

ASTM A633/A633M Standard Specification for Normalized High-Strength Low-Alloy Structural Steel Plates



ASTM A633/A633M Standard Specification for Normalized High-Strength Low-Alloy Structural Steel Plates. ASTM A633/A633M specification covers normalized high-strength low-alloy structural steel plates for welded, riveted, or bolted construction. ASTM A633/A633M Standard main steel grade: ASTM A633Grade A,C,D,E (A633GRA, A633GRC, A633GRD, A633GRE)

Standard: ASTM A633
Grade : ASTM A633 GrA,C,D,E

Thickness : 8mm-500mm
Width : 1000mm-4000mm
Length : 1000mm-20000mm

MOQ: 1 PC

EMAIL: info@steelguang.com

TEL: 0086-371-55023661

Product type : Steel plate
 Delivery time : Promptly (Stock) or 10-40 days (Production)
 Stock : Available
 MTC: Available

Delivery condition: N

Grade	Chemical composition %						
A633GR A	C	Si	Mn	P	S	Mo	Ni
	≤0.18	0.15-0.50	1.00-1.35	≤0.035	≤0.04	-	-
Mechanical properties							
	Yield Strength		Tensile Strength			Elongation in 2 in.	
	Mpa		Mpa			%	
	≧ 290		430-570			≧ 23	

Grade	Chemical composition %						
A633GR C	C	Si	Mn	P	S	Mo	Ni
	≤0.20	0.15-0.50	1.15-1.50	≤0.035	≤0.04	-	-
Mechanical properties							
	Yield Strength		Tensile Strength			Elongation in 2 in.	
	Mpa		Mpa			%	
	≧ 315		450-620			≧ 23	

Grade	Chemical composition %								
A633GR D	C	Si	Mn	P	S	Cu	Ni	Cr	Mo
	≤0.20	0.15-0.50	0.70-1.60	≤0.035	≤0.04	≤0.35	≤0.25	≤0.25	≤0.08
Mechanical properties									

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Yield Strength	Tensile Strength	Elongation in 2 in.
Mpa	Mpa	%
≥ 315	450-620	≥ 23

The scope of ASTM A633 / ASME SA633

1.1 This standard applies to normalized high-strength low-alloy structural steel plates for welding, riveting or bolted structures.

1.2 The steel plate is particularly suitable for use in low temperature environments of $\geq -50^{\circ}\text{F}$ [-45°C], because of the requirement for steel notch toughness of the plate is superior to rolled steel plate with similar strength levels.

Uses: Widely used in petroleum, chemical, power stations, boilers and other industries, for the production of reactors, heat exchangers, separators, spherical tanks, oil and gas tanks, liquefied gas tanks, nuclear reactor pressure shell, boiler drums, liquefied petroleum gas bottles, water turbine scrolls and other equipment and components.