- a. The surface of the PVC-u fitting shall be roughened to accept a 100mm wide GRP lamination on the inside of the fitting and a 25 mm wide GRP lamination on the inside of the fitting.
- b. Isopthalic resin shall then be applied to the roughened areas and one layer of chopped strand mat 300 g/m2 applied and wetted out with the resin.
- c. The PVC-u fitting shall be inspected by the Engineer prior to placing in the benching.

10.2.5.5 GRP Formwork

- 1. GRP formwork, which remains in place, shall be fabricated as follows unless otherwise approved by the Engineer.
 - a. The outer layer shall comprise one layer of glass surface veil 30 g/m2 of approved type impregnated with corrosion resistant vinylester resin of approved type.
 - b. The structural layer shall comprise one layer of chopped strand mat 450 g/m2, two layers of 800 g/m2 woven roving and one layer of chopped strand mat 450 g/m2 of approved type impregnated with corrosion resistant isophthalic resin of approved type.
 - c. The inner layer shall comprise one layer of glass surface veil 30 g/m2 of approved type impregnated with corrosion resistant vinylester resin of approved type.
 - d. Resin to glass ratio shall be 70% to 30% by weight with a tolerance of ± 5%.
 - e. Total minimum thickness shall be 4 mm.
- 2. Suitable straps or anchors shall be fitted to the formwork to prevent handling damage and hold the formwork in place during concreting.
- 3. Any exposed surfaces shall be given a 100 micron thick gel coat with ultra violet inhibitor.

10.2.6 Waterproof Membrane

- 1. The waterproof membrane system shall have a proven track record of not less than 5 years in Abu Dhabi or in similar environmental conditions.
- The waterproof membrane shall be an impervious torch applied purpose formulated modified bituminous membrane consisting of an atactic polypropylene (APP) bitumen compound reinforced with a polyester fabric core