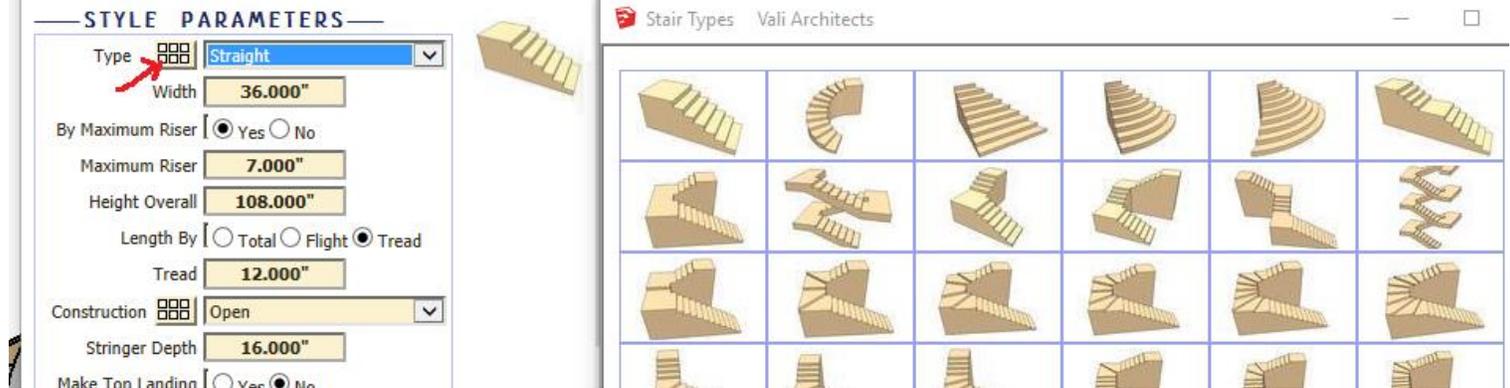


Instant Stair Parameters

Most of the menu items are accompanied by an image to identify the function. Units for this tutorial are shown in inches, but any units that Sketchup supports including Metric or Architectural may be used.

Type The basic type of stair or ramp. Click the  icon to display the image gallery. A family of related styles can sometimes be made from a single style simply by changing type and saving as a new style.



Hand For stairs or ramps that are not straight.



Flair and Fan Arc stairs Flair distance is chosen separately for right and left sides for Flair stairs. For Fan Arc stairs the Flair parameter adds a curve in addition to the Flair Angle (see below) and the same for both sides.



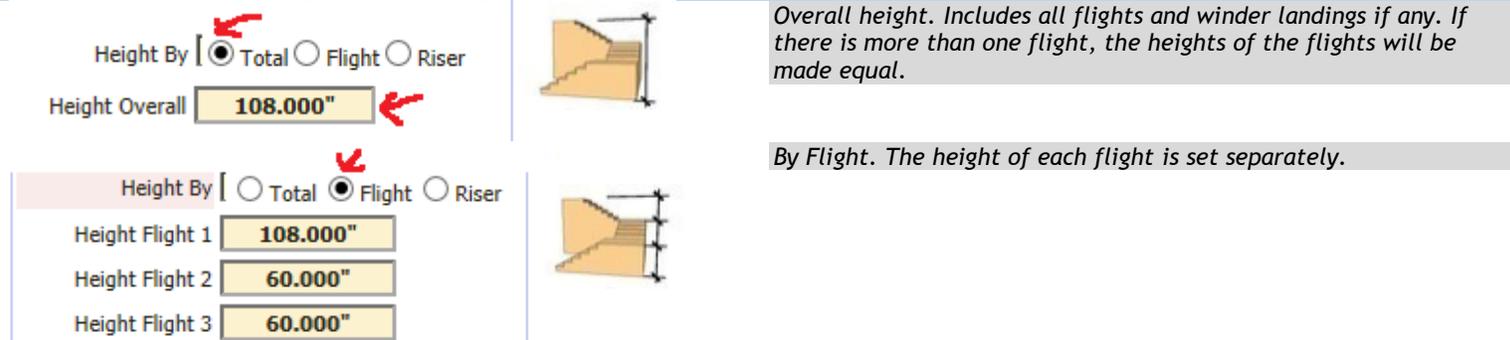
Fan and Fan Arc stairs The angle for the stair shape in degrees



Width The width of the stair or ramp not including curbs or stringer width if any. Units for this tutorial are shown in inches, but any units that Sketchup supports including Metric or Architectural may be used.



Options for setting Stair Height There are 3 ways to set the height of the stair

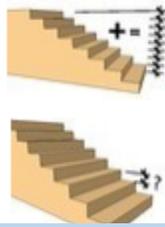


Overall height. Includes all flights and winder landings if any. If there is more than one flight, the heights of the flights will be made equal.

By Flight. The height of each flight is set separately.

Height By Total Flight Riser

Riser



By Riser. The height of the stair is set by the number of risers x the riser height.

Options for setting Ramp Height *There are 3 ways to set the height of the ramp*

Height By Total Flight %

Height Overall



Overall height. Includes all flights and winder landings if any. If there is more than one flight, the heights of the flights will be made equal.

Height By Total Flight %

Height Flight 1

Height Flight 2

Height Flight 3



By Flight. The height of each flight may be set separately.

Height By Total Flight %

% Grade



Either height or length of ramp may be set by %, but not both for obvious reasons.

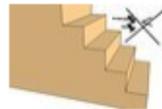
Number of Risers *The number of risers can be entered manually for each flight or the script can calculate the number of risers making them less than a maximum riser height. I generally prefer to use maximum riser height.*

By Maximum Riser Yes No

Number of Risers

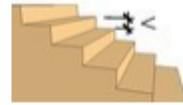
Number of Risers 2

Number of Risers 3



By Maximum Riser Yes No

Maximum Riser



Number of Levels *For multi-level stacked stairs*

Number of Levels



Stair Length *There are 3 ways to set the length of the stair.*

Length By Total Flight Tread

Length Overall



Overall length. Includes all flights. If there is more than one flight, the lengths of the flights will be made equal.

Length By Total Flight Tread

Flight 1 Length

Flight 2 Length

Flight 3 Length



By Length. The length of each flight is set separately.

Length By Total Flight Tread

Tread



Length By Line Length Tread



Line Length is a parameter available to the Stair from Alignment method. If "Tread" is chosen for this parameter, the stair length will be based on the Tread length parameter instead of the input line length.

Ramp Length There are 3 ways to set the length of the ramp.

Length By Total Flight %
 Length Overall



Overall length. Includes all flights. If there is more than one flight, the lengths of the flights will be made equal.

Length By Total Flight %
 Flight 1 Length
 Flight 2 Length
 Flight 3 Length
 % Grade



By Length. The length of each flight is set separately.

Length By Total Flight %

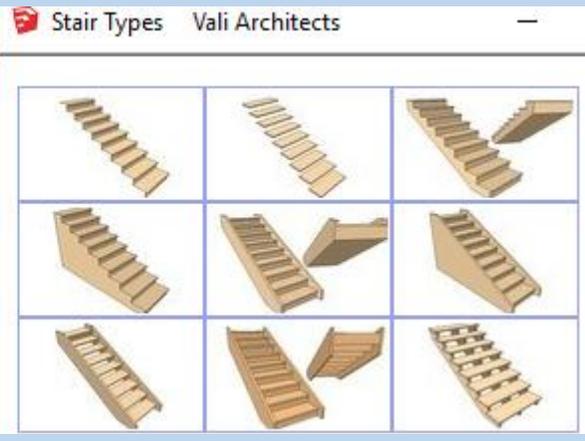


Either height or length of ramp may be set by %, but not both for obvious reasons.

Construction The configuration for the stair or ramp run. Some stair and ramp types may not allow all options for construction.

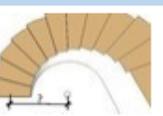
Click the  icon to display the image gallery.

Construction  Open



Radius For Spiral stairs, to the mid point of the tread

Radius



Arc Precision Number of arc segments used for all round features (except round tread nosing which is fixed). Eg. Spiral Stairs, Fan Stairs, Curtail, Center Post.

Arc Precision



Subtended Angle For Spiral stairs. The angle that the stair turns through.

Subtend Angle(Deg)



Center Post For Spiral stairs, a cylindrical post may be placed in the center (Available for Treads Only, Open Riser, and Closed Riser construction types only)

Center Post Yes No

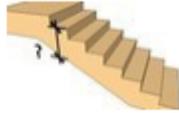


Center Post | Yes No

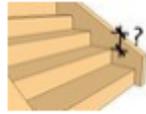


Stringer and Curb *Some of these parameters will be unavailable for some types and construction.*

Stringer Depth | 16.000" | x



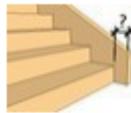
Curb Height | 4.000" | x



Stringer Width | 2.000" | x

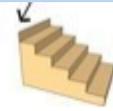


Stringer Extension | 4.000" | x



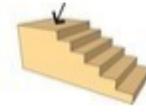
Landings

Make Top Landing | Yes No



The top of a stair or ramp will terminate at the top of the ramp or highest stair riser

Make Top Landing | Yes No



Creates a top landing at the top of a stair or ramp.

Landing Width | 96 | x



For Switchback shaped stairs and ramps

Landing Depth | 60.000" | x



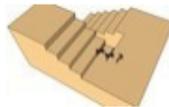
For Straight landing shaped stairs and ramps and top landings

Extension top | 12 | x



Extend landing at top of stair or ramp run.

Extension Bot | 12 | x



Extend landing at boitom of stair or ramp run.

Nosing *Check the NOSING box to add nosing to the treads. Nosing may also project past the side of the stair for some stair types and construction.*

NOSING

Type | Angle Bull Rect



NOSING

Type | Angle Bull Rect



NOSING

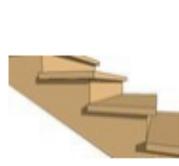
Type | Angle Bull Rect



NOSING

Type | Angle Bull Rect

Side Nosing | Yes No

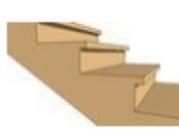


Extend the nosing around the sides of the tread. Not available for some types and construction.

NOSING

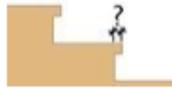
Type | Angle Bull Rect

Side Nosing | Yes No



Nosing dimensions

Width



Thick



Curtail or Bullnose Step *Not available for some types and construction.*

CURTAIL

Type | Left Right Both



CURTAIL

Type | Left Right Both



CURTAIL

Type | Left Right Both



Width



Extension



Railing Lines *Instant Stair does not make railings. But it can add curves and lines to assist with making railings by other means.*

Important: if you are using Instant Fence and railing and you are using the stair from alignment method or your stair has been rotated, you must copy/paste the stair curves out of the stair component, then make railings and cut/ paste the railings back into the stair component. If you make the railings in the rotated component they can get clipped.

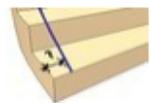
RAILING LINES

Offset Right +/-



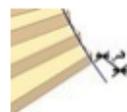
Offset the line in or out from the right side of the stair.

Offset Left +/-



Offset the line in or out from the left side of the stair.

Extend Right +/-



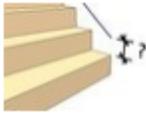
Lengthen or shorten the line from the first riser on the right side of the stair.

Extend Left +/-



Lengthen or shorten the line from the first riser on the left side of the stair.

Raise/Lower +/-



Raise/lower the lines above/below the stair top.