MATERIAL SELECTION GUIDE

ONE STOP CUTTING SHOP

MILD STEEL

Material	Thickness Range (mm)	Stocked by OSCS	General cut process	Comments	Common uses
Mild Steel Hot Rolled (G250, G300, G350)	3, 4, 5, 6, 8, 10, 12, 16, 20mm	✓	Laser	Black appearance, very economical versatile material that cuts cleanly and has excellent formability.	All suitable applications
Mild Steel Chequer Plate	3, 3.2, 5, 6, 8, 10mm	✓	Laser	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.
Mild Steel (G250, G300, G350)	10, 12, 16,20 and 25mm	✓	Plasma	Can be easily drilled/ tapped. Cost effective if the part is not too complex.	Structural parts. Machine components. Gussets. Flanges. Rings
Mild Steel (G250, G300, G350)	25, 32, 40, 50mm to 100mm	✓	Gas (Flame)	Produces superior edge quality to plasma on thicker plate.	Structural parts. Machine components. Gussets. Flanges. Rings.
Bis 80	3, 4, 5, 6, 8, 10, 12, 16, 20mm	✓	Laser	High strength alloy steel with excellent formability and weldability.	Transport equipment, lifting equipment high stress and high fatigue environments
Bis 80	25, 32, 40*, 50mm*	✓	Gas (Flame)	High strength alloy steel with excellent formability and weldability.	Transport equipment, lifting equipment high stress and high fatigue environments
Bis 400	5, 6, 8, 10, 12, 16, 20mm	✓	Laser	Tough hard abrasion resistant alloy steel.	Digger buckets cutting edges, wear liners, chutes, high wear and high impact environments.
Bis 400	25mm	✓	Gas (Flame)	Tough hard abrasion resistant alloy steel.	Digger buckets cutting edges, wear liners, chutes, high wear and high impact environments.
Corten	2.5, 3, 4, 5, 6mm	✓	Laser	Corrosion resistant weathering steel with superior strength and heat resistance to mild steels.	Decorative panels, outside artwork and signage that is allowed to weather naturally, truck decks, fire pits and outdoor fireplaces.
Electro Galvanised sheet	0.6, 0.8, 1, 1.2, 1.6, 2, 2.5, 3.0mm	✓	Laser	Cold rolled mild steel sheet electroplated with a thin uniform layer of Zinc, corrosion resistant, excellent surface adhesion for painting or powder coating also known as EG or ZINTEC	Shop fittings, conveyor panels, machinery, electrical cabinets, powder coated components, internal applications.
Galvanised Sheet	0.4, 0.55, 0.75, 0.95, 1.15, 1.55, 1.95, 2.45, 2.95mm	✓	Laser	Cold rolled mild steel sheet hot dipped in Zinc, corrosion resistant, also known as GA or PG	Ducting, cladding, general sheet metal components that don't require painting.
Cold Rolled Steel Sheet	0.6, 0.8, 1.0, 1.2, 1.6, 2, 2.5, 3	✓	Laser	Clean uniform mild steel sheet with no mill scale, ideal for components that require electroplating after manufacture.	General non exposed sheet metal components, electro polished components.

*Check availability and price

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