

**TYPICAL ROCKWELL AND MECHANICAL RANGES FOR EACH GRADE**

Grade		Typical Rockwell Range	Typical Mechanical Range		
			Yield	Tensile	Elongation
Commercial Steel, Type B	CS	50 - 65	35 - 49	45 - 57	23 - 37
Forming Steel, Type B	FS	45 - 55	25 - 38	42 - 50	31 - 40
Deep Drawing Steel	DDS	36 - 50	25 - 35	40 - 47	35 - 45
Extra Deep Drawing Steel	EDDS	35 - 48	20 - 29	40 - 47	39 - 47
Structural Steel	SS	Rockwell Range	Minimum Mechanical Requirements		
Grade 33		--	33	45	20
Grade 37		--	37	52	18
Grade 40		--	40	55	16
Grade 50 (Class 1)		--	50	65	12
Grade 50 (Class 2)		--	50	--	12
Grade 50 (Class 3)		--	50	70	12
Grade 80 (Full Hard)		85 min	80	82	--