

Sheet Metal Fabrication

Sheet Metal Materials List

Material	Grade	Key Characteristics
Aluminium Sheets & Profiles	7075 / 7075-T6	High / very high strength, lightweight, lower corrosion resistance
	6061	Good strength, excellent machinability, versatile
	6063	Good surface finish, ideal for extrusions
	5052	Excellent corrosion resistance, highly formable
	1050 / 1060	Excellent conductivity, highly formable
Stainless Steel	201	Economical alternative to SS304, good corrosion resistance
	301	High strength, excellent spring properties
	302	Good corrosion resistance, versatile
	303	Excellent machinability
	304 / 304L	Excellent corrosion resistance, general-purpose grade
	316 / 316L	Superior corrosion resistance, marine and chemical environments
Carbon & Alloy Steel	Q235	Cost-effective structural steel
	Q345	Higher strength structural steel
	A3 Steel	General-purpose mild steel
	Spring Steel	High elasticity and fatigue resistance
	Silicon Steel	Magnetic properties for electrical applications
Low Carbon Steel	A36	Widely used structural steel
	1008	Excellent formability
	1018	Good machinability and weldability
	1020	Balanced strength and toughness
Cold Rolled Steel (CRS)	SPCC	Smooth finish and tight tolerances
	DC01	Excellent cold-forming performance
Hot Rolled Steel (HRS)	SHCC	Economical for general fabrication
	Pickled Steel	Cleaner surface for downstream processing
Galvanized Steel	SECC	Corrosion-resistant zinc-coated steel
	SGCC	Zinc-coated steel, excellent corrosion resistance, cost effective

	Electrolytic Plate	High electrical conductivity, excellent corrosion resistance
Copper	T2 Copper	High purity, excellent conductivity, good formability
	Pure Copper	Excellent electrical and thermal conductivity
	Beryllium Copper	High strength, wear resistant, good conductivity
	Phosphor Copper	Good fatigue resistance, wear resistant, corrosion resistant
	White Copper	Corrosion resistant, attractive appearance, wear resistant
Brass	Standard Brass Alloys	Good machinability, corrosion resistance, attractive finish
Tinplate	Tin-Plated Steel Sheets	Corrosion resistant, suitable for enclosures and packaging