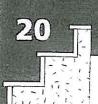
# Large radius spiral flights



# How to measure a large radius spiral flight

Large radius spiral flights are the most challenging stairway flights you will encounter. But if you follow the techniques outlined in this guide you will be able to measure them accurately thus ensuring a "best possible" Stairlift fit for your customer's stairway.

As in the case of flat curve and short radius spiral flights, you will complete a site survey and the section on straight flights on the Large Radius Spiral Measurement Sheet-Order Form before tackling the large radius spiral sections.

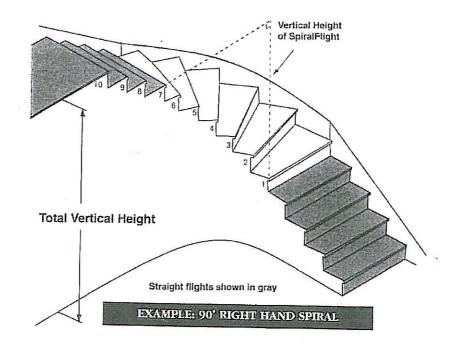
The first step of measuring the large radius spiral flight(S) is to measure the vertical height of each spiral flight.

To do this, measure from the top tread in the flight to the tread of the flight below the spiral flight. Refer to the illustration on this page. Stair steps 1 through 6 make up the spiral flight in this example.

#### Note: For best fit

To achieve the "tightest" fit for the Stair-Glide rail, it is best to take all measurements from the same location, but if this is not possible, you must note when you have measured from a different location on the stairway such as baseboard, stringer, etc.

Note: A 90° Right Hand Spiral is used to provide a visual example of where to take the necessary measurements for a large radius spiral stairway, use the illustrations presented as guides only. Your stairway may vary significantly from the presented example.



isi	1st Spiral Flight			2nd Spiral Flight			
Hisor Numbar	Outside Troad Width (Horizontal)	Alser Height (Vortical)	Riser Number	Outside Frond Width (Horizontal)	Alser Heigh (Vertical)		
				and the second			
B N							

## How to measure individual outside tread depths

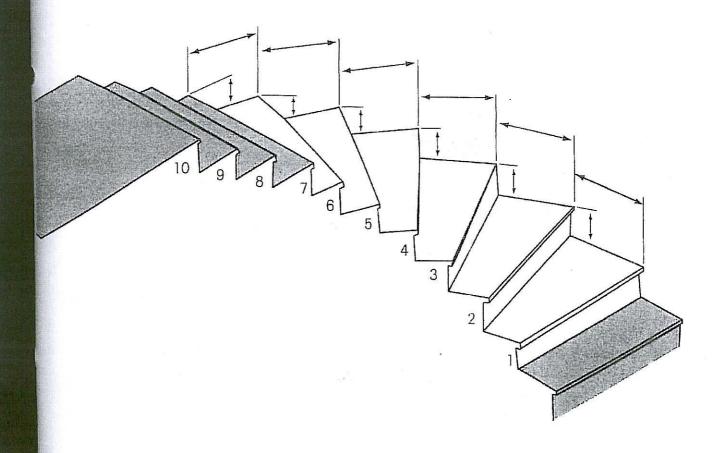
Using the a framing square, measure horizontally along the outside wall or baseboard from the outside edge of each tread nose to the outside edge of the next tread nose. **Remember**; Do not measure under the nose of the next tread.

Record the measurements on the Measurement Sheet-Order form chart.

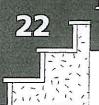
#### How to measure riser heights

The framing square to measure the vertical height of each riser in the spiral flight.

Measure from tread to tread.



# Measuring inside tread depths



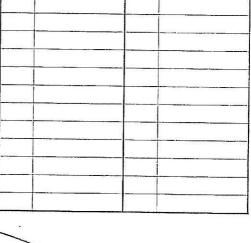
### How to measure individual inside tread depths

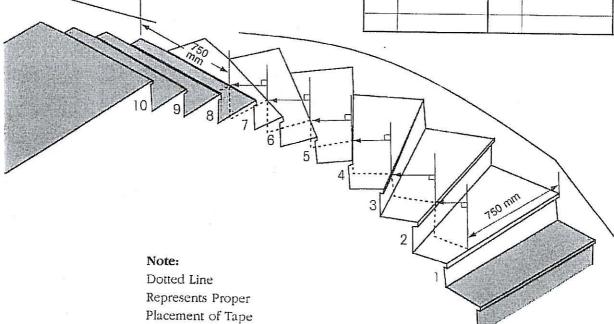
Place a piece of masking tape 750mm from the outside edge wall (or baseboard) in the spiral flight. Place the tape so that the edge of the tape represents the 750mm mark. This leaves no room for uncertainty about where the 750mm mark is. Do not remove the tape from the tread noses because it will be used throughout the measuring process.

Using the framing square, measure the individual inside tread depths horizontally from the 750mm mark to the 750mm mark of the next tread nose. Remember: do not measure under the nose of the next tread and do not measure diagonally from tape mark to tape mark.

Record the measurements on the measurement Sheet-Order Form chart.

# 1st Spiral Flight 2nd Spiral Flight Inside Tread Inside Tread Riser No. Inside Tread Width at 750mm Tape mark Riser No. Inside Tread Width at 750mm Tape mark





with 750mm mark.

# Using a plumb line to measure

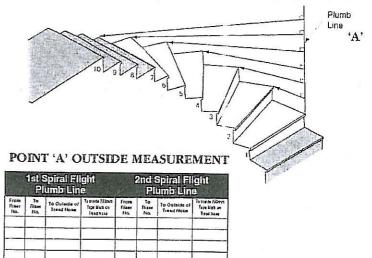
#### Setting up a plumb line

Securely attach the plumb line to
the ceiling or wall of the
stairway. Hang the line directly
above the outside edge of the
first tread nose for each spiral
flight. Use a level to make sure the
plumb line hangs down straight.

Note: In some cases such as in a 180° spiral, it is impossible to measure to each tread nose from only one plumb line. In a situation such as this, a second plumb line will have to be set up above the next to last tread nose that was measured to. Remember to include the position of each plumb line on your stairway sketch.

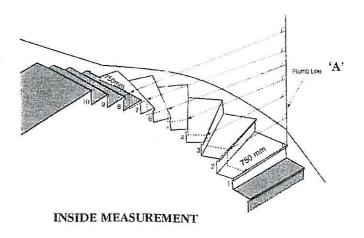
### How to take the outside measurement

Measure horizontally from the plumb line to the outside edge of each tread nose, use a line level or framing square to make sure measurements are horizontal. Record the measurements on the Measurement Sheet-Order Form chart.



#### How to take the inside measurement

Measure horizontally from the plumb line to the 750mm mark on each inside tread nose. Use a line level or framing square to make sure measurements are horizontal. Record the measurements on the Measurement Sheet-Order Form chart.



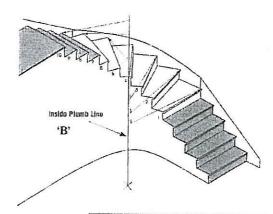
# Using an inside plumb line



Drop a vertical plumb line anywhere in the open part of the stairwell and secure it to the floor. (Sometimes a hanging chandelier offers a point of attachment). This will be the inside plumb line.

### Measuring to the Outside Tread

1) Measure horizontally from the inside plumb line to each outside step nose. Use a line level or framing square to make sure your measurements are horizontal. Record the measurement on the measurement Sheet-Order Form chart.



INSIDE PLUMB LINE TO OUTSIDE TREAD

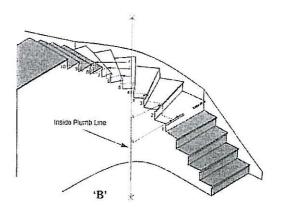
INSIDE PEUMB LINE TO INSIDE TREAD

### Measuring to the inside 750mm mark

Measure horizontally from the inside reference line to the inside 750mm tape mark on each tread nose. Use a line level or framing square to make sure your measurements are horizontal. Record the measurement on the Measurement Sheet-Order Form chart.

### POINT 'B' MEASUREMENT

1st Spiral Flight Inside Plumb Line			2nd Spiral Flight Inside Plumb Line		
To Riser No.	To Outside of Tread Nose	To thirds 750mm Tape Mark on Treed Nose	To Riser No.	To Outside of Tread Nose	To inside 750mm Tape Mark on Tread Nose
-					



INSIDE PLUMB LINE TO INSIDE TREAD