

consignment of steel.

- E. The fabricator shall furnish copies of a certification which shows the heat number or numbers from which each size of bar in the shipment was fabricated.
- F. The Contractor shall provide certificates confirming that samples taken from the bars delivered to the Works pass all the tests required in BS 4449. The frequency of sampling and the method of quality control shall be in accordance with BS 4449. The Engineer reserves the right to inspect, sample and instruct testing of the reinforcement steel upon its arrival at the work site, in accordance with clause B of BS 4449. All such sampling and associated testing costs shall be borne by the Contractor.
- G. All reinforcement bars shall be free from detrimental dirt, mill scale, loose rust, paint, grease, oil or other foreign substance, fins, or tears. There shall be no evidence of visual flaws in the bars, test specimens or on the sheared ends of the bars.
- H. All reinforcement shall be cleaned before use to remove rust, oil, grease, salt and other deleterious materials. Where pitting has occurred, the bars shall be rejected. Blasting may be required when the reinforcement is in position, or partially cast in. Partially set concrete adhering to exposed bars during concreting operations shall be removed.
- I. Water cleaning of reinforcement to remove chloride contamination shall be carried out prior to pouring of concrete. Cleaning water shall be the same quality as mixing water for concrete.
- J. Where specified by drawings/Engineer, epoxy coating to steel reinforcement shall be in accordance with ASTM A775.
 - 1. The coating shall be applied by the electrostatic spray method at a factory approved by the Engineer.
 - 2. The film thickness of the coating after curing shall be at least 0.15mm and shall not exceed 0.25mm over the complete periphery including deformations and ribs. The bond classification of coated bars to concrete determined in bond performance tests shall not be less than that of uncoated bars.
- K. The minimum thickness of concrete cover to reinforcement shall be as shown on the drawings. Only approved spacers shall be used.

2.2.2 Welded Wire Fabric