



STRUCTURAL STEEL

S1. All structural materials shall be in accordance with A514/100 or AS 1554, except where varied by the contract documents.

S2. All steel plates shall be Grade 250 or plate and grade 300 for other members UNO.

S3. Three copies of workshop fabrication drawings shall be submitted to the Engineer for review after test 10 and before test 11.

S4. Bolt Connections:

a) 6.8S design strength of bolts of Grade 4.6 to A191 11g, snug tightened.

b) 8.8S means high strength structural bolts of Grade 8.8 S 1252, snug tightened

c) 10.9S means high strength structural bolts of Grade 10.9 S 1252, fully tensioned to AS 4100 as a bearing joint.

d) 10.9S means high strength structural bolts of Grade 8.8 S 1252, fully tensioned to AS 4100 as a friction joint with facing surfaces slip resistant.

S5. UNO, all welds shall be made in accordance with the connection shop manual have less than 2 bolts.

S6. UNO, all welds shall be E6m continuous fillet weld in gap using EX1XX electrodes. But welds shall be E7XX electrodes if required.

S7. TB and TR shall be installed using approved load indicating washers.

S8. UNO, all steel shall be painted.

S9. Provide steel plates to be bolted against supports, with "breather" holes if members are to be hot dip galvanised.

S10. Structural steelwork to be encased in concrete shall have surface treatment in accordance with the Specification.

S11. Builder shall provide all clads and drill all holes necessary for fitting steel to steel and other elements whether or not detailed in the drawings.

S12. Steelwork shall be primed prior to being exposed to atmosphere in accordance with B.O.C.Z.

S13. All steelwork which is not to be in contact with brackish water, or fresh salt, shall be hot dip galvanized.