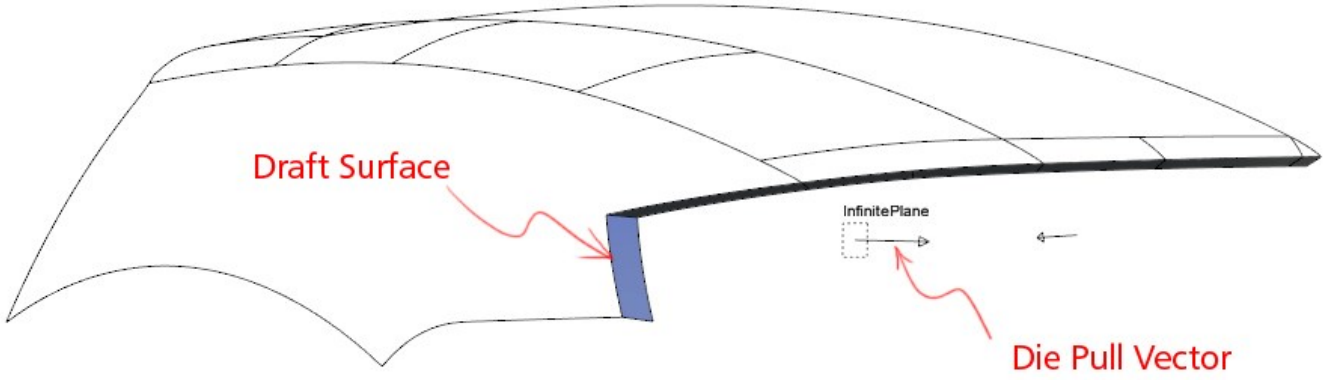
A5.26 : Light Housing – Draft Surfaces

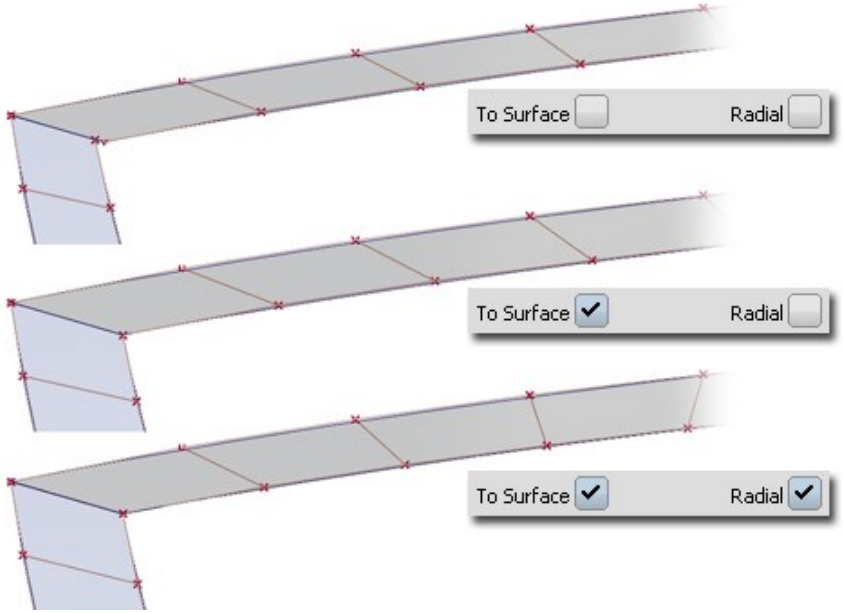
In this tutorial, Barry creates the edge flange on the metal component using the Multi-Surface Draft tool.

The flange is created to engineering requirements for a 5 degree draft angle in the direction of the Vector supplied in the file.



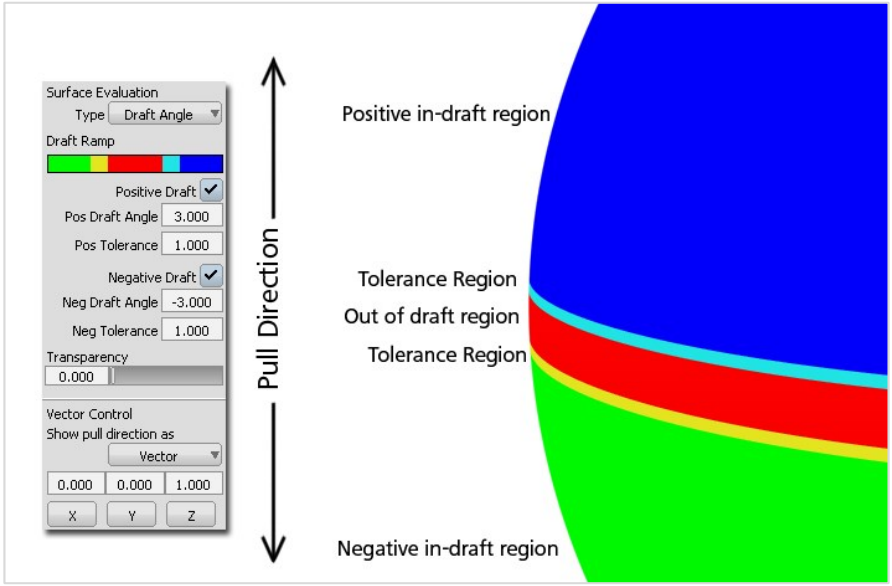
Flange Hull Direction & Length Evaluation

The MS Draft tool has been updated in Alias 2016 to give you more control over the lengtho fthe flange and the CV layout



Draft Angle Evaluation

The Surface Evaluation shader defaults to Draft Angle mode and is used to evaluate and refine the flange surfaces to comply with engineering requirements.



INDEX

Time	Topic	Menu/Palette	Tool	Options
0.07	Introduction to the new options in MS Draft, in particular 'Radial'	Surfaces	**Multi-Surface Draft**	
0.40	First, build draft surfaces without the new 'Radial' option			
1.04	Viewing in a die-pull direction, using a construction plane on the vector			
1.52	Measuring the resultant Flange width	Locators > Deviation	**Curve to Curve**	
2.33	Understanding how the default distance is calculated			
3.00	Understanding what we want from the Radial option			
3.39	Using the 'To Surface' option	Surfaces	**Multi-Surface Draft**	*To Surface*
4.31	Understanding that the surface direction (CV Layout) is determined by the draft vector			
5.03	Example of extra surfaces created with Fillets, due to surface direction			
5.36	Using the 'Radial' option	Surfaces	**Multi-Surface Draft**	*Radial*
7.03	Fixing the continuity on the radial draft surface	Control Panel > Xform CV	**Move**	*Parallel & Normal*
7.34	Checking the Draft Angle with the Surface Evaluation shader	Diagnostic Shade	**Surface Evaluation**	*Draft Angle*
9.22	Tidying up the corner with manual Trim Convert	Surface Edit > Trim	**Trim Convert**	*3D Trimming*
10.21	Trimming the corner automatically within MS Draft	Surfaces	**Multi-Surface Draft**	*Intersect Flanges Trim Convert*
11.05	Checking surface normal for the draft analysis	Surface Edit > Orientation	**Set Surface Orientation**	
11.33	Manually tuning the draft surfaces	Control Panel > Xform CV	**Move**	*Projected*
12.05	Manually tuning the draft surfaces	Control Panel > Xform CV	**Move**	*Prop Mod-Normal*
12.35	Checking the draft angle at any point on the surface	Object Edit	**Query Edit**	*(with draft shader)*
12.56	Conclusion			