APPENDIX E

SPECIFICATION

for

EXTENSION RODS FOR HOSPITAL BEDS

(Metric Units)

SECTION 0. APPLICABLE STANDARDS

0.1 The latest issue of the following standard forms part of this specification:

SABS 728 Electroplated coatings of nickel and chromium (Metric Units)

SECTION 1. SCOPE

1.1 This specification covers the material, dimensional. and constructional requirements for extension rods intended for use on hospital beds.

NOTE: The attention of users of this specification is drawn to the following requirement that must be specified in tender invitations and in the order or contract:

a) Whether a stainless steel or mild steel rod is required (see 3.3).

SECTION 2. DEFINITIONS

2.1 For the purposes of this specification the following definitions shall apply:

Acceptable. Acceptable to the purchaser.

Bright polished finish. A bright reflective finish obtained by polishing the surface without complete obliteration of previously existing grinding marks or other surface texture.

Directional satin finish. A finish obtained by so grinding the surface with fine abrasives (without subsequent polishing) as to leave a silky appearnace, the abrasive marks running in the same general direction.

SECTION 3. REQUIREMENTS

3.1 MATERIAL

3.1.1 Rolled Steel Sections and Rod. Rolled steel sections and rod shall be of a good quality mild steel and shall be free from cracks, fins, laminations, and other defects.

3.1.2 Stainless Steel. Stainless steel shall be 18/8 (AISI Type 304) stainless steel or other acceptable austenitic stainless steel of weldable quality.

3.1.3 Welding Electrodes and Filler Rods. Filler metal used in fusion welding and braze welding shall be such as will produce a joint complying with the relevant requirements of 3.2.

3.2 WELDED JOINTS. Welded joints shall be fusion-welded or braze-welded. Parts joined by welding shall be close fitting and in correct alignment, and the joints shall have mechanical properties and, when relevant, corrosion resistance of at least the same order as those of the parent metal. The welds shall be acceptable. Weld faces shall be smooth, clean, and free from porosity, cavities, spatter, and trapped slag, and shall merge smoothly into the surface of the parent metal without overlap or undue undercut. The weld metal, heat affected zone, and adjacent parent metal shall be free from cracks. Where welding is done from one side only there shall be full penetration of the joint.

3.3 DESIGN AND DIMENSIONS. The design of extension rods shall be generally in accordance with that shown in Figure 1. The dimensions shall conform to those given in Figure 1 and in 3.4 and 3.5. Except where otherwise indicated, the dimensions shall be subject to a tolerance of ± 3 mm.

Extension rods shall be of stainless steel or of mild steel, as specified by the purchaser.

3.4 CONSTRUCTION. Extension rods shall be made from stainless steel or mild steel rod (as relevant) of diameter at least 10 mm, and shall be provided at one end with a welded-on pulley housing made from stainless steel or mild steel flat strip, (as relevant) of section at least 20 x 4 mm. The rod shall be bent near the housing and in the plane of the housing (see Figure 1) through an angle of 30 ± 5 degrees.

3.5 PULLEY. The pulley shall be of stainless steel or mild steel or other acceptable metal, of overall diameter 50 ± 5 mm and overall width at least 14 mm, and shall have a groove of width 10 ± 2 mm. It shall be mounted on a snug-fitting 5 mm diameter axle of bright steel shafting that is welded at each end to the pulley housing.

3.6 FINISH. All surfaces shall be clean, smooth, and free from defects. Stainless steel surfaces shall have a smooth medium directional satin finish or a bright polished finish. The quality of the finish shall be not inferior to that of the finish on the relevant standard sample held by the South African Bureau of Standards[1]. All edges shall be free from burrs, roughness, and sharpness. Mild steel surfaces shall have a smooth, bright, nickel chromium plated finish free from cloudy patches. The plating system used, the thickness of the relevant electro-deposited layers, and all other requirements shall be as laid down for service condition 3 (severe service conditions) in SABS 728.

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[1] Manufacturers may on application to the South African Bureau of Standards inspect the standard samples.

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Scope of Amendment. A requirement for the depth of the groove of pulleys has been added.

Subsection 3.5. Add the following at the end of the first sentence:

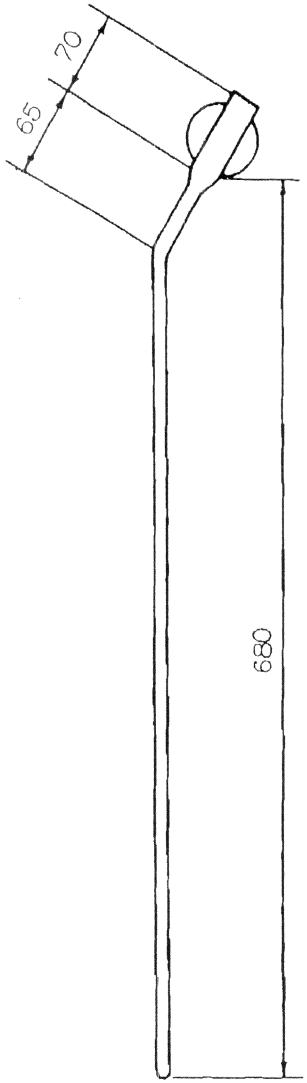
and depth at least 12 mm .

STREKSTAWE VIR HOSPITAALBEDDENS

Bestek van Wysiging. 'n Vereiste vir die diepte van die groef van katrolle is bygevoeg.

Onderafdeling 3.5. Voeg die volgende tussen "10 ± 2 mm" en"hê" in die eerste sin in:

en 'n diepte van minstens 12 mm



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Dimensions in millimetres
Afmetings in millimeter

Fig. 1 – Extension Rod
Strekstaaf