

# Essential Design Guidelines for Sheet Metal Fabrication

Transforming flat metal sheets into complex designs requires key guidelines for manufacturability, aesthetics, and structural integrity.



## 1. Min Bend Radius & Relief

Prevents material cracking or deformation during bending. Bend relief features (fillets/cutouts) reduce stress concentrations and enhance durability.



## 2. Hole Placement & Sizes

Ensures accurate alignment with mating components, facilitating assembly and avoiding misalignment. Consider spacing, edge distances, and deburring.



## 3. Material Selection & Thickness

Choose based on mechanical properties, corrosion resistance, and cost. Thickness affects strength, weight, and manufacturing complexity.



## 4. Assembly & Mounting Features

Select compatible fasteners. Include mounting features like tabs or slots for secure attachments and ease of assembly.



## 5. Cosmetic Considerations

Ensure surface finish and dimensional tolerances meet aesthetic and functional requirements for the final product.



## 6. Manufacturing Process

Consider processes like laser cutting for precise cuts, and bending/forming based on material ductility and springback characteristics.

Adhering to these guidelines optimizes sheet metal fabrication designs for better manufacturability, functionality, and aesthetic appeal.

# Model Guidelines For Design Fabrication

**L Towne**



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