MATERIAL SELECTION GUIDE

ONE STOP CUTTING SHOP

ALUMIUMINIUM

Material	Thickness Range (mm)	Stocked by OSCS	General cut process	Comments	Common uses
Aluminium 5005	0.7, 0.9, 1.2, 1.6, 2, 2.5, 3, 4, 5, 6mm	✓	Laser	Medium strength alum manganese, low to medium strength. Good ductility, corrosion resistance, and fold ability, excellent choice for anodizing.	Sheetmetal work, appliances. Good for folding and anodized components.
Aluminium 5052	0.9, 1.2, 1.6, 2, 2.5, 3, 4, 5, 6mm	✓	Laser	Medium strength alum-magnesium. Good ductility and corrosion resistance.	Marine, road vehicles, pressings, containers. Thicker parts can crack during folding. Decorative panels – ideal for Powdercoating
Aluminium 5083	3, 4, 5, 6, 8mm	✓	Laser	High strength alum-magnesium alloy	Marine, Welded pressure vessels, Aircraft. Not suitable for folding
Aluminium 5083	8, 10, 12, 16, 20, 25, 32, 40*, 50mm*	✓	Water	High strength alum-magnesium alloy	Marine, Welded pressure vessels, Aircraft. Not suitable for folding
Aluminium Tread plate 5052	1.6, 2, 3, 4, 5, 6mm	✓	Laser	Medium strength alum-magnesium. Good ductility and corrosion resistance Tread face must be clearly defined by customer on no symmetrical and folded items (we cut this material flat side up on the machines)	Slip and wear resistant surface, ideal for stair treads, platforms and walkways. Marine, road vehicles, pressings, containers. Thicker parts can crack during folding.

*Check availability and price

Disclaimer; the information above is for general information only. For specific properties and uses contact material suppliers directly.