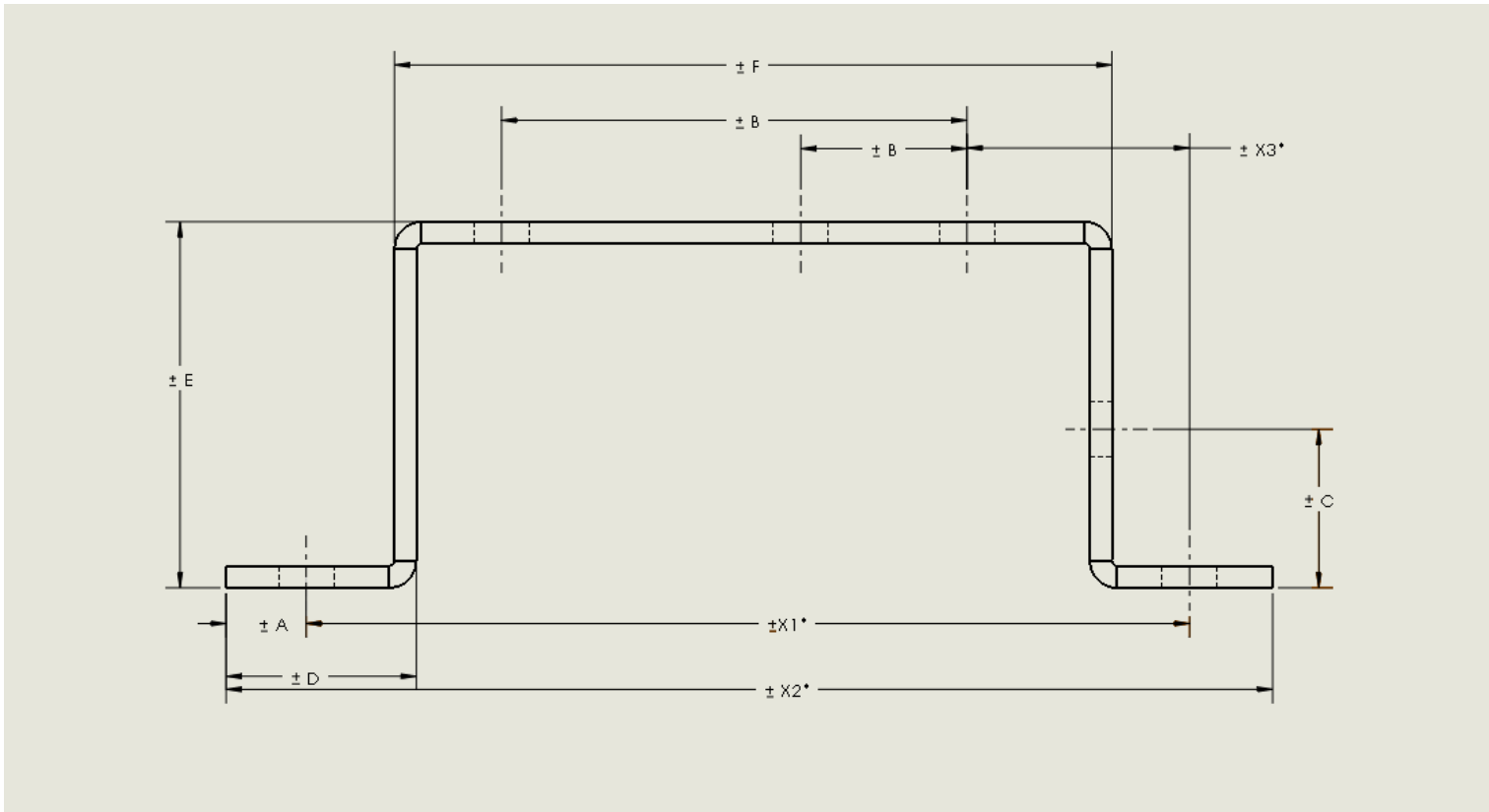




Sheet Metal Fabrication Tolerances

Our machinery is capable of repeating operations within .004", however if the feature does not require such a high degree of accuracy to meet its form or fit requirements then it is simply engineering overkill. Adding tolerances of +/- .005" adds a considerable amount of engineering, processing, inspection labor that results in higher cost and lower productivity. Correctly tolerance parts still have excellent fit and function, with the added benefit of manufacturing efficiency. Excalibur has put together recommended tolerance schemes listed below.



Dimensions	Tolerance (Metric)	Description
A	.005" (.12mm)	Sheared edge to center of hole
B	.005" (.12mm)	2 center holes on same plane
C	.010" (.25mm)	Formed edge to center hole
D	.010" (.25mm)	Sheared edge to bend
E	.010" (.25mm)	Across 2 bends
F	.010" (.25mm)	Across 2 bends
X1*	.030" (.75mm)	Center to center across 4 bends
X2*	.030" (.75mm)	Overall length
X3*	.030" (.75mm)	Center to center across 2 bends

* Not recommend form of dimensioning

These tolerance are recommended by Excalibur's engineers for best practices. We can obtain higher tolerances so feel free to contact us to discuss your parts requirements.