

High-strength structural steel plate

DILLIMAX890 It is quenched and tempered, high strength fine grain structural steel with a minimum yield strength of 890 MPa

basic 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, lifts, cranes, water 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 | 1.60 | 0.020 | 0.01 | 0.9 | 2.0 | 0.70 | 0.10 | 0.004 |
| carbon equivalent CEV | Steel plate | CEV | | | | | | | | | |
| | thickness | MAX | | | | | | | | | |
| | Mn | % | | | | | | | | | |
| | ≤ 50 | 0.72 | | | | | | | | | |
| $CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$ | | | | | | | | | | | |

| mechanical behavior | steel plate | tensile strength | Yield strength | elongation rate |
|---------------------|-------------|------------------|----------------|-----------------|
| | thickness | R m | ReH | A5 |
| | mm | MPa | MPa | % |
| | ≤ 50 | 940-1100 | 890 | 12 |
| | 50-80 | 900-1100 | 850 | 12 |
| | 80-100 | 8800-1100 | 830 | 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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