I. GENERAL INFORMATION
These installation guidelines apply to the Floorte™ Fold n Tap™ product only. All instructions and recommendations should be followed for a satisfactory installation.

- The floor covering should be stored and installed in a climate controlled location with an average temperature between 55° - 85°F - 13°-29°C.
- Failure to follow these guidelines may result in an installation failure. Floorte™ is an interior product and must be installed in a temperature- controlled environment, maintained between 55 and 85 degrees F - 13°-29°C.
- Avoid exposure to direct sunlight for prolonged periods, doing so may result in discoloration. During peak sunlight hours, the use of the drapes or blinds is recommended.
- Regardless of new construction or remodeling projects, keep flooring stored in rooms that are not being worked in and only install product after all other trades have completed work that could damage the flooring.
- To minimize shade variation, mix and install planks from several cartons.
- Inspect all planks for damage before installing. If you have any concerns about the product fit or finish, call Shaw Information Services at 1-800-441-7429. Claims will not be accepted for flooring that has been cut to size and/or installed.
- All subfloor patching must be done with a Portland based compound and allowed to dry completely prior to installing flooring.
- Installation – Floating or Glue down – installed on, above, or below grade.

Tools: Tape Measure, Utility Knife, Jigsaw, Tapping Block or Rubber Mallet, Pull Bar, ¼” Spacers, T-Square, Safety Glasses, Broom or Vacuum and, if necessary, tools for subfloor repair.

II. SUBFLOOR INFORMATION
All subfloors must be clean, flat, dry and structurally sound. The correct preparation of the subfloor is a major part of a successful installation. Subfloor must be flat – 3/16” in 10’ or 1/8” in 6’.

Underlayments – If floating installation – Approved underlayemnts - Bravo and Selitac. Do not use non recommended underlayments.

CAUTION: Some types of nails, such as common steel nails, may cause discoloration of the vinyl floor covering. Recommendations for attaching underlayment panels are not included. Solvent based construction adhesives are known to stain vinyl floor coverings. All responsibility for discoloration problems caused by the use of the above mentioned products is not the responsibility of Shaw, but rests with the installer and the underlayment panel manufacture

INSTALLATION GUIDELINES FOR FLOORTE™
FOLD N TAP™ VINYL PLANK

A. Wood Subfloors
1. Do not install material over wood subfloors that lay directly on concrete or over dimensional lumber or plywood used over concrete.
2. Do not apply sheet plastic over wood subfloors.
3. Basements and crawl spaces must be dry. Use of a 6 mil black polyethylene is required to cover 100% of the crawl space earth. Crawl space clearance from ground to underside of joist is to be no less than 18” and perimeter vent spacing should be equal to 1.5% of the total square footage of the crawl space area to provide cross ventilation. Where necessary, local regulations prevail.
4. All other subfloors - Plywood, OSB, particleboard, chipboard, wafer board, etc. must be structurally sound and must be installed following their manufacturer’s recommendations. Local building codes may only establish minimum requirements of the flooring system and may not provide adequate rigidity and support for proper installation and performance.
5. Floorte™ resilient flooring is not recommended directly over fire-retardant treated plywood or preservative treated plywood. An additional layer of APA rated 1/4” thick underlayment should be installed.

B. Concrete Subfloors
1. Floors shall be smooth, permanently dry, clean, and free all foreign material such as dust, wax, solvents, paint, grease, oils, and old adhesive residue. The surface must be hard and dense, and free from powder or flaking.
2. Floating Installation - New concrete slabs must be dry. Maximum moisture level per CaCl test method is 8 lbs. per 1000 in 24 hr. Maximum level for ASTM 2170 In-situ Relative humidity test method - 85%.
3. Do no install over concrete with a history of high moisture or hydrostatic conditions.
4. Ph level of concrete should be between 5-9
5. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

Radiant Heat: Hydronic only - Radiant heat components must have a minimum of 1/2” separation from the product. This is the only type of radiant heat system that is approved. Radiant heat system must be on and operational for at least 2 weeks prior to installation to reduce residual moisture within the concrete. Three days prior to installation lower the temperature to 65 degrees, after installation gradually increase the temperature in increments of 5°F to avoid overheating. Maximum operating temperature should never exceed 85°F. Use of an in-floor temperature sensor is recommended to avoid overheating.
! WARNING! DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVES OR OTHER ADHESIVES.

These products may contain either asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the 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. For current information go to www.rfci.com

C. Existing Floor Coverings

- Floorte™ flooring can be installed over most existing hard-surface floor coverings, provided that the existing floor surface is clean, flat dry and structurally sound.
- Existing sheet vinyl floors should not be heavily cushioned and not exceed more than one layer in thickness. Soft underlayment and soft substrates will diminish the products inherent strength in resisting indentations.
- Installation is NOT allowed over any type of carpet.
- Never use solvents or citrus adhesive removers to remove old adhesive residue. Solvent residue left in and on the subfloor may affect the new floor covering.

III. INSTALLATION

Floorte™ plank flooring is designed to be installed utilizing the floating method. Never secure the planks to the subfloor. Do not install cabinets or fixed objects on top of the flooring. Proper expansion space (1/4") is required. Undercut all door jambs. Do not fasten wall moldings and or transition strips to the planks.

Glue Down: On and above grade only. Floorte™ is approved for glue down installation over approved wood and concrete substrates. Recommended adhesive- Shaw 200 or Kwikflash adhesive. Use a 1/16”x1/16”x 1/16” sq. notch trowel. Follow adhesive label instructions.

Moisture testing and limits for glue down - maximum

<table>
<thead>
<tr>
<th>ASTM F-1869</th>
<th>5 lbs. or less per CaCl test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM F-2170</td>
<td>85% RH or less</td>
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</tbody>
</table>

The PH level should be between 5-9

1. Before you start with the installation, it is important to determine the layout of the flooring. Proper planning and layout will prevent having narrow plank widths at wall junctures or very short length pieces at the end of rows.
2. As with all plank products, install the planks parallel to the longest exterior wall.
3. Determine if the starter row will need to be cut. If the first row of planks does not need to be trimmed in width, it will be necessary to cut off the unsupported tongue so that a clean, solid edge shows towards the wall.
4. Installation of the product must start from the left side of the room, working to the right when working in front of the planks or facing the starting wall. Use spacers along the walls to maintain proper expansion space (1/4") and align the first plank.
5. Install the second plank in the row by aligning and dropping the end tongue over the end groove of the first plank. Apply light pressure to join the two planks together.
6. If needed use a rubber mallet to fully engage the short side of the plank by lightly tapping the plank to engage and sit flush with the adjacent plank. Maintain an expansion gap of approximately 1/4” from the wall. Repeat this process to complete the first row.
7. Start the second row by cutting a plank to the desired length. Keep in mind that the plank must not be shorter than 6” (15cm) to achieve the best appearance.
8. Install the first plank in the second row by inserting the long side tongue into the groove of the plank in the first row. This is best done with a low angle of the plank. Maintain light pressure into the side seam as you rotate the plank to the subfloor. Repeat the process with additional planks to complete each row. Very little force is required to seat the tongue into the groove. You should feel the tongue lock into the groove.
9. It is critical to keep the first two rows straight and square, as they are the “foundation” for the rest of the installation. Check for squaresness and straightness often.
10. Continue installing planks and make sure to achieve a random appearance with end pieces of minimum 6” - 15cm. Check that all planks are fully engaged; if a slight gapping is found, the gap can be tapped together by using a tapping block and a scrap of flooring to cover the tapping block in order to avoid damages on the planks.
11. When fitting under door casings, if necessary, a flat pull bar may be used to assist in locking the planks.
12. When fitting around obstacles or into irregular spaces, planks 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.
13. 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.
14. For wet areas such as bathrooms caulk the perimeter of the floor with a silicone caulk.
15. Protect the finished flooring from exposure to direct sunlight.

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