



# Summit International Flooring Olympic Series Vol. 2 Rolls

## Technical Manual **Installation**

Manufactured in the U.S.A.

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Supersedes all previous versions.  
Check website for updates.

### **Installation**

Job Site Conditions	2
Subfloors	2
Subfloor Preparation	2
Storage & Handling	3
Roll Installation	4



## Installation

### I. JOB SITE CONDITIONS

- A. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the flooring should be protected with an appropriate cover.
- B. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65° F (18°C) for 48 hours prior to, during, and after installation.

### II. SUBFLOORS

- A. Olympic Series Rolls may be installed over concrete, Portland-based patching and self-leveling materials, and wood.  
Note: Gypsum based patching and leveling compounds are not acceptable.  
Note: The selected Portland-based patching and self-leveling materials must be moisture resistant and rated to withstand the RH moisture levels on the project.
- B. Wood Subfloors: Wood subfloors should be double construction with a minimum thickness of 1". The floor must be rigid, free from movement, and have at least 18" of well-ventilated air space below.
- C. Underlayments: The preferred underlayment panel is APA underlayment grade plywood, minimum thickness of 1/4", with a fully sanded face.  
Note: Particle board, chip board / OSB, Masonite, and lauan are not suitable underlayments.
- D. Concrete Floors: Concrete shall have a minimum compressive strength of 3000 psi. It must be fully cured and permanently dry.
- E. Radiant heat - Olympic Series rolls are suitable for installation over radiant heat when fully adhered.
  1. Olympic Series rubber flooring has an approx. R-Value of R1 per inch thickness. Check with radiant heat mfr. for suitability. Turn off heat and maintain slab at 65F for 48 hours before, during and 48 hours after installation. 48 hours after installation, bring temperature up gradually. Temperature settings should be within the standards set forth by the radiant heat industry throughout the life of the floor.

### III. SUBFLOOR REQUIREMENTS AND PREPARATION

- A. Subfloor shall be dry, clean, smooth, level, and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.
- B. Subfloor should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to 3/16" (4.8 mm) in 10 feet (3.0 m).
- C. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved cementitious based patching compound.
- D. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved cementitious based patching compound.
- E. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it more than likely will fail in that area. Expansion joint covers designed for resilient floor coverings should be used.
- F. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with adhesive.

**HAZARDS:**

**SILICA WARNING** | Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Respirable crystalline silica (particles 1-10 micrometers) can be produced by cutting, sawing, grinding, or drilling. Respirable silica is classified by OSHA as an IA carcinogen and is known to cause silicosis and other respiratory diseases. Avoid actions that cause dust to become airborne. Use local or general ventilation, or protective equipment, to reduce exposure below applicable exposure limits.

**ASBESTOS WARNING** | Resilient flooring, backing, lining felt, paint, or asphaltic “cutback” adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize. Regulations may require that the material be tested to determine asbestos content. Consult the documents titled, “Recommended Work Practices for Removal of Existing Resilient Floor Coverings,” available from the Resilient Floor Covering Institute.

**LEAD WARNING** | Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication, “Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing,” available from the United States Department of Housing and Urban Development.

- G. Moisture must be measured using the RH Relative Humidity test method per the ASTM F2170 test standard. Moisture content should not exceed the allowable limit of the selected adhesive. The selected Portland-based patching and self-leveling materials must be moisture resistant and rated to withstand the RH moisture levels on the project.

ES-90 - RH limit of 90% - normally selected  
E-Grip 95 - RH limit of 95% - higher RH applications  
E-Grip 99 - RH limit of 99% - highest RH applications

If RH levels exceed the selected adhesive’s RH limit, stop and correct situation.

- H. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.
- I. Perform pH tests on all concrete floors. If greater than the allowable limit of the selected adhesive, neutralize prior to installation.
- J. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3’ x 3’ test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

**IV. Material Storage and Handling**

- A. Material should be delivered to job site in its original, unopened packaging with all labels intact.
- B. Note: Shipping pallets, cradles, banding, etc. are not intended for storage. After 7 days, remove material from shipping pallets, cradles, etc. Rubber roll material should always be stored laying down; Storing rubber rolls on end will curl the edges resulting in permanent memory of the material. All edges with memory curl must be straight edge cut before installation.
- C. Material should only be stored inside on a clean, dry, smooth surface. Rolls should be stored with the end of the roll on top, facing up. The end of the roll should not be positioned against an adjacent roll or surface, or welts may be created on that roll and the roll below.



- D. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all rolls and allow to relax overnight. A bare minimum of two hours is required. Shaking the material once it is unrolled can help it to relax.
- E. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported immediately before beginning installation.
- F. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.
- G. All Olympic Series rolls must be unrolled and installed in consecutive roll number order and in the same direction. Rolls are labeled with batch numbers and roll numbers. Do not mix batch numbers. Note "This Side Down" stamp at the beginning of the roll.
- H. Note: Custom roll lengths eliminate the possibility of rolls being manufactured and numbered in customer's desired installation sequence, and Summit cannot be responsible for any resulting shading issues.

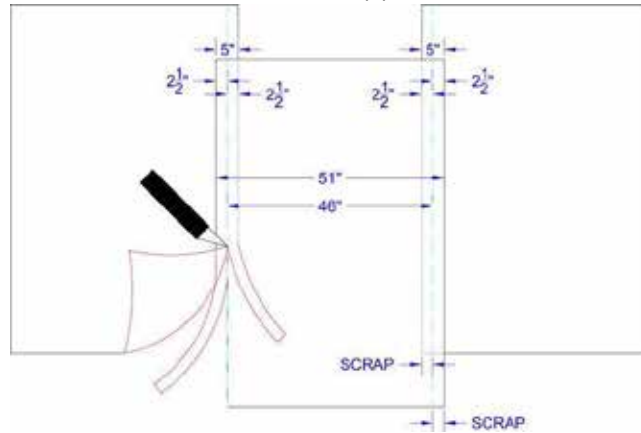
Roll no. 4	Roll no. 7	Roll no. 9	Roll no. 12
Roll no. 3			Roll no. 11
▲	Roll no. 6	Roll no. 8	▲
Roll no. 2	▲	▲	▲
▲	Roll no. 5		Roll no. 10
Roll no. 1		Balance of roll no. 7	▲
	Balance of roll no. 4	▲	Balance of Roll no. 9

- V. INSTALLATION - 3.2mm Rolls only. (For 6mm and thicker Rolls, skip to page 6.)
  - A. Cut the first sheet at the required length, including enough to run up the wall and overlap for seaming at each end.
  - B. Position the first sheet against the wall and square with the room.
  - C. Cut second sheet with proper extra length.
  - D. Position second sheet with required overlap over the first roll at the seam. Each 48" roll must be overlapped by 2" and 51" rolls must be overlapped by 5" minimum. Failure to comply with required overlap could result in shade variance between rolls.
  - E. IMPORTANT - Overlap is dependent upon the width of material provided; see below.
  - F. Repeat for each consecutive sheet for those rolls that will be installed that day.

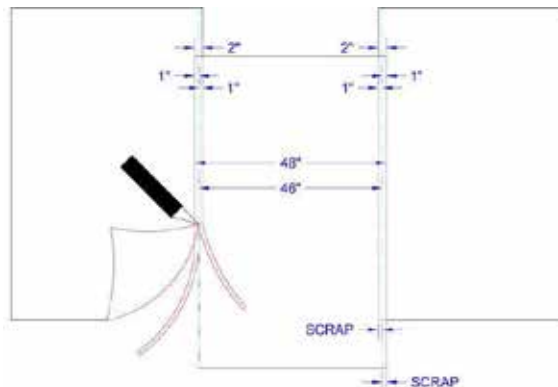


- G. Allow rough cuts to relax in position for 2 hours before double cutting seams and gluing.
- H. SEAMING METHODS 3.2mm only. (For 6mm, 8mm and 9mm skip to Page 6.)
- I. For 3.2mm and thinner: Place a 4" wide scrap of material under the seam area. Using a straight edge and new razor blade, hold the knife straight up and down and cut through both pieces in one cut. PLEASE NOTE THE OVERLAP AND DOUBLE CUT FOR THE 3.2mm PER THE DRAWINGS BELOW:

51" Wide Rolls must be overlapped a minimum of 5"



48" Wide Rolls must be overlapped a minimum of 2"

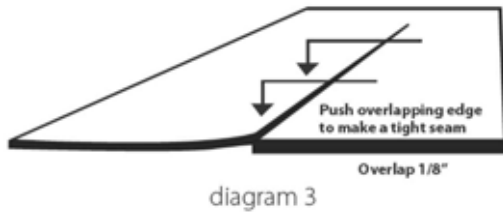


VI. INSTALLATION - Rolls 6mm and thicker material

- A. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow. The chalk line should be set where the first seam will be located.
- B. Remove the flooring from the shrink wrap and unroll it onto the floor. Lay the rubber on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall a few inches.
- C. If end seams are necessary, they should be staggered on the floor and overlapped approximately 3-6". End seams will be trimmed after acclimation period, using a square to ensure they fit tightly without gaps.
- D. Allow the rough cuts to relax in position for a minimum of two hours. 24 hours is preferred.
- E. After allowing the flooring to relax, you may begin the installation.
- F. Align first edge to chalk line. Note: it is very important the first seam is perfectly straight.



- G. Position the second roll with no more than a 1/8" overlap over the first roll at the seam. After adhesive is applied to substrate, the material will be worked back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps.
- H. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.



- I. It may be necessary to trim the edge of the second lineal drop, if the rolls do not extend the length or width of the room. Rolls laid end-to-end with a variance in roll width greater than 1/4" could result in peaked seams.
- J. Repeat for each consecutive sheet necessary to complete the area or those rolls that will be installed that day.

## VII. ADHESIVE APPLICATION

- A. After all above procedures are performed, begin application of adhesive, making sure to use the proper recommended trowel size:
  - 3.2mm - 1/16" x 1/32" x 1/32" U-Notched Trowel
  - 6mm, 8mm and 9mm - 1/16" x 1/16" x 1/16" Square Notched trowel
- B. Fold the first drop lengthwise (half the width of the roll).
- C. Spread adhesive using the proper notched trowel. Take care not to spread more adhesive than can be covered by flooring and rolled within 30 minutes. The open time of the adhesive is 30-40 minutes at 70° F and 50% relative humidity.
- D. Note: The open time of adhesive is affected by temperature and humidity. High temperatures and high humidity will cause the adhesive to set quickly. Low temperatures and low humidity will cause adhesive to cure at a slower rate. The installer should monitor on-site conditions and adjust open time accordingly.
- E. Carefully lay the material into the wet adhesive. DO NOT let the material drop, because this will cause air to be trapped beneath the flooring.
- F. Immediately roll the floor with a 75-pound or 100-pound roller to ensure proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is properly rolled. Roll the width first, then the length. Re-roll again after 30-45 minutes.
- G. Fold over second half of first roll and first half of second roll. Spread adhesive. Spread adhesive at 90 degrees to seam to eliminate excessive adhesive coming up at seam.
- H. In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set.
- I. Continue the process for each consecutive drop. Always work at a pace so you are always folding material back into wet adhesive. **NOTE:** Never leave adhesive ridges or puddles; they will telegraph through the material.



- J. Do not allow adhesive to cure on your hands or the flooring. Cured adhesive is very difficult to remove. We strongly suggest wearing gloves while using adhesives. Immediately wipe off excess adhesive with a rag slightly dampened with mineral spirits or denatured alcohol. Follow with a rag dampened with water.

**NOTE:** Use mineral spirits/ denatured alcohol sparingly. Saturating the rubber may cause darkening and the adhesive to be pushed into the pores of the rubber.

- K. Roll floor with 100 lb. roller to ensure proper transfer of adhesive. Overlap each roller pass by 50% to ensure that floor is properly rolled. Re-roll again after 30-45 minutes.
- L. Hand roll all seams after the entire floor has been rolled. If some seams are gapping, it is possible to hold them together temporarily with blue painter's tape. Tape should be removed after adhesive has developed a firm set (approximately 2-3 hours). Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. Summit International Flooring will not be responsible for residue left behind from tape of any kind.
- M. Keep all foot traffic off the floor for a minimum of 24 hours, heavy loads for 48 hrs. and free from rolling loads for a minimum of 72 hours or risk causing permanent indentations or debonding in the uncured adhesive.