

# *CadCamSystems*

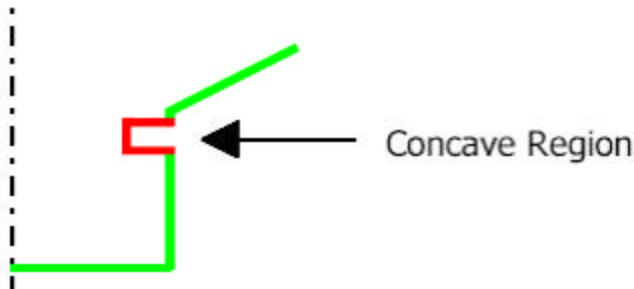
## *Support Document*

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### Form Tools in PowerSHAPE

There are certain rules that must be followed when creating an allowable **.dgg** profile for a form tool in PowerSHAPE. The red spans in the figures below are spans that break the rules, and so will not create a form tool.

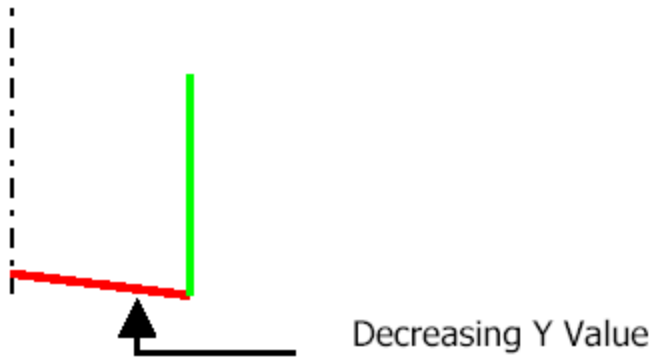
- All curves used to create a form tool must be lines or arc spans.
- All arc spans must be tangent.
- All lines and arc spans must be concatenated to form one composite curve.
- Remembering that the first point must be at 0,0
- Ensure that you have an **XY View** displayed. The Y axis is the centerline of the tool.
- The composite curve, or profile, must be convex. It cannot have any concave regions.



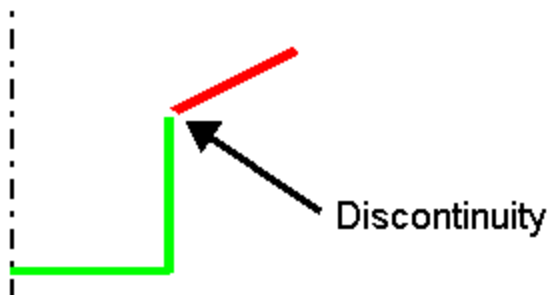
- Each span must have an increasing X value.



- Each span must have an increasing Y value.



- There cannot be any gaps between neighboring spans.



- The curve direction must be from 0,0 to the end of the form tool.

