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ASTM A537 / A537M - 95 (2000) Standard Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel

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Abbreviation

ASTM A537 / A537M - 95 (2000)

Valid from

15/06/1995

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

[This resource is cited by 1 document \(show Citations\)](#)

Description

This specification covers heat-treated carbon-manganese-silicon steel plates intended for fusion welded pressure vessels and structures.

Scope

This specification covers heat-treated carbon-manganese-silicon steel plates intended for fusion welded pressure vessels and structures.

Material under this specification is available in the following three classes:

Class	Heat Treatment	Thickness,	Yield	Tensile
			Strength,	Strength,
			min, ksi	min, ksi
			[MPa]	[MPa]
1	Normalized	21/2 in. and under[65 mm and under]	50 [345]	70 [485]
		Over 21/2 to 4 in.[Over 65 to 100 mm]	45[310]	65[450]
2	Quenched and tempered	21/2 in. and under[65 mm and under]	60 [415]	80 [550]

	Over 2 1/2 to 4 in.[Over 65 to 100 mm]	55[380]	75[515]
	Over 4 to 6 in.[Over 100 to 150 mm]	46[315]	70[485]
3	Quenched and tempered 2 1/2 in. and under[65 mm and under]	55 [380]	80 [550]
	Over 2 1/2 to 4 in.[Over 65 to 100 mm]	50[345]	75[515]
	Over 4 to 6 in.[Over 100 to 150 mm]	40[275]	70[485]

The maximum thickness of plates furnished under this specification is 4 in. [100 mm] for Class 1 and 6 in. [150 mm] for Class 2 and Class 3.

The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the specification.

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- [BS EN 1759-1:2004](#)

ASTM A537 / A537M - 95 (2000) is cited by BS EN 1759.1:2004 Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24.

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