

# INSTALLATION GUIDE

## REFLEX XL



## WHAT YOU NEED

### TOOLS + SUPPLIES

Reflex Underlayment	Reflex Wear Layer
Sport Bond Adhesive	Sport Bond VS Adhesive
Square Notch Trowel 1/16" x 1/16" x 1/16"	V-Notch Trowel 3/32" x 3/32" x 3/32"
Dolly / Cart	Utility Knife + Extra Blades
100 lbs Roller	Straight Edge or T-Square
Bricks	Floor Prep As Needed
Chalk Line	

## RECOMMENDED INSTALL PROCESS

1. Room dimensions are verified + plan is created showing locations + dimensions of all room elements to determine space requirements.
2. Clean, level + prepare the subfloor so it is free of debris + imperfections.
3. Stage the flooring + cut to size
4. Apply adhesive in sections
5. Roll out the reflex underlayment
6. Brick the seams
7. Repeat Steps 2 to 6 with the wear layer



# DELIVERY + UNLOADING

## RECEIVING THE TRUCK

Reflex XL systems will be shipped either floor loaded or palletized, depending on the size of the project. The Reflex rolls will be delivered via a truck with a 53' trailer. Please ensure in advance the receiving area can accommodate a full-sized truck, or if special considerations are required. If you are unable to accept a 53' trailer, please let your Grid project manager know as soon as possible so we can arrange the proper shipment.

- Adhesives + floor prep are always shipped on a pallet to ensure they are not damaged during shipping.
- Use caution when entering the trailer, items may have shifted in transit.

## UNLOADING THE TRUCK

### YOU MUST INSPECT YOUR SHIPMENT PRIOR TO UNLOADING

If you have a loading dock or access to a job-site forklift, unload the loose Reflex with a forklift by spreading the forks to fit in the center of two rolls. Use the forklift to lift up to two rolls at a time. Be careful to place the rolls on even ground or use adhesive buckets or similar heavy items to keep them from rolling away.

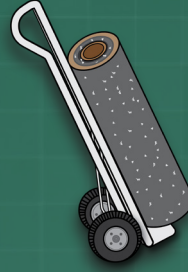
If you do not have access to a forklift, you will need to slide or roll each roll to the back of the truck, being careful not to tear the flooring or the protective plastic. Place at least two people on the ground + two people in the truck. Slide the roll out of the back of the truck + pass it to the crew on the ground. Use a dolly to move the rubber inside.

When you receive your order please follow the instructions below; **Grid will not be responsible for damaged items that have a clear delivery receipt from the freight carrier.**

- Inspect the shipment for any visible damage to the rolls of Reflex. If you find any damages, it must be noted on the delivery paperwork + signed by the driver.
- Count the number of pallets + rolls to verify that you have the correct number as stated on the packing list. Open each box + verify the material has not been damaged. If you are missing any pallets or rolls, please notate that on the delivery paperwork.
- Always accept your shipment even if it is damaged + notate any damage on the freight carrier's delivery receipt, if applicable. List all items that are damaged on the delivery receipt.
- Take photos of any damage + keep a copy of the delivery receipt. Any damaged items + packaging must be kept for the freight company to inspect if needed. Send photos of any damage to your Grid project manager immediately.

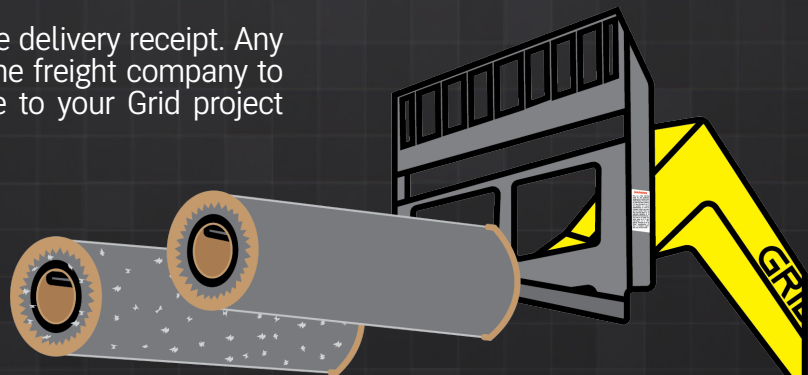
If you find that any items have been damaged in transit + you signed the delivery receipt as damaged materials, contact your Grid project manager at [469] 482-9800 **within 24 hours** of receiving the shipment.

## HANDLING REFLEX ROLLS



Use a dolly to move the rolls to your install site.

Reflex should always be stored laying down. Storing Reflex upright will permanently curl the material.



# BEFORE INSTALLATION

## SUBFLOOR PREPARATION

All subfloors must be dry, clean, smooth, + structurally sound. The surface must be free of all dust, loose particles, solvents, paint, grease, oil, wax, alkali, sealing/curing compounds, old adhesive, + any other foreign material, which could affect the installation + adhesive bond to the substrate. Subfloor contamination or markings that bleed through the flooring material causing discoloration or staining are excluded from the Grid Limited Warranty. All substrate contaminants must be mechanically removed prior to the installation of the flooring material.

Fill all depressions, cracks, + other surface irregularities with a high quality portland cement based underlayment patching compound such as Ardex Feather Finish XF.

Expansion joints in the concrete are designed to allow for expansion + contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.

Always allow the patching materials to dry thoroughly + install according to the manufacturer's instructions. Excessive moisture trapped in patching material may cause bonding problems or a bubbling reaction with the adhesive.

Grid does not recommend installing over existing resilient floors. All existing flooring + adhesives must be mechanically removed prior to installing the new flooring material – **Do not use chemical adhesive removers or solvents.**

## CONCRETE TESTING

Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installation. Maximum moisture vapor emission of the concrete must not exceed 5-1/2 lbs. / 1,000 sq. ft. in a 24-hour period, as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. Alternatively, if the RH method is used, the maximum RH should not exceed 85% RH tested in accordance with ASTM 2710. If the emissions exceed limitations, the installation should not proceed until the problem has been corrected.

PH testing must also be conducted on all concrete floors. If the pH is greater than 9, it must be properly neutralized prior to the installation.

## ADHESIVE TESTING

Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the underlayment with the recommended adhesive + trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring +, when removed, there should be adhesive residue on the subfloor + on the back of the test pieces.

## BEFORE YOU START

**Grid flooring + adhesives must be site conditioned at room temperature for at least 24 hours prior to installation. Room temperature must be maintained between 65°F - 85°F + the ambient relative humidity must be between 40% - 60%. We strongly recommend the permanent HVAC system be fully operating prior to install.**



# UNDERLAYMENT INSTALLATION

## DETERMINE YOUR LAYOUT

Use your provided color key code to identify the recommended roll direction for your Reflex XL install. The roll direction shown on the color key code is for the wear layer. Rotate your underlayment perpendicular to the direction shown on the color key code. Assume that the walls in your space are not square or straight. Using a chalk line, mark a straight line across the floor to act as your starting point.

## LAY OUT THE UNDERLAYMENT

Place each roll approximately where it will be installed. Remove the underlayment rubber from the plastic + cardboard packaging + unroll the material. All underlayment rolls should be unrolled + installed in the same direction. Ensure you are utilizing the correct materials + adhesives for each layer of the system.

- Place the edge of the first roll along the chalk line.
- Position the second roll with no more than a 1/16 inch overlap over the first roll at the seam. Work the material back to eliminate the overlap.  
*This procedure will leave tight seams + eliminate any gaps.*
- Repeat for each consecutive roll necessary to complete the area or those rolls that will be installed that day.
- Make cuts as needed, leaving at least six inches of extra material at the end of each run.

### TIP FROM THE PROS

Adjust each roll to minimize the total number of cuts that need to be made during the install process. Fewer cuts will result in a cleaner install.

*Grid does not recommend using small off-cuts to complete a run. Try to use complete rolls when possible.*

Allow the rolls to relax for a minimum of two hours before proceeding with the installation. 24 hours is preferred.

## GLUE + ROLL THE RUBBER

After laying out your entire installation area, begin applying Grid Sportbond adhesive.

- Fold over the first roll [half the length of the roll], using caution not to shift the other half of the roll.
- Spread the adhesive using a 1/16" x 1/16" x 1/16" [width x depth x spacing] square-notched trowel. Spread the adhesive at right angles to the seams to minimize adhesive rising through the seams. Do not spread more adhesive than you can cover within the working time.  
*The average working time for Grid Sportbond is about 30-40 minutes.*
- Lay the flooring into the wet adhesive. Make sure you do not drop the flooring into the adhesive as this will cause air bubbles beneath the rubber.
- Immediately after laying down the flooring, pass over the freshly glued section with a 100 lb. roller to ensure proper adhesion. Overlap each pass by 50% to ensure the floor is thoroughly rolled.

### TROWEL GUIDE



1/16" x 1/16" x 1/16"  
Square-Notch

Fold over the second half of the first roll + apply the adhesive as described above.

Continue this process for the remaining rolls. Make sure to only spread as much adhesive as you are able to cover + roll within the working time.

## TIPS + TRICKS

- Do not leave any ridges or puddles in the adhesive. These will not disappear when the adhesive dries and will telegraph through the top of the flooring.
- Do not let the adhesive dry on top of the flooring or on your hands. Use a rag dipped in denatured alcohol to remove wet adhesive immediately.
- If gaps develop between rolls as you are installing the flooring, temporarily hold them together with masking tape while the adhesive dries. Make sure you remove the tape within 12 hours of applying or the risk of tape residue may exist.

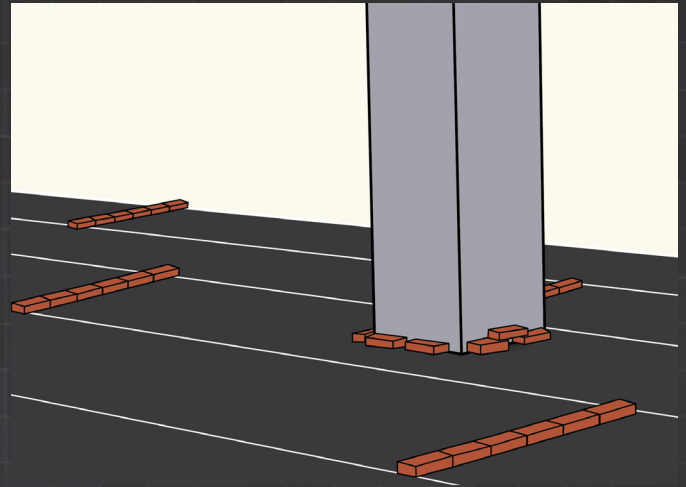
## BRICK THE SEAMS

Once you complete gluing + rolling out a section of the installation area you need to apply bricks or weights to the seams.

Apply bricks at every head seam [short edge] + as needed for each side seam.

This will prevent the rolls from curling + separating while the adhesive cures.

Leave the bricks on the seams for a minimum of 24 hours



## WEAR LAYER INSTALLATION

### SURFACE PREP

Remove any bricks + tape still remaining from the underlayment installation. Set the bricks aside for later. Sweep the underlayment to remove any loose dust and debris. The underlayment must be dry + free from all foreign objects before installing the wear layer. Any dust or debris left behind will telegraph through the wear layer and can cause the system to delaminate.

### DETERMINE YOUR LAYOUT

The wear layer must be installed perpendicular [90° angle] to the underlayment to ensure the seams are not aligned. Just as you did with the underlayment, assume your walls are not square. Use a chalk line to mark a starting line across the underlayment.

### LAY OUT THE WEAR LAYER

Place each roll approximately where it will be installed. Remove the wear layer rubber from the plastic + cardboard packaging + unroll the material. All wear layer rolls must be unrolled + installed in the same direction. Laying rolls in the opposite direction will cause color variations between the rolls. Ensure you are utilizing the correct materials + adhesives for each layer of the system and that your wear layer is perpendicular to your underlayment.



- Place the edge of the first wear layer roll along the chalk line.
- Position the second roll with no more than a 1/16 inch overlap over the first roll at the seam. Work the material back to eliminate the overlap.  
*This procedure will leave tight seams + eliminate any gaps.*
- Repeat for each consecutive roll necessary to complete the area or those rolls that will be installed that day.
- Make cuts as needed, leaving at least six inches of extra material at the end of each run.

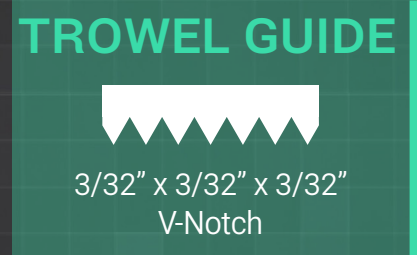
*Grid does not recommend using small off-cuts to complete a run. Try to use complete rolls when possible.*

Allow the rolls to relax for a minimum of two hours before proceeding with the installation. 24 hours is preferred.

## **GLUE + ROLL THE RUBBER**

After laying out your entire installation area, begin applying Grid Sportbond VS adhesive.

- Fold over the first roll [half the length of the roll], using caution not to shift the other half of the roll.
- Spread the adhesive using a 3/32" x 3/32" x 3/32" v-notched trowel. Spread the adhesive at right angles to the seams to minimize adhesive rising through the seams. Do not spread more adhesive than you can cover within the working time.  
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- Immediately after laying down the flooring, pass over the freshly glued section with a 100 lb. roller to ensure proper adhesion. Overlap each pass by 50% to ensure the floor is thoroughly rolled.



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# POST INSTALLATION

## TRAFFIC LIMITATIONS

Minimize foot traffic for 24 hours after you complete the installation. Foot traffic + rolling loads can cause permanent indentations in the uncured adhesive. Foot traffic immediately after install can leave permanent imprints in the flooring.

*Check the label on your adhesive to verify the cure time.*

Even after the adhesive is cured, minimize heavy rolling loads. Construction equipment or other heavy loads such as pallet jacks and + can cause lasting indentations or other damage to rubber flooring.

## APPLY FLOOR PROTECTION

After the adhesive is cured, apply flooring protection to the Reflex flooring for the duration of construction. Construction dust + small debris may be difficult to remove without a floor scrubbing system.

