

General Information:

All dimensions reflect outside dimensions unless otherwise stated. Basic dimensions & tolerances apply at the point of tangency of the radius. Bow tolerances are additive to the base dimension and tolerances.

Piercing, slotting and trimming burrs will be maintained within tolerances indicated below. If closer tolerances than stated below are required, we can provide additional secondary operations, at an additional charge to meet your specific needs.

The thickness specified in all of our catalogs is the nominal thickness of the blank stock. The process of deep drawing is inherently to displace material, called ironing. This process of flowing the material allows for complete fill of the corners and flanges. Thus corner radii and the closed end of the case will have a thicker cross section than the side walls. The actual wall thickness of the side wall is typically 75% of the nominal blank stock thickness.

Draw marks, scratches and scuffing are inherent to deep drawing of malleable materials. Additionally, minor cosmetic defects such as surface dings, tool repair marks and raw material imperfections (dents, scratches, etc.) are acceptable flaws in a production environment. A blemish free finish, secondary finishing operations and/or 100% sorting may be required and are available for a modest additional charge.

Geometric Tolerances:

	Size Range	Tolerance	Bow / Roundness
Width, Length & Diameter	0.000 – 0.749"	+/- 0.010"	0.010"
	0.750 – 1.499"	+/- 0.012"	0.012"
	1.500 – 1.999"	+/- 0.015"	0.015"
	Over 2.000"	+/- 0.020"	0.020"
Depth:	All	+/- 0.030"	N/A
Radii:	Side	+/- 0.010"	N/A
	Bottom	+/- 0.015"	N/A
Burrs:	All	0.005" max	N/A
Holes & Slots	Location Size	+/- 0.015"	N/A
		+/- 0.015"	N/A
Nut Plates:	Location	+/- 0.030"	N/A

Material Stock:

Stock Thickness	Tolerance
0.010 – 0.012"	+/- 0.002"
0.016 – 0.028"	+ 0.002"
	-0.003"
0.031 – 0.042"	+ 0.002"
	-0.004"
0.043" & Over	+/- 0.005"

Disclosure:

All custom deep drawn enclosures will require custom engineering design and tooling manufacturing charges. The manufacturer maintains all rights and ownership to the design and the physical tools. In exchange, the manufacturer will be responsible for all maintenance cost associated with minor repairs during the normal service life of the tooling. Tools that are dormant for a period exceeding 12 months will be deemed obsolete and may be disposed of accordingly. At no time will the Customer be granted or be construed as having any ownership or claims against the manufacturer's tooling. In the event that the manufacturer ceases operations, all tooling may be disposed without any prior Customer notification