

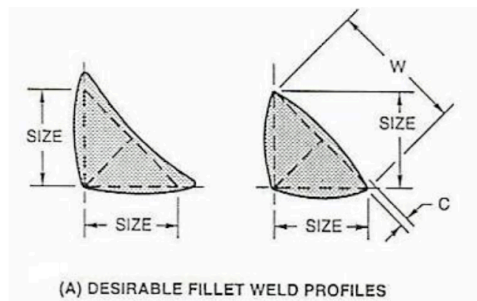
UW-Stout Welding Fabrication Project Inspection Criteria

Overall

- Proctor signature on project and paperwork (disqualification if not signed).
- Dimensions of cut and assembled parts $\pm 1/16"$.
- All joints shall be square within $1/8"$ measured 16" from the joint, except those that require a specific angle.
- The project shall be cleaned of excessive weld spatter.
- Projects may not be painted or coated.
- No welds shall be ground off unless specified on the print.

Welds

- All welds shall be made using the correct welding process when a specific process is required. (See print for details)
- Welds shall be uniform in appearance
- Undercut shall not exceed $1/32"$
- Welds shall be free of any overlap
- All beads shall be free of excessive spatter
- Any crack shall be unacceptable
- Craters shall be filled
- Welds shall be free of visible porosity and inclusions.
- Fillet weld
 - All fillet welds shall have a minimum size of $1/8"$ with no maximum
 - Fillet weld size shall be uniform from start to finish of bead within $\pm 1/16"$
 - Length, if specified, is the minimum length not including undersize portions.
 - The profile shall be flat with only minor convexity or concavity unless otherwise specified on the print. (See figure below for visual reference only)



- Groove welds
 - Groove welds shall not be underfilled (below the surface of the base metal)
 - Groove welds may require a post-weld finish. See print for details.