

- B. Mockup may remain as part of the Work.

2.1.6 Environmental Requirements

- A. Do not install “GRP” or laminate when temperature or weather conditions are detrimental to successful installation

2.1.7 Sequencing

- A. Sequence work to ensure bonding lugs, concrete anchors and GRP materials are in place before commencing Work on the ladders and railings of this section.

2.1.8 Coordination

- A. Coordinate work under provisions of Section 01039.

2.2 Part 2 Products

2.2.1 Glass Reinforced Plastic (GRP) Ladders and Safety Cages Materials

- A. Structural glass reinforced ladders and safety cages formed from a glass rich layer of Advantex or similar corrosion resistant chopped strand mat and vinyl ester resin with a protective coat of resin rich vinyl ester reinforced with a “C” glass tissue.
- B. Hardwood stiffeners are to be provided inside both the rungs and the rails as a former, and shall be fully encased in GRP laminate.
- C. All materials of construction, method of manufacture, methods of curing and storage shall require the approval of the Engineer. The wall thickness of the laminate shall not be less than 5mm at any point and there shall be no sharp edges.
- D. Fixing brackets shall be GRP integrally molded into the ladder laminations and they shall be not more than 500mm apart (every 2 steps/rungs). The fixing brackets shall be designed to be anchored securely in concrete.
- E. The rungs shall be 250mm apart with its upper faces finished to a non-slip surface.
- F. The structural components shall possess Class I fire retardance, with an ASTM E84 maximum flame spread rating of 25.
- G. Nuts and bolts shall not be used either in the construction, assembly or fixing of the ladder.
- H. The resin shall not be pigmented.