



A-572 Grade 50, 60, 65

Overview

A 572 Grade 50 is a high-strength, low alloy (HSLA), hot rolled steel plate. This low carbon / low alloy steel promotes good formability and weldability.

Chemical Requirements

Thickness in. (mm)	Grade	Carbon, max, %	Maganese, ^c max, %	Phosphorus, max, %	Sulphur max, %	Silicon ^{I, D, E}	Silicon ^{J, D}
						max, %	range, %
6 (150)	42 (290)	0.21	1.35 ^F	0.04	0.05	0.40	0.15-0.40
4 (100)	50 (345)	0.23	1.35 ^F	0.04	0.05	0.40	0.15-0.40
1½ (32)	60 (415)	0.26	1.35 ^F	0.04	0.05	0.40	G
>½-1¼ (13-32)	65 (450)	0.23	1.65 ^F	0.04	0.05	0.40	G
½ (13) ^H	65 (450)	0.26	1.35	0.04	0.05	0.40	G

Tensile Requirements

Grade	Yield Point, min		Tensile Strength, min		Min. Elongation, % ^{B, C, D}	
	ksi	(MPa)	ksi	(MPa)	in 8 in. (200 mm)	in 2 in. (50 mm)
42	42	(290)	60	(415)	20	24
50	50	(345)	65	(450)	18	21
60	60	(415)	75	(520)	16	18
65	65	(450)	80	(550)	15	17