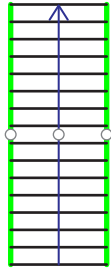
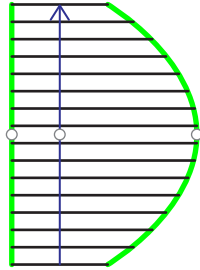


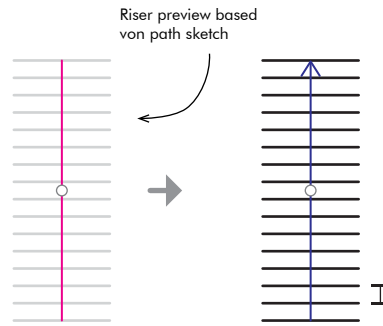
Arc from line - smart risers



Stair by component

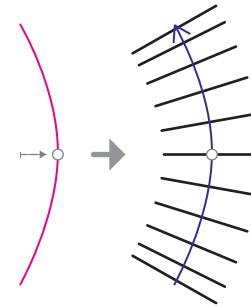


Create curve from line



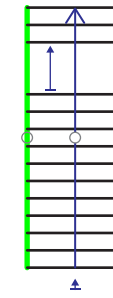
Stair by Path - smart riser array

Riser distance:
Based on stair
calculation rules



(Spacing should be consistent!)

Additional shape handles

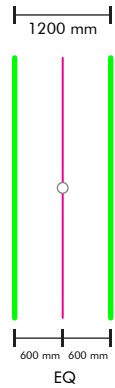


Riser stretch

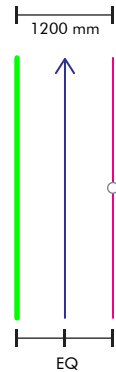
Context aware spacing for risers:
Spacing for one riser does not break overall
parametric behavior and can be specified
per riser from the shape handle or from the
properties panel. An overall stair stretch
handle is also shown at the path when
hovering over with the cursor.

riser 12:	300 mm
riser 11:	900 mm
riser 10:	300 mm

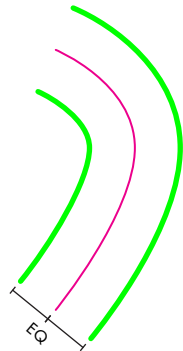
Stair by path - creation types



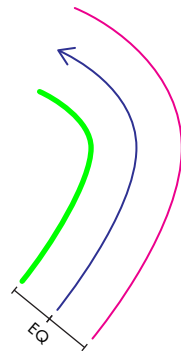
From center
Specify total width or offset



From edge
Specify offset

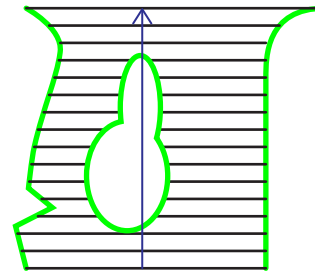


From center
Specify total width or offset



From edge
Specify offset

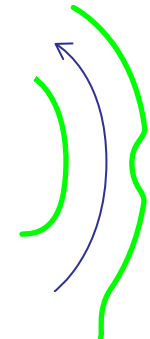
Boundary behavior



Stair by component
Risers extend to boundary,
closed boundary creates a void

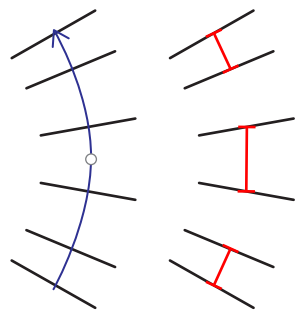


Stair by path
Risers should be previewed

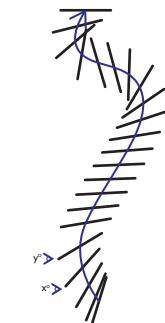


Edit boundary sketch
Risers should extend to the boundary lines

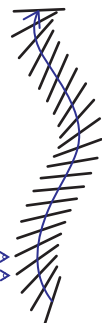
Advanced Algorithms



Spacing algorithm

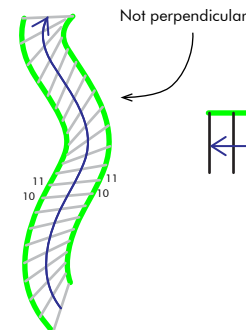


Angle parameter



Smoothness algorithm

The closer the angles x and y are,
the smoother the stairs.



Perpendicularity parameter

Perhaps the boundary lines
could be used to further control
the riser angle by adding a
parameter for perpendicularity
to the boundary line(s). This may
be particularly useful for spline
based stairs.