

1. Glass and surface tissue shall comply with the relevant provisions of the following standards, unless otherwise approved by the Engineer.
 - a. BS 3691 for roving.
 - b. BS 3496 for chopped strand mat.
 - c. BS 3396 or BS 3749 for woven fabric.
 2. Roving size shall not exceed 2400 Tex.
 3. Chopped strand mat shall not exceed 450 g/m².
 4. Emulsion bonded mat shall not be used.
- D. Sand Aggregate
1. Sand aggregate utilized for non-slip surfaces on benching shall be clean single size silica sand.
 - a. Nominal size: 3mm.
- E. Hardware
1. Steel bolts, chains, clips, brackets or other hardware utilized for GRP installation shall be stainless steel type A4 or 316, unless otherwise approved by the Engineer.

3.2.3 GRP Ladders

- A. GRP ladders shall be used in areas where immersed in water and where shown on the drawings.
- B. Size, configuration and fixing shall be as shown on the drawings.
- C. GRP ladders shall be capable of supporting a vertical load of 1000N applied in the centre of a 1.0m horizontal span when situated face up.
 1. The ladder shall not deflect more than 10mm at the point of applied load at Temp 23±2°C.
- D. Each GRP rung shall be capable of supporting a 5000N point load applied at the centre or either end.
 1. Ladder rungs shall be spaced not more than 250mm O.C.
 2. Each ladder rung shall have a non-slip surface.
- E. Each ladder fixing bracket shall be capable of resisting 5000N in shear or tension.