

BISPLATE® 60

BISPLATE® 60 is a low carbon, low alloy, high strength structural steel that exhibits excellent cold formability and low temperature fracture toughness.

APPLICATIONS

The combination of BISPLATE® 60 mechanical properties and ease of fabrication offers economical advantages in many structural applications. Some examples of applications for this grade include:

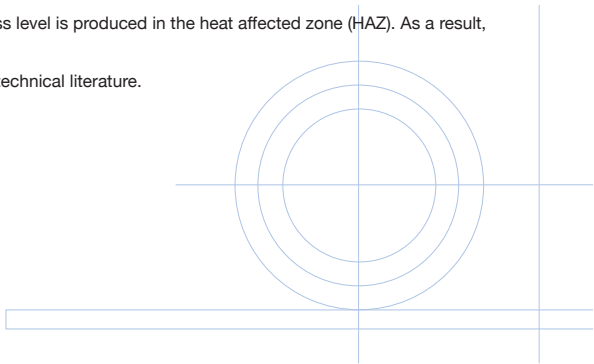
- Storage tanks *(Water/Oil/Gas)*
- High-rise buildings *(Columns/Transfer beams)*
- Lifting equipment *(Mobile/Overhead cranes)*

FABRICATION

BISPLATE® 60 can be welded successfully with minimal levels of preheat and has excellent low temperature fracture toughness.

BISPLATE® 60 has been designed such that a low hardness level is produced in the heat affected zone (HAZ). As a result, this steel has a low susceptibility to HAZ cracking.

For further details on fabrication please refer to Bisalloy's technical literature.



BISPLATE® 60

MECHANICAL PROPERTIES

PROPERTIES	SPECIFICATION	TYPICAL
0.2% Proof Stress	500 MPa (Min)	580 MPa
Tensile Strength	590 - 730 MPa	640 MPa
Elongation in 50mm G.L.	20% (Min)	30%
Charpy Impact (Longitudinal) -20°C (10mm x 10mm)	80J (Min)*	200J
Hardness		210HB

*Dependant on plate thickness

CHEMICAL COMPOSITION

THICKNESS (mm)		C	P	Mn	Si	S	Cr	Mo	B	CE(IIW)*	CET*
5 - <16	Maximum	0.18	0.025	1.5	0.25	0.008	0.25	0.25	0.002	0.40	0.29
≥16 - 80	Maximum	0.20	0.025	1.5	0.25	0.008	0.30	0.25	0.002	0.50	0.35
>80 - 100	Maximum	0.18	0.025	1.5	0.25	0.008	1.20	0.25	0.002	0.58	0.34

*Typical Average