

Hi-Hog Farm & Ranch Equipment Ltd.



Questions

Call toll free 1-800-661-7002
(Mon-Fri 8:00 am to 4:30 pm MST)
www.hi-hog.com

S-Alley Installation Instructions













NOTE:

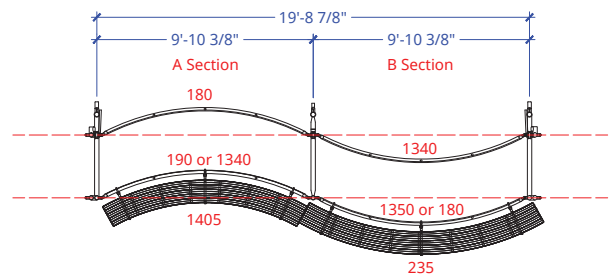
Hi-Hog's S-Alley is composed of alternating sections of curved alley held in place by alley spreader frames. Because there are a wide range of spreader frame options, the alley you are installing may not be specifically shown in this set of instructions.









For example, Hi-Hog offers both *plain S-Alley spreaders* as well as *S-Alley spreaders with Rolling Doors* and *U-to-S Alley Spreaders designed to transition from an S-Alley to a U-Alley*. Each of these choices will have an impact on the length and width of your S-Alley.

The installation of your S-Alleys will however follow the same simple steps.

- The drawing below left shows the optional S-Alley spreaders you may require.
- The drawing below right shows the optional S-Alley panels and walkways you may require.

	Plain Spreader	Spreader with Rolling Door	U-to-S Alley Spreader	U-to-S Alley Spreader with Rolling Door	fixed-width Spreader with Rolling Door
S-Alley Right Hand End Spreader Options	 210	 215	 1425	 1426	 40
S-Alley Interior Spreader Options	 200	 220			
S-Alley Left Hand End Spreader Options	 1430	 1437	 1435	 1436	 40



	A Section	B Section
S-Alley Outside Curve 66"h Options	 180	 1340
S-Alley Inside Curve 60"h Options	 190	 1350
S-Alley Inside Curve 66"h Options	 1340	 180
S-Alley Walk Options	 1405	 235

S-Alley Installation

Site Preparation

Footings

As with all livestock working alleys, your alley should be installed on a surface that provides secure footing for both livestock and livestock handlers.

Some options for secure footing are:

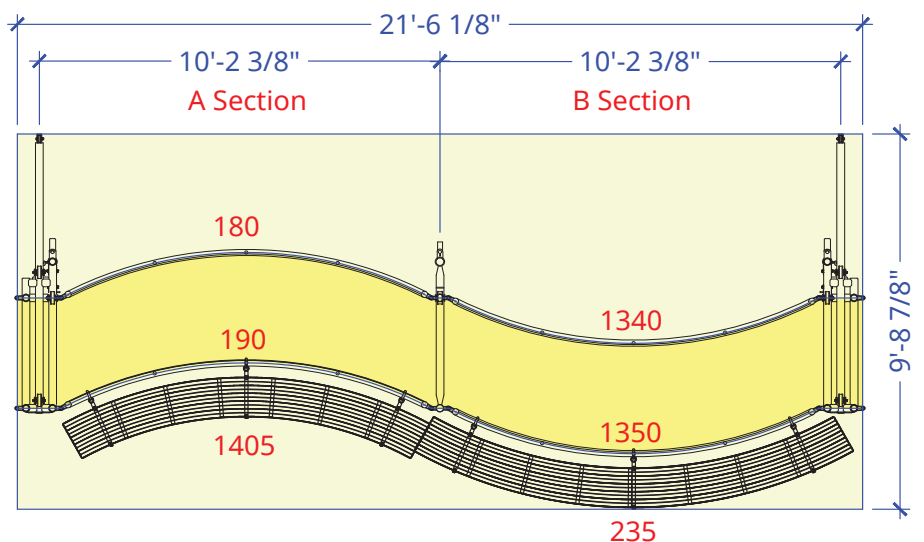
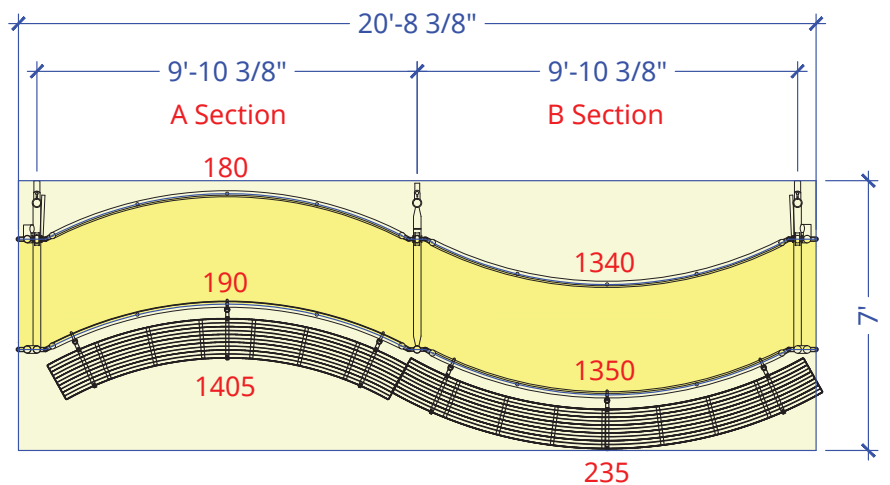
- Pour a concrete slab with a high traction finish
- Install traction mats
- Install Hi-Hog's [Paddock Slabs](#)
- Select the best location to minimize the risk of developing poor footing. Poor footing, such as mud, will cause your livestock to move more cautiously, and be at greater risk of injury.

Grading

The S-Alley can be set-up on an irregular grade. For best performance however, your S-Alley should be installed on a level flat surface.

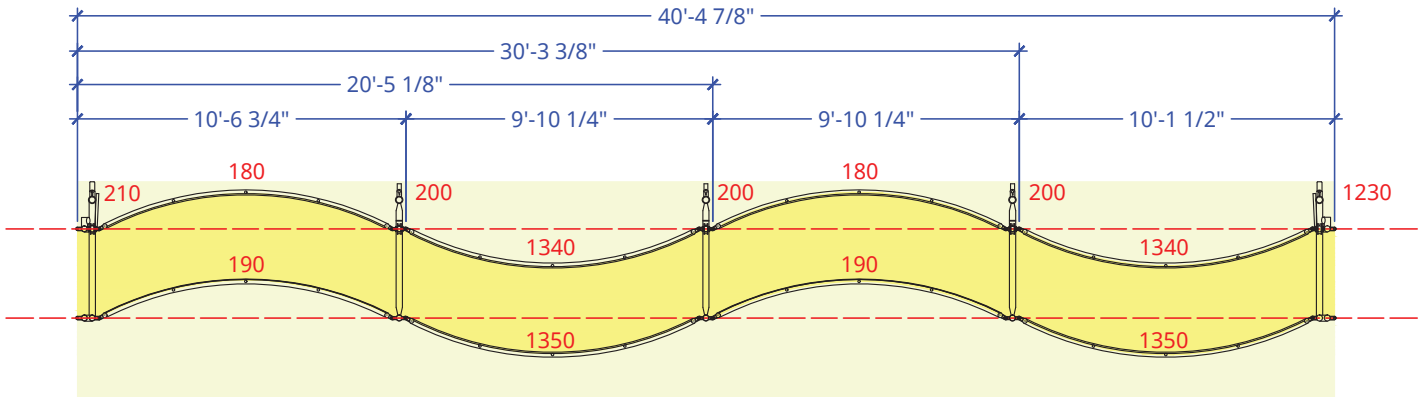
The length and width of your S-Alley will depend on:

- The number of S-Alley sections you install (the sample shown on your right is a two section S-Alley, while the sample at the top of the next page is a four section S-Alley)
- The type of alley spreaders you use (for example, alley spreaders with rolling doors are wider than plain alley spreaders)



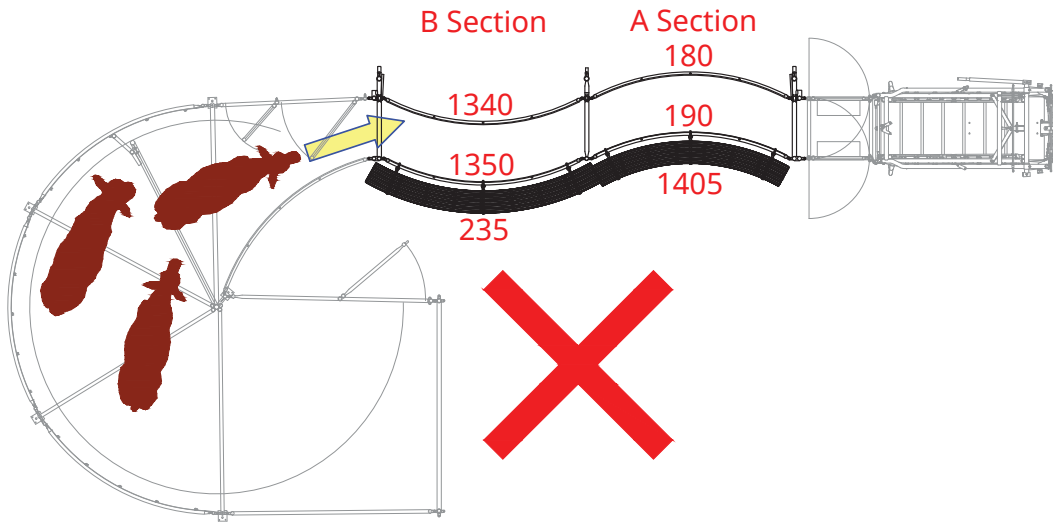
Layout

The alley spreaders of your S-Alley should be laid out in a straight line (see red dashed line)

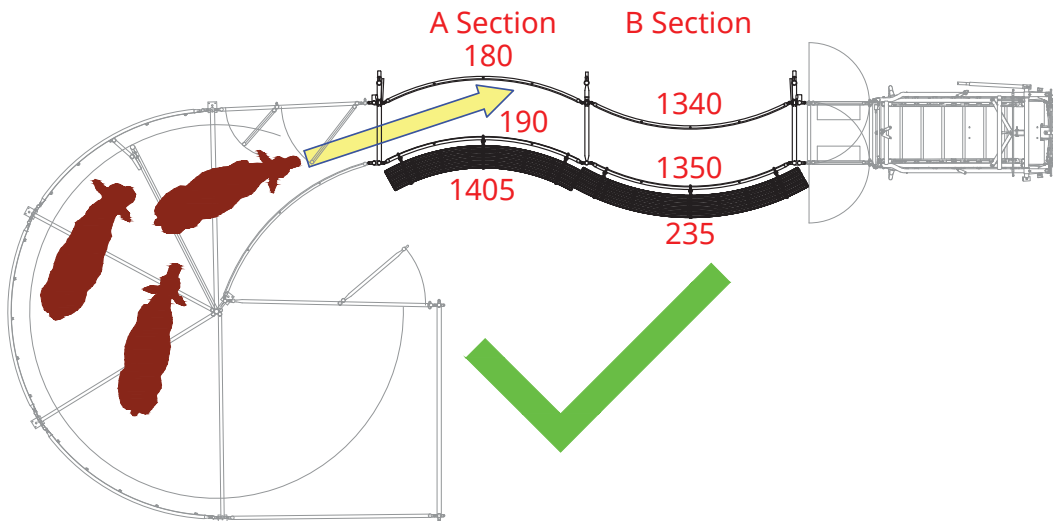


The curve of the first section of S-Alley coming out of your cattle tub should be selected to ensure your livestock can see as far into the S-Alley as possible. In the example below, Example B shows the correct layout.

Example A

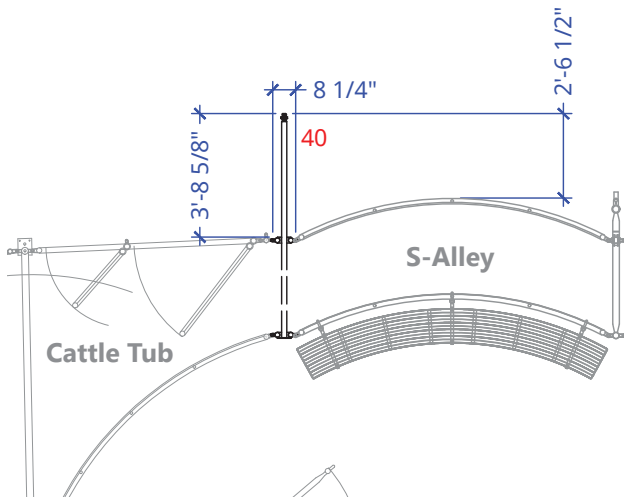


Example B



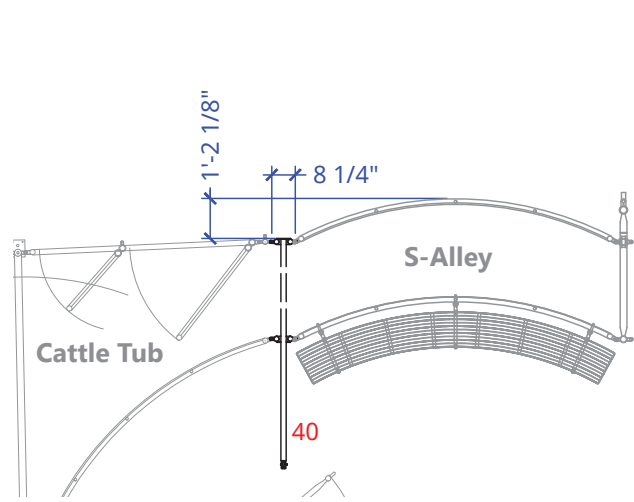
You have a range of choices for how you transition from your cattle tub into your S-Alley. To keep things simple we will focus on the options you have entering an A-Section. The dimensions are taken from the center of the pin connectors. This provides a tolerance of +or- 3/8" for each connection assuming a level grade.

Fixed Width Rolling Door - Roll Out



A

Fixed Width Rolling Door - Roll In

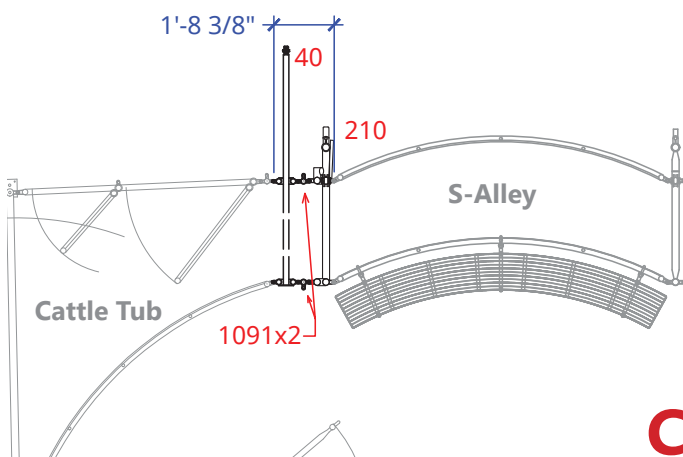


B

If you will not be working with small livestock, the fixed width rolling door is all you need to start your S-Alley. The rolling door spreader creates a large 32" wide opening into your working alley. The rolling door can be operated from either side of the alley.

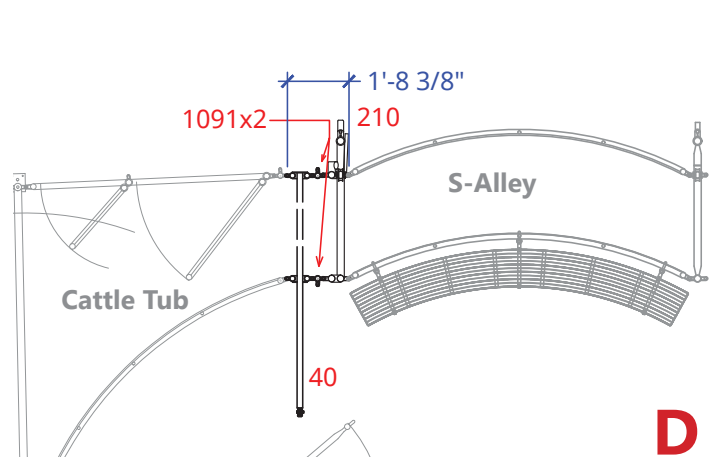
If space is a concern, you can install this spreader with the rolling door opening towards the walkway side of the alley (Option B). This option makes it easier to sort livestock out of your tub as the exit does not have to be a sharp turn.

Rolling Door & Adjustable Spreader - Roll Out



C

Rolling Door & Adjustable Spreader - Roll In

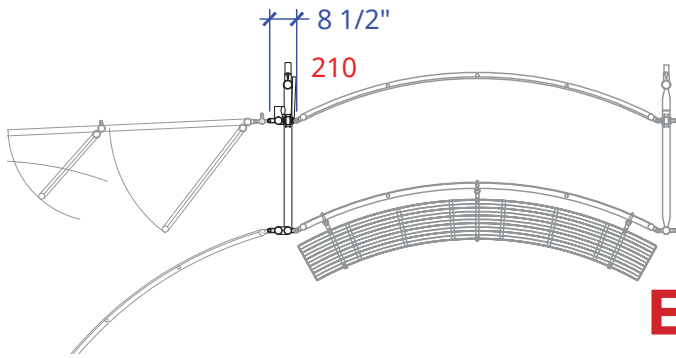


D

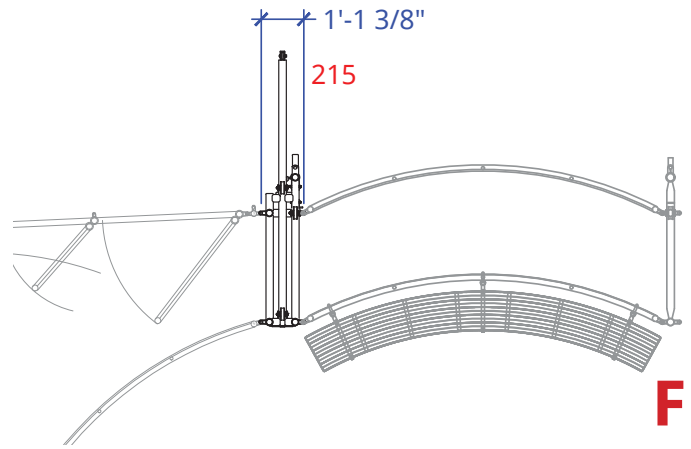
If you want the benefits of having an adjustable width S-Alley as well as a rolling door you can combine the rolling door (item 40) with an adjustable S-Alley spreader (item 210). You will require a pair of 3-way connector posts (item 1091) to connect these two items together.

If you are looking for a rolling door and S-Alley spreader combination similar to Option C, you may be better to look at option F, where the rolling door is part of the S-Alley spreader. If, however, you want the rolling door to roll to the inside of the handling system, you may be better with option D.

Adjustable S-Alley Spreader



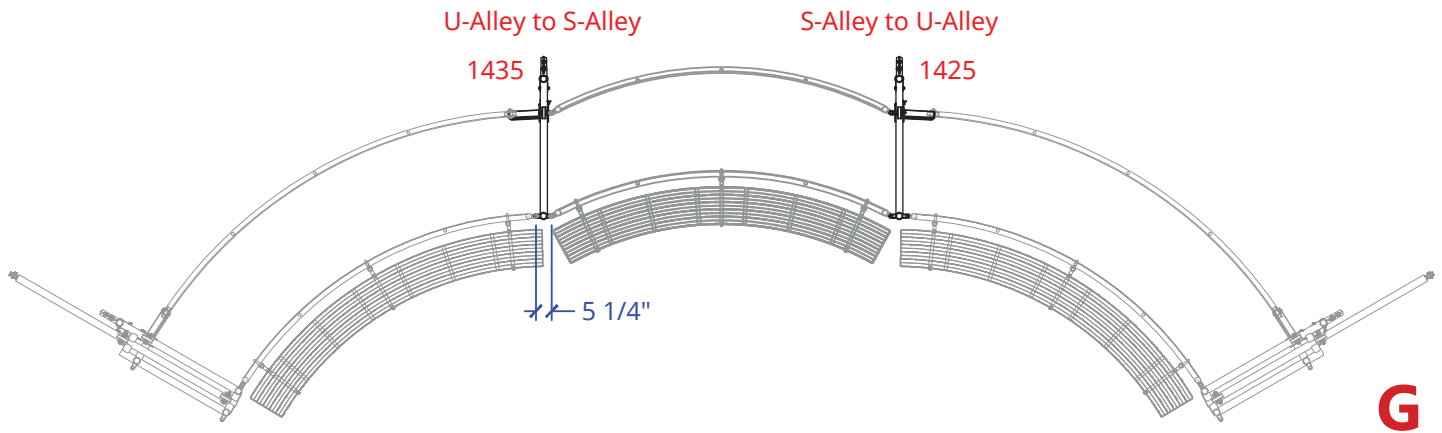
Adjustable S-Alley Spreader with Door



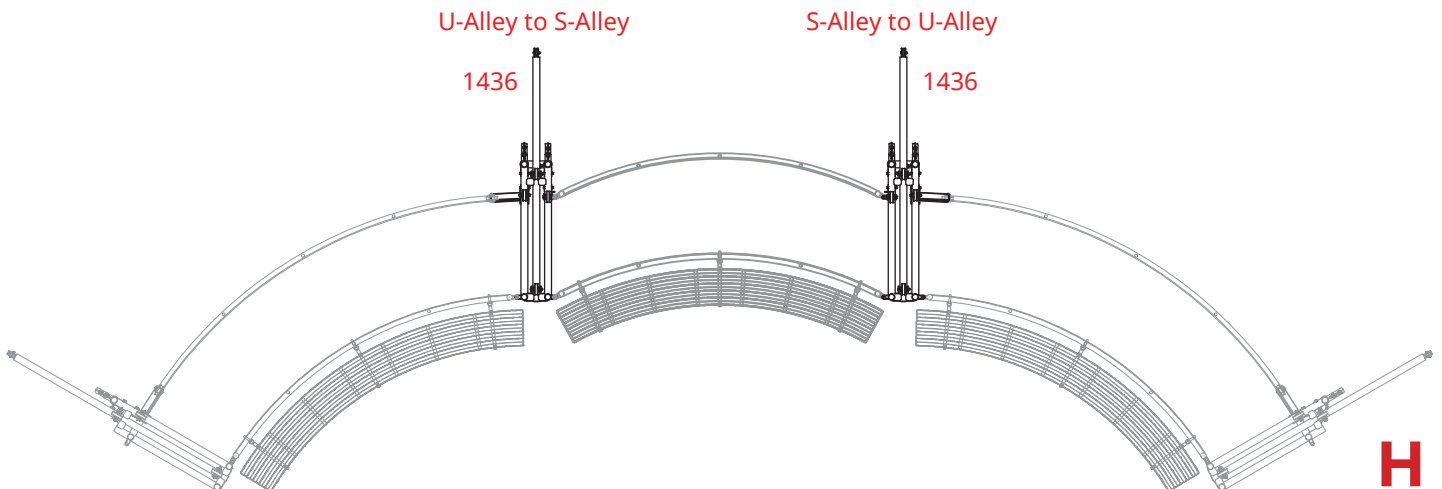
If you want to start your alley with the flexibility of an adjustable alley spreader but you don't require a rolling door you can go with a simple S-Alley end-spreader (item 210 - Option E). If you want an adjustable S-Alley end-spreader as well as a rolling door, and it will be ok for the door to open towards the adjustable side of your alley, your best solution is the S-Alley end-spreader complete with rolling door (item 215 - Option F)

If you are combining an adjustable U-Alley with an Adjustable S-Alley you will require one of four transition spreaders (see the sample drawings below to find the best spreader for your application).

U-to-S Adjustable Alley Spreader



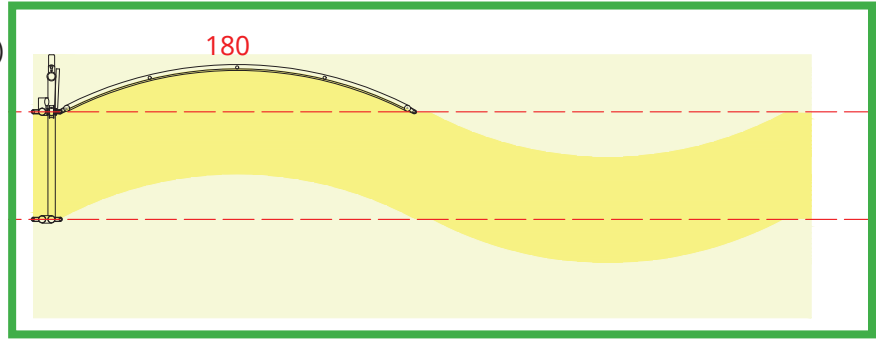
U-to-S Adjustable Alley Spreader with Door



Installing your S-Alley

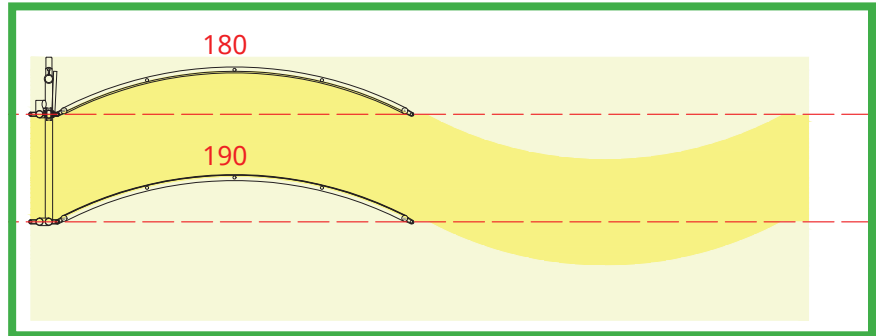
Step 01

Pin item 180 to the outside (adjustable side) of your S-Alley. The adjustable side of your alley is 66" high. The metal sheeting should be on the inside of the alley.



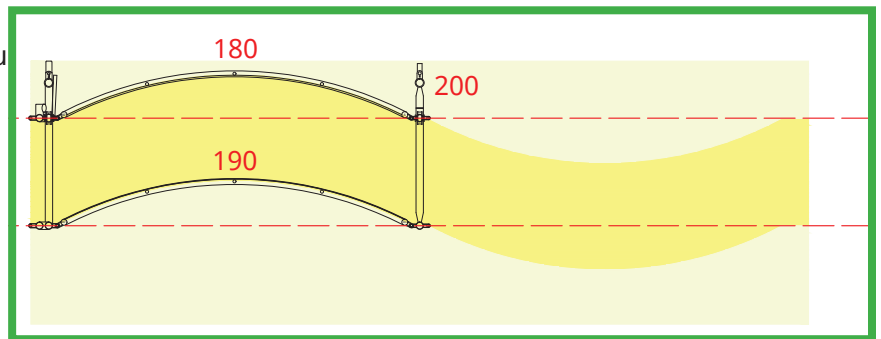
Step 02

Pin item 190 to the inside (non-adjustable side) of your S-Alley. The metal sheeting should be on the inside of the alley.



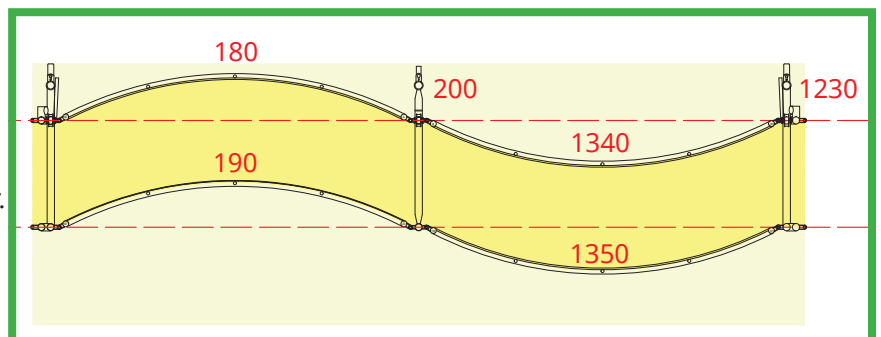
Step 03

Pin item 200 to the two S-Alley panels that you installed in the previous two steps. Make sure that the S-Alley spreader is in line with the first alley spreader (see dashed red line).



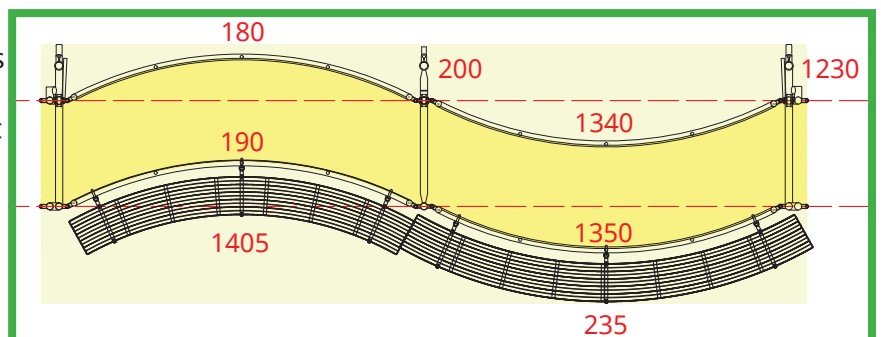
Step 04

Repeat steps 1,2 and 3 to install the next section of S-Alley (attach items 1340, and 1350 to the alley spreader from step 3). Note; the spreader you require will depend on the specific layout of your S-Alley.

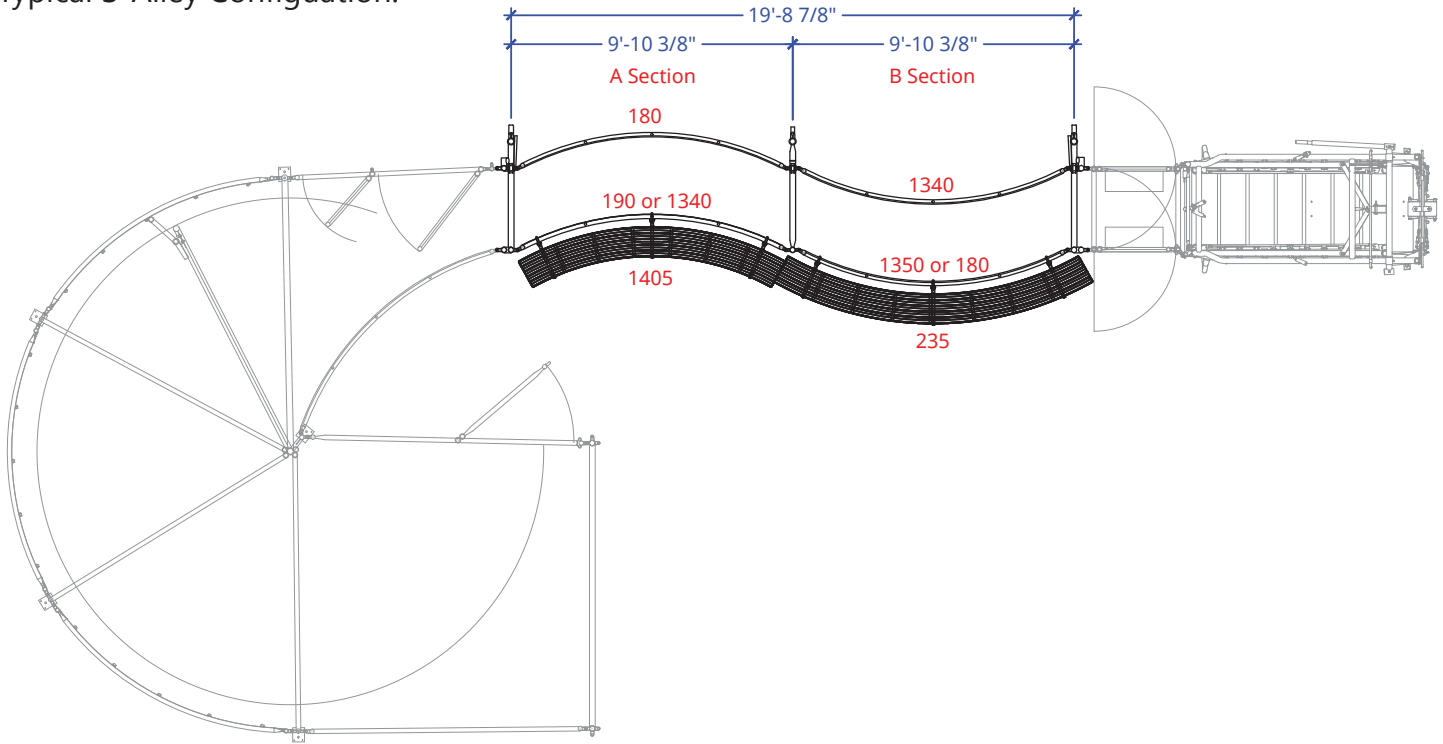


Step 05

Add walkways. Hang three walkway hangers on the inside S-Alley panels. Bolt corresponding walkway to walkway hangers. Bolt walkway ends together. Note: if you use a spreader with a rolling door in the middle of your S-Alley you will have a gap in your walkway. This gap can be filled with a walkway transition (item 275).



Typical S-Alley Configuration.



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