**Angles Project Build Instructions**

**Materials required:**

* 2—2”x 8” x ¼” plate metal 6011 or 6010 rod

**Instructions:**

* Take the two pieces of plate metal and tack weld them together at a 90-degree angle making the metal similar to a single piece of angle iron.
* Cut in half to make two equal pieces with OFC process.
* 45 degree each piece with OFC process.
* Tack on inside of angle making a 90-degree corner where the piece will sit flat and/or flush with no warping.
* When all sides are 90-degrees and will sit flush, weld up using back step method to guard against warping.
* Weld all joints.
* Grind off just shy of flush (do not grind base metal!).
* File to obtain a perfectly smooth surface.