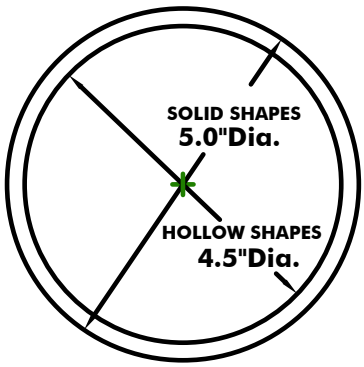
BRITELINE DESIGN GUIDE

1. Maximum Circle Size is 6”

Briteline extrudes 6” diameter billets. For best results, we extrude solid shapes up to 5”and hollow shapes up to 4.5”



Note: To be used as a guide.
Quotes based on actual prints.

2. ALLOYS USED

6063 Most popular extrusion alloy. Good surface finish; corrosion resistant; can be heat treated for strength

6463 Designed to accept brite finish. Good for decorative trim applications and shower door parts. Machinable. Heat Treatable

6005 Good extrudability and strength. Good surface finish response, machinability; Heat treatable.

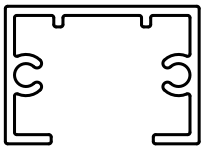
3. MINIMUM WALL - .040/SOLIDS & .050/HOLLOWS

4. MAXIMUM POWDERCOAT LENGTH - 12'

3. MAXIMUM ANODIZE LENGTH - 12' 20’ anodizing line under construction, available mid-2011

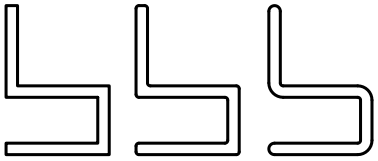
For the most cost-effective, functional, and attractive part, your design should be as production-friendly as possible.

PARTS NEED TO BE AS SYMMETRICAL AS POSSIBLE



EXAMPLE

RADII NEED TO BE AS LARGE AS POSSIBLE



NOT GOOD GOOD BETTER

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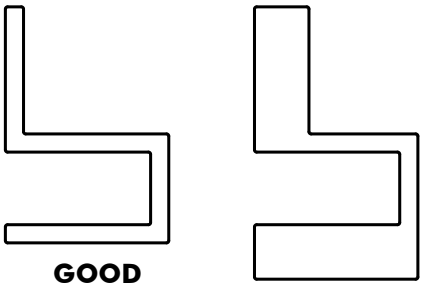
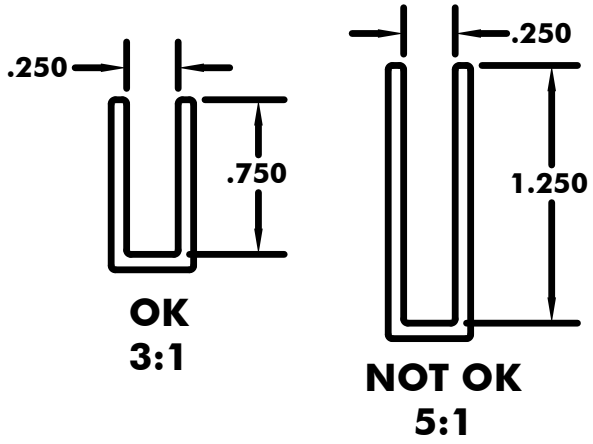
BRITELINE DESIGN GUIDE

THICKNESS NEEDS TO BE AS UNIFORM IF POSSIBLE

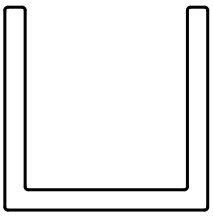


KEEP TONGUE RATIOS AS CLOSE TO 3:1 AS POSSIBLE



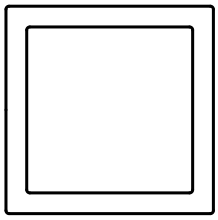
TYPES OF DIES EXTRUDED AT BRITELINE

Solids: Use solid dies wherever possible. They are easier to extrude; reduce die cost; takes 2 weeks to make a solid die.



SOLID EXAMPLE

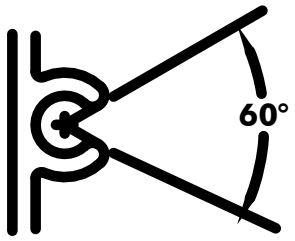
Hollows: An extruded shape which completely encloses a void. Harder to push, costs more to construct a hollow die; takes 3 weeks



HOLLOW EXAMPLE

Screw Boss: Often you can put a screw boss in your design to save die costs. A fully encapsulated hole qualifies as a hollow die. By using a screw boss design, you get the functionality of the hole, less metal required in the extrusion, and a less expensive solid die.to make a hollow die.

SCREW BOSS EXAMPLE



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BRITELINE DESIGN GUIDE

CHECKLIST

- Description or drawing of part, with part name and number
- Product's intended end use. This will help us determine alloys, tempers and other factors.
- Requirements for finish, machinability, strength and other necessary properties.
- End use lengths and purchased lengths, if different
- Tolerances required. If special tolerances are required for the part, be sure to discuss before making the die.
- Fits and assemblies. Mating parts are required to design a part that will produce a good fit.
- Surface finish requirements. If color matches or brush matches are required, finish sample should be sent with RFQ.
- Exposed surfaces clearly marked on drawing.
- Fabrication requirements and fab print.
- Quantity for first order and anticipated annual usage.
- Packaging requirements. Size, type, weight requirements per package.