

other temporary loads are carried on the steelwork during erection, adequate provisions shall be made to minimize stresses resulting from such loads.

- H. Permanent bolting or welding shall be carried out only when correct alignment is obtained and following inspection, checking and approval by the Engineer. Not more than 20% of any steel structure shall be erected before commencement of alignment and bolting.
- I. Grouting of pockets and base plates
 - 1. Grouting of pockets and under base plates shall be carried out only after steelwork is level and plumb, and bases of stanchions and columns are supported by steel shims. The space below base plate and pockets shall be thoroughly cleaned prior to grouting.
 - 2. Mixing and placing of grout shall conform with the manufacturer's recommendations. Forms shall be used to retain the grout and the surface finish attained shall conform with that of the structural surfaces surrounding it. The grout shall be placed quickly and continuously completely filling the void without segregation or bleeding.

1.3.5 Erection Tolerances

- A. Generally, the allowable tolerances shall be in accordance with BS 5950. However, notwithstanding the tolerances mentioned in the above code the following tolerances shall apply:
 - 1. Maximum deviation from intended line +6 mm in 6 m.
 - 2. Maximum deviation of length of diagonal +6 mm in 6 m length.
 - 3. Maximum deviation from verticality +3 mm in 6 m.
 - 4. Maximum deviation from intended length of member with both ends finished for contact bearing +1.5 mm.
 - 5. Maximum deviation from intended length +3 mm.
- B. All levelling and plumbing shall be carried out with the structure at its mean temperature that is the temperature of the structure when it is completed and in service. Suitable allowances shall be made for the difference in temperature at time of erection and the mean temperature.
- C. All measurements shall be taken on the theoretical centerline of the members.

1.3.6 Protective Coatings

- A. All steelwork shall be hot dip galvanized in accordance with ISO 1461 unless otherwise specified. With the exception of friction grip bolts threaded fasteners