

Fabrication Process Guide

Cutting, forming, joining, finishing — the routing logic in one page.

1. Cutting

- Laser: flexible, clean to 25 mm steel
- Punch: wins past ~500 pcs with repeated features
- Plasma: thick plate economy
- Waterjet: zero heat input

2. Forming

- Folding: documented allowances per material
- Rolling: cylinders and cones
- Pressing: tooling for volume

3. Joining

- TIG: cosmetics, thin gauge, aluminium
- MIG: speed and thick steel
- Rivet/clinch: distortion-free, coated sheet
- Spot/stud: sheet assemblies at speed

4. Finishing

- Powder: colour, indoor/outdoor
- Galvanise: structural outdoor life
- Plate: conductivity and thin films
- Anodise: aluminium only, wear + looks

Send this via the quote form, or email support@pa-international.com.au. One dedicated engineer replies with engineering feedback and itemised pricing.