10). pH levels must be between 5 and 9.
- Gypsum, properly prepared gypsum (minimum 3500 PSI). Must be dry based on gypsum manufacturer standards, maximum 85% RH (ASTM F2170-09).
- Underlayment grade plywood. Must be minimum 1" total thickness, must be dry, less than 14% moisture content.
- Underlayment grade Orientated Strand Board (OSB) and Orientated Fiber Board (OFB), minimum 1" thickness.
- Existing floor covering that is firmly bonded to the substrate; dense not cushioned, and only one layer thick.

Non-Approved Sub-floors: It is the floor covering installers responsibility to insure that sub-floor conditions are suitable. Substrates must meet all Federal and local building codes.

- Sleeper type floor systems
- Plywood installed directly over a concrete slab
- Soft plywood or plywood not approved as "Underlayment Grade" certified by the Plywood Association, Luan, and pressure treated.
- Masonite or hardboard
- Contaminated surfaces: abatement chemicals, paint, oil, mold, mildew, grease or any containments that might interfere with adhesive bonding
- Strip plank wood flooring
- Uneven (3/16" in 10') or unstable substrates

For all substrates not mentioned check with PacMat Pure Flooring before proceeding with the installation.

On Grade and Below Grade Substrates:

Below grade substrates require a 6mil polyethylene film be applied to the substrate or a permanent moisture mitigation product must be applied. On grade substrates where moisture exceeds 85% RH must have a 6mil polyethylene film must be applied.

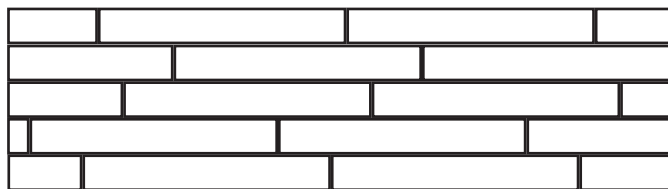
8) Radiant Heated Floors

Radiant Heated Substrates: In-Floor hydronic (water) radiant heat is acceptable to install over providing the substrate never exceeds 85 degrees Fahrenheit. In-Floor radiant heated floors must be turned off to achieve a substrate temperature between 60 and 85 degrees Fahrenheit prior to, during and for 48 hours after the installation.

- Floor warming systems, such as electric wire and mat systems, are not approved to install over.

9) Layout

- It is best to lay flooring parallel to light source (such as a window).
- Determine the center of the room by marking the center of each end wall. Snap a chalk line between these two points.
- Dry lay rows to wall, if the plank to the long wall will be less than 2" adjust the center line to make the long wall plank over 2". The goal is to have planks next to the wall to be a minimum of 2". Balance the cuts in the room.
- Stagger end joints by a minimum of 12" on a random basis.



Staggered Joint Design

10) Expansion Space and Transition Trim

Expansion Space:

Flooring expands and contracts with normal climate changes. This product must be allowed to freely float, to expand and contract monolithically.

- At all vertical surfaces in areas up to 50' x 50', a 1/4" expansion space is required.
- Undercut door jambs and other vertical surfaces to allow flooring to freely fit underneath.
- At vertical surfaces that will not be receiving wall base or other expansion trim (such as sliding glass doors); allow a minimum 1/4 " expansion gap and caulk gap with a flexible caulking (Silicone).
- Do not fit flooring full or under compression.

Expansion Transition Trim:

Transition trim must be used:

- In areas exceeding 50 in length; 50' in width, and/or 2,500 square feet.
- Between areas of uneven heating, where one areas temperature might be maintained differently than an adjoining area.
- At doorways and sliding glass doorways, use an end cap square edge transition.

11) Trim



End Cap

Use at sliding glass doors, entry doors, fireplaces, carpet, etc .



T-Mold

Use between two products close in height.



Reducer

Use when transitioning to hard surface.



Stair Nose

Use at stair nose.



Quarter Round

Use at wall base to extend coverage.

12) Installing on Stairs

- When installing on stairs, a stair nosing must be used.
- When adhering flooring to stairs use a permanent bonding adhesive, such as: urethane adhesive or solvent-free construction adhesive.
- The attached pad must be removed.

13) Installation Instructions

STARTING YOUR INSTALLATION

• Work from several open boxes of flooring and "dry lay" the floor before permanently laying the floor. This will allow you to select the varying grains & colors and to arrange them in a harmonious pattern. Remember, it is the installers' responsibility to determine the expectations of what the finished floor will look like with the end user first and then to cull out pieces that do not meet those expectations.

• Begin installation next to an outside wall. This is usually the straightest and best reference for establishing a straight working line. Establish this line by measuring an equal distance from the wall at both ends and snapping a chalk line. The distance you measure from the wall should be the width of a plank. You may need to scribe cut the first row of planks to match the wall in order to make a straight working line if the wall is out of straight.

• You may want to position a few rows before starting installation to confirm your layout decision and working line. When laying flooring, stagger end joints from row to row by at least 12". When cutting the last plank in a row to fit, you can use the cut-off end to begin the next row. If cut-off end is 12" in length or less, discard it and instead cut a new plank at a random length and use it to start the next row. Always begin each row from the same side

of the room. When near a wall, you can use a pry bar to pry close the side and end joints.

INSTALLATION INSTRUCTIONS

Inspection: Prior to installation, inspect planks in daylight for visible faults/damage. Check if sub-floor/site conditions comply with the specifications described in these instructions. If you are not satisfied do not install, and contact your supplier. **Before laying:** Measure the room at right angle to the direction of the planks. For best visual effect, planks in the final row should be at least 2 inches wide (half width of plank minimum). For this purpose, planks in the first row can be cut to smaller size. Shuffle planks in order to obtain a pleasant blend of shades. Lay planks preferably following the direction of the main source of light. We recommend laying on wooden floors crossway to the existing floorboard. Planks must not be nailed or screwed to the sub-floor. Base boards and molding must not be fixed in a way which restricts the movement of the floor. *Do not restrict movement of the floor by placing heavy objects like kitchen islands or cabinets onto the flooring.

INSTALLING THE FIRST ROW

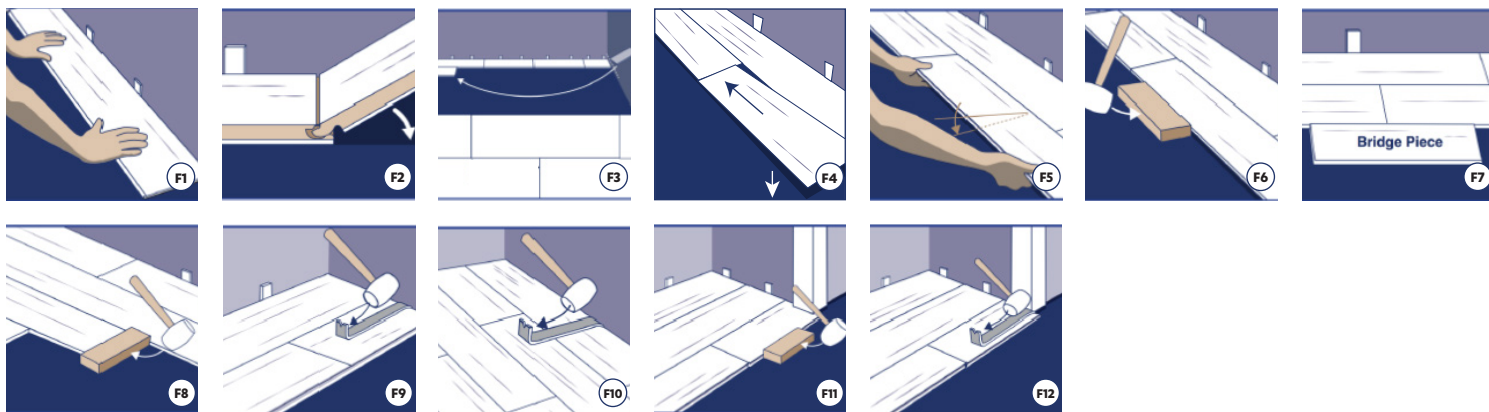
1. Adjust row so end cut is not less than 12".
2. Use spacers to allow 1/4" expansion gap between the planks and the walls, or stationary interior room objects, so there is room for normal expansion and movement.
3. Begin installation working from left to right. Insert spacers at ends and lay material so tongue will be facing the wall. (F1)
4. Lock short end of plank by inserting tongue into groove at an angle and drop in place. Continue to end of first row. (F2)
5. Use leftover plank from first row as starter for second row. There must be at least 12in between plank end joints on adjacent rows. (F3)
6. Lock short edge of plank by inserting tongue into groove at an angle and drop in place. Slide plank toward end of previously installed row until the tongue just touches the groove. Lift plank and adjacent plank(s) to engage the long-end locking system. (F4, F5)
7. **IMPORTANT!** Use hammer and tapping block to lightly tap long & short edge of plank to ensure a tight fit. **ANY GAPPING CAN COMPROMISE THE LOCKING SYSTEM!** (F6)
8. Attach a scrap piece of floor to bridge the gap between ends of planks. (F7)
9. Lightly tap end of plank with hammer and tapping block to lock ends of planks together. Remove bridge and continue towards wall until installing the final plank in the row. **BE SURE TO TAP ON EDGE OF VINYL SO AS NOT TO DAMAGE LOCKING PROFILE.** (F8)
10. Use hammer and pull bar to lock final piece in row. Insert spacer at end of row. Continue installation to final row. (F9)
11. Use hammer and pull bar to lock long edges of planks on final row (F10)

INSTALLING UNDER A DOOR JAMB

1. Undercut space under door jamb to allow plank to slide freely. Tap long edge with hammer and tapping block to lock long edge. (F11)
2. Use hammer and pull bar to lock short end of plank. (F12)

COMPLETION

1. 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 sub-floor.
2. For wet areas such as bathrooms caulk the perimeter of the floor with a flexible silicone caulk.
3. Protect the finished flooring from exposure to direct sunlight to reduce fading and thermal expansion.



14) Post Installation

Floor Protection:

- If other trades are working in the installation area, protect flooring with an approved breathable floor protection material such as a builder board or reinforced 60lb Kraft paper.
- Always use chair pads under rolling caster chairs and chair leg protectors, minimum of 1-1/2" diameter, under furniture legs.

15) Maintenance

Initial Maintenance

Always use a neutral pH cleaner, such as WF Taylor Fresh Floors.
Allow flooring to dry completely prior to foot traffic.

Daily & Weekly Maintenance

Sweep, dust mop or vacuum the floor as needed to remove loose dirt and grit. Do not use a vacuum with bristles or a beater bar.
Clean liquid spills immediately.
Damp mop (do not flood floor) as needed

Preventative Maintenance

Chair pads are required under roller castor chairs.
Furniture leg protectors, minimum 1.5" diameter, are required under all furniture legs.
Use protective boards when sliding heavy furniture across flooring.
Never apply rubber mats directly on top of vinyl flooring.
Place walk off mats outside entry doors to prevent dirt and sand from entering into the installation.
Protect flooring from direct sunlight with window and glass door coverings to prevent fading.
Any additional floor finishes are not required and not approved. The application of any additional floor finishes without written consent from PacMat Pure Flooring will void all warranties.

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