

High-strength structural steel plate

DILLIMAX965 It is a quenched and tempered, high strength fine grain structural steel with a minimum yield strength of 960 MPa base grade (B) to provide a minimum impact guarantee as low as-20° C (-4 ° F)

High toughness grade (T), providing a minimum impact guarantee as low as-40° C (-40° F)

Ultra-high toughness level (E), providing a minimum impact guarantee as low as-60° C (-76° F)

Application of construction machinery, conveying equipment, lift, crane, water conservancy gate, bridge and steel frame structure

	Steel plate	C	Si	Mn	P	S	Cr	Ni	Mo	V+ Nb	B
chemical composition (Melting analysis)	grade	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
	thickness	%	%	%	%	%	%	%	%	%	%
	B, T, E t	0.20	0.50	1.40	0.020	0.01	0.9	2.0	0.70	0.10	0.004
carbon equivalent CEV	Steel plate	CEV									
	thickness	MAX									
	Mm	%									
	≤ 50	0.72									
	50-100	Can negotiate									
$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$											

mechanical behavior	steel plate	tensile strength	yield strength	extensibility
	thickness	Rm	ReH	A5
	mm	MPa	MPa	%
	≤ 50	980-1150	960	12
	50-60	950-1120	930	12
	60-100	900-1100	850	12

impact ductility	steel plate	Trial	Impact work (transverse / longitudinal)
	rank	° C	J
	base level (B)	-20 ° C (-4 ° F)	30/27
	High-toughness grade (T)	-20 ° C (-4 ° F)	40/30
	Ultra-high toughness grade (E)	-20 ° C (-4 ° F)	50/35



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Test tensile and impact test according to EN 10025-6 standard, once per furnace (40 tons)

Delivery technology	Delivery technology requires the use of the EN 10021 standards
common difference	Tolerance requirements refer to EN10029, thickness applicable to A grade, maximum flatness tolerance applicable to Table 4, type H steel. Stricter flatness requirements can be discussed separately before ordering.
surface quality	According to the EN 10163-2 standard, it is applicable to the A2 level
process	When the temperature exceeds 560° C (1040° F), the tempering of the steel plate will be damaged and the mechanical properties of the steel plate will be affected



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