# Edge Profiling in Part Editor – Demystified

Edge profiling in the Part Editor can be quite confusing and frustrating.  The tables in this document should help demystify this operation and make it easier to understand.

A very simple 45° chamfer tool was used for all examples.  The tool was created with four different orientations to illustrate how tool orientation and tool path affects the edge being profiled and the required plunge/offset settings for that orientation/path combination.

For these examples the left face frame stile from a Standard Base Framed cabinet was used.  The stile is 2 inches wide and ¾ inch thick.

The tools were created in the shape manager and all are ¾ inch by ¾ inch.  All tools start at the 0,0 intersection in the shape manager.  The tools do not have a diameter set so radius compensation will not work.

All dimensions and measurements (plunge and offset) are in inches.

Material Color is the color shown in the Tool Selection dialog and represents the area where the profile will be cut.

View Direction is the end of the material you would be looking at if it were standing upright on the floor.  Top means you are looking down from the top, bottom means you are looking up from the bottom.

I hope this helps eliminate some of the confusion and frustration from creating edge profiles.

If you have any questions or comments, please contact me at depps@ecabworld.com.

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| Tool Path Top Left | | | | |
|:---:|:---:|:---:|:---:|:---:|
| Tool Shape | Profile Shape | Plunge, Offset | Material Color | View Direction |
| | | **-.75**<br>**2 left** | **Blue** | **Top** |
| | | **-.75**<br>**.75 left** | **Blue** | **Top** |
| | | **-.75**<br>**.75 left** | **Blue** | **Top** |
| | | **-.75**<br>**2 left** | **Blue** | **Top** |

| Tool Path Top Right | | | | |
|---|---|---|---|---|
| Tool Shape | Profile Shape | Plunge, Offset | Material Color | View Direction |
| | | **-.75**<br>**0** | **Yellow** | **Top** |
| | | **-.75**<br>**1.25 right** | **Yellow** | **Top** |
| | | **-.75**<br>**1.25 right** | **Yellow** | **Top** |
| | | **-.75**<br>**0** | **Yellow** | **Top** |

| Tool Path Bottom Left | | | | |
|---|---|---|---|---|
| Tool Shape | Profile Shape | Plunge, Offset | Material Color | View Direction |
| | | **-.75** **0** | **Yellow** | **Bottom** |
| | | **-.75** **1.25 right** | **Yellow** | **Bottom** |
| | | **-.75** **1.25 right** | **Yellow** | **Bottom** |
| | | **-.75** **0** | **Yellow** | **Bottom** |

| Tool Path Bottom Right | | | | |
|---|---|---|---|---|
| Tool Shape | Profile Shape | Plunge, Offset | Material Color | View Direction |
| | | **-.75**<br>**2 left** | **Blue** | **Bottom** |
| | | **-.75**<br>**.75 left** | **Blue** | **Bottom** |
| | | **-.75**<br>**.75 left** | **Blue** | **Bottom** |
| | | **-.75**<br>**2 left** | **Blue** | **Bottom** |