



This document supersedes all printed and electronic Installation, Care and Warranty information previously distributed for Palmetto Road WPC.

PALMETTO ROAD FLOORING

WPC Extruded Rigid Core

Installation Guide

PLEASE READ ALL INSTALLATION INSTRUCTIONS CAREFULLY BEFORE YOU BEGIN THE INSTALLATION. IMPROPER INSTALLATION WILL VOID WARRANTY.

Before installation, always check the flooring planks for defects such as chips, color or sheen differences under well-lit conditions. Also check that the click channel is clean and free of debris. Always work out of multiple boxes to mix products to achieve proper pattern repeat and color appearance. Color variations between flooring, samples, and replacement material are expected and is not a product defect.

If the appearance of a board is questionable for either dimensions or appearance, the installer should not install this piece. A replacement carton can be obtained through your dealer in a reasonable time. Once a plank is installed, it is considered acceptable to the homeowner/installer. The retailer where the flooring was purchased should be contacted to address product issues. Continuing to install the product means that the installer accepted the visually suspect material for installation so the claim will be denied.

NOTE: Palmetto Road Flooring WPC can be installed above, on and below grade. It is installed as a floating floor only.

Walls, subfloors, and floors installed in buildings and houses move. A minimum of 3/8" gap for expansion is recommended between the installed floor and any adjacent perimeter wall, vertical structure, or wood-based floor (laminated or hardwood).

INSTALLATION

SUBFLOOR PREPARATION

Palmetto Road Flooring WPC is a waterproof product. Moisture will not damage the product. When installed, it does not produce a moisture barrier, nor does it protect the walls or structure of the home from moisture.

Installing a moisture barrier in a crawl space or under the WPC over a concrete floor is recommended. Over a concrete subfloor, we recommend either a "roll-out" or "roll-on" moisture barrier be installed over a below or on-grade concrete subfloor where there is a concern about water or hydrostatic pressure issues. An example of a "roll-out" moisture barrier would be a 6-mil poly film with water-resistant taped seams that are 6" to 8" overlap. An example of a "roll-on" moisture barrier would be a sealant applied to the

surface of the concrete slab to mitigate moisture and moisture pressure issues in the slab. Please follow the manufacturer's instructions for roll-on moisture barrier installation.

Please note that 3DOPHWWR5RDG Flooring does not accept claims related to damage or failure of the floor caused by excessive moisture, alkali and/or vapor/moisture hydrostatic pressure. The final responsibility for determining if the concrete subfloor is dry enough to accept the flooring installation lies with the installation company or floor covering installer. Do not install the new flooring over a concrete subfloor with high moisture, alkali or vapor/moisture hydrostatic pressure conditions if it has not been remediated. Please see below the Subfloor Requirements section for moisture limits to protect the home from moisture damage.

JOBSITE PREPARATION BEFORE INSTALLATION

The responsibility for proper subfloor preparation before flooring installation lies with the local flooring installer or contractor. Every plank and/or tile must be inspected prior to installation for color variation, finish condition, sheen variation, and quality. This inspection should be conducted with proper lighting available. Any boards that are not acceptable should not be installed. Contact your dealer immediately to obtain replacement boards. 3DOPHWWR5RDG Flooring is not responsible for the installation of flooring with obvious visual defects.

Crawl spaces – For the protection of the home, when installing a moisture barrier in a crawl space, minimum crawl spaces of 18" are required from the ground to the underside of the joists. A vapor barrier of 6 mil thick polyethylene film with 6" sealed lap joints should be used. Moisture resistant tape should be used as the vapor barrier sealant at the lap joints. Venting for the crawl space should be at least 1.5% of the crawl space square footage. Vents should be located for cross-ventilation of the crawl space. Local regulations should always prevail.

Before floor installation, the room conditions in the installation area (temperature and moisture) should be at normal year-round conditions for at least one week prior to installation. During and after flooring installation, the installed area should be kept at normal use room conditions. Acclimation is not required before installation unless the product has been stored at high temperatures just prior to installation. Recommended installation room conditions are temperatures between 45 to 100 degrees F. Never install below 45 degrees or above 100 degrees F. Normal room temperatures are use temperatures between 65 degrees and 85 degrees F.

REMOVING OLD ADHESIVES

Asphaltic "cut-back" adhesives can stain WPC flooring. These must be 100% removed, encapsulated or covered with plywood underlayment. Some previously manufactured cutback adhesives contained asbestos fibers, which are not readily identifiable. Do not use power removal devices that can create dust. The use of solvent-based adhesive removers is never recommended. NOTE: If d-limonene (citrus based) cleaners/removers are used (Orange All), subfloor must be thoroughly rinsed. If complete removal of old adhesives or covering them with plywood is not possible, the use of a Portland Based Leveling or Patching Compound is acceptable. Please follow the manufacturer's instructions carefully.

For "Recommended Work Practices for the Removal of Resilient Floor Coverings" write to the Resilient Floor Covering Institute, 966 Hungerford Dr., Suite12-B, Rockville, MD 20850.

SUBFLOOR REQUIREMENTS

All subfloors must be dry, structurally sound to support the floor and to protect the home from moisture and not flex vertically, free of debris and foreign matter, and flat to 3/16" in a 10-foot radius. The substrate must be level and not slope more than 1 inch per 6 feet in any direction.

For concrete subfloors, the subfloor should be firm, flat, permanently dry, and clean. This includes both old and new concrete floors. New concrete slabs must be cured in well-ventilated conditions for at least 60 days minimum before installing the floor. Concrete that is on or below grade should have a minimum 6mil poly film vapor/moisture barrier beneath the slab between the concrete and ground. Maximum moisture level per ASTM F1869 Calcium Chloride test method is 8lbs. per 1000 cft in 24 hours. The

maximum level of relative humidity per ASTM 2170 test method is 80%. Electronic meter testing is not acceptable as a replacement for the use of these two tests. The pH of the concrete slab should be determined using ASTM F710. The pH test results should measure between 7-10.

These moisture and alkali levels must be met before it is acceptable to install the flooring. It is the responsibility of the flooring installer or contractor to meet these requirements. We recommend that a vapor/moisture barrier be installed over below and on-grade concrete subfloors. Palmetto Road Flooring does not accept claims related to damage or failure of the floor caused by excessive moisture, alkali and/or liquid or vapor hydrostatic pressure. Do not install the new flooring over a concrete subfloor with high moisture, alkali or hydrostatic pressure conditions if it has not been mitigated or remediated. If moisture mitigation or remediation techniques are required, the choice of technique to mitigate (concrete slab sealing, installation of poly film under the flooring, etc) is the sole responsibility of the flooring installer or contractor. Follow the moisture barrier product manufacturer's installation instructions.

For plywood, OSB, and particleboard wooden subfloors to be acceptable for flooring installation, they must be dry (maximum 12% moisture content) and properly secured to accept a top floor. All wooden subfloors must have no movement when walked on before the flooring is installed. Subfloor vertical flexing may cause squeaking in both the subfloor and the installed floor. Check the installed floor before leaving the job. If squeaking is found, remove that flooring section and fix the issue before completing the installation. Please note that sounds emanating from between the subfloor and moisture barrier are defined as subfloor issues and are not covered by the product warranty. The subfloor must be secured every 6" along joists with nails or screws to avoid deflection or excessive vertical movement of the subfloor. Our warranties do not cover any flooring issues caused by inadequate substructures or moisture barriers. The subfloor must be level and flat per the specification and tolerance stated. High spots must be ground down and low spots must be filled with a Portland cement leveling compound.

Please note that Palmetto Road Flooring WPC is not approved for installation over any type of carpet.

NOTE: WPC should not be installed over any type of floating floor. All subfloors that are not concrete must be firmly bonded.

NOTE: Never install WPC over a below grade VCT (vinyl composition tile).

Tiles including ceramic, resilient, and sheet vinyl must be well bonded to the subfloor, must be level and flat, and must be clean. Existing vinyl floors should not be sanded as they may contain asbestos.

INSTALLATION TOOLS

Safety Glasses

Broom/Vacuum

Black number one WPC tapping block.

White number two WPC tapping block.

¼" Spacers

Pull bar.

Saw

Utility knife

Pencil

Tape measure

Ruler

Chalk String

ACCEPTABLE SUBFLOOR TYPES:

CDX Underlayment Grade Plywood (minimum of 5/8" thickness)

Underlayment Grade Particleboard, 40lb density (only for floating installation)

OSB (minimum ¾", 23/32" thickness)

Concrete slab - smooth, flat, and dry year-round on all grades
Ceramic Tile – one layer well Bonded
Resilient Tile – one layer well bonded, no pad or cushion attached (Not Below Grade)
Sheet Vinyl – one layer well bonded
Polymeric poured (seamless) floors

DO NOT INSTALL OVER

VCT installed on below grade concrete.
Existing resilient tile floors that are below grade
Existing cushion-backed vinyl flooring
Carpet
Rooms with sloping floors or floor drains
Stairs with sloping steps
Wood underlayments, parquet or hardwood flooring that have been installed directly over concrete.
Do not install over any floating floor.
Do not install over additional padding.

Note: There are 2 different types of tapping blocks to be used with our WPC planks. Tapping block (black in color) number one is to be used with our standard 4 foot length planks. Tapping block number 2 (white in color) is to be used with our WPC XL and Long Board. XL and long board products have a specially designed larger Unilin lock and require a larger tapping block for proper installation.

NOTE: The tapping block was specially designed for installing this WPC product with a licensed Unilin angle-angle Uniclic joint. The tapping block must be used on every panel to ensure the positive locking of the joint and to validate the product warranty.

BASIC INSTALLATION OF WPC

All trades must finish, and the installation area must be cleared and cleaned of debris that can damage the Product before installing the flooring. While WPC is dimensionally stable, buildings, walls, and existing hardwood and laminate floors will expand and contract. Because of this, we recommend for all installations that an expansion gap of at least 3/8" be left for expansion between the flooring and any vertical surface, an adjacent perimeter wall or wood-based floor (laminate or hardwood).

As stated earlier, always work out of multiple boxes to mix products to achieve proper pattern repeat and color mix for the look of natural wood. A minimum of 3 boxes of products is recommended. Inspect each plank or tile in good light for visual defects. If they show visual faults or damage, do not install them. It is the responsibility of the installer to ensure that the appearance of the finished floor meets the consumer's expectations.

Palmetto Road Flooring WPC is an indoor product. It will not be warranted when installed in locations or conditions not recommended for this product.

INSTALLATION OF PALMETTO ROAD FLOORING WPC USING UNILIN ANGLEANGLE LOCKING SYSTEM

This locking system is designed to be installed utilizing the floating method. Always include the proper expansion space. Undercut all door jambs. Never fasten moldings or transition strips to the planks. When product is stored at the installation site, it should be stored in the room where it will be installed.

Plank Installation Method

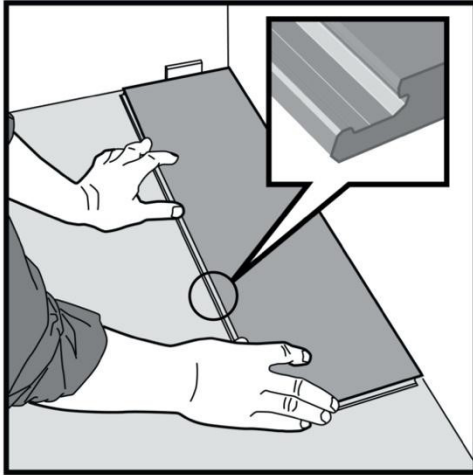


Fig 1. Prior to installation, measure the width of the room to decide if the first row should be cut length wise to equalize the widths of the first and last rows. See also fig 12. Turn the tongue side of the plank to face the wall. Maintain a gap of 5/16" (8mm) on the short side. Spacers can be used to make sure that the gaps are correct around the installed flooring. After 3 rows, adjust the long side so that the planks are 5/16" (8mm) from the wall. After 3 rows have been clicked together, reposition the flooring against the front wall keeping a gap of 5/16" (8 mm).

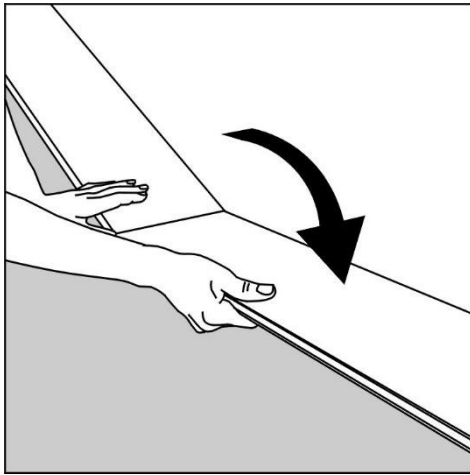


Fig 2. Hold the second plank short end tongue against the first plank short end groove at an angle to engage and press the short ends together. Lay the connected planks flat on the floor. Complete the first row by connecting more planks in the same manner.

final plank is twice the width of the

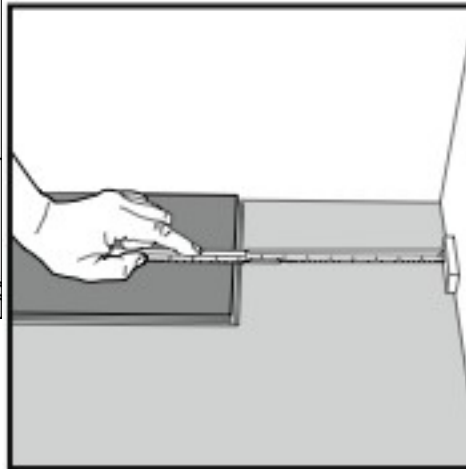


Fig 3. At the end of the first row, measure and cut the final plank to the correct length, leaving a 5/16" (8mm) gap between the plank and the wall for expansion. The recommended minimum length of the plank.

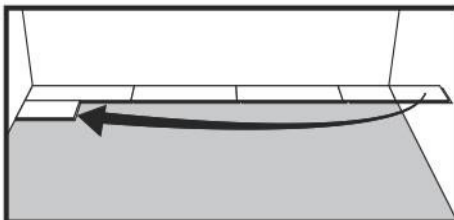


Fig 4. Add the first plank to the second row by positioning the remaining part of the first row's last plank as first plank of the second row. Keep the plank length a minimum of two times the plank width. Keep the same 5/16" (8mm) gap at the row ends against the wall.

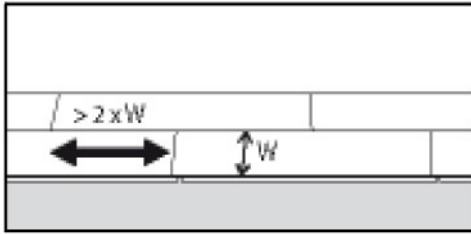


Fig 5. NOTE: The short ends of the planks in parallel rows must be staggered a minimum of two times the width of the plank. For example, if the plank is 7" wide, the length of the plank stagger needs to be a minimum of 14".

tongue at an angle against the first
Gently tapping the planks together
help engage the joint between the
forward and fold down at the same
the lock.

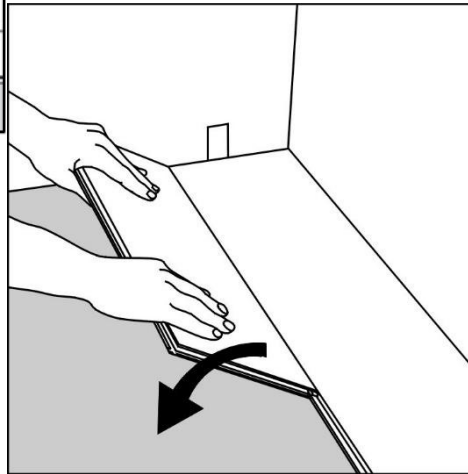


Fig 6. Place the second row plank row plank groove. while lifted may two planks. Press time to engage

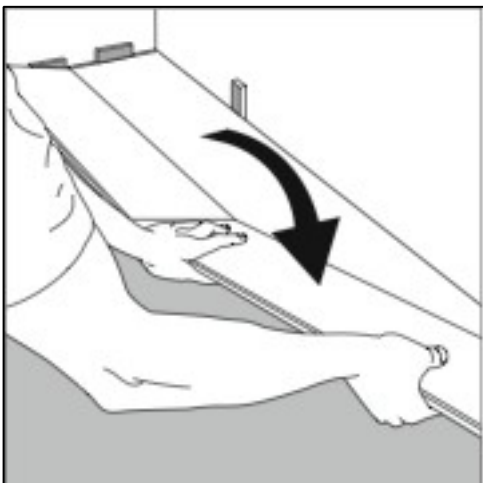


Fig 7. Second plank second row. Place the short end of the plank at an angle against the previous installed plank and fold down to engage the short ends. See Fig. 2 above.

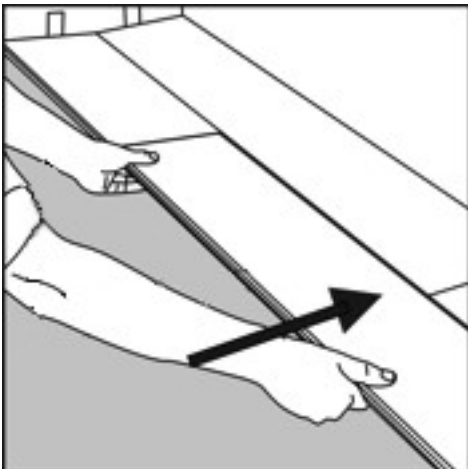


Fig 8. Lift the engaged planks up just over an inch, push them against the row in front to engage the long side. The use of a wedge with the suitable angle can be placed under the plank near the short side joint as support.

The planks can now be folded completely down to horizontal position and if a wedge is used it can be moved to the next short end joint.

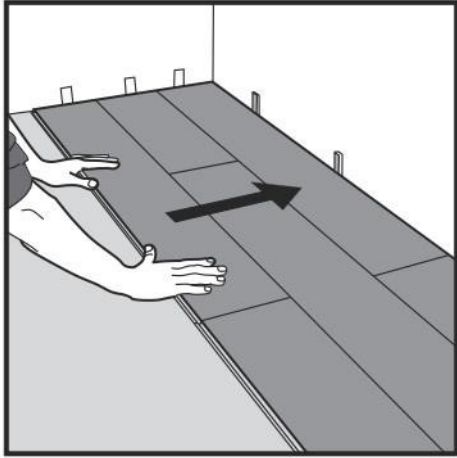


Fig 9. After 2-3 rows, adjust the distance to the front wall and side walls to keep the gaps at 5/16" (8mm). Install the remaining flooring. Spacers should be removed once the installation is completed.

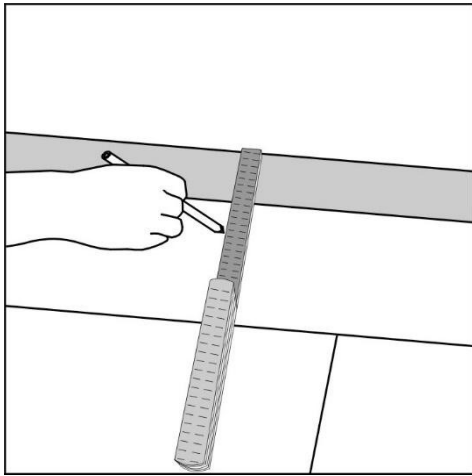


Fig 10. If the wall is uneven, the planks must be cut to match its contours. Mark the planks with the contour of the wall. Do not forget to leave a gap of 5/16" (8mm) to the wall. This procedure must also be used for the first row if necessary.

Horizontal installation – Last rows, Radiators and under Door Jams



Fig. 11

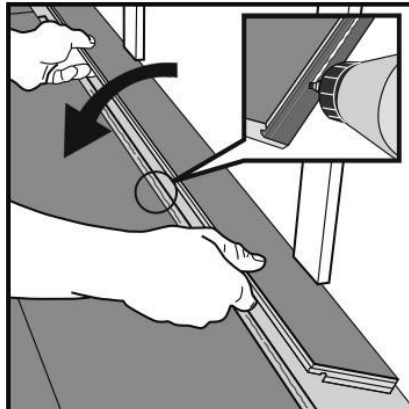


Fig. 12

When it is difficult to angle the plank under a door jam, around a radiator, or installing last rows, the above and below pictures show how to cut away the locking edge and still install the plank.

Cut off the locking element with a chisel, apply applicable glue on the adjusted strip and push the planks horizontally together. If necessary, place some spacers between the last board and the wall during glue drying. The method can also be applied to the short ends. Appropriate glues are cross-linked PVA glues, class D3.

Radiator pipes – cut outs.

Installation around radiator pipes:

Mark the center of the holes and drill the hole with a diameter about 5/8" (16 mm) larger than the pipe diameter (5/16" gap (8 mm)), cut as shown with a saw or with a sharp utility knife. Install the floor plank. If necessary, glue the cut piece into place.

Where the use of a caulk is needed, we recommend a 100% silicone caulk and do not approve the use of acrylic caulks. High quality silicone caulks remain flexible and will allow the installed floor to continue to float and move with temperature changes whereas acrylic caulks will harden over time and stop this from occurring.

Palmetto Road Flooring WPC is an attached pad product. The click side and end joints are designed to work with this specific pad. Additional pad under WPC will not be warranted unless it has been approved before installation by Palmetto Road Flooring.

REPAIRS

Palmetto Road Flooring WPC flooring is durable; however, planks can be damaged. If the damaged plank is near the perimeter of the room, the best technique is to carefully unlock the planks until the damaged plank is removed. Replace the damaged plank and reassemble the flooring. If the damaged plank is in the center of the room, then the following procedure should be followed:

1. Use 3M Blue Tape around the perimeter of the damaged plank to be replaced to protect the surrounding planks from damage.
2. Using a utility knife, make a cut completely through the center of the damaged plank the length of the plank.
3. Carefully remove the cut pieces of the damaged flooring and clean and vacuum the exposed area.
4. Use a utility knife to remove the tongue from the long and short side of the replacement plank.
5. Remove 1.5 inches of the groove on the long side of the plank from the tongue end using a utility knife.
6. Apply a small bead of an Ethyl Cyanoacrylate adhesive super glue to the groove of the planks in the floor.
7. Insert the replacement plank into the exposed area, locking the long-grooved side into the existing floor. The tongue end of the replacement plank will overlap the existing floor until the plank is completely inserted.
8. Use a scrap piece of the flooring as a tapping block to lightly tap the groove end into place. Use a utility blade to adjust the opposite end as you tap the end joint together.
9. Weight the plank down until the super glue is completely set.

FINISHING MOLDING



Reducer molding is used to finish flooring when the adjoining surface is lower than the WPC flooring or when flooring meets carpet. Position the U track 7mm leaving expansion gap of at least 3/8" from each edge of the. Screw, nail or glue down the track directly to the subfloor and then insert the reducing strip into the track.

T-molding is used to finish flooring and add expansion when two level surfaces meet in doorways. Install the same as above. Residential Installations do not require the use of T Moldings.

Commercial installations are recommended to install T-moldings in every doorway and if the maximum room run size is equal to or greater than 100 ft x 100 ft. Minimum of 3/4" of perimeter expansion space is recommended for large commercial rooms.

Landing molding is used to finish flooring on landings or stair edges. Moldings need to be glued and screwed down to the sub-floor for safety and stability. Color filling should be used to cover the counter sunk screws.

To finish the perimeter of the room, install quarter round molding using finishing nails. Quarter round molding is nailed directly into the baseboard.

RADIANT HEATED FLOORS

Floating floors can be installed over certain types of radiant heated floors.

WHEN INSTALLING OVER A RADIANT HEATED FLOOR:

1. A newly installed radiant heated floor must be operational for at least four (4) weeks prior to the installation with the temperature set between 65 to 85 degrees F to ensure that the subfloor has been dried.
2. Existing radiant heated floors should be set to a minimum temperature of 65°F (18.3°C) degrees F for a minimum of 4 days before, and 48 hours after the completion of the installation. This will ensure that the flooring will acclimate properly before the installation begins. Upon completion of the installation, gradually increase temperature in increments of 5° F per hour until desired temperature is achieved. Never exceed 85 degrees.
3. Wood subfloors should never exceed 10% moisture content as measured by a calibrated woodmoisture meter.
4. Concrete subfloors must be dry using the using the tests referenced above.
5. Ground floors using the radiant heating system should have a proper moisture barrier beneath it.
6. The recommended range of relative humidity is 35%-55% and the room temperature should be between 65-85 degrees F for the delivery of the flooring, acclimation, and installation.
7. The flooring must acclimate to the stated temperature range for at least 48 hours prior to installation in the room to be installed.
8. Keeping the temperature of the room constant will keep a stable environment for the flooring as well as the home.
9. The floor surface temperature must always stay below 85 degrees F.
10. At no time should the relative humidity in the room with the installed flooring fall below 30% during the life of the product.
11. **Electric Radiant Floors** consist of electric cables (or) mats of electrically conductive materials mounted on the subfloor below the floor covering. We recommend that the heating elements be separated from the flooring by a distance of at least ½ inch. Maximum operating subfloor temperature should never exceed 85°F. Subfloor levelers used to install electrical radiant floors should have a minimum of 3000 psi compressive strength. **Follow the electric radiant floor manufacturer's installation instructions.**

SUN ROOMS

Sunrooms or areas that may be isolated from the main living area of the home are recommended areas of use for Palmetto Road Flooring WPC if they are limited to 500 sf maximum.

If there is no heat in the wintertime and you wish to use the area, you must bring the room to normal room temperature (65-85 degrees F) before walking on the floor.

Exposure of the floor to prolonged periods of sunlight is not recommended. Drapes and/or blinds are recommended for use during peak sunlight periods. Prolonged direct sunlight exposure can result in discoloration, and excessive temperatures may cause tile/plank expansion or delamination.

During installation, please leave the ¼” expansion at all walls and any vertical surface in this room.

CABINETS

Cabinets may be installed on top of WPC if they are wall mounted.

Center Islands may be installed on top of WPC if they are free standing.

If cabinets or center Islands are being fastened to the floor a 3/4” expansion hole must be used where the bolts enter through the WPC into the subfloor.

POOL TABLES

Pool tables in a residential environment may be installed on WPC as a fully floating floor. In a residence, there is a limit of one pool table per room.