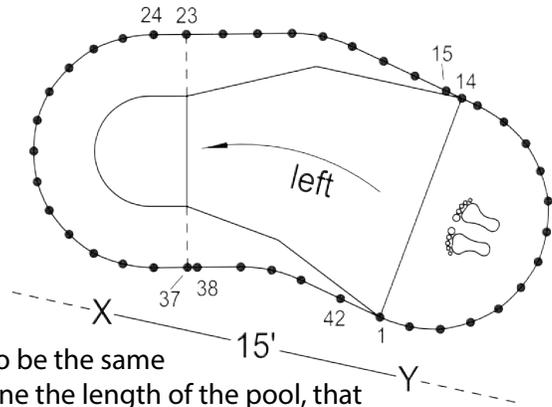


PoolWarehouse

POINT-TO-POINT Order Form Procedure Read This Entire Sheet Before Starting!

A Point-to-Point is a very easy and a relatively quick way (usually less than 1 hour) to define the shape of a pool. It is used to get accurate dimensions of an odd-shaped pool, such as a kidney, mountain lake, or other free forms. Point-to-Points can also be used on simple pools like rectangles that might be out of square. There is no limit to the size or shape of a pool that can be measured with a Point-to-Point. Read the following steps completely before doing the Point-to-Point.



Locate X and Y points:

Locate two points, approx. 15' apart (not less than 10' apart). These two points will be referred to as "X" and "Y". The X and Y points need to be the same distance from the pool edge, at least 3'. When drawing an imaginary line the length of the pool, that line should not cross over the perimeter of the pool edge.

Mark points around the pool:

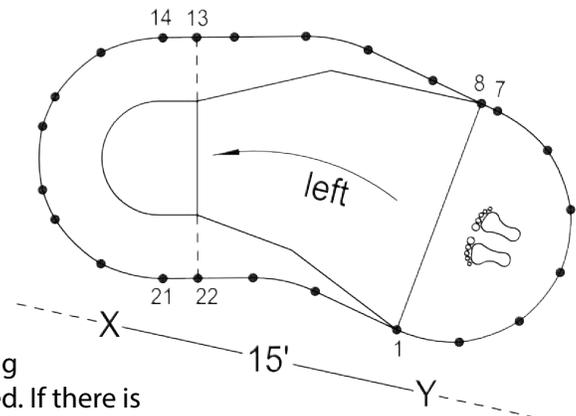
Next, using a pencil, go around the perimeter of the pool making a mark on the coping every 2'. We recommend starting at one side of the shallow end break with Point 1, then proceed marking the points around the perimeter of the pool edge. Points can be less than 2' apart, but not more. It is helpful to number the marks on the coping; this will help prevent any confusion while recording measurements. While making marks along the coping, look for the shallow end and deep end breaks. If a mark is close to a break line, go ahead and place the next mark at the break line. Be sure to note these points on the order form provided for Shallow End and Deep End Break. Notice that points 14, 23 and 37 on the pool diagram above were adjusted to fall on the break lines.

Measuring the points:

Place the end of the measuring tape at point X and record the distance to each mark around the pool edge on the order form provided starting at point 1. Next, place the end of the measuring tape at point Y and record the distance to each mark around the pool edge starting with point 1. All points on the perimeter of the pool will have two measurements, one to the X point and one to the Y point. After finishing with the points around the perimeter, measure the shallow end and deep end depths measuring from the bead track. Next, measure the back and side slopes around the hopper, length and width of the hopper pad, length of slope and length of shallow end as you would any other pool. If the pool has water in it, measuring the hopper dimensions can be done by using a long pole (usually a telepole). With someone holding the pole straight up in the pool, someone else can measure the distance from the pool edge to the pole.

*For Homeowners who have Hydra Pools:

It is not necessary to mark a point every 2' unless you or your builder has changed the dig specs dramatically. Instead make your marks at each panel joint around the perimeter of the pool. Being the manufacturers, Hydra can determine the individual panel characteristics. Also, it will be necessary to measure to the break lines as described above.



Sketching the layout:

After finishing with all the measurements, draw a clear sketch showing the general shape of the pool and where the X and Y points are located. If there is a step, indicate if it is curved or a straight step and sketch the hopper and slope. It is recommended that if the slope curves, or does not follow the normal contour of the pool, to get the dimension of the side slope halfway down the length of the slope. This will help our designers determine the shape of the slope.

NOTE: If a pool is directional, you must specify the direction on the order form. At Hydra Pools, we determine the direction the pool turns (left or right) by standing in the shallow end and looking towards the deep end.

PoolWarehouse

1-800-515-1747 FAX: 888-491-1236
sales@poolwarehouse.com

PLEASE RETURN THIS FORM VIA EMAIL OR FAX.

Point-to-Point Order Form

CUSTOMER IS RESPONSIBLE FOR THE PROPER FIT!

By the submission of this order the below named corporation and individual hereby authorize PWH and HYDRA POOLS to manufacture as a special order, a vinyl liner for an in-ground pool in accordance with the design and specifications which have been provided here within, and hereby acknowledge that PWH and HYDRA POOLS has not participated in either the design or formation of this liner and accepts full responsibility for the same, and further agrees to hold PWH and HYDRA POOLS harmless, that is, the below named corporation will pay in full or for any and all claims and expenses that may arise out of the design or use of this special liner.

Distance Between X & Y	<input type="text"/> ft <input type="text"/> in	Shallow End Length	<input type="text"/> ft <input type="text"/> in
Reference Name	<input type="text"/>	Slope Length	<input type="text"/> ft <input type="text"/> in
Overall Length	<input type="text"/> ft <input type="text"/> in	Hopper Length	<input type="text"/> ft <input type="text"/> in
Shallow End Width	<input type="text"/> ft <input type="text"/> in	Hopper Width	<input type="text"/> ft <input type="text"/> in
Deep End Width	<input type="text"/> ft <input type="text"/> in	Back Slope Length	<input type="text"/> ft <input type="text"/> in
Shallow End Depth	<input type="text"/> ft <input type="text"/> in	Side Slope Length	<input type="text"/> ft <input type="text"/> in
Deep End Depth	<input type="text"/> ft <input type="text"/> in		

Reference Measurements:

Point <input type="text"/>	to Point <input type="text"/>	:	<input type="text"/>
Point <input type="text"/>	to Point <input type="text"/>	:	<input type="text"/>
Point <input type="text"/>	to Point <input type="text"/>	:	<input type="text"/>
Point <input type="text"/>	to Point <input type="text"/>	:	<input type="text"/>

Shallow End Break Points:

Point to Point :

Deep End Break Points:

Point to Point :

Name:

Address:

City: State:

Zip: Phone:

E-Mail:

SHIPPING INSTRUCTIONS

Name:

Address:

City: State:

Zip: Phone:

E-Mail:

Mark Box:

X MEASUREMENTS

01	<input type="text"/> ft <input type="text"/> in	21	<input type="text"/> ft <input type="text"/> in	41	<input type="text"/> ft <input type="text"/> in
02	<input type="text"/> ft <input type="text"/> in	22	<input type="text"/> ft <input type="text"/> in	42	<input type="text"/> ft <input type="text"/> in
03	<input type="text"/> ft <input type="text"/> in	23	<input type="text"/> ft <input type="text"/> in	43	<input type="text"/> ft <input type="text"/> in
04	<input type="text"/> ft <input type="text"/> in	24	<input type="text"/> ft <input type="text"/> in	44	<input type="text"/> ft <input type="text"/> in
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09	<input type="text"/> ft <input type="text"/> in	29	<input type="text"/> ft <input type="text"/> in	49	<input type="text"/> ft <input type="text"/> in
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16	<input type="text"/> ft <input type="text"/> in	36	<input type="text"/> ft <input type="text"/> in	56	<input type="text"/> ft <input type="text"/> in
17	<input type="text"/> ft <input type="text"/> in	37	<input type="text"/> ft <input type="text"/> in	57	<input type="text"/> ft <input type="text"/> in
18	<input type="text"/> ft <input type="text"/> in	38	<input type="text"/> ft <input type="text"/> in	58	<input type="text"/> ft <input type="text"/> in
19	<input type="text"/> ft <input type="text"/> in	39	<input type="text"/> ft <input type="text"/> in	59	<input type="text"/> ft <input type="text"/> in
20	<input type="text"/> ft <input type="text"/> in	40	<input type="text"/> ft <input type="text"/> in	60	<input type="text"/> ft <input type="text"/> in

Y MEASUREMENTS

01	<input type="text"/> ft <input type="text"/> in	21	<input type="text"/> ft <input type="text"/> in	41	<input type="text"/> ft <input type="text"/> in
02	<input type="text"/> ft <input type="text"/> in	22	<input type="text"/> ft <input type="text"/> in	42	<input type="text"/> ft <input type="text"/> in
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07	<input type="text"/> ft <input type="text"/> in	27	<input type="text"/> ft <input type="text"/> in	47	<input type="text"/> ft <input type="text"/> in
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12	<input type="text"/> ft <input type="text"/> in	32	<input type="text"/> ft <input type="text"/> in	52	<input type="text"/> ft <input type="text"/> in
13	<input type="text"/> ft <input type="text"/> in	33	<input type="text"/> ft <input type="text"/> in	53	<input type="text"/> ft <input type="text"/> in
14	<input type="text"/> ft <input type="text"/> in	34	<input type="text"/> ft <input type="text"/> in	54	<input type="text"/> ft <input type="text"/> in
15	<input type="text"/> ft <input type="text"/> in	35	<input type="text"/> ft <input type="text"/> in	55	<input type="text"/> ft <input type="text"/> in
16	<input type="text"/> ft <input type="text"/> in	36	<input type="text"/> ft <input type="text"/> in	56	<input type="text"/> ft <input type="text"/> in
17	<input type="text"/> ft <input type="text"/> in	37	<input type="text"/> ft <input type="text"/> in	57	<input type="text"/> ft <input type="text"/> in
18	<input type="text"/> ft <input type="text"/> in	38	<input type="text"/> ft <input type="text"/> in	58	<input type="text"/> ft <input type="text"/> in
19	<input type="text"/> ft <input type="text"/> in	39	<input type="text"/> ft <input type="text"/> in	59	<input type="text"/> ft <input type="text"/> in
20	<input type="text"/> ft <input type="text"/> in	40	<input type="text"/> ft <input type="text"/> in	60	<input type="text"/> ft <input type="text"/> in

NOTES

SOME POOLS ARE NOT BUILT TO MANUFACTURERS SPECS. IT IS IMPORTANT THAT YOU VERIFY THE DIMENSIONS

Hydra Pools, Inc. (hereafter "Hydra Pools") and its authorized distributors and dealers, as part of the swimming pool industry, encourage pool safety to prevent the risk of a pool owner, family member, or guest from suffering a severe or paralyzing injury or loss of life due to diving, jumping, or sliding into swimming pool water of any depth, particularly into shallow water. The dealer or contractor who installs your liner is an independent contractor and is not an agent of the manufacturer. Proper installation is the responsibility of the dealer/builder/contractor. Hydra Pools will produce the liner according to the dimensions, including water depth, you have provided only upon the following conditions. The undersigned pool owner recognizes that the pool design, depth, and dimensions pool owner has selected may not conform to some or all pool industry standards and may be a nonconforming type, and pool owner agrees: 1. To permanently remove any diving board if it exists prior to the installation of this liner. 2. To relocate any sliding board if necessary, prior to installation of this liner. 3. To defend, indemnify and hold Hydra Pools and its distributors and dealers harmless from any claims by anyone arising from injuries that may occur from the use of the pool containing this liner; 4. To prohibit those using the pool from head-first diving or sliding into the pool, and 5. In addition to abiding by the conditions above, pool owner will not allow use of the pool by unsupervised minors, persons who might be impaired, or anyone, including guests, which is inconsistent with this warning.

I UNDERSTAND THE ABOVE WARNING AND REQUIREMENTS, CERTIFY THAT I WILL ABIDE BY ALL CONDITIONS HERETO, AND REQUEST THAT HYDRA POOLS PRODUCE THIS LINER AS ORDERED.

YOU MUST SIGN, DATE, AND RETURN THIS FORM WITHIN 2 BUSINESS DAYS OR IT WILL NOT BE PROCESSED. POOL OWNER SIGNATURE

DATE

PoolWarehouse

HOW TO MEASURE YOUR POOL FOR AN INGROUND LINER

Measuring without entering the pool:

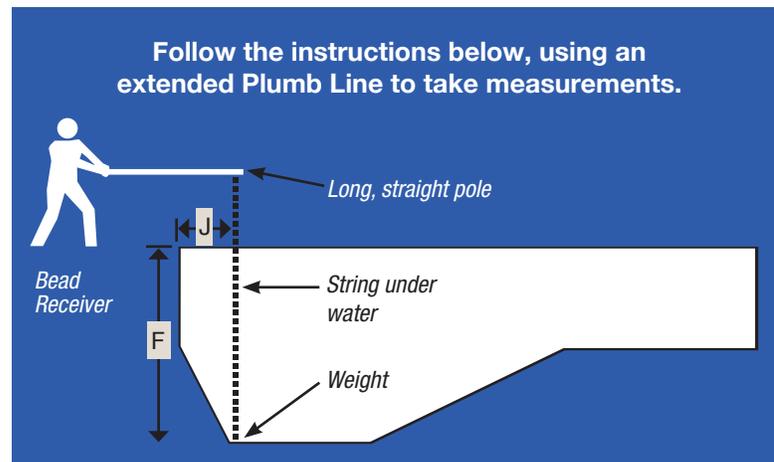
You will be able to measure **horizontally**, all of the bottom dimensions without entering or draining the pool. You can create your own simple measuring tool (an extended Plumb Line) that will take about 5 minutes to assemble and is used by pool professionals taking liner measurements.

Create an extended Plumb Line.

You will Need:

- Long straight pole (Vac Pole).
- String attached to end of pole
- Weight to attach to end of string
- Measuring tape

Hint: Measuring is always easier with someone to help. Only measure down to the nearest 1/4 of an inch.



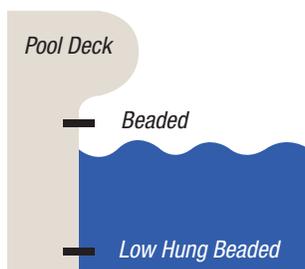
Horizontal Bottom Measurements:

You should “Plumb” for points that will achieve the desired measurements based on the bottom contour of the pool. To take measurement “F,” you would stand on one side of the pool and “Plumb” for a corner of the hopper, measuring the distance from the bead receiver to the end of where the weight is attached. To take measurement “J,” stand with the pole over the edge of the pool and the string vertical (allow no slack in the string), measure the distance from the edge of the pool to the end of the pole where the string is attached.

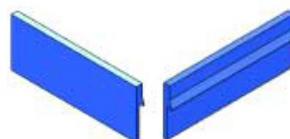
BEFORE MEASURING, KEEP THESE IN MIND

- 1: Do not ASSUME anything – measure it and check it thoroughly. Often, the pool may have slight variances from the original manufacturers specifications.
- 2: Not all pools are constructed with straight lines and sharply defined changes of plane. Therefore, please note any abnormalities.
- 3: Always provide exact measurements. The manufacturer will automatically make the liner slightly smaller than the dimensions you give, in order to allow the liner to stretch into place properly. DO NOT try to make extra allowances for stretch in your dimensions.
- 4: Actual pool measurements should be made even if the original pool plans are available due to the fact that slight variances may have occurred during construction.

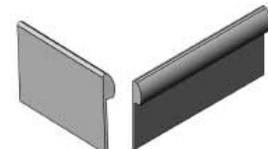
LINER TYPES



Standard Bead

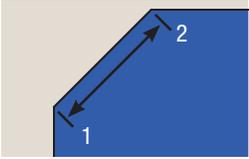


Esther Williams Bead

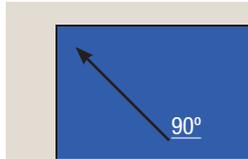


CORNER TYPES

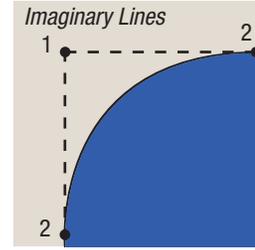
Diagonal Corners



Square Corners



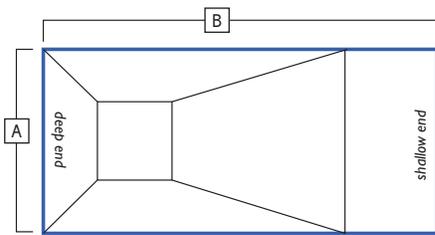
Radius Corners



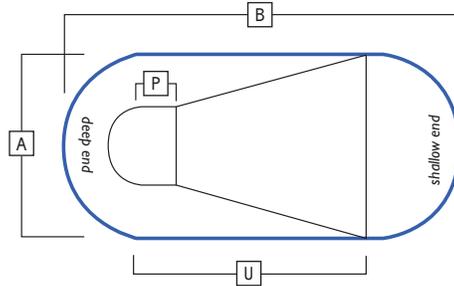
Note: If you have more than one type of corner on your pool (such as with a Lazy L) please include a sketch of pool indicating corner type and measurement.

POOL SHAPES

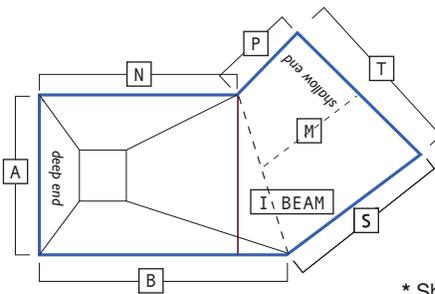
Rectangle



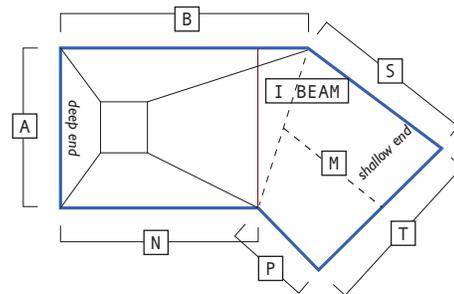
Oval



Lazy "L" Right

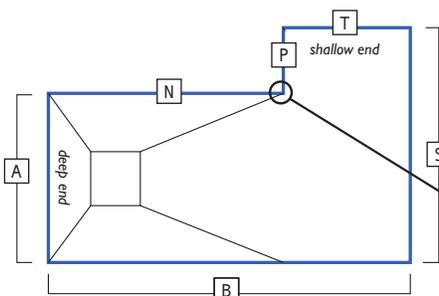


Lazy "L" Left

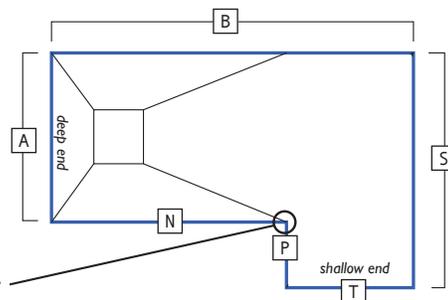


* Shallow End Breakline
 --- Follows I Beam
 — Perpendicular to B Wall

True "L" Right



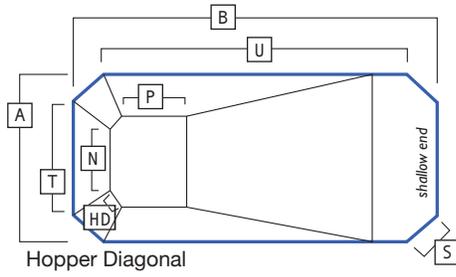
True "L" Left



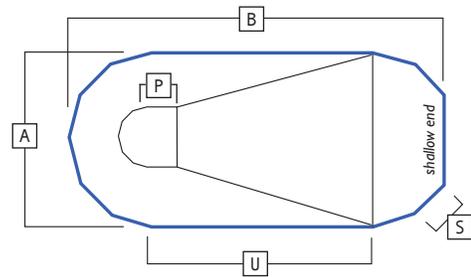
Reverse Corner
 Types:
 Square
 Radius
 Diagonal

ADDITIONAL POOL SHAPES

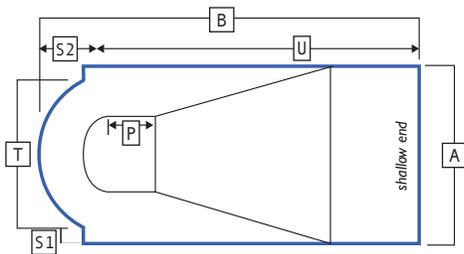
Grecian



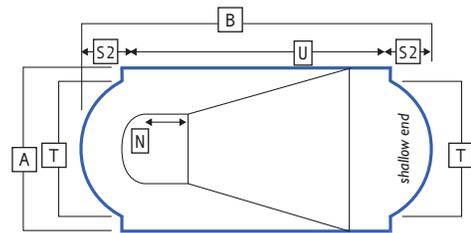
Jewel



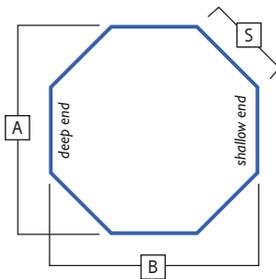
Single Roman



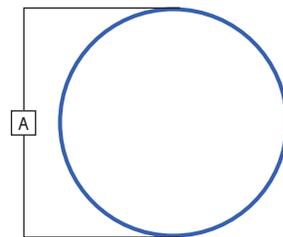
Double Roman



Octagon

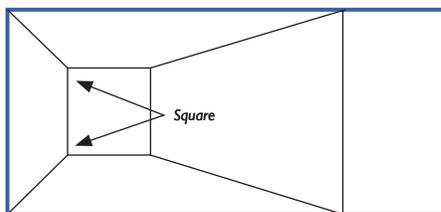


Round

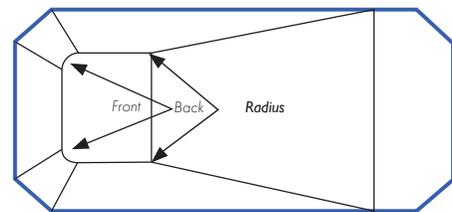


HOPPER PAD TYPES

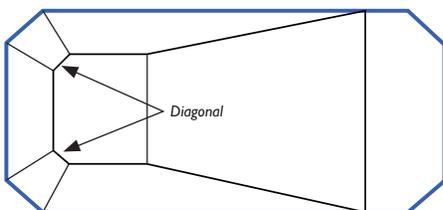
Square



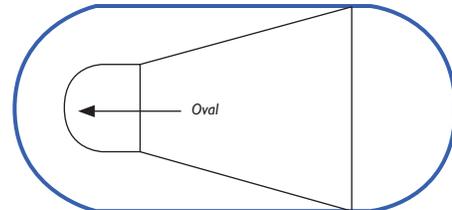
Radius



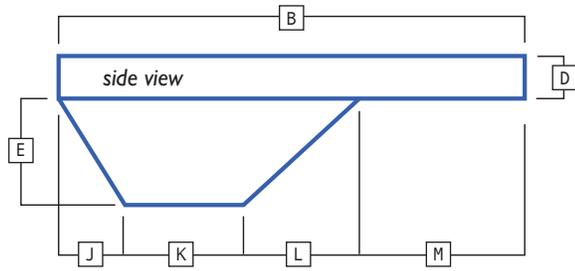
Diagonal



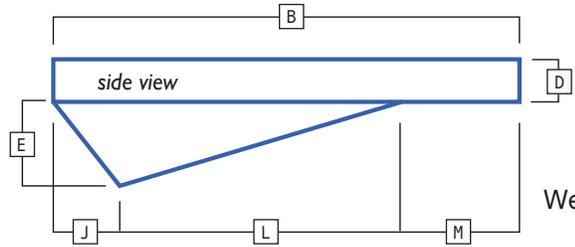
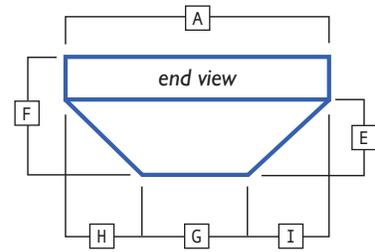
Oval



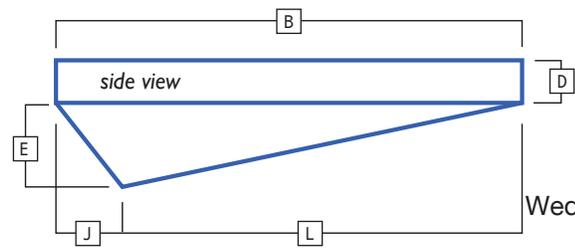
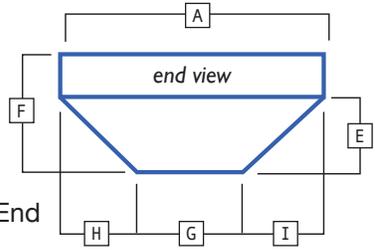
HOPPER TYPES



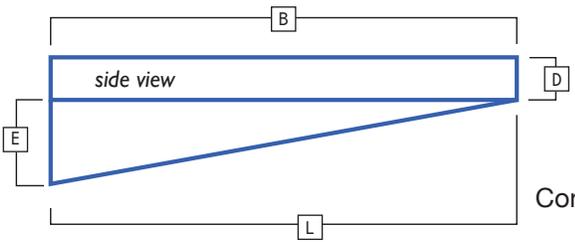
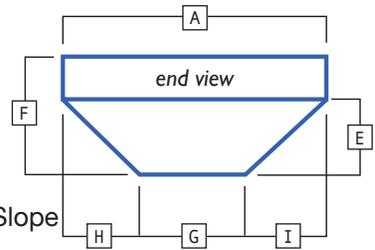
Standard Hopper



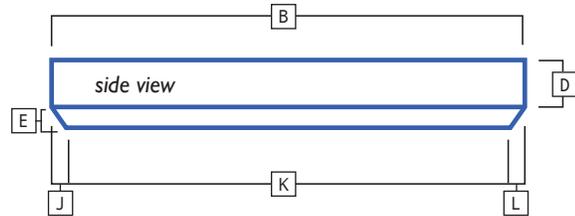
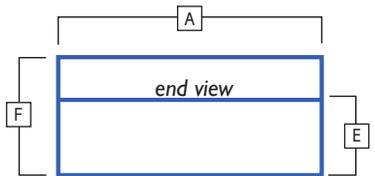
Wedge Hopper w/Shallow End



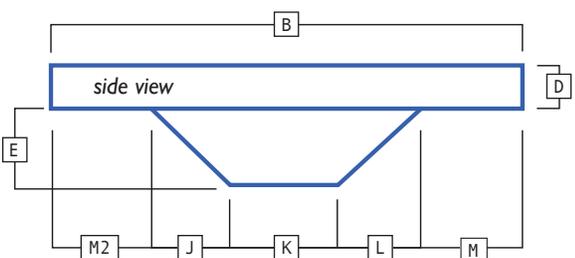
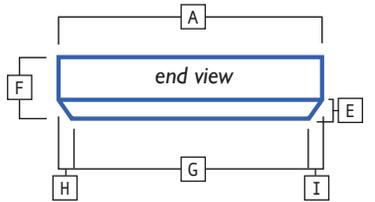
Wedge Hopper w/Constant Slope



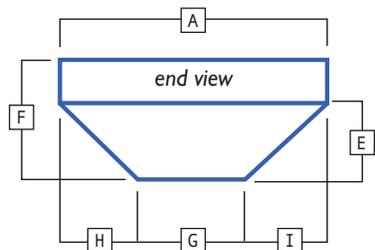
Constant Straight Slope Hopper

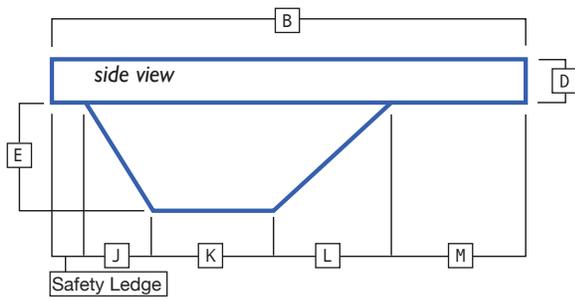


Cove Hopper

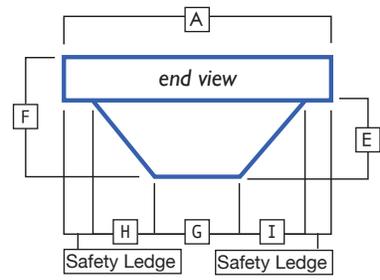


Sport Bottom Hopper

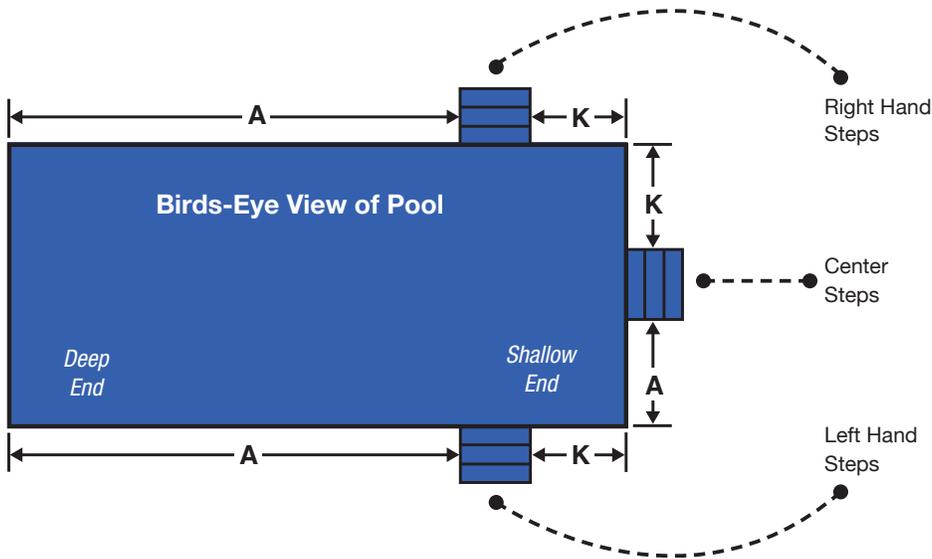




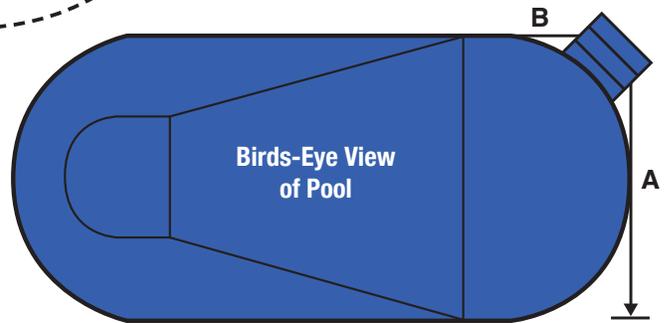
Safety Ledge Hopper



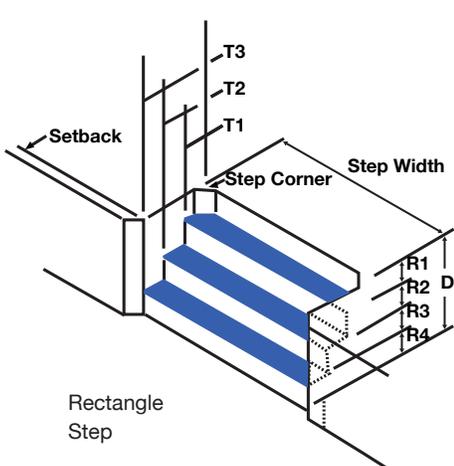
VINYL COVERED STEP POSITIONS



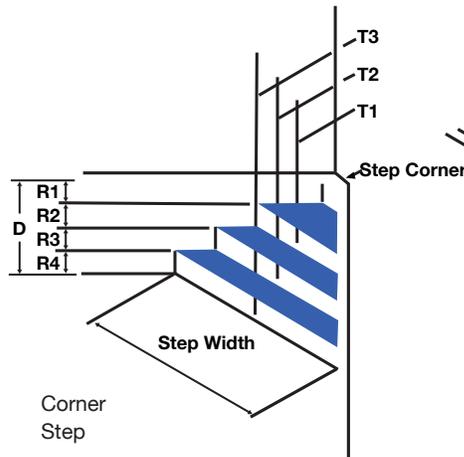
Use the straight side of the pool to draw an imaginary 'corners' on your pool. Then measure from 'corner' to the steps on each side.



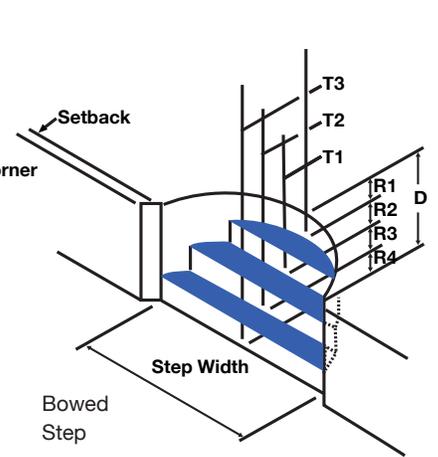
VINYL COVERED STEP SHAPES



Rectangle Step



Corner Step

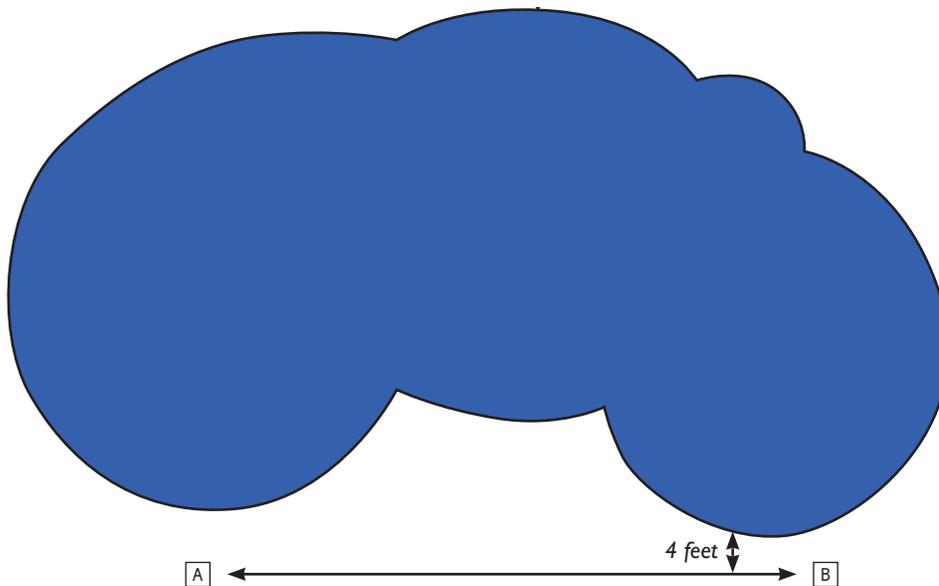


Bowed Step

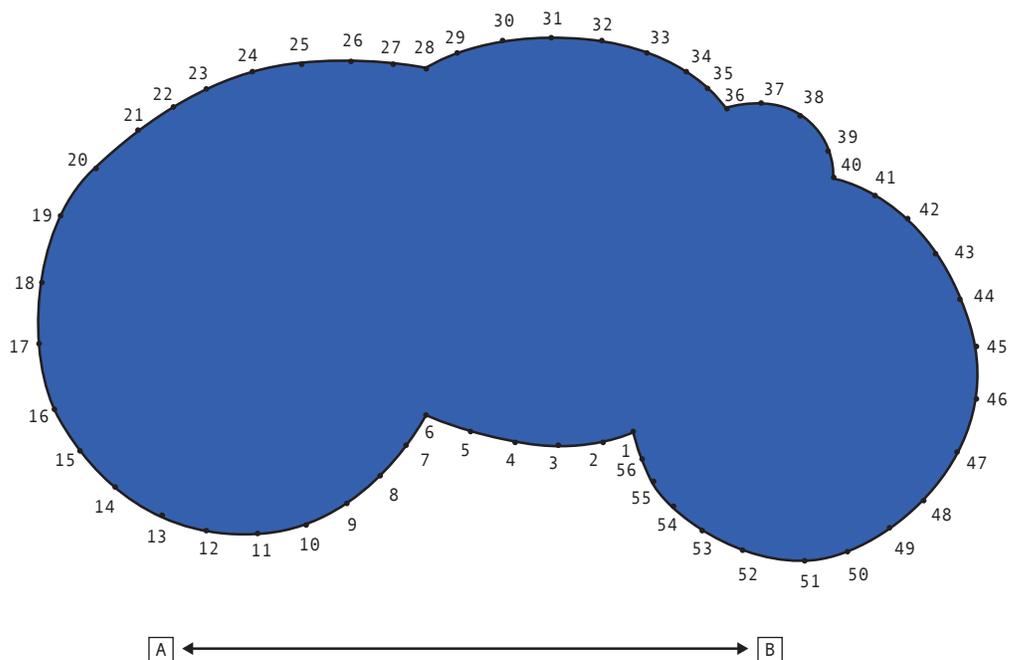
CUSTOM LINER ABMEASURING

AB Measurements are required for freeform pools to match the unique curves of your pool. Start by sketching a diagram of the pool on paper. Include location and detail of your pool deck and any non-removable obstructions, such as slides, dive stands, grab rails and ladders that lie within 18 inches of the pool edge. Pictures are required as well.

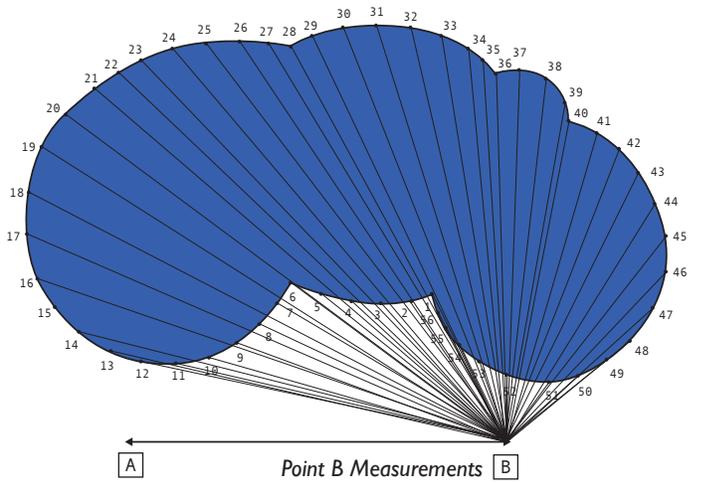
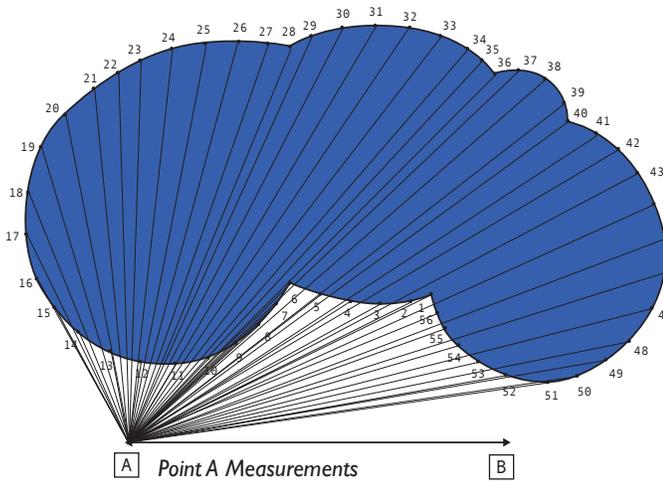
1. **Using chalk or masking tape to establish your AB plot line:** Start from 5' away from the widest pool edge, plot a line along the length of the pool. The line should not intersect the pool in any direction and should be **at least 2/3 the length** of the pool.



2. **Mark plot points around the perimeter of the pool approximately every 3 feet:** Mark your pool deck in roughly **3 foot intervals** around the pool perimeter, and numbering each point around the pool. Number all corners, rail locations (front and back of rails) or other obstructions within 18 inches of the pool edge. When tight curves, rocks, waterfalls or similar obstructions are encountered, mark at **one foot intervals**.



3. **Measure to each plot point from Point A:** Attach or have a partner hold one end of a tape measurer at Point A, measure to each point, starting at point one, and record in the corresponding box A1 on the measuring form. Continue measuring to each point around the pool perimeter and record each measurement. Repeat from Point B to each plot point in numerical order.



4. **Verify pool length and width:** Choose a numbered plot point in the shallow end, and a numbered plot point in the deep end, and record the measurement between the two points to represent overall pool length. Do the same across the widest point of the pool to represent the pool width. You may want to include a few width measurements for curvy pools with varied sections. Once completed, proceed on to the Hopper Style and measurements in the standard measurement form.

