

- C. If the protective coating system is found to be defective during the warranty period, the manufacturer and Contractor shall replace and/or repair the protective coating system to the satisfaction of the Engineer.

2.2 Part 2 Products

2.2.1 General

- A. Materials of construction and corrosion protection measures shall be selected to ensure galvanic compatibility, corrosion resistance properties and structural performance.
- B. Contact between dissimilar materials shall be prevented by the use of suitable washers, bushes and bedding pads so as to avoid galvanic reactions.
- C. Miscellaneous metalwork fabrications shall be manufactured from material complying with the relevant provisions of the following standards.
1. Mild steel to BS EN 10025, grade S275JR. Mild steel tubular sections shall be to BS EN 10255.
 2. Stainless steel to BS EN 10088, equivalent to grade 316S31.
 3. Stainless steel tubular sections shall be to BS EN 10296-2 steel number 1.4404
 4. Aluminum shall be to BS EN 755, alloy 6063, temper T6.
- D. Following manufacture mild steel shall be hot dip galvanised in accordance with ISO 1461 and aluminium shall be anodised in accordance with ISO 7599 with a natural silver finish. If required by the Department, aluminum shall be coated with a super durable polyester powder coating to a minimum thickness of 80 microns
- E. All abrasives, solvents and coating materials shall be purchased only from well-established manufacturers with at least 10 years' experience of supplying materials for use in environmental conditions similar to Abu Dhabi. All materials for each coating system shall be supplied by the same manufacturer. Colour shall be as approved by the Engineer.

2.2.2 Mild Steel Ladders

- A. The design of ladders shall be based on the requirements of BS 5395 and to the loadings in BS 6399 unless specified otherwise. Construction shall be fully welded unless otherwise approved by the Engineer.
- B. The stringers shall be fabricated from flat mild steel bars with minimum dimensions of 65 mm by 10 mm and a clear width between stringers of 380 mm. Stringers shall be flanged and drilled for wall fixing at both ends.