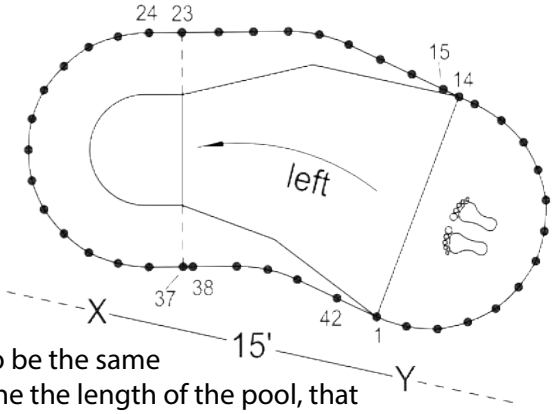
POINT-TO-POINT Order Form Procedure

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.

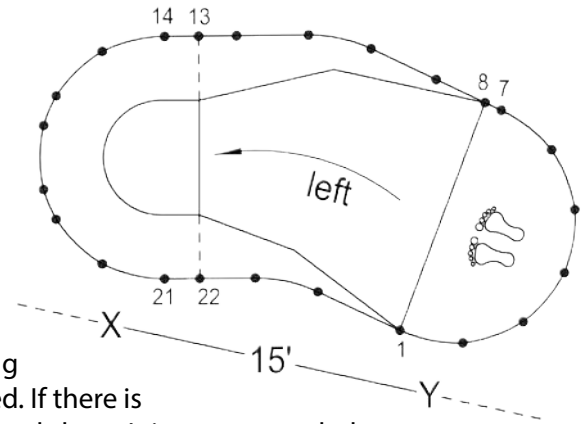


Locate X and Y points:
Locate two points, approx. 15' apart (not less than 1 O' apart). These two points will be referred to as "X" and "Y". The X and Y points need to be the same distance from the pool edge, at least 3'. When drawing an imaginary line the length of the pool, that line should not cross 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 recomend 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 measurments. 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	ft in	Shallow End Length	ft in
Reference Name		Slope Length	ft in
Overall Length	ft in	Hopper Length	ft in
Shallow End Width	ft in	Hopper Width	ft in
Deep End Width	ft in	Back Slope Length	ft in
Shallow End Depth	ft in	Side Slope Length	ft in
Deep End Depth	ft in		

Shallow End Break Points:

Point ____ to Point ____ : ____

Deep End Break Points:

Point ____ to Point ____ : ____

Reference Measurements:

Point ____ to Point ____ : ____
Point ____ to Point ____ : ____
Point ____ to Point ____ : ____
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	ft	in	21	ft	in	41	ft	in			
02	ft	in	22	ft	in	42	ft	in			
03	ft	in	23	ft	in	43	ft	in			
04	ft	in	24	ft	in	44	ft	in			
05	ft	in	25	ft	in	45	ft	in			
06	ft	in	26	ft	in	46	ft	in			
07	ft	in	27	ft	in	47	ft	in			
08	ft	in	28	ft	in	48	ft	in			
09	ft	in	29	ft	in	49	ft	in			
10	ft	in	30	ft	in	50	ft	in			
11	ft	in	31	ft	in	51	ft	in			
12	ft	in	32	ft	in	52	ft	in			
13	ft	in	33	ft	in	53	ft	in			
14	ft	in	34	ft	in	54	ft	in			
15	ft	in	35	ft	in	55	ft	in			
16	ft	in	36	ft	in	56	ft	in			
17	ft	in	37	ft	in	57	ft	in			
18	ft	in	38	ft	in	58	ft	in			
19	ft	in	39	ft	in	59	ft	in			
20	ft	in	40	ft	in	60	ft	in			

Y MEASUREMENTS

01	ft	in	21	ft	in	41	ft	in			
02	ft	in	22	ft	in	42	ft	in			
03	ft	in	23	ft	in	43	ft	in			
04	ft	in	24	ft	in	44	ft	in			
05	ft	in	25	ft	in	45	ft	in			
06	ft	in	26	ft	in	46	ft	in			
07	ft	in	27	ft	in	47	ft	in			
08	ft	in	28	ft	in	48	ft	in			
09	ft	in	29	ft	in	49	ft	in			
10	ft	in	30	ft	in	50	ft	in			
11	ft	in	31	ft	in	51	ft	in			
12	ft	in	32	ft	in	52	ft	in			
13	ft	in	33	ft	in	53	ft	in			
14	ft	in	34	ft	in	54	ft	in			
15	ft	in	35	ft	in	55	ft	in			
16	ft	in	36	ft	in	56	ft	in			
17	ft	in	37	ft	in	57	ft	in			
18	ft	in	38	ft	in	58	ft	in			
19	ft	in	39	ft	in	59	ft	in			
20	ft	in	40	ft	in	60	ft	in			

NOTES

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

HYDRA POOLS and its authorized distributors and dealers, as part of the swimming pool industry and members of the Association of Pool and Spa Professionals adopt those standards for the purpose of pool safety to prevent the risk of a consumer or guest from suffering a severe or paralyzing injury or loss of life due to diving into water less than prescribed by modern standards. Such injuries can occur by sliding head first into shallow water. We will produce the liner according to the dimensions provided only upon the following conditions: The customer recognizes that the pool may be of non-conforming type and - 1. Consumer agrees to permanently remove the diving board if it exists prior to the installation of this liner. 2. Consumer agrees to relocate sliding board if necessary, prior to installation of this liner, to conform to APSP standards. 3. Consumer agrees to defend, indemnify and hold HYDRA POOLS and its distributors and dealers harmless from any claims arising from injuries that may occur from the use of the pool containing this liner. 4. Consumer agrees that in addition to abiding to the conditions above, he will not allow use of the pool by anyone, including guests, which is inconsistent with this warning. I UNDERSTAND THE ABOVE WARNING AND RECOMMENDATIONS, CERTIFY THAT I WILL ABIDE BY ALL PERTINENT CONDITIONS, AND REQUEST THAT YOU PRODUCE THIS LINER AS ORDERED. **Your digital signature below and return of the document to PWH becomes the conditions confirming and binding the dimensions listed above as accurate and to be used in the production of the product.**

Signature: Date:

HOW TO MEASURE YOUR POOL FOR AN INGROUND LINER

Measuring without entering the pool:

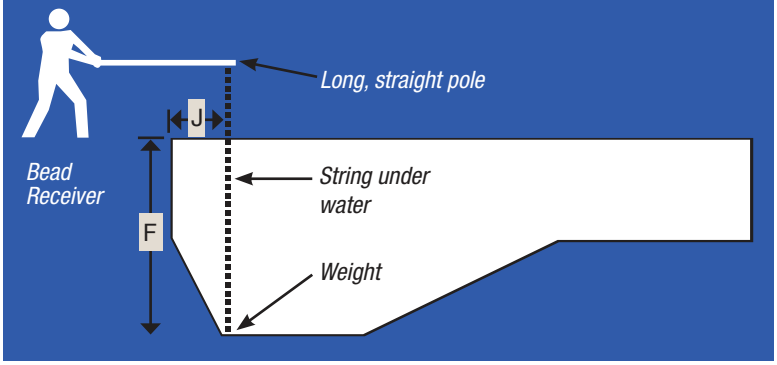
You will be able to measure **horizontally**, all of the bottom dimensions without entering or draining the pool. You can create your own simple measuring tool (an extended Plumb Line) that will take about 5 minutes to assemble and is used by pool professionals taking liner measurements.

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.

Follow the instructions below, using an extended Plumb Line to take measurements.



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

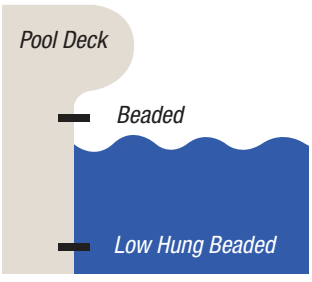
1: Do not ASSUME anything – measure it and check it thoroughly. Often, the pool may have slight variances from the original manufacturers specifications.

2: Not all pools are constructed with straight lines and sharply defined changes of plane. Therefore, please note any abnormalities.

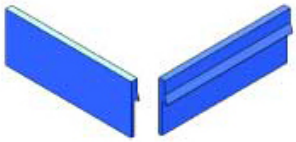
3: Always provide exact measurements. The manufacturer will automatically make the liner slightly smaller than the dimensions you give, in order to allow the liner to stretch into place properly. DO NOT try to make extra allowances for stretch in your dimensions.

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.

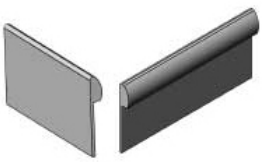
LINER TYPES



Standard Bead

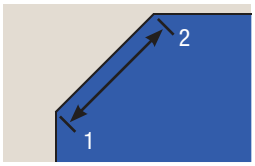


Esther Williams Bead

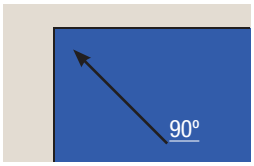


CORNER TYPES

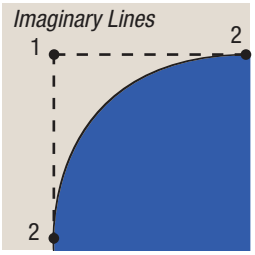
Diagonal Corners



Square Corners



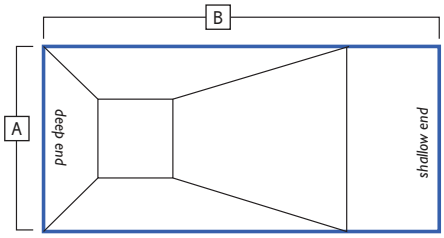
Radius Corners



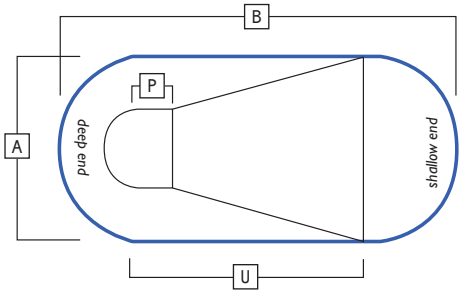
Note: If you have more than one type of corner on your pool (such as with a Lazy L) please include a sketch of pool indicating corner type and measurement.

POOL SHAPES

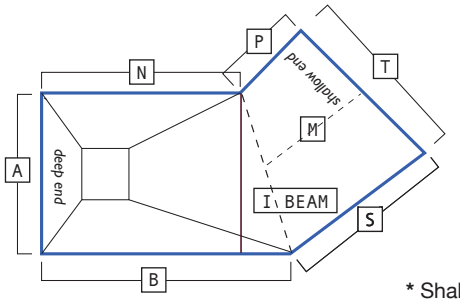
Rectangle



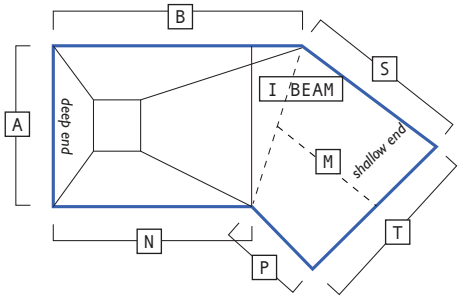
Oval



Lazy “L” Right

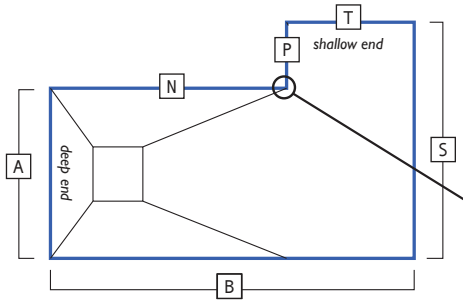


Lazy “L” Left

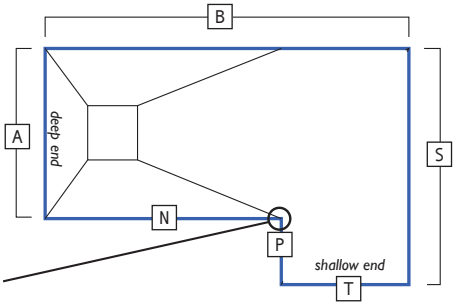


* Shallow End Breakline
- - - Follows I Beam
—— Perpendicular to B Wall

True “L” Right



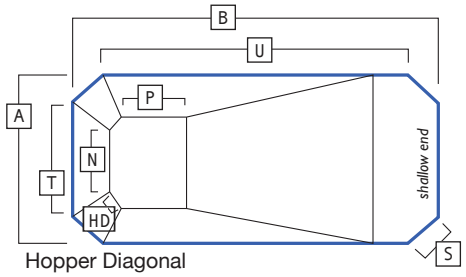
True “L” Left



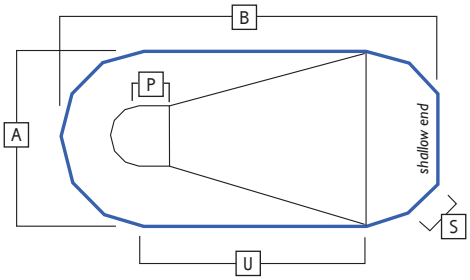
Reverse Corner Types:
Square
Radius
Diagonal

ADDITIONAL POOL SHAPES

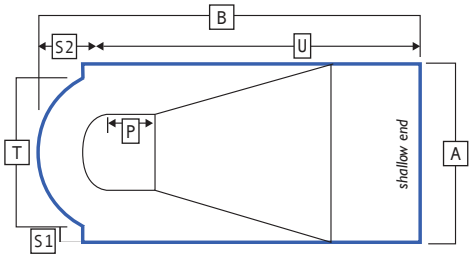
Grecian



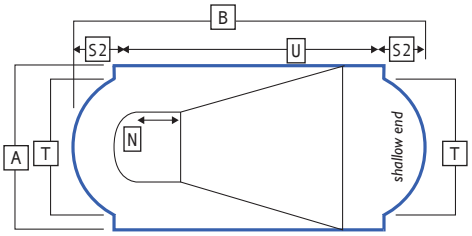
Jewel



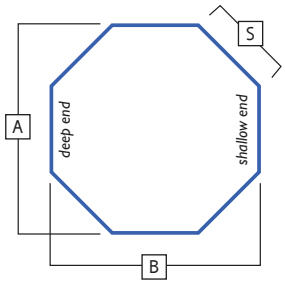
Single Roman



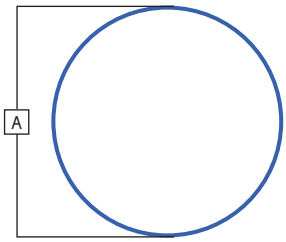
Double Roman



Octagon

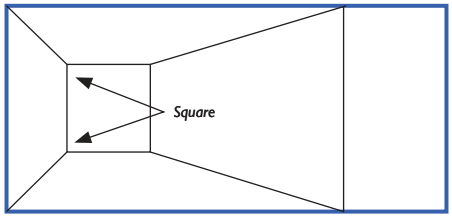


Round

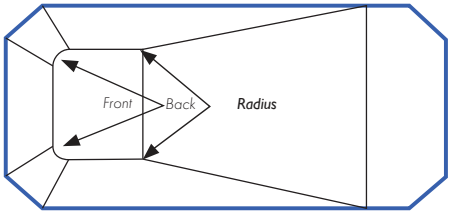


HOPPER PAD TYPES

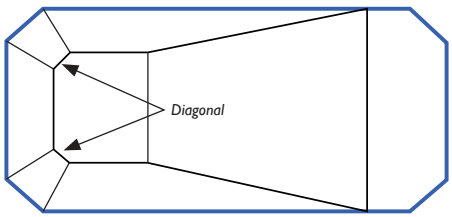
Square



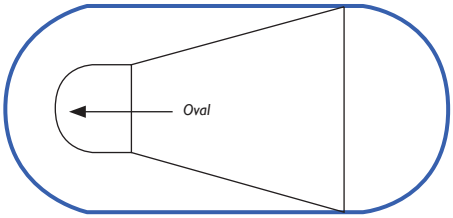
Radius



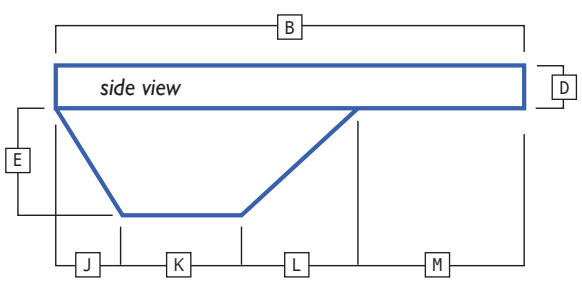
Diagonal

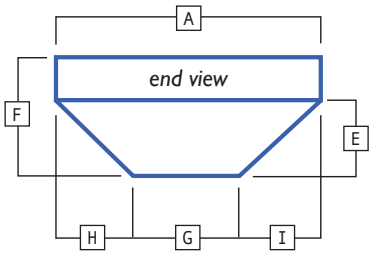


Oval

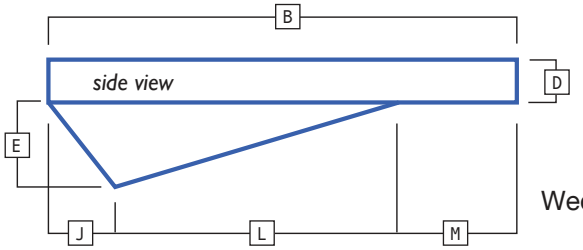


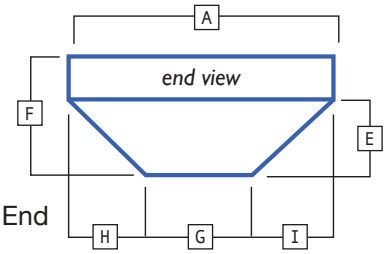
HOPPER TYPES



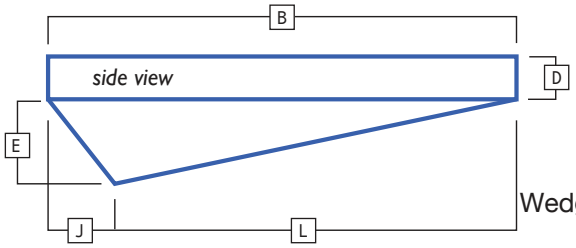


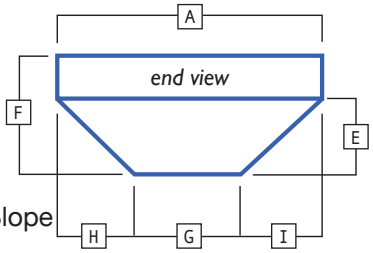
Standard Hopper



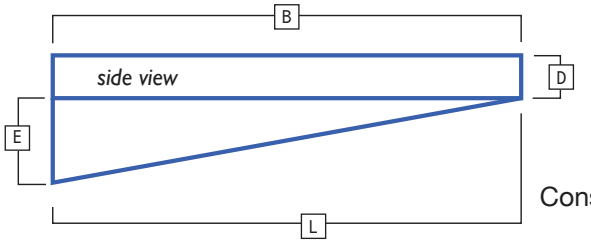


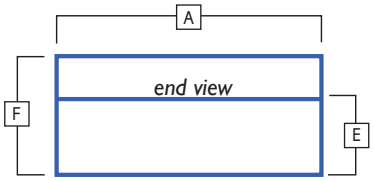
Wedge Hopper w/Shallow End



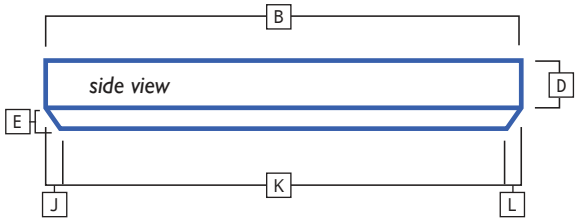


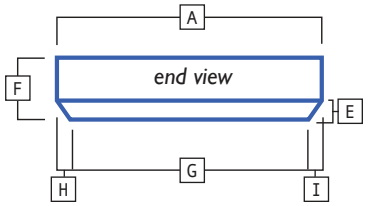
Wedge Hopper w/Constant Slope



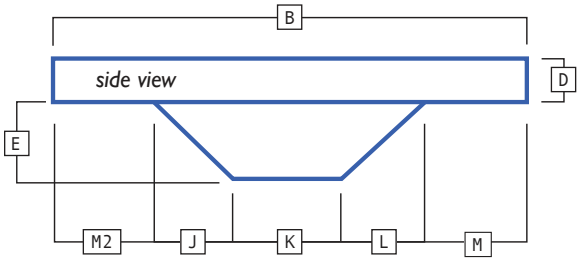


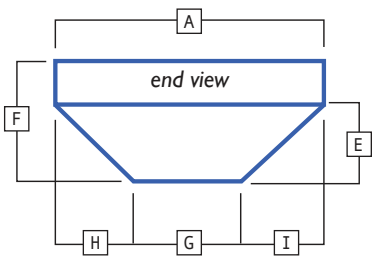
Constant Straight Slope Hopper



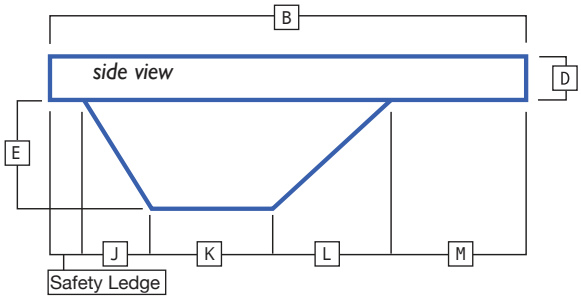


Cove Hopper

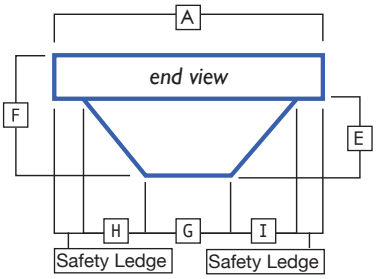




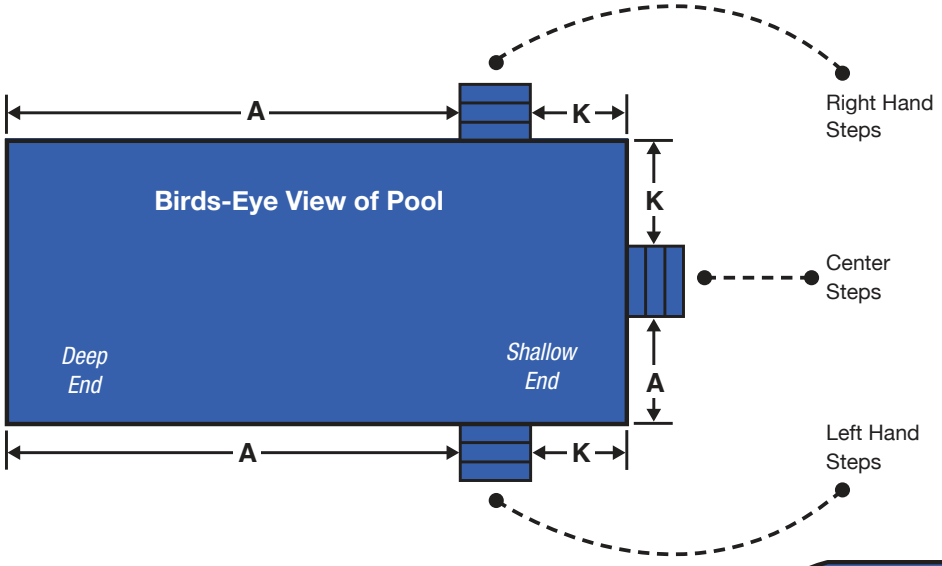
Sport Bottom Hopper



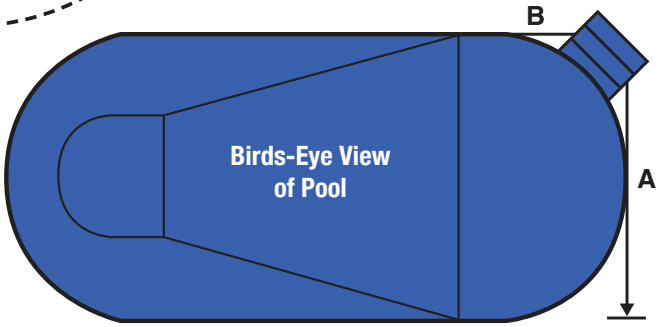
Safety Ledge Hopper



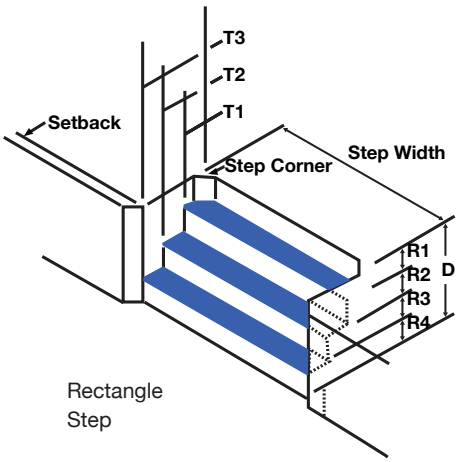
VINYL COVERED STEP POSITIONS



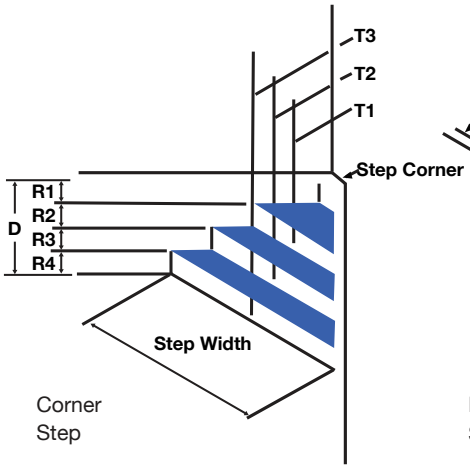
Use the straight side of the pool to draw an imaginary 'corners' on your pool. Then measure from 'corner' to the steps on each side.



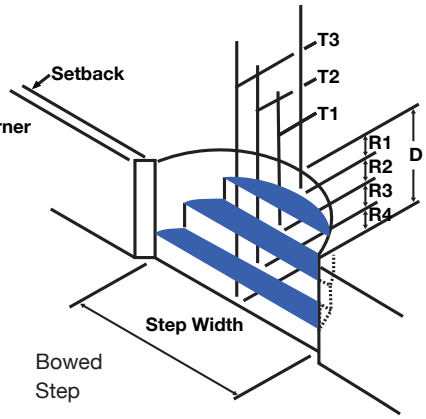
VINYL COVERED STEP SHAPES



Rectangle Step



Corner Step

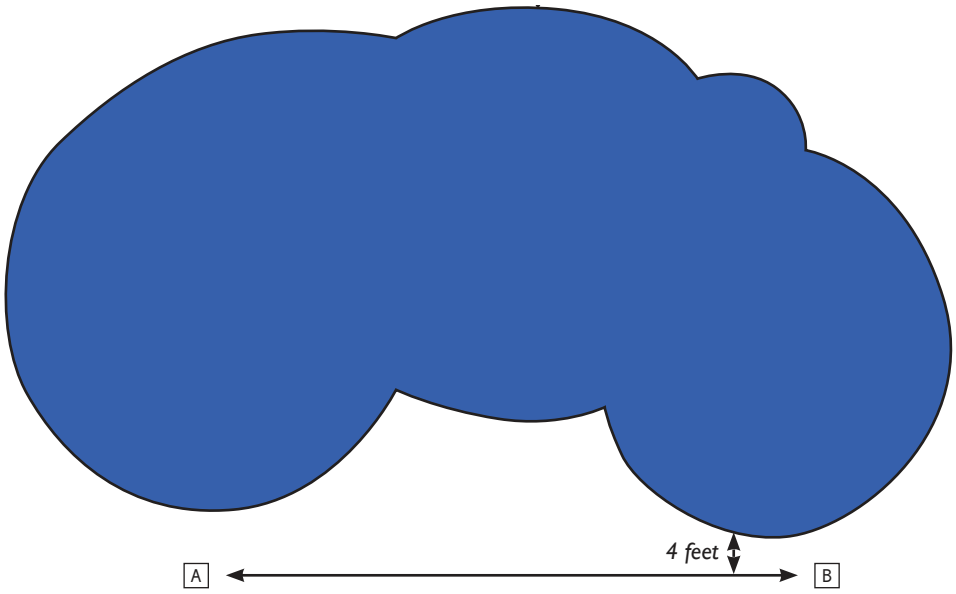


Bowed Step

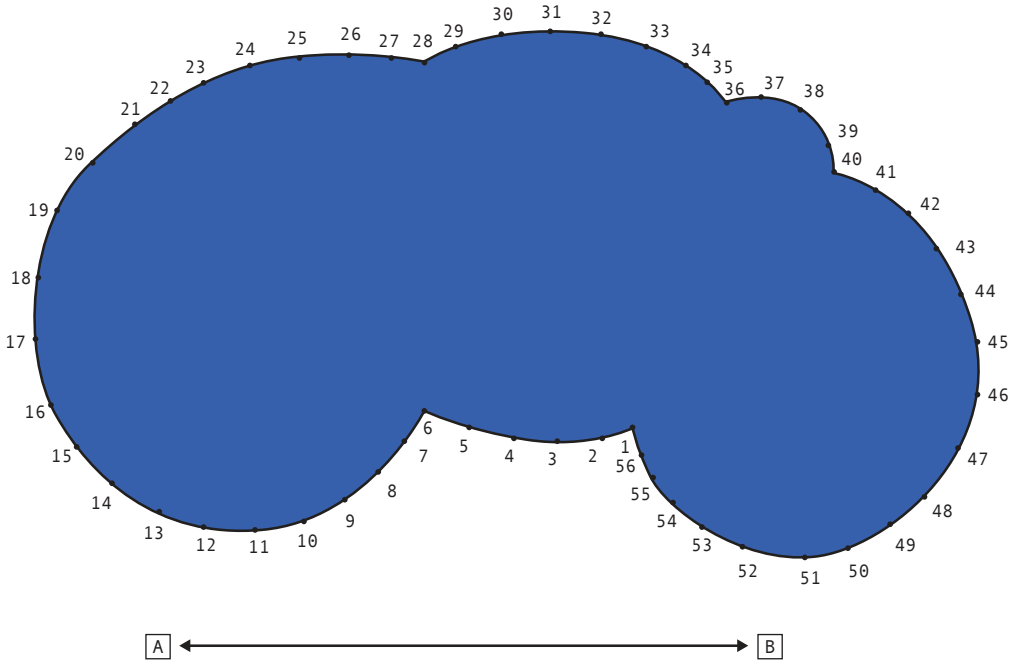
CUSTOM LINER ABMEASURING

AB Measurements are required for freeform pools to match the unique curves of your pool. Start by sketch-ing 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.

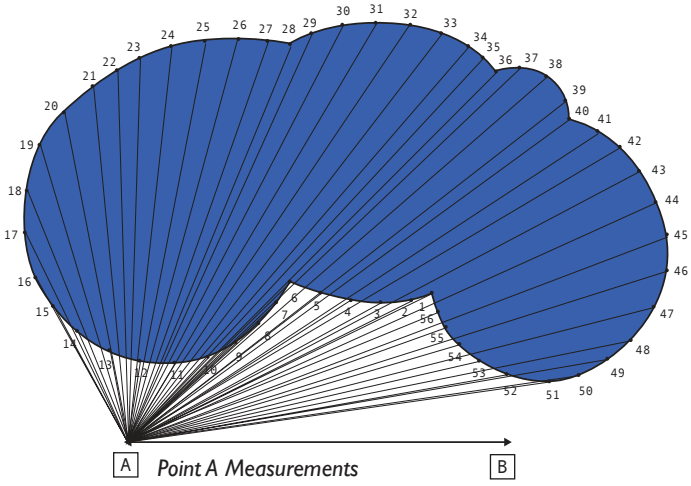
1. **Using chalk or masking tape to establish your AB plot line**: Start from 5' away from the widest pool edge, plot a line along the length of the pool. The line should not interestect the pool in any direction and should be **at least 2/3 the length** of the pool.

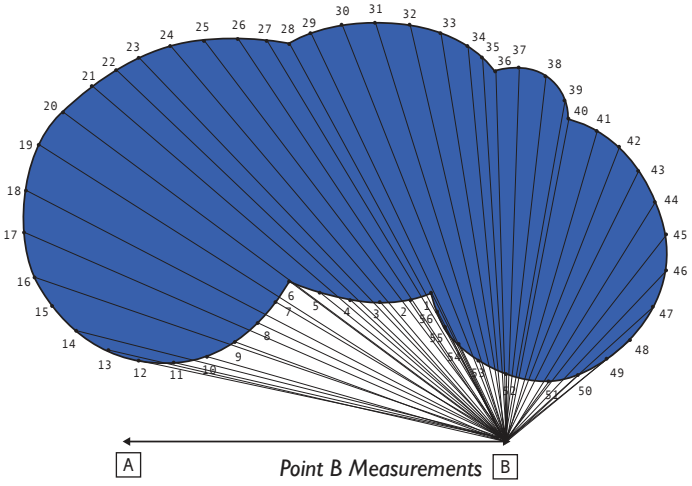
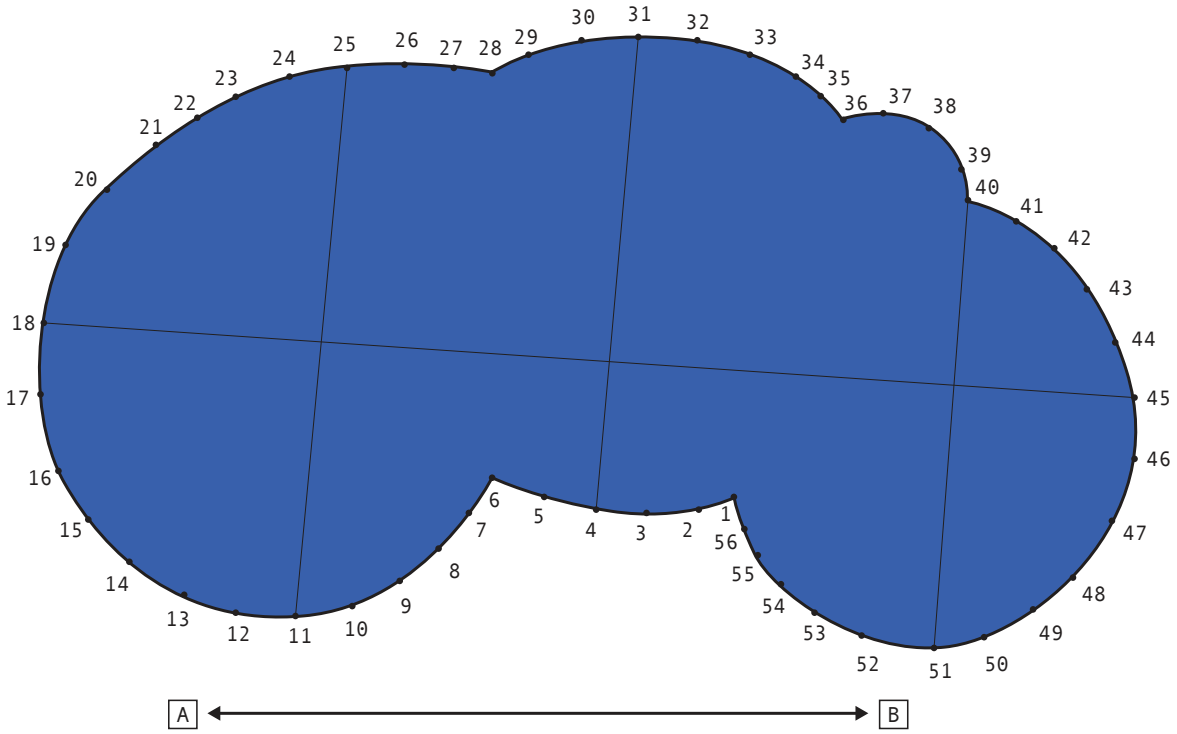


2. **Mark plot points around the perimeter of the pool approximately every 3 feet**: Mark your pool deck in roughly **3 foot intervals** around the pool perimeter, and numbering each point around the pool. Number all corners, rail locations (front and back of rails) or other obstructions within 18 inches 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.