1.2.20.4 Lifting Davits and Sockets

A. The frame shall be galvanised steel or lightweight aluminium fabrication designed to lift the specified Safe Working Load. Where possible, davits shall be portable.

B. Where a winch is to be fitted, the operating handle shall be at a convenient height for the operator, i.e. 1.1m above datum level, and the effort to turn it with full load suspended shall not exceed 25kg force, if required the winch shall be geared to suit. A ratchet device shall be fitted and where the load exceeds 25kgs, the winch shall be fitted with a braking device to prevent free falling of the load when lowering.

C. A galvanised steel davit socket shall be provided with the davit where specified. This shall be designed and fabricated such that the top face of the socket shall be flush with the final finished surface level and covered with a secured galvanised steel cover plate. Lugs shall be incorporated to prevent rotation of the socket in the concrete. The davit socket shall incorporate a drain hole to an adjacent chamber where possible.

D. Lightweight Aluminium davits are preferred for loads up to but not exceeding 500kg, the reach shall not exceed 1200mm.

E. Davits supplied for loads above 500kg, or with a reach exceeding 1200mm shall be conventional steel design.

F. Standard socket diameter should be 65mm.

G. For lightweight davits, no single part of the davit construction shall be greater than 25kg in weight unless the davit is designed to be a permanent structure.

1.2.20.5 Lifting Chains

A. Lifting chains shall be manufactured from 316L or equivalent.

B. Lifting chains shall be manufactured utilising short links.

C. Lifting chains shall be suitable for use in water with pH values of 4.9 to 10.1.

D. Lifting chains shall be utilised when lifting large submersible pumps from wet wells.