



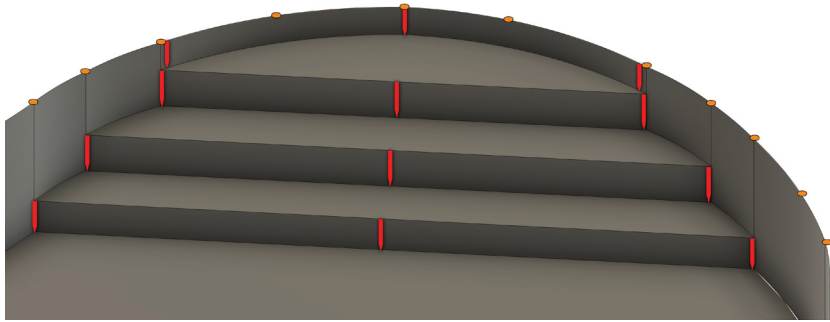
GENERAL MEASURING GUIDELINES FOR ALL POOL SHAPES

- Measuring a pool will be easier if you have another person helping you.
- Draining the pool will also make the process of measuring your pool easier; however, it is not always necessary, as many pools can be measured with water in them.
- Never assume a pool is standard. All pools are different. Most importantly, measure the pool for an exact fit. Actual pool measurements should be made even if original pool plans are available, due to the fact that slight variances may have occurred during construction.
- When measuring pools, do not make allowances for weather conditions, temperature, or the fact that vinyl shrinks and expands. These calculations are made when the new liner is designed.
- Supply all measurements in feet and inches with appropriate marks (' and "), rounding up to the nearest quarter-inch on liner-covered features, such as steps, ledges, and benches. Round up to the nearest half-inch on all other measurements. **Good Example: 17' 11 1/2"** - **Bad Example: 17.5**
- Follow the "step-by-step" measuring instructions carefully, referring to all diagrams to ensure accurate measurements.
- Remember to include your name, pool location address, phone and fax numbers, and email address on each page that you send to Doughboy Vinyl Technologies. You must also sign off on an approval drawing of the liner before we can begin building the liner.
- Remember to record all of your measurements and place them in the proper lines/boxes on the proper form(s). You may need to transfer measurements you have made on the "MEASURING INSTRUCTIONS" pages onto the actual measuring form.
- Write your measurements legibly, using BLACK INK. (NO PENCIL OR FELT-TIP MARKER, PLEASE!) Make copies of all pages for your records before sending them to us. Scan and send documents as PDF, and send pictures as necessary. You will need to refer to your copies if we have questions regarding your measurements.
- When in doubt, give us a call at (731) 345-4500.

DISCOVER THE DOUGHBOY DIFFERENCE

LINER-COVERED STEPS

Either internal or external, the most common liner-covered feature for entering and exiting the pool is a set of steps. Like a staircase, they have risers, treads, and tread widths. In-ground steps, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

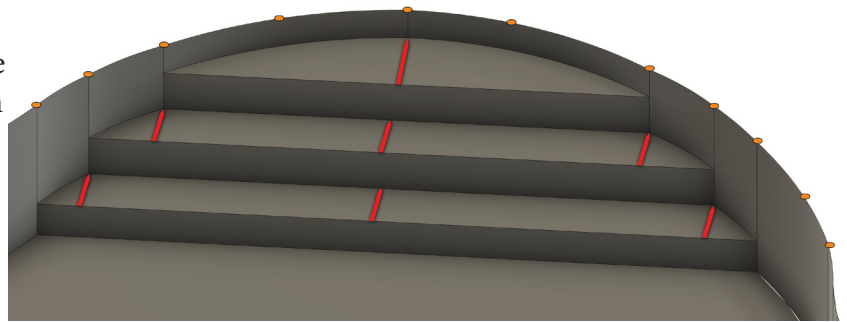


MEASURE THE RISERS.

Risers are the vertical distance from the bead track opening down to the first horizontal surface, or the top of one horizontal surface down to the top of the next surface. Measure the vertical plane in three locations for risers: both ends, as well as the middle of the step. Ensure the risers add up to the wall height ordered. The top step riser is often less than the remaining risers, due to the decking and coping involved.

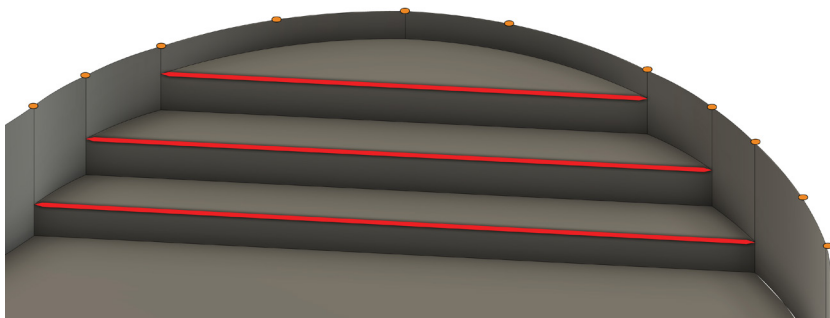
MEASURE THE TREADS.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for treads when available: at the base of the step above and the middle of the step. Tread length can vary on a single step for a variety of reasons, and is critical information for the liner's design and fitment.



MEASURE THE TREAD WIDTHS.

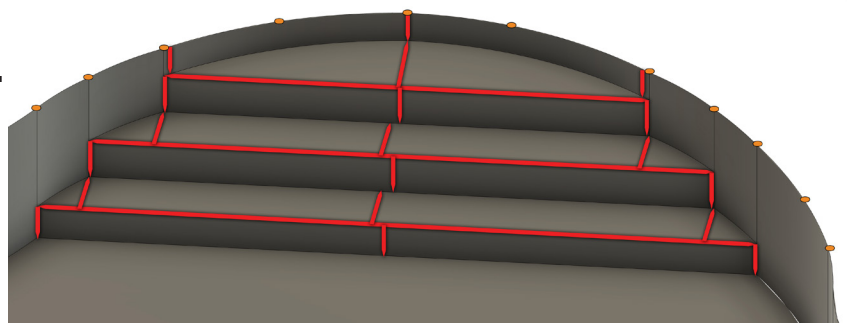
Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner's design. If the tread is radiused, or rounded, see the radiused step measuring guide.



Verify all measurements are recorded on a pool sketch or grid.

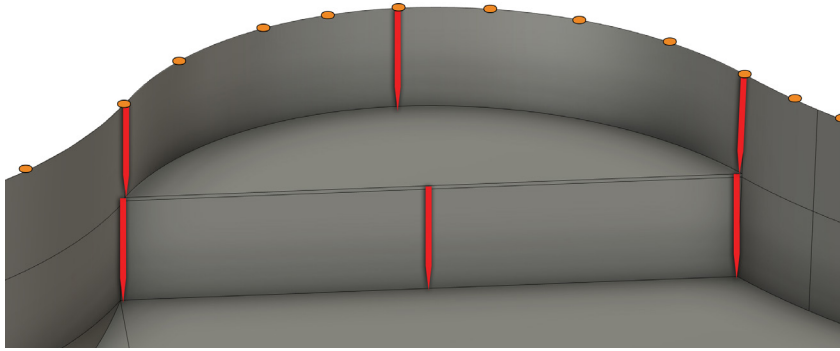
Notate if the liner has bead track or rod pockets.

Orange dots on the images above illustrate AB points necessary for the liner's design.



LINER-COVERED BENCH

Also internal or external, A common liner-covered feature for entering and exiting the pool is a bench, often referred to as a cuddle-cove, swim-out, or rest station. Like steps, they have risers, treads, and tread widths. In-ground benches, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

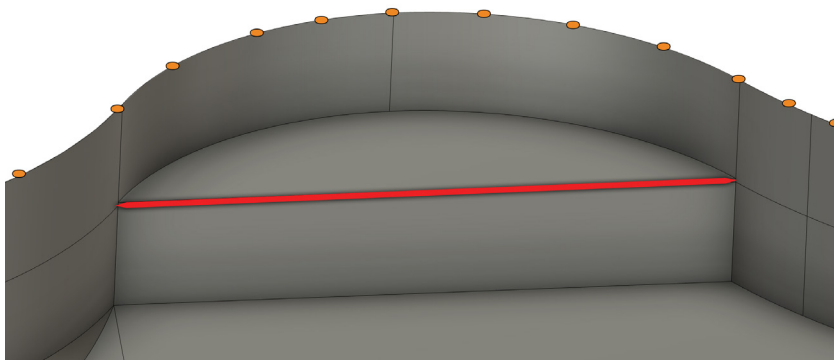
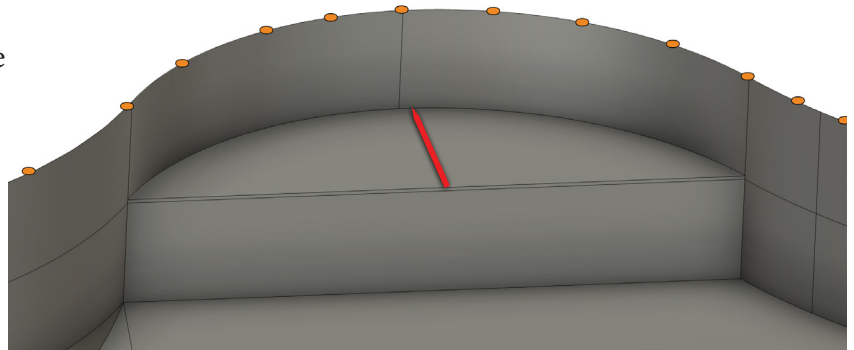


MEASURE THE RISERS.

Risers are the vertical distance from the bead track down to the first horizontal surface, and then down to the pool floor surface. Measure the vertical plane in three locations for risers: both ends, and the middle of the bench. Ensure the risers add up to the wall height ordered.

MEASURE THE TREAD.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. Freeform benches typically yield one measurement useful for design, as seen in the illustration.



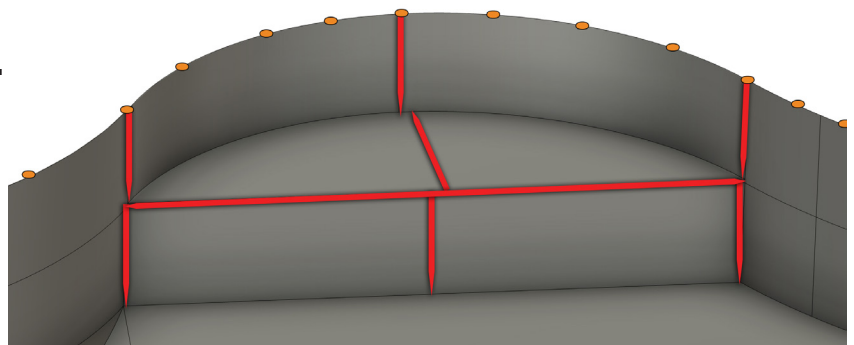
MEASURE THE TREAD WIDTH.

Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner's design.

Verify all measurements are recorded on a pool sketch or grid.

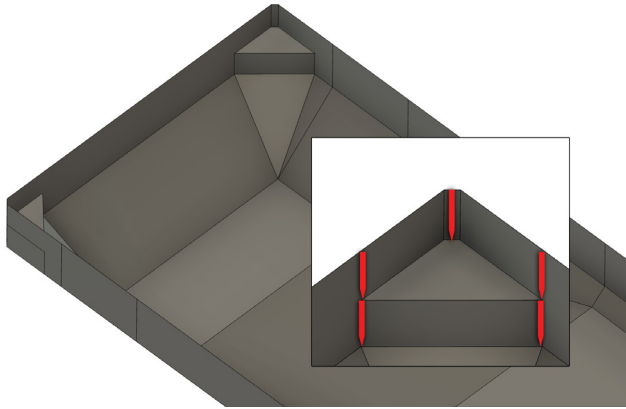
Notate if the liner has Bead track or rod pockets.

Orange dots on the images above illustrate AB points necessary for the liner's design.



LINER-COVERED CORNER BENCH

An increasingly popular liner-covered feature for entering and exiting the pool is a corner bench, and can be referred to as a cuddle-cove, swim-out, or rest station. Like steps, they have risers, treads, and tread widths. In-ground benches, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

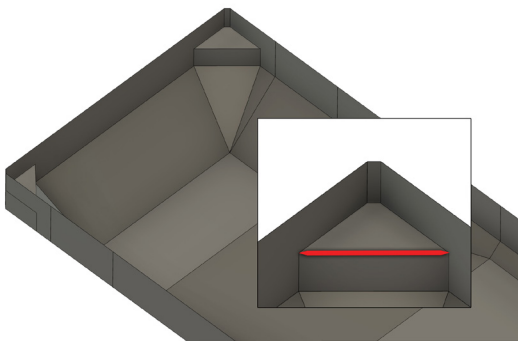
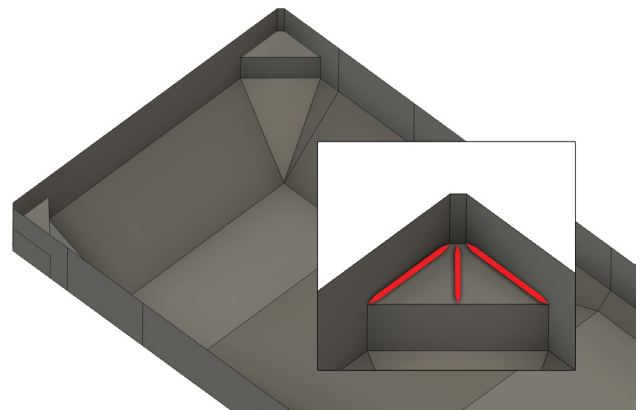


MEASURE THE RISERS.

Risers are the vertical distance from the bead track down to the first horizontal surface, and then down to the pool floor surface level. Measure the vertical plane in three locations for risers: both ends, and the middle of the bench. Ensure the risers add up to the wall height ordered.

MEASURE THE TREAD.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. In the illustration provided, additional measurements should be taken along the straight wall to each corner.

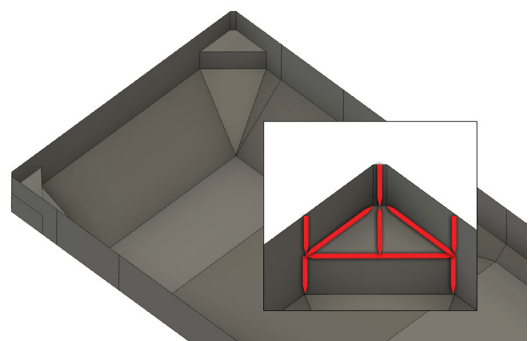


MEASURE THE TREAD WIDTH.

Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner's design.

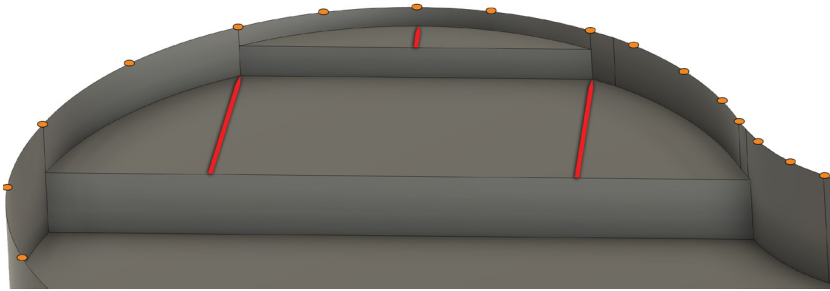
Verify all measurements are recorded on a pool sketch or grid.

Notate if the liner has Bead track or rod pockets.



LINER-COVERED STEP/LEDGE

Internal or external, A common liner-covered feature for entering and exiting the pool is a step/ledge combo, and may include additional steps below the ledge, or the ledge may be the first tread into the water. They have risers, treads, and tread widths. In-ground features, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

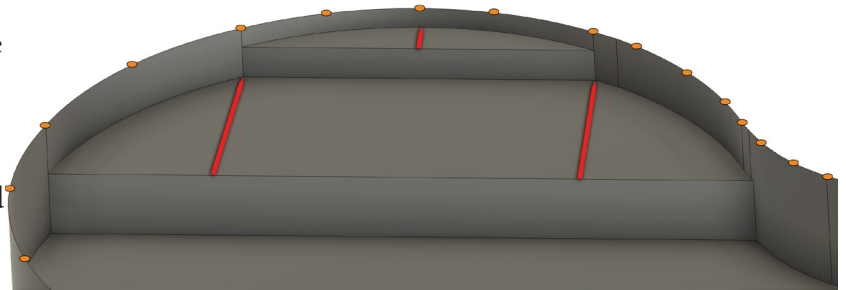


MEASURE THE RISERS.

Risers are the vertical distance from the bead track opening down to the first horizontal surface, or the top of one horizontal surface down to the top of the next surface. Measure the vertical plane in three locations for risers: both ends, and the middle of the bench. Ensure the risers add up to the wall height ordered.

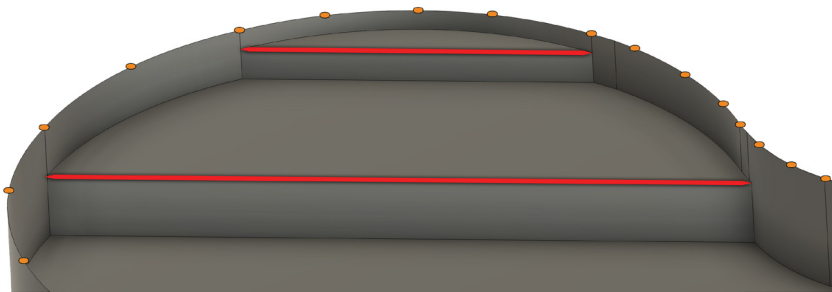
MEASURE THE TREADS.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. In the illustration provided, measurements should be taken from one location on the top step, and at least two locations on the ledge below.



MEASURE THE TREAD WIDTHS.

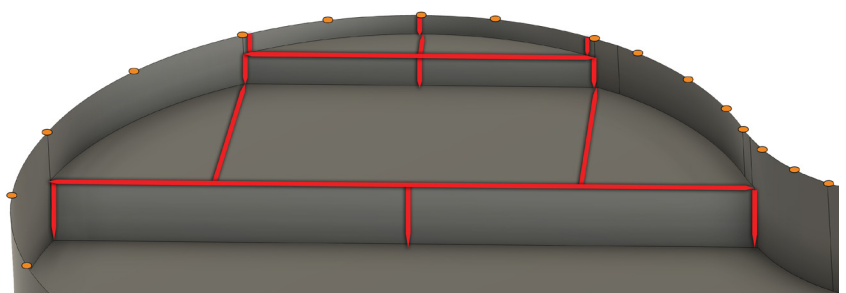
Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner's design.



Verify all measurements are recorded on a pool sketch or grid.

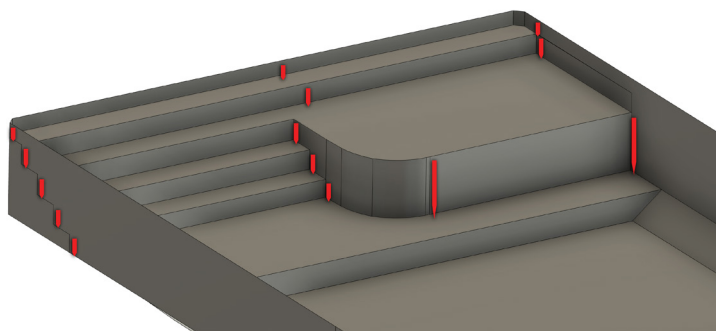
Notate if the liner has Bead track or rod pockets.

Orange dots on the images above illustrate AB points necessary for the liner's design.



LINER-COVERED STEP/LEDGE COMBO

A relatively common liner-covered feature for entering and exiting the pool is a step/ledge combination, and vary in design. They have a multitude of risers, treads, and tread widths. In-ground step/ledge combinations, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

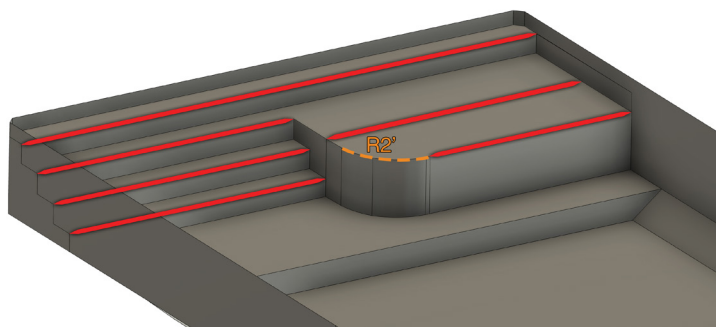
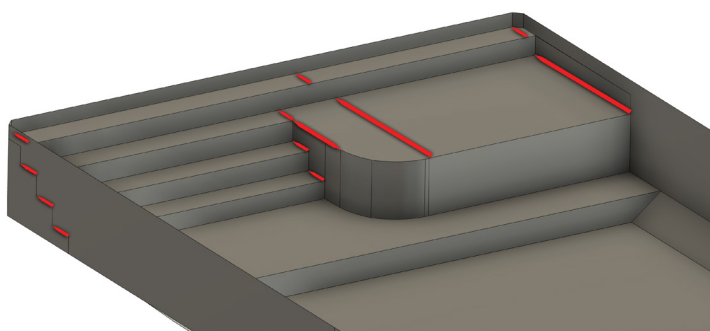


MEASURE THE RISERS.

Risers are the vertical distance from the bead track opening down to the first horizontal surface, or the top of one horizontal surface down to the top of the next surface. Measure the vertical plane in three locations for risers: both ends, and the middle of the bench. Ensure the risers add up to the wall height ordered.

MEASURE THE TREADS.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. In the illustration provided, a radiused tread is included, and the remaining straight should be provided.

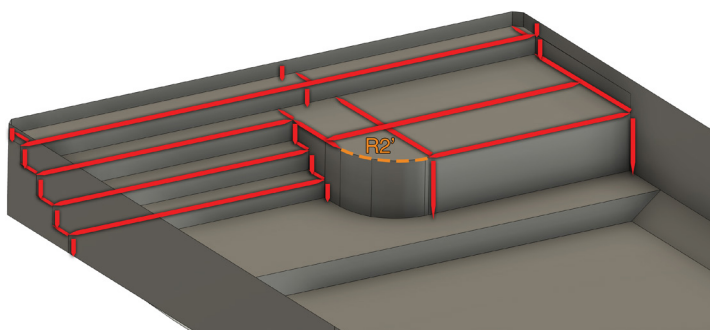


MEASURE THE TREAD WIDTH.

Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner's design. In the illustration provided, a radiused tread is included, and the remaining straight should be provided.

Verify all measurements are recorded on a pool sketch or grid.

Notate if the liner has Bead track or rod pockets.

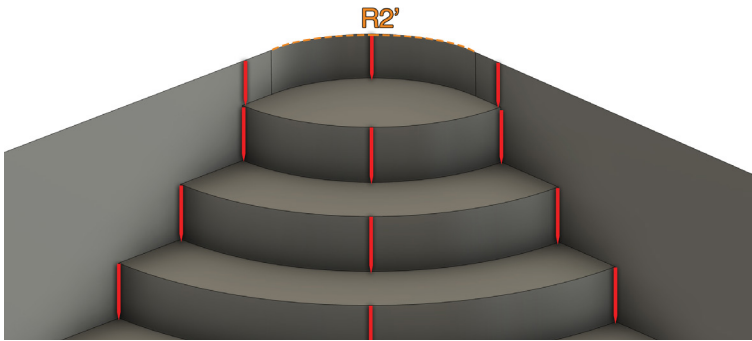


RADIUSED TREAD STEPS

A relatively common liner-covered feature for entering and exiting the pool is a set of radiused tread steps, often referred to as a “wedding cake” steps. They have risers, treads, and tread widths. In-ground steps, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner’s design.

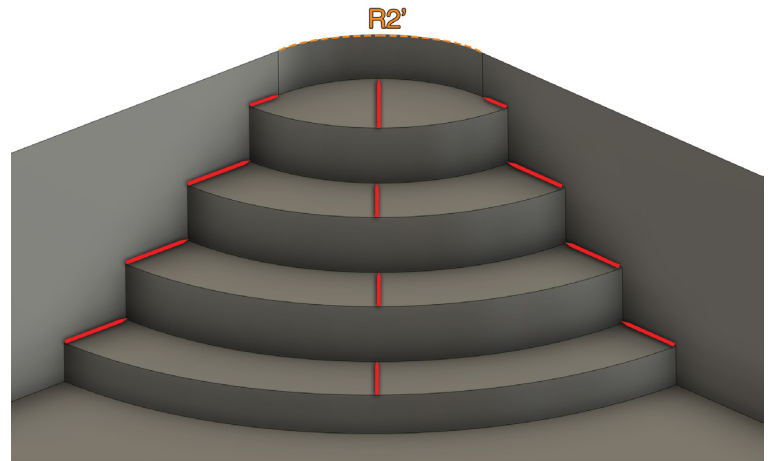
MEASURE THE RISERS.

Risers are the vertical distance from the bead track opening down to the first horizontal surface, or the top of one horizontal surface down to the top of the next surface. Measure the vertical plane in three locations for risers: both ends, and the middle of the steps. Ensure the risers add up to the wall height ordered.



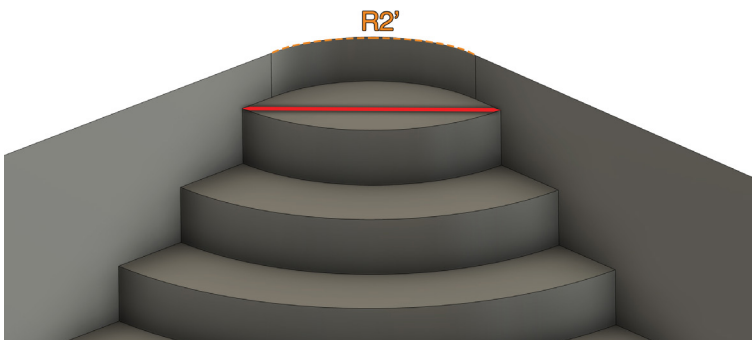
MEASURE THE TREADS.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. In the illustration provided, there are also straights at the end of the 2' radius corner that are critical in designing the liner to fit properly.



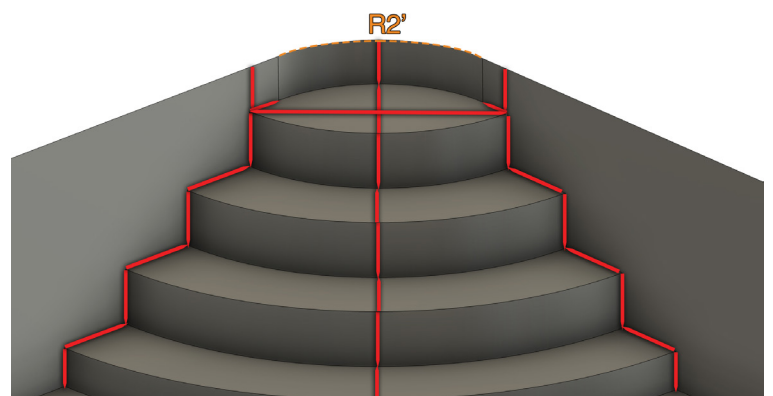
MEASURE THE TREAD WIDTH.

Tread widths are the horizontal edge of the step. Measure the horizontal plane from end to end for each step. Tread widths are often overlooked, but ensure accuracy of the liner’s design. In the illustration provided, the top step can be measured to ensure accuracy. The remaining steps may not be as easily measured, but will provide additional information that can aid the liner’s design.



Verify all measurements are recorded on a pool sketch or grid.

Notate if the liner has Bead track or rod pockets.

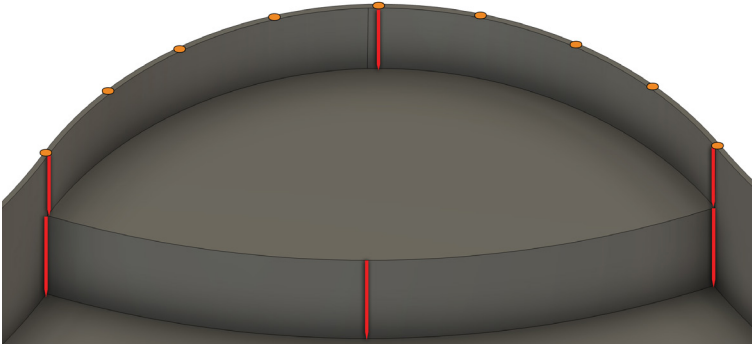


RADIUSED TREAD LEDGE

Also internal or external, A common liner-covered feature for entering and exiting the pool is a radiused tread ledge, often referred to as a swim-out or rest station. They have risers, treads, and tread widths. In-ground ledges, whether steel or concrete, often settle unevenly, and additional measurements should be taken into account for the liner's design.

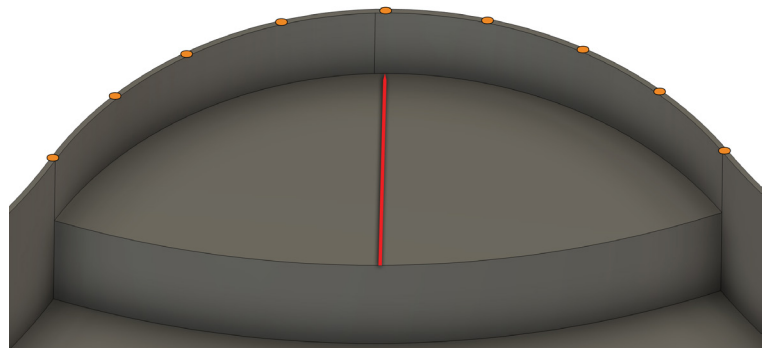
MEASURE THE RISERS.

Risers are the vertical distance from the bead track down to the first horizontal surface, and then down to the pool floor surface. Measure the vertical plane in three locations for risers: both ends, and the middle of the ledge. Ensure the risers add up to the wall height ordered.



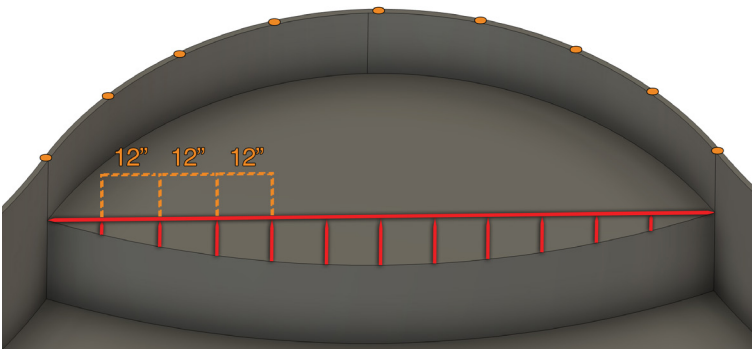
MEASURE THE TREADS.

Treads are the horizontal surface you step on. Measure the horizontal plane in three locations for risers when available: at the end of a radius corner and the middle of the step. Freeform benches typically yield one measurement useful for design, as seen in the illustration.



MEASURE THE TREAD WIDTH.

Tread widths are the horizontal edge of the step. Measure the straight horizontal plane from end to end for each tread, and provide incremental measurements from the straight line to the edge of the tread. In the illustration provided, increments are measured every 12", but complexity in shape may dictate smaller increments. These measurements are required to ensure accuracy of the liner's design.



Verify all measurements are recorded on a pool sketch or grid.

Notate if the liner has Bead track or rod pockets.

Orange dots on the images above illustrate AB points necessary for the liner's design.

