

## **MODULAR: GENERAL SPECIFICATION**

### **SEMI-PERMANENT WARDS: PERFORMANCE SPECIFICATION**

The facilities shall Comply with the Agrément Certificate which makes use of the Performance certificate as per the SANS 10400-K and IUSS for Building Clinic Facilities with Innovative Building Technologies latest Revisions

**1.Floors:** Vinyl to all floors

#### **2.Walls**

**a. Structural Strength and Stability:** Any wall shall be designed and constructed to safely sustain any actions which can reasonably be expected to occur and in such a manner that any local damage (including cracking) or deformation do not compromise the opening and closing of doors and windows or the weather tightness of the wall and in the case of any structural wall, be capable of safely transferring such actions to the foundations supporting such wall.

**b. Sound/ Noise Acoustic insulation:** A minimum of 40 dB shall be provided in facilities with Maternity areas. In other areas, a minimum of 40dB shall be provided.

**c. U-Value for External Walls:** To Comply with SANS 10400-XA: 2011. Non-masonry walls shall achieve a minimum total R -value of

i. Climatic zones 1 and 6: 2,2

ii. Climatic zones 2, 3, 4 and 5: 1,9.

**d. R-Value:** External walls to Comply with a Minimum R-value of 0.35

**e. Water penetration:** To comply with the Agrément South Africa assessment criteria for the condensation in buildings which provides some basic explanations regarding condensation terminology and requirements.

**f. Rain Penetration:** To comply with SANS 10400- K Section 4.5.2.

**g. Rising Damp:** Installation to Comply with SANS 10400- K Section 4.5.3. Any material used, as a damp-proof course shall comply with the relevant requirements contained in SANS 248, SANS 298 or SANS 952-1, or shall be the subject of an Agrément certificate if the product is not covered by these standards.

**h. Behaviour in Fire:** To comply with SANS 10400- K Section 4.6.

i. The fire performance and fire stability of walls shall be determined in accordance with the requirements of 4.5 and 4.7, respectively, of SANS 10400-T: 2011.

ii. The fire resistance or non-combustibility of walls shall comply with the relevant requirements of the following sub clauses of SANS 10400-T: 2011.

iii. Wall finishes shall comply with the requirements of 4.15 of SANS 10400-T: 2011.

iv. Walls in inaccessible concealed spaces and service shafts shall be fire-stopped in accordance with the requirements of 4.39 and 4.40, respectively, of SANS 10400 T: 2011.

v. Any services that penetrate or are recessed in walls in structural or separating elements shall be in accordance with the requirements of 4.41 of SANS 10400-T: 2011.

### **3. Fenestration: To Comply with SANS 10400-XA: 2011**

- i. Buildings with up to 15 % fenestration area to nett floor area per storey comply with the minimum energy performance requirements.
- ii. Buildings with a fenestration area to nett floor area per storey that exceeds 15 % shall comply with the requirements for fenestration in accordance with SANS 204.
- iii. All fenestration air infiltration shall be in accordance with SANS 613.

### **4. Roof Assemblies: To Comply with SANS 10400-XA: 2011**

- a. A roof assembly that has metal sheet roofing fixed to metal purlins, metal rafters or metal battens shall have a thermal break consisting of a material with an R -value of not less than 0,2 installed between the metal sheet roofing and its supporting member.
- b. Metal sheeting types of roofing assembly construction shall achieve the minimum total R-value in accordance with 4.4.5.1, with the installation of insulation that has an R-value as specified in SANS 10400-XA: 2011 Section 4.4.5.3

### **5. Deemed-to-Satisfy Requirements:**

The requirements of regulations K1, K2, K3 and K4 shall be deemed to be satisfied where the structural strength and stability of any wall, the prevention of water penetration into or through such wall, the fixing of any roof to such wall and the behaviour in a fire of such wall, as the case may be, comply with SANS 10400-K.

### **URINALS AND WCs**

#### **WC1**

Vandal resistant Paraplegic WC pan manufactured from polymer concrete (composite) and polished to smooth silky finish and fitted with flush-valve, including all necessary accessories and supplied with all pipe connections and fixtures as per manufacturer's specifications and applicable SABS standards.

#### **WC2**

Vitreous china close coupled 90° outlet closed rim wash down pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

#### **URINAL 1**

Vitreous china size 415x315x275mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

#### **900x900 E.S. SHOWER TRAY & SHOWER SET**

2mm thick Enamelled steel shower tray size 900x900x600mm manufactured with anti-slip pattern, with rounded internal corners, and 38mm BSP grated waste fitting in corner position fitted with shower set and complying with SABS 226 comprising of approved:

- Overhead shower arm with wall flange
- Chrome Plated Shower Head with ball joined connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178mm to 203mm centers.

Shower tray to be recessed 50mm into a 975mm x 975mm x 100mm high concrete plinth with exposed plinth face tiled.

#### **BATH TUB & BATH MIXER**

1700 x 700 x 1.8mm thick enamelled steel rectangular bathtub without handles bathtub white in colour. Fitted with: • Chrome Plated Hand shower installed complete with 1250mm long flexible hose with conical end, • Chrome Plated wall outlet elbow with wall flange and hand shower fitting wall bracket – swivel hand shower with screws and plugs. • Bath/shower diverter mixer-wall with sliding wall flanges and concealed connections adjustable from 178mm to 203 mm centres. • Overflow, trap, waste sealed with silicone sealant. Exposed sides closed off with brick-on-edge infill and tiled

#### **WASH HAND BASINS (INCLUDING TAPS AND MIXERS)**

##### **MEDIC BASIN**

Vaal Sanitaryware' fine fireclay Vitreous china 630 x 500mm rectangular "Sola 630" medical basin with no tapholes, overflow or chain stay hole or EQUAL & APPROVED, to comply with SABS 497. "Sola 630" (No. 702800WH) Medical basin in single tap hole configuration 1 No. 'Cobra Watertech' ½" elbow action pillar tap (code 503-21) and blue indicator for cold water applications complete with 309-40 anti-theft plug with spindle and 365/40 bottle tap CP. Installed using concealed wall bracket (code 8131Z2), and 3No. 10mm bolts (code 8448Z0) or EQUAL & APPROVED

##### **DISABLED BASIN AND 2 TAPS**

Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No. chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications

#### **SINKS**

##### **SS DOUBLE SINK & MIXER**

Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL

##### **SS SINGLE SINK & MIXER**

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Rough brass. Sink installation height = 900mm AFFL.

## **SLOP HOPPER UNIT/SINK**

540 x 540mm Slop Hopper with grid, with a 100mm high integral splashback to the rear and both sides with an integral flushing rim fitted with a 38mm x 250mm long vertical flush pipe inlet. Hot and Cold water taps with chromed extension pieces with 50mm  $\varnothing$  s/steel support rail under taps with flanges for bolting onto wall. A hinged bucket grid shall be fitted over funnel, manufactured from 10mm Grade 304 (18/10) SS round bar. Unit to be installed together with: Approved Flush valve compression pan connector to suit. Trap to rest on floor. Unit to be provided with suitable wall fixing brackets all in strict accordance to manufacturer's instructions. Fitted with 'Cobra Watertech', OR EQUAL AND APPROVED: for Hot and Cold water taps with chromed Extension pieces

## **SANITARY ACCESSORIES**

### **TOILET ROLL HOLDER (2-ROLL)**

135mmWx270mmHx275mmD 2 toilet roll dispenser. Toilet roll dispenser to be theft proof, lockable container with keys and to carry three standard toilet rolls. Used roll to be easily removed from unit below without having to unlock unit. Unit to be manufactured from mild steel and epoxy powder coated - colour white. Unit to be fixed to wall with four screws. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

### **TOWEL RAIL (900mm)**

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

### **HEAVY DUTY MIRROR (400x500)**

Heavy Duty 400 x 500 x 15mm Grade 18/10 stainless steel screwed to wall polished beveled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws installed in public ablutions

### **SS PAPER TOWEL DISPENSER**

Hands Free, Non- Touch (Wall Mounted, Hands Free, Non- Touch Operated)- Operated 300W x 304H x 134D Paper Towel Dispenser manufactured form 18/10 Stainless Steel, surface Satin Finish, material thickness 1.5mm, complete with all necessary accessories in accordance to manufacturer's specifications

### **HAND DRYER (hands free)**

As per Electrical Engineers specification

Not to be used in any Patient Care facility

### **SS SOAP DISPENSER (wall mounted)**

100W x 304H x 134D Soap Dispenser manufactured form 18/10 Stainless Steel (Elbow action lever type with bottle container for dispensing) of the liquid as in the High Scrub grade 304 stainless steel type. Surface Satin Finish, material thickness 1.5mm, replaceable and refillable 1 Litre, cylinder lock with standard key, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications

### **GARBAGE PEDDLE BIN HOLDERS**

20 litre x 1,2mm thick polished stainless steel Pedal bin outer unit, 290mm Diameter x 455mm Height with 40mm Skirting and Safety edge. Removable inner bin with stainless Steel handle for easy disposal of contents. Stainless Steel robust pedal mechanism. Polished Stainless Steel Foot pedal with 8mm solid rod for durability-for - Wards, Cubicles, Sluice, Kitchen & General Use

#### SS SANITARY TOWEL DISPOSAL BIN

Heavy Duty Stainless Steel Pedal sanitary Bin (26ltr) with Plastic Removable Bucket Manufactured from 0.7mm Stainless Steel 430 Mirror Finished Interior and Exterior.- All Female Toilets & Showers

#### ANTISEPTIC DISPENSER

Stainless steel. Wall mounted at room entrance.

#### BACK GRAB RAIL

32mm diameter stainless steel cistern back rail in satin polished finish complete with SS fixing screws and plastic wall plugs, installed at 800mm above floor level as per manufacturer's instructions. for BACK GRAB RAIL (cistern toilet)-Paraplegic WC.

#### SIDE GRAB RAIL

32mm diameter stainless steel cistern back rail in satin polished finish complete with SS fixing screws and plastic wall plugs, installed at 800mm above floor level as per manufacturer's instructions. for SIDE GRAB RAIL with centre flange- Paraplegic WC.

#### SIDE GRAB RAIL

32mm diameter stainless steel cistern back rail in satin polished finish complete with SS fixing screws and plastic wall plugs, installed at 800mm above floor level as per manufacturer's instructions. for SIDE GRAB RAIL with centre flange- Paraplegic WC.

#### FOLD-UP SHOWER SEAT

480mm x 460mm fold up wall-mounted shower seat consisting of stainless-steel frame and durable plastic seat, installed complete with SS fixing screws and plastic wall plugs at 500mm above floor level as per manufacturer's instructions. for Paraplegic & Assisted Showers.

#### SHOWER CURTAIN RAIL

20mm dia. standard chromium plated shower curtain rail 900mm long with flanged ends and screws CP fixing height as per architect's drawing. for All straight Showers.

#### SHOWER CORNER GRAB RAIL

32mm diameter stainless steel shower corner rail in satin polished finish complete with SS fixing screws and plastic wall plugs installed at 1000mm above floor level as per manufacturer's instructions. for - Paraplegic Showers.