

BASIC INFORMATION:

- QuietLok® multilayer modular products are intended for interior commercial use only and are suitable for above-grade, on-grade and below-grade applications. However, QuietLok® should not be installed in locations where the substrate beneath the building structure is exposed to the elements.
- QuietLok® multilayer modular products are to be installed as a floating floor system and must be free to move as a whole sheet in response to changes in temperature. It must not be glued, nailed, or fastened to the substrate, walls or fixed to any part of the building structure. Install permanent fixtures such as walls, partitions, shelving, cabinets, displays, counters, tracks for transition profiles and similar items first, then fit QuietLok® around them, leaving a space for expansion and contraction. Fill expansion spaces around potentially wet areas with premium waterproof 100% silicone sealant. Always remove standing water, pet urine, and other liquids promptly.
- Direct sunlight may cause QuietLok® multilayer modular products to fade or to expand, causing the floor to buckle or separate. Protect QuietLok® from direct sunlight using window treatments or UV tinting on windows. QuietLok® multilayer modular products are not recommended for use in sun rooms.
- QuietLok® multilayer modular flooring is a waterproof floating floor, but it should not be used to seal an existing floor from moisture. It cannot inhibit the growth of mold or prevent structural problems associated with, or caused by flooding, excessive moisture, alkalies in the substrate, or conditions arising from hydrostatic pressure. Regardless of location, always remove standing water, urine and other liquids promptly. Jobsite moisture issues must be addressed and corrected prior to installation.

EVALUATE THE JOB SITE:

Exterior

Damage caused by water and high humidity should be addressed prior to installing QuietLok® multilayer modular flooring.

- Examine the driveway, parking areas, and landscaping surrounding the building. Be sure that they slope and direct water away from the foundation.
- Inspect gutters, down spouts and drains for blockage. Remove clogs caused by leaves, dirt and debris, allowing runoff to flow freely away from the foundation.
- Check crawl spaces for cross-ventilation air vents equaling at least 1.5% per 100 square feet (9.3 square meters) of floor space. Crawl spaces should measure a minimum of 18 inches (46.0 cm) high and should be insulated according to the latest building code requirements. The ground should be covered with a minimum 6-mil vapor barrier.

Interior

Jobsite moisture issues must be addressed and corrected prior to installation.

- Examine the installation site for leaky plumbing, including leaks from water heaters, wet bars, soda fountains, or any other water-bearing fixtures or pipes.
- Inspect substrates for levelness. They must be clean, smooth, dry, structurally sound, and flat within $\frac{3}{16}$ " (5.0mm) within a 10-foot (3.0 meters) radius. The substrate should not slope more than 1 inch (25.0mm) per 6 feet (1.8 meters) in any direction.
- QuietLok® requires testing of concrete substrates for moisture and pH before installing QuietLok® multilayer modular flooring. Test results should not exceed 85% relative humidity (RH). The Calcium Chloride Test for moisture should be no more than 8 lbs per one-thousand square feet in 24 hours MVER (Moisture Vapor Emission Rating), and pH tests for alkalinity levels should register between 7 and 9.
- QuietLok® requires testing of wood substrates for moisture. Obvious signs of moisture issues include warping, peaking, degradation of the integrity of the substrate, rusted fasteners, and rusted floor registers. Even if obvious signs are not present, the material should be tested using a professional moisture meter; moisture levels should not exceed 14%.

ATTENTION: Mold and mildew grow only in the presence of moisture. Jobsite moisture issues must be addressed and corrected prior to installation. Please visit www.epa.gov/mold for information about safely preventing and removing mold, mildew and other biological pollutants.

IDENTIFY YOUR SUBSTRATE:

Approved Substrates

- Concrete
 - QuietLok® multilayer modular flooring is waterproof, but jobsite moisture issues must be corrected before installation begins to prevent serious damage to the substrate and surrounding structure, and to discourage the growth of mold and mildew. Concrete substrates should be prepared in accordance to the most current version of ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring). Concrete substrates must be clean, smooth, dry, structurally sound, and flat within 3/16" (5.0mm) within a 10-foot (3.0 meter) radius. The substrate should not slope more than 1 inch (25.0mm) per 6 feet (1.8 meters) in any direction. Moisture and alkalinity tests should be performed on all concrete substrates regardless of grade level or age of slab. Perform either ASTM F2170 In-Situ Relative Humidity (RH) test or ASTM F1869 Calcium Chloride Moisture Test (MVER: Moisture Vapor Emission Rating). Perform pH test per ASTM F710 to determine alkalinity of the slab. RH Test results should not exceed 85% relative humidity. The Calcium Chloride Test for moisture should measure no more than 8lbs per one-thousand square feet in 24 hours MVER, and pH tests for alkalinity levels should register between 7 and 9. Electronic meter testing is not considered a replacement for a Calcium Chloride Test or Relative Humidity Test. All moisture tests should be conducted prior to installation to ensure that moisture is at recommended levels. Follow current ASTM F710 guidelines. QuietLok® highly recommends that substrate moisture and pH testing are conducted by an ICRI (International Concrete Repair Institute) tier 2 certified technician.
- Radiant Heat
 - Radiant heating systems must be cast 1/2-inch (12.7mm) below the surface of the concrete slab, and should be operating at least 2 weeks before installing QuietLok® multilayer modular flooring. Set the temperature of the radiant heating system to 68°F (20°C) 48 hours before, during, and 72 hours after installation. The temperature of the radiant heat floor may be increased gradually 72 hours after installation, but the surface temperature should never exceed 85°F (29°C). Contact the manufacturer of your radiant heating system for further recommendations.

IDENTIFY YOUR SUBSTRATE (CONT):

Approved Substrates (Cont)

- Plywood, OSB, Particleboard, and Chipboard
 - Wood substrates must be A.P.A. approved with a minimum grade of “BB” or “CC”. They must be clean, smooth, dry, structurally sound, and flat within 3/16” (5.0mm) within a 10-foot (3.0 meters) radius. The substrate should not slope more than 1 inch (25.0mm) per 6 feet (1.8 meters) in any direction. QuietLok® recommends performing moisture tests prior to installation to prevent serious damage to the substrate and surrounding structure, and to discourage the growth of mold and mildew. Moisture readings should never exceed 14% for plywood, OSB, particleboard and chipboard substrates. If moisture readings exceed 14%, it is advisable to correct moisture issues at the jobsite before installing.
- Tile, Terrazzo, Asbestos Tile, Resilient Tile, Non-cushion Sheet Vinyl, and Metal
 - Existing floors must be firmly attached to the structural floor. In order to prevent vertical deflection (movement) and potential damage to the integrity of the QuietLok® multilayer modular flooring, all substrates must be sturdy, sound, and flat within 3/16” (5.0mm) within a 10-foot (3.0 meters) radius. The substrate should not slope more than 1 inch (25.0mm) per 6 feet (1.8 meters) in any direction. Fill in grout lines on ceramic tiles, terrazzo, quarry tiles and similar floors with cementitious patching compound.

Non-Approved Substrates

Remove the floors noted below and remove old adhesive before installing QuietLok® multilayer modular flooring. Encapsulate adhesive and cutback residue.

- Carpeting/Carpet Pad, Cushion Back Sheet Vinyl, Engineered Hardwood Over Concrete, Floating Floors, Hardwood Over Concrete, Parquet Over Concrete, and Sleeper Substrates.

NOTE: Various Federal, State and Local government agencies have established regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations. Do not sand, dry sweep, dry scrape, drill, saw, bead blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt “cut-back” adhesive, or other adhesive. These products may contain 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 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. The RFCI’s Recommended Work Practices for Removal of Resilient Floor Covering are a defined set of instructions addressed to the task of removing all resilient floor covering structures. For further information, visit the Resilient Floor Covering Institute website at www.rfci.com

PREPARE THE JOB SITE:

Careful preparation is the key to outstanding results. All Trades Must Finish Before Installing QuietLok® multilayer modular flooring.

- Install Permanent Exterior Doors and Windows.
- Turn on HVAC at Least One Week Prior to Installation - Room temperature should be maintained between 50°F - 100°F (10°C - 38°C) at least 48 hours prior to installation.
- Allow all other Trades to Finish.
- Perform Recommended Moisture and pH Tests - See the "Identify Your Substrate" section of this manual for further information about suggested tests.
- Qualify and Prepare the Substrate - All substrates must meet all minimum standard building codes. Fill large cracks and voids with cementitious patching compound. In order to prevent vertical deflection (movement) and potential damage to the integrity of the QuietLok® flooring, all substrates must be clean, smooth, dry, structurally sound, and flat within 3/16" (5.0mm) within a 10-foot (3.0 meters) radius. The substrate should not slope more than 1 inch (25.0mm) per 6 feet (1.8 meters) in any direction.
- Remove Wall Base Moldings - Remove wall base moldings prior to installation. Leave appropriate expansion space between the edge of the flooring and walls or vertical surfaces.
- Fill Grout Lines - Fill grout joints when installing over existing ceramic tile or stone floors to obtain a smooth surface. Follow Substrate Flatness Tolerances per chart.
- Remove Non-approved Substrates.
- Remove or Encapsulate Old Adhesive - Old adhesives must be scraped up and left so that no ridges or puddles are evident and all that remains is a thin, smooth film. Then, encapsulate residue.
- Undercut Wood Door Casings - Wood door casings should be undercut so that QuietLok® flooring will fit neatly beneath them, concealing the expansion space.
- Cut Around Metal Door Casings - Do not cut metal door casings. Cut QuietLok® flooring around them, leaving the appropriate expansion space. After installation, fill the space with a coordinating premium waterproof 100% silicone sealant.
- Clean Up the Job Site - Remove all debris, sweep and vacuum the substrate. Smooth, non-porous floors should be damp-mopped after vacuuming and allowed to dry thoroughly before installing QuietLok® multilayer modular flooring. All dust must be removed prior to installation.

CHECK RUN NUMBERS AND MANUFACTURE DATE:

- Locate the run number on the short end of each carton and verify that all of the material for your job is from the same run. Minor shade variations within the same run number contribute to the natural look of QuietLok® flooring. To avoid noticeable shade variations, do not install material from different runs across large expanses. To determine manufacture date, locate the run number on the short end of the carton. It is the eight-digit number separated by decimal points. It's Day.Month.Year (ex. 29.10.2018).

INSTALLATION CONSIDERATIONS:

Subfloor Flatness Tolerances	3/6" in a 10' radius. Slope no more than 1" in 6'.
Vapor Barrier (6mil polyfilm)	Not Required
Is Underlayment Required	No - product includes an integral pre-attached pad.
Acclimation Requirements	48 Hours
Transition Requirements (T-mold) for Large Spaces	Required in rooms greater than 100' in any direction
Transition Requirements (T-mold) Doorways/ Thresholds	Required
Installation Over Existing Ceramic Tile Floor	Filling Grout Lines Required, Follow Substrate Flatness Tolerances
Glue Down Installation	Not Required/Not Recommended
Subfloor RH/MVER Recommendations	85% RH/8 lbs MVER
Radiant Heat	Approved – Substrate surface temperature not to exceed 85° F
3-Season/Non-Climate Controlled Environments	Not Recommended
Perimeter Expansion Requirements	3/8" around perimeter walls & heavy fixed objects such as cabinetry
Allowable Interior Environmental Conditions	50°F – 100°F / 40% – 60% RH
Definition of Waterproof	Structural integrity of flooring will not degrade due to contact with moisture/water

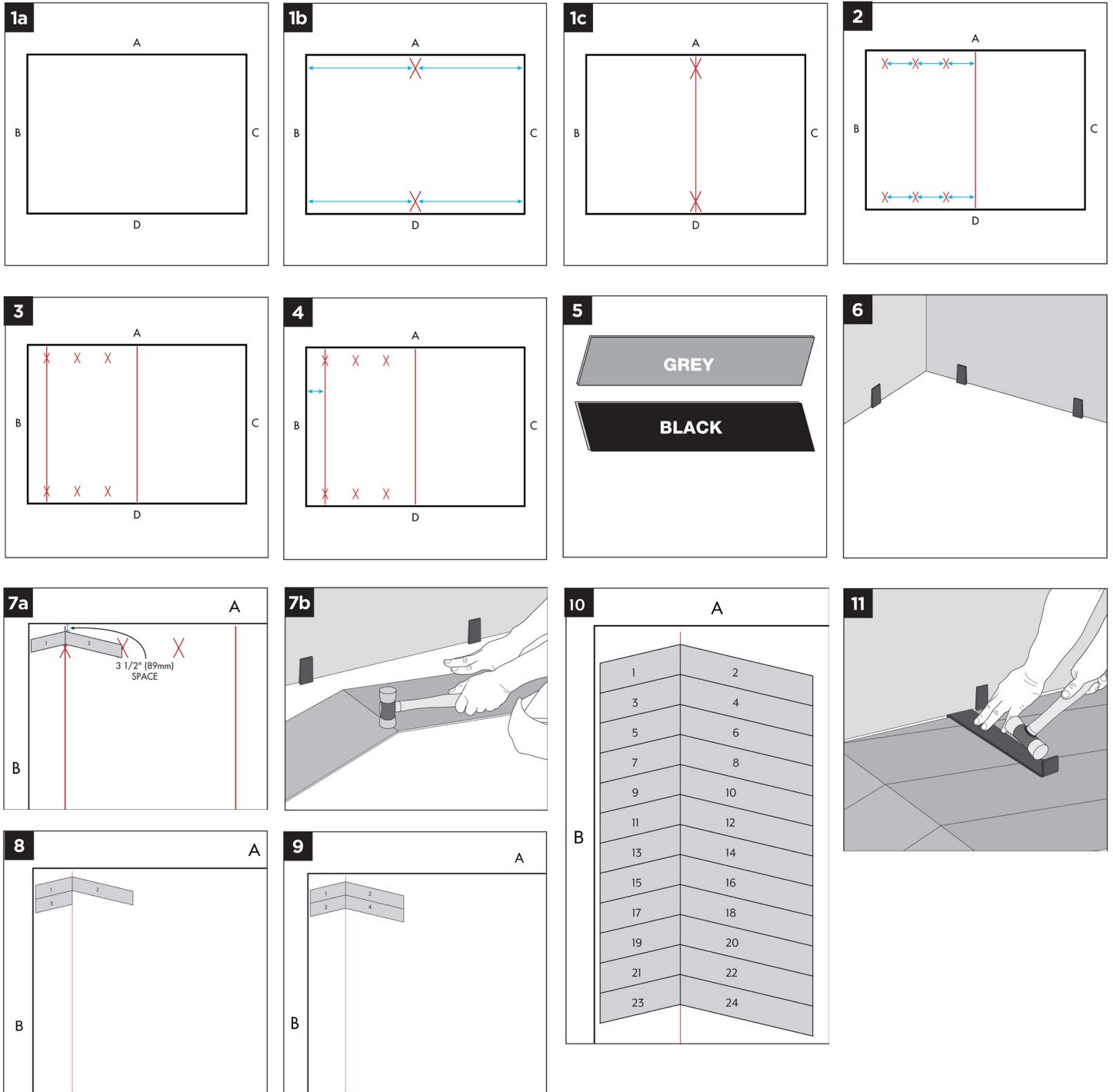
INSTALLATION:

1. Determine Room Layout - The project's layout should always be discussed and approved by the end-user. Define walls A, B, C, and D. (Step 1A) Measure and mark the center point of the room near wall A, and again near wall D. (Step 1B) Snap a chalk line connecting these two points. (Step 1C) This is the centerline of the room.
2. Determine the Position of the Columns - Begin at the center line near wall A, measure and mark in increments of $36\frac{3}{4}$ " (933mm) working toward wall B. Continue until no further increments can be marked. Repeat this process again near wall D.
3. Establish the Starting Line - The final increment marks nearest wall B will be used to create the starting line. Snap a chalk line connecting the last two marks. This line will indicate the center of the first V column. Note: Aesthetically, if the width of the first column is too narrow the starting line may be offset toward the center line by $18\frac{3}{8}$ " (466mm).
4. Measure and Cut the Starting Column - Measure and cut the starting planks equal to the distance from the starting line to wall B, allowing for the $\frac{3}{8}$ " (10mm) spacers. A T-Bevel (angle finder) can be used to find and mark the correct angle. Always measure twice before cutting. The material can be carefully cut using a variety of tools including: flooring shear, jig saw, circular saw, and table saw (be certain to follow proper tool usage and safety procedures).
5. Separate the Planks - The chevron pattern planks are composed of two different shapes (mirror-images). These shapes are made easy to distinguish. One has a black pad, the other a grey pad. Separate grey pad and black pad planks from 3 or more cartons and mix to ensure a blend of pattern and shade.
6. Ensure Expansion Space - Create the required expansion by placing $\frac{3}{8}$ " (10mm) spacers between the flooring assembly and the walls. Do not remove the spacers until the installation is complete.
7. Assemble the First V Column - Align the short edge of plank #1 to the starting chalk line. Begin assembling the first V column with the point of the column $3\frac{1}{2}$ " (89mm) away from wall A. Precisely align and overlap the end joints of plank #1 and plank #2. Gently tap the top plank using a soft-faced hammer to fully lock the joints together.
8. Install Plank 3 - Cut the length of plank #3 for the second row. Insert the long tongue edge of the plank into the long groove of plank #1. Make sure there are no gaps. If necessary, carefully tap along the long groove edge of plank #3 using the prevail tapping block to close any gaps.
9. Install Plank 4 - While aligning corners, insert the long tongue edge of plank #4 into the long groove edge of plank #2. Fully engage the long side joint by carefully tapping the edge using the prevail tapping block. Tap down the short joint with a lightweight soft-faced hammer.

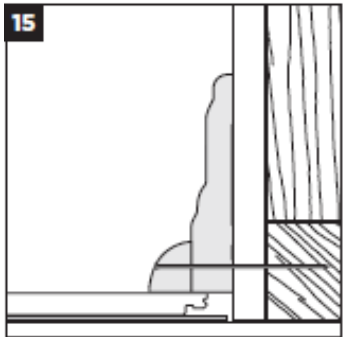
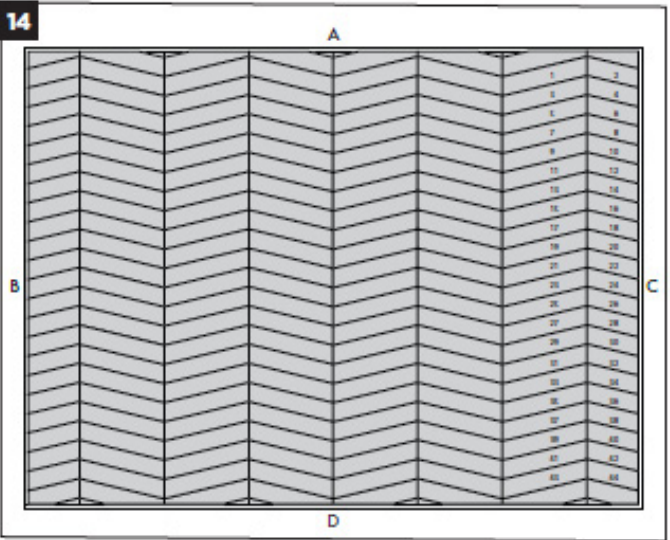
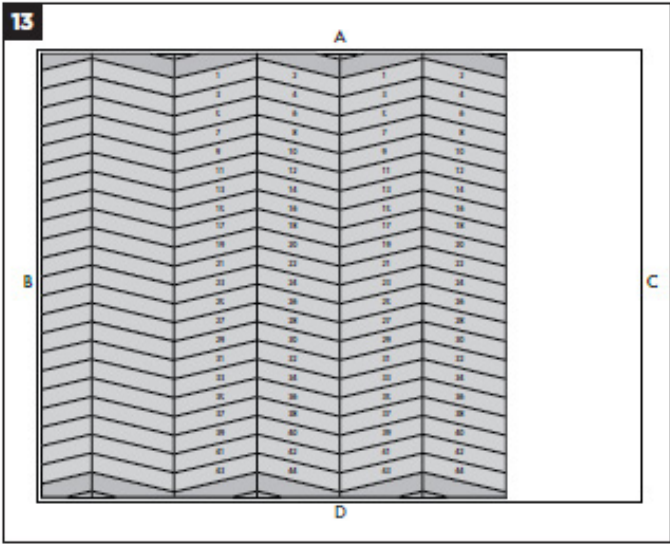
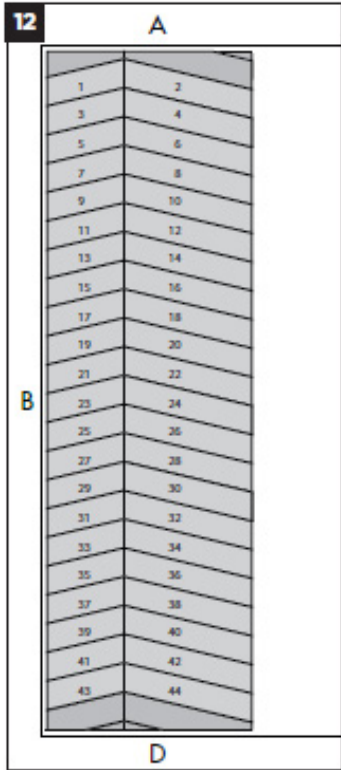
INSTALLATION (CONT):

10. Maintain the Alignment - Continue forming the V column. Ensure the center of the V column is always aligned with the starting line. Install planks and maintain joint alignment until no additional full pieces can be installed within the V column.
11. Trim Cuts Near Wall A - Measure, mark, and cut pieces near wall A. These cuts will be installed by positioning the long groove edges into the long tongue edges. If necessary, use a pull bar to lock the long edges together for the fill pieces at the walls. (Note - A pull bar should only be used against the cut edges and never against the plank edges/profiles.)
12. Trim Cuts Near Wall D - Measure, mark, cut, and install the fill pieces near wall D.
13. Subsequent Columns - Continue building the subsequent V columns using the same placement order. Install planks within the V Columns until no additional full pieces can be installed. Cut the fill pieces at walls A and D as needed.
14. Final Column - Build the final column using the same placement order, beginning near wall A and finishing near wall D. Measure, mark, and cut the fill pieces at walls C followed by cutting fill pieces at walls A and D.
15. Finish the Job - Remove spacers. Cover expansion space with quarter round or other trim, being sure not to trap or pin down the floor.

INSTALLATION (CONT):



INSTALLATION (CONT):



ROUTINE CARE & MAINTENANCE:

- Sweep, dust mop or vacuum daily. Do not use vacuums with any type of beater bar assembly.
- Lightly damp mop with Prevail™ Neutral Cleaner. Remove excess soil by carefully scrubbing with a soft nylon brush or magic eraser sponge and Prevail Neutral Cleaner.
- Remove scuffs using Prevail Neutral Cleaner and a soft nylon brush or magic eraser sponge.
- Heavily soiled floors may require an occasional deep cleaning using Prevail Neutral Cleaner, spray bottle and a low-speed buffer not exceeding 175 RPM. Fit the buffer with a red or white scrubbing pad, spray the cleaner solution onto a manageable area of the floor and scrub. Remove the dirty residue by damp mopping with clear water. Caution: Do not flood the floor.
- Remove standing water, pet urine and other liquids promptly. Follow with Prevail 1-Step Neutral Cleaner or Prevail Ready to Use Neutral Cleaner.

PREVENTIVE CARE:

- Use non-staining walk-off mats at all outside entrances.
- Use flat glides at least 2" (50mm) in diameter under furniture legs or free standing displays and fixtures to prevent indentations and scratches.
- Use broad surface non-staining casters at least 2" (50mm) in diameter on rolling fixtures or furniture.
- Do not use vinegar, polishes, waxes, oil soaps, abrasive cleaners, harsh detergents, "mop and shine" products or solvents.
- Do not expose to direct sunlight for prolonged periods.
- Do not use steam cleaners.
- Do not flood floor or subject to standing liquids, including pet urine.

NOTES: Stain Removal – To remove stubborn spots and stains from QuietLok® floors, always begin with mild cleaners, such as Prevail 1-Step Neutral Cleaner. If such cleaners fail to remove the spots and stains, and "if permitted," use mineral spirits. Do not use harsh solvents, such as lacquer thinner or straight acetone, as these can permanently soften and damage the vinyl surface. For stubborn spots and stains (such as paints, permanent markers, and dyes), and "if permitted," try applying fingernail polish remover containing acetone (do not use straight acetone) to a soft cloth and rubbing across the affected areas. Subsequent to this cleaning procedure for stubborn spots and stains, please clean the affected area with clear water to remove any residue. Any damage resulting from the use of pure solvents IS NOT covered by the QuietLok® Warranty. Always test stronger cleaning agents on sample pieces or in unnoticeable areas, first. Never use a brush or pad more aggressive than a 3M red equivalent. Blue, Green, Brown and Black pads will damage the surface of the floor.