

- C. Ladders over 3 m long shall have additional intermediate wall fixings at a minimum centre to centre of 2.5 m.
- D. At the upper part of the ladders the stringers shall be either extended to provide continuity with the adjacent handrails or formed into an extended loop and returned and secured to the adjacent surface with the top of the loop being 1.1m above surface level and the width between stringers being a minimum of 600 mm.
- E. Rungs shall be solid section mild steel with a minimum diameter of 20mm and shall be spaced uniformly throughout at 230 mm to 250 mm centres and shall be welded to the stringers.
- F. Rungs shall have a non-slip tread pattern and be capable of withstanding a point load of 5 kN applied at the centre or close to one end.
- G. The minimum clearance behind the rungs to either walls or platforms shall be 225 mm. The top rung shall be at platform level and be in the form of a step to close the gap between the ladder and platform.
- H. Ladders rising more than 2.4 m above ground or platform level shall be fitted with safety hoops with a diameter of 750 mm and spaced at uniform intervals not exceeding 700 mm, with the top hoop fixed in line with the top rail of the handrailing or where no hand railing is present with the top of the stringer loop. At least three straps shall be fitted internally to the hoops, one of which shall be at the centre of the back of the hoop with the other two equidistant on either side. Each hoop shall be able to withstand both a tangential point load of 740 N and a vertical point load of 1200 N applied at any point in the hoop.
- I. All connections shall be constructed from the same material as the ladder.
- J. An intermediate landing shall be provided where the rise exceeds 6m.

### **2.2.3 Aluminium Ladders**

- A. Aluminium ladders shall comply with the relevant provisions of Clause 2.2 above and the following particular requirements.
  - 1. Stiles shall be of rectangular tube section with 25 mm diameter nonslip double serrated tube section rungs.
  - 2. Rungs shall be fixed through stiles with approved pattern clip rivets.
  - 3. Curved stile returns on cat ladders shall be in aluminum sections socketed into hollow stile risers.