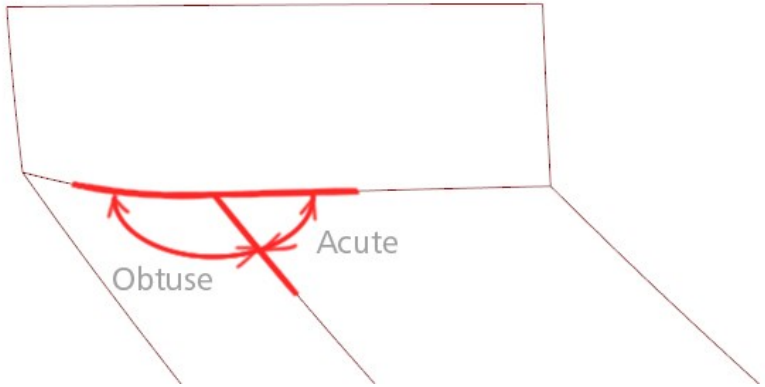
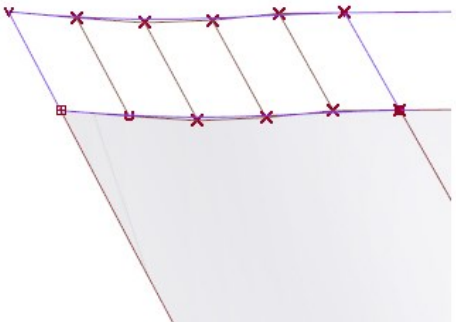
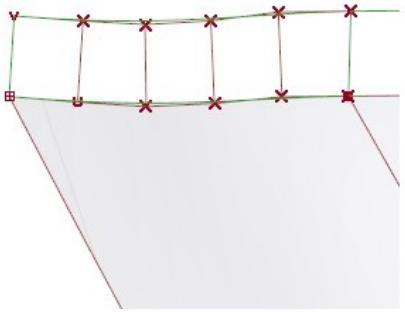
A3.14 : Chordal Fillet and Internal Continuity

A Surface Fillet is built across a set of surfaces with acute and obtuse angles between the primary surface patches. This tutorial examines how the angle drives the flow of CVs in the fillet and causes problems with the internal continuity. The angle also becomes important when measuring the minimum radius of the final fillet.



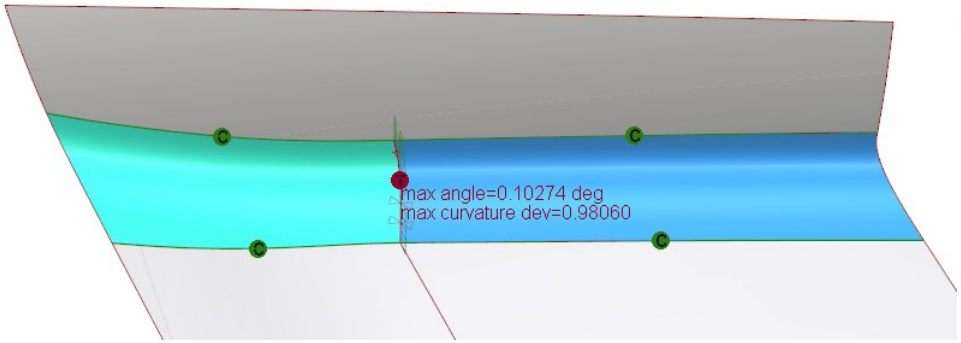


CV Layout in the **Linear Direction** from the edge

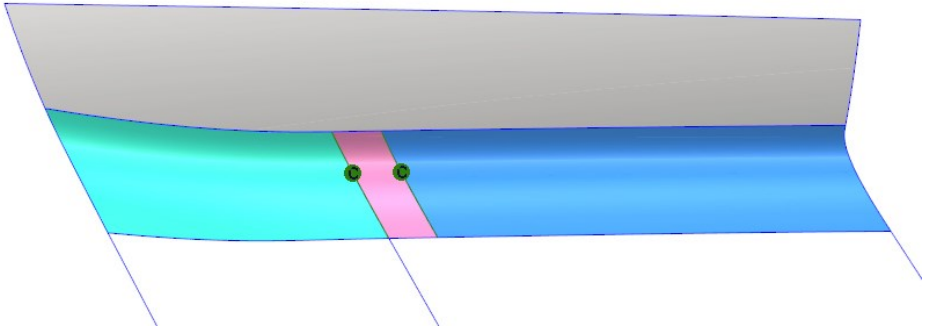


CV Layout in the **Radial Direction** of the edge

The continuity problem lies between the two patches created by the Surface Fillet tool. The solution is to use the Edge Align option, but some preparatory work is required on the surfaces to control the alignment to create the best flow of CVs. The shape of the outer edge of the fillet is improved by using a Chordal Fillet.



The problem



The solution

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