

Installation Guidelines

Attune - Heterogeneous Sheet Flooring with Vulcanized Composition Rubber Backing Installation Guidelines

GENERAL INFORMATION

All recommendations are based on the most recent available information. The information in this sheet provides general guidelines. For complete details, consult the Mannington Commercial General Installation Guide or visit our website manningtoncommercial.com. All instructions and recommendations must be followed for satisfactory installation. These installation specifications are for fully adhered installations of Mannington Commercial Attune.

Good preparation is essential for a trouble-free installation. Do NOT install Mannington Commercial flooring until job site testing and subfloor preparations are finished and the work of all other trades is complete. Site conditions must comply with relevant building codes and local, state and national regulations.

- Mannington Commercial flooring is recommended for use over properly prepared concrete, suspended wood, metal and other suitable substrates.
- Never install Mannington Commercial flooring over residual asphalt type (cut back) adhesive as "Bleed Through" may occur.
- Mannington Commercial flooring is not suitable for external installation or unheated locations.
- Mannington Commercial flooring, adhesive, job site and subfloor must be acclimated to a stable condition before installation.
- Following installation, foot traffic should be minimized for 24 hours, point loads and rolling traffic for 48 hours and utilize minimal wet cleaning for 5 days. Tape installation can have immediate traffic.
- Mannington Commercial flooring should remain at a temperature between 65 °-85°F during its service life.
- Mannington Commercial flooring must be fully adhered using the appropriate Mannington Commercial adhesive.
- Mannington Commercial requires the flooring product to be inspected prior to installation for proper style, color, order quantity and potential defects. Installation of flooring acknowledges acceptance of material. Report discrepancies to Mannington Commercial at 800.241.2262 ext. 2 (Claims), as installation of products installed with visual defects or incorrect style will not be honored.
- Mannington Commercial does not recommend mixing dye lots. Predetermined and approve natural breaking points, such as doorways or in areas where dye lot changes would be less noticeable and out of the focus areas. Always get prior approval and sign off from the owner before proceeding. Mannington does not warranty the visual aesthetics where mixed dye lots are merged.

MATERIAL RECEIVING, HANDLING & STORAGE

- All floor covering products require care during storage and handling. It is important to store flooring products in a dry, temperature-controlled interior area.
- Shipping pallets, cradles, banding, etc. are not intended for storage. After 7 days remove material from shipping pallets, cradles etc. Rolls of vinyl and vinyl laminated to rubber should be stored standing up. Storing vinyl rolls and vinyl fusion bonded to rubber rolls on their side will result in wetting.
- Material must be stored in a climate-controlled environment between 55-85 F.
- Material must be conditioned for at least 48 hours before beginning the installation.
- Material will need to be unrolled and allowed to relax overnight before proceeding with the installation.
- Report discrepancies immediately to Mannington Commercial at 800.241.2262 ext. 2 (Claims), as installation of products installed with visual defects, mixed production runs or incorrect styling will not be honored.

Installation Guidelines

JOB SITE TESTING

1. Before job site testing, the building envelope must be sealed (walls, roofing, windows, doorways, etc. installed).
2. The installation area and materials to be installed shall be maintained at a minimum of 65°F (18.3°C) and a maximum of 85°F (29.4°C) for 48 hours before, during and after completion of the installation. Relative humidity level extremes should also be avoided. General recommended humidity control level is between 35-55%. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.
3. Test sites must be properly prepared and protected for the duration of testing to achieve valid results.
4. Surface flatness for all Subfloors: The surface shall be flat to 3/16" (3.9mm) in 10' (3050 mm) and 1/32" (0.8 mm) in 1' (305 mm). To check flatness, place a 10' straight edge, string, laser level or another suitable method on the surface and measure the gap.
5. Concrete Subfloors:
 - Concrete subfloors must be finished and cured, free of all sealers, coatings, finishes, dirt, film forming curing compounds or other substances that may prevent proper bonding of the flooring materials.
 - Randomly check concrete subfloor for porosity using the drop water test. Place a 1" diameter drop of water directly onto the concrete subfloor. If the water droplet does not dissipate within 60-90 seconds, the subfloor is considered non-porous.
 - Concrete subfloors must have a minimum compressive strength of 3,000 psi. Concrete subfloors shall not consist of light weight concrete or gypsum.
 - Moisture Testing: Perform either the preferred In-situ Relative Humidity (RH) Test (ASTM F2170) or the acceptable Moisture Vapor Emission Rate (MVER) Test (ASTM F1869) as needed. For acceptable moisture limits, please refer to the specifications of the adhesive choice.
 - Alkalinity: Must test surface alkalinity (pH) as per ASTM F710. Refer to adhesive information for pH limits.
6. Wood subfloors and underlayment panels shall have the moisture content tested using a suitable wood pin meter. Readings between the wood subfloor and underlayment should be within 3% and have a maximum moisture content of 14% or less.

MOISTURE SUPPRESSANT SYSTEM

Concrete subfloors that exceed adhesive specifications will require a Moisture Suppressant System. Due to complexities associated with moisture vapor transmission, emissions and movement of soluble salts (alkalinity) in concrete subfloors, we do not offer, recommend or warranty a specific solution for excess moisture in concrete slabs. However, there are many companies that offer solutions with warranties for excess moisture in concrete slabs.

Mannington Commercial suggests that you reference the current ASTM F710, "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring" and ASTM F3010 "Standard Practice for Two Component Resin Based Membrane Forming Moisture Mitigation Systems for Use Under Resilient Flooring Systems." Contact one or more of the following or other moisture suppressant system suppliers for assistance:

- Ardex (724) 203-5000 www.ardex.com
- Koster American Corp. (757) 425-1206 www.kosterusa.com
- Mapei (800) 426-2734 www.mapei.com
- Uzin Ltd. (800) 505-4810 www.ufloorsystems.com
- Schönox (855) 391-2649 www.hpsubfloors.com

SUBFLOOR PREPARATION

Careful subfloor preparation is vital for excellent floor appearance and good adhesion. The subfloor must be smooth, firm, flat, clean, dry, free from defects and fit for purpose. A suitable smoothing compound should be used to ensure that no irregularities show through to the surface of the finished floor. In all cases, the subfloor must meet the moisture and pH requirements before installation. For a porous subfloor (concrete or wood) that has high pH and/or needs a primer, use Mannington Commercial Universal Primer.

Installation Guidelines

Mannington Commercial Universal Floor Primer / pH Blocker is an acrylic latex solution made to neutralize excess alkali and is also recommended as a primer to prevent over absorption of adhesive to ensure a better bond. Gypsum topped or patched areas must receive a full application of Mannington Commercial Universal Floor Primer, as well as any subfloor that is porous, gritty, chalky, or dusty. Porous subfloors with chemical pH above 9 may require a second application. Mannington Commercial Universal Floor Primer can be applied by pouring directly on the subfloor and spreading evenly with a broom or paint roller. Primer can also be applied with a garden sprayer, airless rig, or similar spray equipment. Allow the primer to dry completely prior to second application or before applying adhesive. Primer is dry if there is no transfer when touched. Coverage is approximately 350-400 square feet per gallon.

Concrete Subfloors

Below and on-grade concrete subfloors must have a suitable vapor retarder properly installed directly beneath the slab. Always follow manufacturers' written recommendations for the use and installation of their appropriate surface preparation materials.

1. Record and file site conditions, test results and any corrective action(s) taken. It is important to maintain this documentation throughout the warranty period.
2. Subfloor must be clean (free of dirt, sealers, curing, hardening, or parting compounds or any substance that may stain or prevent adhesion), smooth, flat, sound, fit for purpose, free of movement, excessive moisture, and high alkalinity.
3. All marking paint, permanent markers, crayon and any other potential stainants must be removed by grinding from the concrete surface before installing the flooring, nor should the back of the flooring ever be marked.
4. Slick surfaces such as power troweled concrete shall be abraded or profiled to allow for a mechanical bond between the adhesive and subfloor.
5. Remove existing resilient sheet floor covering; remove all residual adhesive, paint or other contaminants following RFCI recommended work practice. The use of adhesive removers or solvents in the abatement or removal of existing or old adhesives is prohibited and may void any warranty. **WARNING: ASBESTOS & SILICA** - Refer to the current Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Existing Resilient Floor Coverings" for guidance (www.RFCI.com). Note: If the flooring contractor elects to install new floor covering over an existing floor covering, the flooring contractor assumes all responsibility as to the suitability and continued performance of the existing floor covering.
6. Perform corrective actions necessary for elevated moisture or high alkalinity conditions.
7. Surface Flatness for All Subfloors: The surface shall be flat to 3/16" (3.9 mm) in 10' (3050 mm) and 1/32" (0.8 mm) in 1' (305 mm). Bring high spots level by sanding, grinding, etc. and fill low spots. Smooth surface to prevent any irregularities or roughness from telegraphing through the new flooring.
8. Leveling and Patching: For concrete subfloors, use only high-quality Portland cement based materials (minimum 3,000 psi compressive strength according to ASTM C109). Holes, grooves and other depressions must be filled. Mix with water only, do not use latex. **CAUTION:** Do not lightly skim coat highly polished or slick power troweled concrete surfaces. A thin film of floor patch will not bond to a slick subfloor and may become a bond breaker causing flooring to release at the interface of the subfloor and patching material. If in doubt, perform a bond test prior to commencing with the installation.

Wood Subfloors

1. General: Wood subfloors require an underlayment (double layer construction) with a minimum total thickness of 1" (25 mm). Use minimum 1/4" (6 mm) thick APA rated "underlayment grade" plywood with a fully sanded face or other underlayment panel that is appropriate for the intended usage. Install and prepare panels and seams according to the manufacturers' instructions. Also refer to ASTM F1482 Standard Practice for Installation and Preparation of Panel Underlayments to Receive Resilient Flooring.

Installation Guidelines

2. Underlayment: Many times, wood panel subfloors are damaged during the construction process or are not underlayment grade. These panels must be covered with an appropriate underlayment. Particleboard, chipboard, construction grade plywood, OSB, flake-board, and wafer board are not recommended as underlayments. All have inadequate uniformity, poor dimensional stability, and variable surface porosity. Mannington Commercial will not accept responsibility for adhered installation over these subfloors. In all cases, the underlayment manufacturer or underlayment installer is responsible for all underlayment warranties.

3. Underlayment Requirements: Panels intended to be used as underlayment should be specifically designed for this purpose. These panels should have a minimum thickness of 1/4" (6mm). Any panels selected as an underlayment must meet the following criteria:

- Be dimensionally stable
- Have a smooth, fully sanded face so graining or texture will not telegraph through
- Be resistant to both static and impact indentation
- Be free of any surface components that may cause staining such as plastic fillers, marking inks, sealers, etc.
- Be of uniform density, porosity, and thickness
- Have a written warranty for suitability and performance from the panel manufacturer or have a history of proven performance

Any unevenness at the joints between panels must be sanded to a level surface. Gaps between panels, hammer indentations, and all other surface irregularities must be filled and sanded.

Existing Floor Coverings

To achieve maximum product performance, it is always best to remove existing floor covering and prepare the substrate before installing new products. Existing flooring can adversely affect the performance properties of the new flooring, such as indentation or adhesive bond.

WARNING: ASBESTOS & SILICA - Refer to the current Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Existing Resilient Floor Coverings" for guidance.

INSTALLATION

Before starting installation, ensure the following are satisfactorily completed:

- Flooring Material: Unroll all rolls and allow to relax overnight.
- Acclimation: The installation area and materials to be installed shall be maintained at a minimum of 65°F (18.3°C) and a maximum of 85°F (29.4°C) for 48 hours before, during, and for 48 hours after completion of the installation, and continue to maintain the flooring at a temperature between 55°F - 85°F during its service life. Relative humidity level extremes should also be avoided. General recommended humidity control level is between 35–55%. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.
- Expansion joints, isolation joints, or other moving joints are incorporated into concrete floor slabs to permit movement without causing random cracks in the concrete. These joints must be honored and not be filled with underlayment products or other materials, and floor coverings must not be laid over them. Expansion joint covering systems should be detailed by the architect or engineer based upon intended usage and aesthetic considerations.
- Surface cracks, grooves, depressions, control joints, other non-moving joints, and other irregularities shall be filled or smoothed with high quality Portland cement-based patching or underlayment compound for filling or smoothing, or both. Patching or underlayment compound shall be moisture, mildew, and alkali-resistant, and shall provide a minimum of 3,000 psi compressive strength after 28 days, when tested in accordance with ASTM C109 or ASTM C472, whichever is appropriate.

Installation Guidelines

- **Subfloor Preparation:** Ensure all surfaces to be covered are completely clean, dry, and smooth and that all necessary subfloor preparation has been properly completed and documented.
- **Inspect Substrate:** Perform final acceptance inspection of substrate.
- **Adjacent Surfaces Protection:** Protect adjacent work areas and finish surfaces from damage during product installation.
- **Flooring Protection:** Mannington Commercial flooring should be the last material installed to prevent other trades from disrupting the installation and adhesive set-up or damaging the floor.

Cutting and Fitting

- When cutting and storing the flooring pieces, remember that each piece must be installed in sequential order. If you need more than one roll of floor covering, make sure the roll numbers are in consecutive order.
- Wood visuals are designed to be installed in a random match pattern. Due to the nature of the design, the plank pattern may not align at the butt ends from one sheet or roll to the next. If pattern alignment is preferred, installers should trim the material as necessary to achieve the desired visual effect. Please note that aligning patterns may require additional material, so plan for averages accordingly.
- It is imperative that the material, adhesive and job site be maintained at a minimum temperature of 65°F or a maximum of 85°F 48 hours before, during and 48 hours after installation.
- If the material has been stored at colder temperatures, it will be necessary to unroll the material and allow it to relax over night before proceeding with the installation.
- If the job site is complex and requires a precise fit, traditional pattern scribing techniques should be used. The material may also be fit using direct scribing techniques.
- Once the material has been fit, it will be necessary to tube or lap half of the sheet back to expose the sub-floor for adhesive application.
- Care should be taken when folding the material back. Do not sharply fold or crease the material. Always fold the material in a wide radius to avoid sharp kinks and creases, which may cause breaks in the product. This can result in permanent visual damage to the wear layer and is not covered under product warranty.

ADHESIVES

Mannington Commercial MR-710 is a single component Premium Urethane adhesive designed for use with Mannington Commercial Attune. Perform either the preferred In-situ Relative Humidity (RH) Test (ASTM F2170) or the acceptable Moisture Vapor Emission Rate (MVER) Test (ASTM F1869). The acceptable moisture limit is 90% RH, 8 lbs. MVER, surface alkalinity ASTM F710, pH limit is 9. See adhesive specification and/or label for additional details.

Mannington Commercial Rubber Tape System is a double-sided dry flooring adhesive with a fabric carrier used for the full surface installation of Mannington Commercial Attune over various substrates including existing floor covering. Perform either the preferred In-situ Relative Humidity (RH) Test (ASTM F2170) or the acceptable Moisture Vapor Emission Rate (MVER) Test (ASTM F1869). The acceptable moisture limit is 90% RH, 8 lbs. MVER, surface alkalinity ASTM F710, pH limit is 9. See adhesive specification and/or label for additional details. ***IMPORTANT NOTE: Mannington Commercial adhesives are specifically formulated to be fully compatible with our product chemistry and to maximize the performance of Mannington Commercial flooring. Using substitutes or failing to use Mannington Commercial adhesives as recommended can cut-short product life, cause installation failure, and/or lead to a chemical reaction, such as hydrolysis, which will permanently damage the product and will void all applicable warranty coverage. Mannington Commercial adhesives are not designed to be used over floors with moisture vapor emissions from water or intrusion or hydrostatic pressure.***

Adhesive Application

All seams should be pre trimmed before adhesive application. After the material has been trimmed to fit the room, it should be tubed or lapped back to expose the sub-floor.

- The adhesive must be spread over 100% of the exposed subfloor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched.

Installation Guidelines

- After the adhesive has been applied, immediately roll the sheet forward into the adhesive to eliminate trapping air.
- Do not drop or flop the material into the adhesive.
- Roll the floor covering with a three-section 100 lb. or heavier floor roller in both directions.
- After the first half of the sheet has been adhered and rolled, fold back the second half and repeat the procedure.
- Wait 1–2 hours then re-roll again to ensure full contact and to remove any trapped air.

SEAMING

The seam method required is Do Not Reverse for wood patterns (Realities III), Reverse for all other patterns (Bloom Wellspring & Entwined Suber).

Factory Edges

- It is suitable to butt factory edges or if needed use the overlap and trace cut method.

Trace cut Method

- The selvage edge of one sheet should be straight edged approximately 3/8" from the edge.
- Position the sheets in such a manner that the straight-edged top sheet will overlap the untrimmed bottom sheet.
- Carefully trace along the edge of the top sheet with a utility knife with a sharp blade or a cutting tool designed for this purpose.
- Remove the trimmed selvage edge of the bottom sheet.
- Once the seams are cut, weigh the sheets and tube or lap back the sheets to expose the sub-floor.
- Apply the appropriate Mannington adhesive using the correctly notched trowel over 100% of the exposed sub-floor.
- After applying the adhesive, lay the straight-edged sheet into the adhesive first and then lay in the second sheet.
- If needed, pull side seams tight with blue painters, or masking tape.
- Remove tape immediately after the adhesive sets or the next day. Do not use aggressive tapes such as duct tape or extreme hold tapes.
- To assure the air pockets have been removed, roll the adhered areas to within about 6" of the seam line with a 100 lb. three-section floor roller.
- To prevent adhesive ooze roll the seam area with a hand seam roller to bring the seam edges level.
- Re-roll the entire adhered area with the 100 lb. floor roller.
- Thoroughly clean the seam area and wipe dry. Immediately remove any adhesive smudges from the flooring material while adhesive is wet and fresh by using a white cloth dampened with mineral spirits.

TAPE INSTALLATION

Follow all subfloor and installation requirements in the previous instructions. Sweep and vacuum the subfloor to remove all dust particles, dirt, and debris. *Mannington Universal Primer is required for all tape installations. All bond warranties will be voided if a primer is not used.*

- Tape installation process will require two mechanics.
- Tape with release paper must be installed prior to dry-fitting flooring.
- Install tape perpendicular to the flooring. In the case where tape must be installed in the seam direction, set the tape six (6) inches from the Attune flooring seam.
- Unroll tape and align with ½" to 1" overlap, lightly pressing into place with stiff push broom, steel trowel or similar.
- Wait a minimum of 15 minutes for tape to relax. Stretched tape will return to its original size.
- Cut tape at overlaps without damaging substrate and pull away excess release paper.
- Roll out flooring over the tape. Rough cut section to allow flooring to overlap at the butt joints and run long at the wall several inches.
- Roll back the flooring to the middle of the room.
- Vacuum the release paper and the back of the new flooring to remove all debris.

Installation Guidelines

- Pull protective release paper away from the exposed tape. NOTE: Do not fold release paper over itself or it will break, making removal difficult.
- Cut off the removed release paper except for a 4" piece and fold that 4" piece of release paper back onto itself under the rolled back flooring to form a flap that will be used later.
- Carefully lay the first section onto the tape. Do not allow floor to "flop down" and trap air beneath flooring. When floor is free from tension and bubbles, rub down well.
- Fold back second half of the flooring.
- Vacuum the release paper and the back of the flooring to remove debris.
- Pull off the remaining protective paper with the aid of the 4" flap made earlier.
- Lay the floor covering into position, rub down and trim edges to fit.
- It is still possible to reposition the floor, so do not stand on the floor until you are sure of correct positioning. Once sure, roll the material with a 100-125 lbs roller in both directions to remove air bubbles and ensure a good bond.
- Tape installations can be heat welded the same day.

HEAT WELDING

Heat welding is the required method for sealing seams. Heat welding is the act of fusing resilient sheets together with a heated thermal vinyl weld rod. Mannington's weld rod is available on spools and is designed to fit the most popular heat welding guns. Mannington offers a broad range of solid rod colors to coordinate with all our heat-weldable flooring.

To achieve good sealing results, knowledge of proper heat welding procedures is important. A repeated stop/start method will produce rough, uneven seams, creating an unpleasant appearance. Temperature and speed are critical to the success of any heat welding application. If the welding gun is set too hot or applied too slowly, the flooring is likely to burn, char, or craze the surface next to the weld rod. If the welding gun is not hot enough or applied too quickly, the weld may have poor fusion.

1. Attune installed with tape can be heat welded same day.
2. After allowing the adhesive to dry overnight, use a power-grooving machine, master turbo groover or hand groover to cut a groove the entire length of the seam. Adjust the machine so the depth of the groove is about two thirds of the vinyl platform not extending into rubber core. Never go all the way through material. Maintain a 3-sided weld (2 sides and bottom). Stop machine grooving several inches away from the wall.
3. Prior to heat welding, allow the flooring adhesive 24 hours to completely dry. Preheat the welding gun and determine proper temperature setting and router depth by practicing on scrap pieces of flooring. Make certain the speed nozzle is clean and free of obstructions.
4. A 4mm round narrow heat sensitive tip designed for welding urethane finish flooring is required.
5. Insert the welding rod into the tip allowing approximately 3" to extend out. Arrange welding rod in such a manner that it will not interfere with the application. Be careful when inserting the welding rod because the nozzle is extremely hot.
6. Allow the welded rod to cool, and then groove the installed rod with a hand-grooving tool. Grooving the rod makes it possible to achieve complete seam coverage when you start seaming from the opposite direction to finish the job.
7. Reposition yourself and your tools at the back wall and continue welding into the grooved rod just made so there are no missed spots in the seam. It is important to achieve a smooth, continuous coverage of the rod into the seam.
8. After the welded rod shrinks and cools for approximately 30 minutes, trim down the excess by proceeding with the following steps:
 - a. Remove approximately two thirds of the exposed welded rod. Use a skive knife and trim plate to trim off the top layer. There should be about 1/32" excess weld rod projected above the surface of the resilient.

Installation Guidelines

- b. Trim the welded rod level until it is flush with the surface of the resilient sheet. Use a properly sharpened skive knife without the trim plate; place at a 5° to 10° angle to the floor surface. Keep the sharpened side down against the welded rod. Be careful not to cut or dig into the resilient sheet surface. Inspect the finished seam carefully and remove any missed high spots with a spatula knife. If there are low spots, the seam weld may require re-application of the weld rod.
9. Once the entire area has been trimmed and inspected, heat glaze the completed seam by applying heat from the welding tool. Remove the urethane nozzle and use the same heat setting to direct the flow of heat from the gun along the length of the seam.
10. For optimal performance, apply a uniform coating of the Quantum Guard Elite® Seam Coater Pen to the weld rod. This protective coating will keep the seam area clean and provide optimal performance. See details below.

Seam Coater Pen

The Quantum Guard Elite® Pen is a quick and easy way to provide topical protection to heat welded and chemically welded seams in Mannington Commercial resilient sheet products that have the patented high performance urethane Quantum Guard® HP or Elite wear layer. Before use shake vigorously to blend the ingredients, remove the cap, dab the felt tip marker a few times to begin the flow of the floor finish and then coat over the seam area with a thin, even application in high traffic areas it is a good practice to apply two or even three coats of finish from the Quantum Guard Elite® pen. Just be certain that the finish is thoroughly dry before applying additional coats. Each Pen will cover approximately 300 lineal feet of seam. The Quantum Guard Elite® Pen coating is not intended to provide additional seam strength or integrity. It is a "coating" that helps retain seam appearance initially and when in service.

FLASH COVING

Mannington Commercial Attune is not suitable for Flash Coving – *Standard Wall Base or IdealBase only*. For standard wall base follow Mannington wall base installation instructions.

ATTUNE WITH IDEALBASE**Mannington Attune – IdealBase Installation**

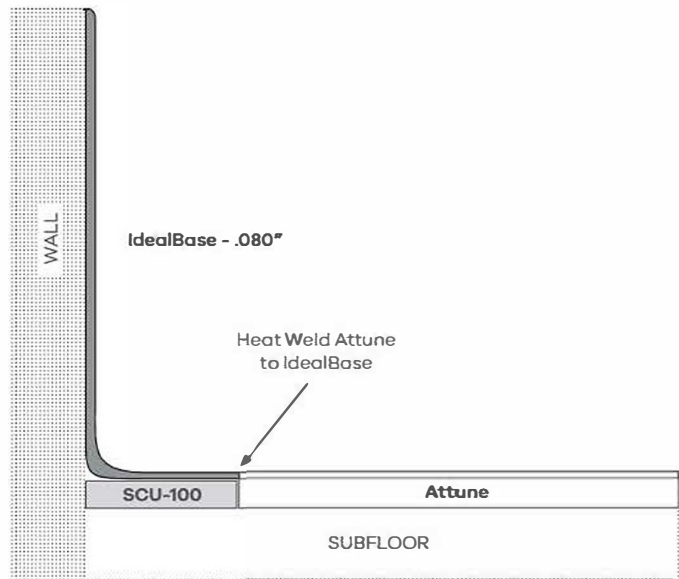
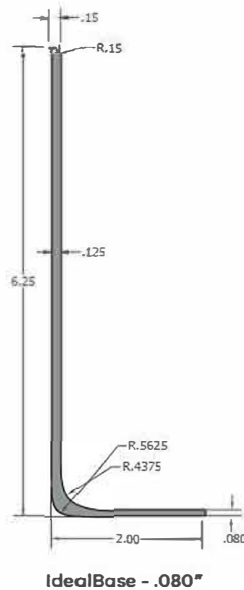
Items needed:

Attune Sound Control Underlayment, 2" double sided tape and 6" double sided tape for the IdealBase

- Prior to dry fitting / laying the flooring use a small sample of IdealBase, and dry lay the base against the wall, mark the subfloor with pencil at the outside of the base toe. Connect reference points with a white or blue chalk line to give a stopping line for the adhesive application.
- Once the sheet flooring has been laid into position, lap back the flooring and apply the MR 710 adhesive. Apply the adhesive troweling up to the predetermined chalk line overlapping 1/8 inch. Allow the sheet and adhesive to set overnight before trimming the edge for IdealBase installation.
- Following the same procedure as before, mark the top of the sheet flooring on each end of the walls with a small sample of IdealBase. Use white chalk line to connect the reference points on each wall.
- Using a straight edge and sharp utility knife, cut through the flooring at the predetermined lines. Make several passes to completely cut through the product.
- Using a 5n1 tool or small scraper, remove any adhesive residue. Vacuum up any residue from the area. Next, apply Mannington 2 inch double sided tape to the substrate.
- Using the supplied Attune Sound Control Underlayment, cut 2-inch strips to fill in the gully along the wall edge.
- Peel back the protective paper on double sided tape and install the 2- inch rubber strips. Roll the rubber strip with a small hand roller.

Installation Guidelines

- Next apply the 2- inch double side tape to the top of the rubber padding and the 6-inch tape to the wall. Next install IdealBase.
- See Mannington IdealBase instruction at manningtoncommercial.com



Mannington Attune Heat Weld Seaming to IdealBase

- Using an appropriate hand groover or Turbo Master / Sport groover, groove the seam width evenly 50% each side (roughly 4mm)
- Depth of groove to be 2/3 of vinyl platform not extending into rubber core. Once the seams have been grooved out, using the heat welding gun, weld the vinyl rod melting both sheet / IdealBase and weld rod at the same time.
- Immediately skive off weld rod in the first pass using a trim plate and skiving knife. Also approved is the Mozart knife. Allow the rod to cool for 30 minutes before performing the final pass or trim with the skiving knife. Heat glaze the rod to help seal the vinyl pores and to allow the vinyl color in the rod to acclimate to the intended color.
- Final step is to apply Mannington Quantum Guard Pen to the weld rod.
- See this link for our installation video: <https://play.vidyard.com/9TDSzT9tefyNtvvCzRsDnW>

Attune Installation Double Stick Field Applied Method with IdealBase

Follow all Jobsite and acclimation requirement as stated. IdealBase can be installed immediately after the Attune flooring installation using the double stick tape method.

- Apply Mannington Tape to entire floor area.
- Once the tape has been installed, using a small sample of IdealBase, dry lay against the wall. Mark the tape with pencil at the outside of the base toe. Connect reference points with a blue caulk line to give a reference.
- Trim the reference lines with a utility knife and straight edge. Do not peel the protective film.

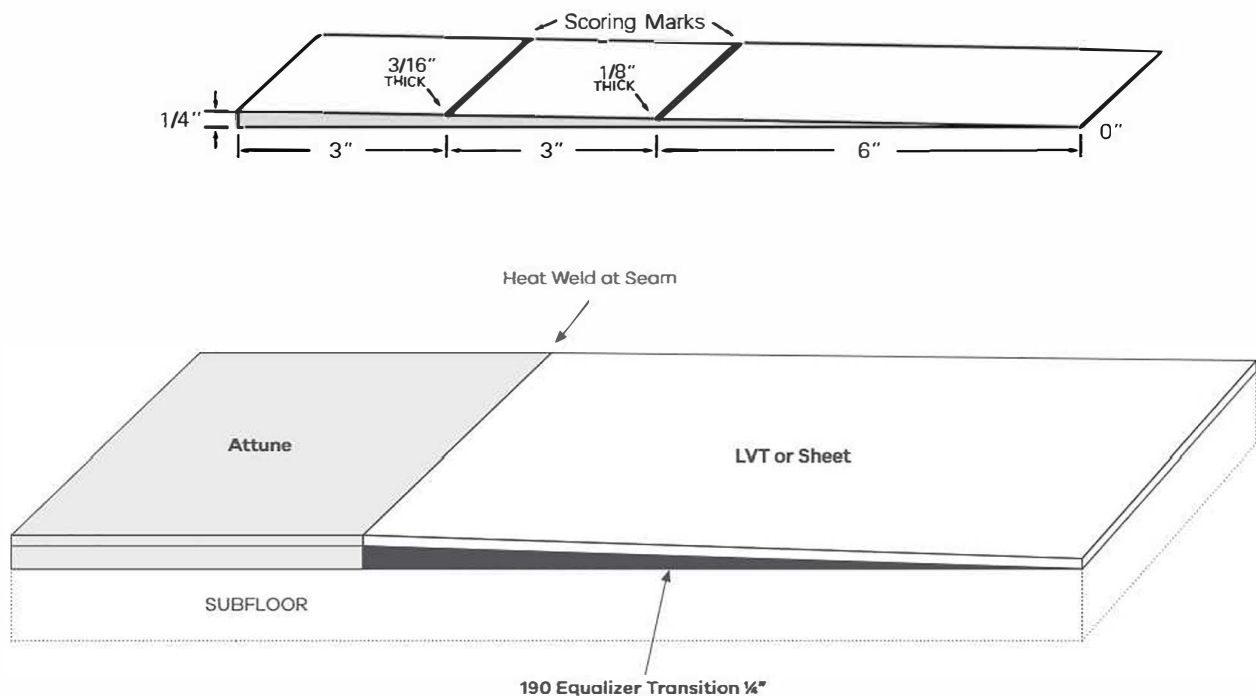
Installation Guidelines

- Dry fit the Attune sheet flooring. Once the sheet is ready to adhere, lap back the flooring. Peel the protective film leaving the outside 2 in band with the protective film still attached.
- Install the sheet flooring following the above installation procedures.
- Once the sheet has been fully installed and secured, Following the same procedure as above using a small sample of IdealBase, dry lay against the wall. Mark the sheet flooring with pencil at the outside of the base toe. Connect reference points with a white caulk line to give a reference. Using a sharp utility knife and straight edge, cut through the flooring at the predetermined lines. Make several passes to completely cut through the product.
- Remove the trimmed piece. Vacuum the gully to remove any residue or debris.
- Using the supplied 5mm rubber pad, cut 2-inch strips to fill the gully along the wall. Remove the tape release film and install the padding. Roll the pad with a small seam roller to secure in place.
- Next apply the 2 inch double sided tape to the top of the pad and the 6-inch tape to the wall.
- Install the IdealBase. See Mannington IdealBase instruction at Mannington.com

THE EQUALIZER TRANSITION

When transitioning from Attune to LVT or standard resilient sheet, use the Equalizer transition $\frac{1}{4}$ " size. The Equalizer transition will need to be cut down to correct size.

- 190 Equalizer Transition: Butts to reduce from $\frac{1}{4}$ " to 0" in a 12" wide span. Can be cut at scoreline to reducer height as indicated. Packing: 10-4' secs, 40 lin ft per carton.



Installation Guidelines

FINISHING THE JOB

- Protect all exposed edges of the floor covering with trim or moldings, wood or vinyl cove base along all walls, cabinet toe kicks, etc.
- Use metal strips in doorways or where new flooring joins another floor covering.
- Caulk along tubs, toilet bowls, etc.
- Remove all adhesive smears or residue from the surface of the floor covering with a clean cloth dampened with mineral spirits or denatured alcohol.
- Follow appropriate maintenance schedule for heterogeneous flooring products.

CAUTIONS AND MISCELLANEOUS

- Do not place heavy items on newly installed floor covering for at least 48 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
- Keep traffic off the floor for a minimum of 24 hours. Floor should be free from heavy traffic for 48 hours and rolling load for 72 hours.
- Furniture should be moved onto the newly installed floor using an appliance hand truck over hardboard runways.
- Floor covering subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential effects on the floor covering.
- Oil or petroleum-based products can result in surface staining. Do not track asphalt driveway sealer or automobile oil drips onto the vinyl floor covering.
- Use non-staining walk-off mats at building entrances to remove excess dirt and grit from foot traffic-rubber can discolor vinyl floor covering.
- Radiant Heat: Mannington Commercial resilient sheet flooring can be installed over radiant heating (hydroponic) systems. The maximum temperature of the subfloor surface must not exceed 85°. Before installing flooring products over newly constructed radiant-heating system, set the thermostat to a comfortable room temperature for the installation. For existing systems, the system must be switched off for a minimum of 48 hours before, during and 48 hours after flooring installation.
- Protecting New Installations: New installations must be protected while the adhesive cures. Early foot traffic, point, or rolling loads can cause adhesive displacement or breaking of the bond between the adhesive and the sheet or substrate. For moving heavy loads over installed flooring, use runner boards e.g., Masonite or plywood to reduce the risk of indentation, gouging, shifting or movement of flooring.
- Protective Coverings should be breathable, non-slippery, capable of preventing debris and abuse from damaging the surface of the flooring installation. Any protective covering that has an adhesive or tacky back applied is not suitable.

For more Information, please contact Mannington Commercial Technical Services at 800.241.2262 ext. 3 or visit manningtoncommercial.com.