

6. Elastometric sealing rings (rubber gaskets) shall be stored in closed containers or out of direct sunlight until needed.

## **3.2 Part 2 - Products**

### **3.2.1 General**

- A. The manufacturer shall design and fabricate GRP products to withstand the specified structural loads; without exceeding the allowable design working stress of the materials involved, including anchors and connections.
  1. Apply each load to produce the maximum stress in each respective component of each GRP fabrication.
  2. Details of the secondary support system where required by the manufacturer shall be furnished to the Engineer for approval.
  3. All calculations on selection of structural sizes shall be furnished to the Engineer for approval.
  4. GRP products which will be frequently exposed to sunlight shall be given a 50mic. Gel coat incorporating a suitable ultraviolet inhibitor to prevent U.V. degradation.
  5. All exposed surfaces shall be smooth and true to form.

### **3.2.2 Raw Materials**

#### **A. Materials**

1. Materials used in the manufacture of the GRP products shall be new stock of the best quality.
2. Materials shall be free from all defects and imperfections that might affect the performance of the finished product.
3. All materials shall be of the kind and quality specified and where the quality is not specified, it shall be the best of the respective kinds and suitable for the purpose intended.

#### **B. Resins**

1. Resins shall comply with the relevant provisions of BS3532 Type B, unless otherwise approved by the Engineer.
  - a. Vinyl ester resins shall have an elongation at break of 3 to 6 %

#### **C. Glass**