

Structural steels and minimum tensile properties

Form	Class	ASTM Designation	Product	Yield, ksi	Strength, ksi
Structural shapes	Carbon steels	A36	Carbon-steel shapes, plates, and bars; general purpose	36	58–80
		A529	Carbon-steel plates and bars 0.5" thick	42	60–85
	High-strength steels	A242	High-strength low-alloy shapes, plates, and bars; general purpose	42–50	63–70
		A441	High-strength low-alloy manganese- vanadium steel shapes, plates, and bars	42–50	63–70
		A572	High-strength low-alloy columbium- vanadium steel shapes, plates, sheet piling, and bars	42–65	60–80
		A588	High-strength low-alloy steel shapes, plates, and bars	42–50	63–70
Plates	Quenched and tempered steel	A514	Quenched and tempered plates of high yield strength	90–100	100–130
Structural pipe and tubing	Welded or seamless pipe	A53	Welded or seamless pipe, black or galvanized	30–35	48–60
		A500	Cold-formed welded or seamless tubing in round, square, rectangular, or special shapes	33–50	45–62
	A501	Hot-formed welded or seamless tubing in round, square, rectangular, or special shapes	36	58	
Sheet and strip steels	Carbon steels	A570	Hot-rolled carbon-steel sheets and strip in coils or cut lengths	30–50	49–65
		A611	Carbon-steel sheets, cold-rolled	25–80	42–82
	Low-alloy steels	A607	High-strength low-alloy columbium or vanadium, cold- or hot-rolled sheets and strip	45–70	50–85
		Zinc-coated (galvanized)	A446	Zinc-coated (galvanized) sheets in coils or cut lengths	33–80