

ALL DIMENSIONS, WHERE A VERTICAL PLANE IS APPLICABLE, SHALL BE READ AS THE HORIZONTAL DIMENSION FIRST FOLLOWED BY THE VERTICAL DIMENSION.

A. WALLS and FLOOR STRUCTURE:

GALVANISED BRICKFORCE to be provided as follows:
From foundation to floor level - Continuous at every course.
From floor level to door height - Continuous at every fourth course.
From door height to wall plate - Continuous at every course.
Gable ends - Continuous at every course.
Brickforce to overlap 150mm at end joints and 75mm at corners and 110mm at connecting walls.

CEMENT:
Cement shall be PORTLAND cement complying with SABS 471 or PORTLAND CEMENT 15 complying with SABS 831.

DPC:
DPC shall be 375micron black polyethylene sheeting (SABS 952) Type B having Embossed surfaces and shall be laid to the full thickness of the wall above foundations. At end joints, angles and intermediate junctions, it shall be lapped for 150mm.

MORTAR:
Mortar to be sand cement mortar (one part by volume of cement to five parts by volume sand).

BRICK BOND:
Brickwork shall be built in stretcher bond, with 10mm thick bedding Joints and 10mm thick perpendicular joints. Perpendicular joints to be flushed up solid and each course is to be laid on a solid bed of mortar.

WETTING OF CLAY BRICKS: (Not applicable for cement bricks)
Clay bricks shall be well saturated with water, in stack or dump, approximately 2 hours before being used. Tops of walls left unfinished to be well wetted before work commences. Where new brickwork joins brickwork of existing buildings, it shall be toothed into well wetted existing brickwork at every second course.

BAGGING and SEALING inner brick skin:
Outer face of inner skin of external walls to be bagged down to obtain an even finish and painted with two coats of approved bitumen emulsion (SABS 307-309) waterproofing compound.

PLASTER KEY:
Mortar joints (plaster side of wall) shall be raked out 10mm while mortar is soft to form key for plaster backing.

WETTING BEFORE PLASTERING:
Brickwork, surface beds and concrete shall be adequately wetted (NOT SOAKED) before plastering / screeding to prevent drying out from the back, resulting in cracks and poorly bonded plaster.

SAND FOR PLASTER:
River sand for floor finishes and screeds shall be clean, sharp, coarse and free from any impurities and washed if so directed. (SABS 1090).
Plaster sand shall be clean, sharp, coarse and free from any impurities and washed if so directed. (SABS 1090).

CHASING FOR PIPES, CONDUITS and PRESSURE TESTING ON PIPE WORK:
All chasing and fixing of electrical conduits and plumbing as well as pressure testing for pipe work shall be completed before commencing with plasterwork.

QUALITY OF PLASTER:
Plaster shall be floated to a smooth, even and level finish. The Contractor shall plaster WITHOUT the idea that poor quality plasterwork can be corrected with POLYFILLA or similar products, resulting in walls with different textures.

CURING and PROTECTION:
All floor finishes, paving, plaster finishes and screeds are to be properly cured to approval and all cracks, blisters and other defects which may occur are to be made good and the whole left in a satisfactory condition at completion. On windy or hot days, where quick drying out of outer surfaces might occur, surfaces must be wetted for seven days with a fine spray of water or protected with plastic to prevent surface cracks.

A1. Face brick foundation wall and plinth:
Extra hard burnt clay bricks (SABS 227) in stretcher bond up to max 300mm below finished ground level - left open for inspection. Above this level, build with face bricks, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with flush vertical and flush horizontal joints, suitable for exposure zones 1-2.

A2. Apex flashing:
Global Roofing Solutions 0,53mm thick ZINCALUME® AZ150 spelter G550, girth 550mm apex flash (Code: FK75), fixed in accordance with manufacturer's specifications.
Roof Angle: 3°
Sheet colour: Mill Finish

A3. External Facerick Walls:
Corobrik® 20-30MPa Montana Travertine Imperial FBS clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.

A4. Internal plaster to be painted:
13mm Sand cement plaster 1:5 (1 part by volume of cement and five parts by volume sand) shall be applied in one coat on well wetted brickwork and finished with a steel trowel to a smooth, even and level finish. Paint - According to FINISHING SCHEDULE.

A5. Internal plaster to be tiled:
13mm Sand cement plaster 1:5 (1 part by volume of cement and five parts by volume sand) shall be applied in one coat on well wetted brickwork and finished with a wood trowel to a smooth, even and level finish. Tiles - According to FINISHING SCHEDULE.

A6. Internal or external plaster on concrete:
Where rough formwork has been used, concrete shall immediately after formwork has been removed, be well wetted and wire brushed whilst the concrete is still green and then slushed over with cement grout 2:1 (2 parts by volume of cement and 1 part by volume sand) to form a key for plaster. Where smooth formwork is used, concrete surface shall be hacked adequately at NO EXTRA COST to the Client. 13mm Sand cement plaster 1:3 (1 part by volume of cement and three parts by volume sand) shall be applied in one coat and finished with a wood trowel (external or to be tiled) or steel trowel (internal). Cut a V-groove to the full depth of the plaster between adjacent plaster.

A7. Floor construction with screed:
Floor finish to FINISHING SCHEDULE on min 25mm sand cement screed 1:3 (1 part by volume cement to three parts by volume sand) floated with a trowel (Specified in FINISHING SCHEDULE) to a smooth, even and level finish (final floor finishes to be on the same level) on Water resistant concrete surfacedbeck which shall be constructed in accordance with SANS 2001-CC1 or SANS 2001-CC2 to ENGINEER'S DETAILS on 250 Micron green polyethylene sheeting (SABS 952) Type C plain surface damp proof membrane turned up and dressed to load bearing walls and lapped with DPC in walls and all joints sealed with pressure sensitive tapes applied on SABS approved termite poison on 50mm sand bed and sub-layers to ENGINEER'S DETAILS.

A8. Sand cement finish:
Sand cement finish to treads of steps, thresholds etc, shall be min 25mm sand cement plaster 1:2 (1 part by volume sand to two parts by volume cement) The same plaster shall be applied to risers of steps and sides of kerbs and shall be 13mm thick. Exposed salient angles shall be neatly rounded to 18mm radius. All to be finished with a steel trowel to a smooth and even finish. Treads of steps and upper surfaces of external thresholds shall be rendered non-slip by reading near front edge for a width 100mm and stopped 100mm from ends. Concrete construction below shall be according to ENGINEER'S SPECIFICATION.

A9. Doors:
Doors according to DOOR SCHEDULE.

A10. Windows:
Windows according to WINDOW SCHEDULE.

A11. Reinforced brick lintels (not for cavity walls):
Shall be built with face bricks mortar 1:3 (1 part by volume cement to three parts by volume sand) with all vertical and horizontal joints filled solid with mortar throughout the required of courses and to a distance of at least 330mm on either side of the clear opening. Lintels from 1m to 3m in length shall be propped for at least 14 days. The number of courses to be treated are as follows:

Clear span Max 1m	Number of Courses	Reinforcement
Over 1m to 1,5m	4	One row of 150mm wide galvanised brickforce 330mm wider than opening on each side.
Over 1,5m to 2,5m	6	As above
Over 2,5m to 3,0m	7	Six 6,3mm Mild steel rods for each brick Width, 330mm wider than opening on each side.

A12. Precast prestressed concrete lintel:
Contractor to provide a certificate issued by manufacturer certifying that the lintel is adequate for it's purpose in terms of span, loading, number of courses of brickwork and method of brickwork construction above, the minimum bearing length required at each bearing end as well as nature and period of propping required.

A13. Vertical DPC:
500 micron orange polyethylene sheeting (SABS 952) Type C plain surface laid vertical to DETAIL and joined strictly according to Manufacturer's Specification.

B. ROOF STRUCTURE

PROE-FABRICATED ROOF TRUSSES:
The design of the trusses, bracing and secondary members forming part of the total timber roof construction shall be prepared by a professional Structural Engineer (Truss System Engineer) strictly in accordance with SABS 0163. Two sets of detailed working drawings showing all elements, bracings, fixings, anchoring methods, all calculations, copies of the TR1 certificate signed by the Truss System Engineer as well as pertinent erection instructions for the whole roof construction shall be provided for consideration and WRITTEN permission to proceed BEFORE MANUFACTURING ANY TRUSSES.

The Truss system Engineer will be required to inspect the roof structure and certify on the TR2 certificate that the construction is in conformity with his APPROVED design.

The following will not be permitted:
Knots, splits or finger joints.
Varying member thicknesses.
Plates not fully pressed into timber.
Gaps between members exceeding 1,5mm average over the width of members.

Stress Grade marks must be clearly visible on all members.
Purlins and battens shall be splay cut and joined over rafters with one nail skew driven in to the rafter.
Relevant dimensions must be checked on site before design.
Trusses must be stored off the ground and under cover both in the factory and on site.

B1. Roof Sheeting:
Global Roofing Solutions 0,53mm thick 700mm cover Klip-Tite™ profile ZINCALUME® AZ150 spelter G550 roof sheeting, fixed to timber intermediate purlins at 2300mm centres and eaves and ridge purlins at 1900mm centres using KL700 clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications.
Roof Angle: 3°
Sheet colour: Mill Finish

B2. Apex flashing:
Global Roofing Solutions 0,53mm thick ZINCALUME® AZ150 spelter G550, girth 550mm apex flash (Code: FK75), fixed in accordance with manufacturer's specifications.

B3. Barge flashing:
Global Roofing Solutions 0,53mm thick ZINCALUME® AZ150 spelter G550, girth 580mm barge flash (Code: FK74), fixed in accordance with manufacturer's specifications.

B4. Nutec fascia boards
Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters 100mm screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiner between boards and at board ends.

B5. Ogee profile aluminium gutter:
Ogee profile aluminium H3003h 14 seamless gutter, overall size 125 x 85 x 0,6mm thick coated internally and externally with ColourTech G4 in colour Marble White including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 2,5mm internal hanger brackets at 600mm centres using aluminium peeled rivets, with 100 x 75 x 0,6mm thick aluminium downpipe in colour Marble White fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.

B6. Parapet Coping:
Modcon Concrete Solutions precast concrete coping (Type: 026), overall size 345 x 60mm high, bedded and jointed in Class II mortar and pointed on all exposed faces.

B7. Water Tank:
Rotolank H 5000 lt Water Horizontal / Transport Tanks installed as per manufacturers specifications.

C. CEILINGS:

C1. Everite Nutec 6mm thick plain ceiling boards:
Everite Nutec 6mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 50mm battens at 600mm centres using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered using H-profile white PVC jointing strips, all in accordance with the manufacturer's recommendations.
Paint according to FINISHING SCHEDULE.

D. INSULATION:

D1. Isover 100mm thick Aerolite
Isover 100mm thick Aerolite non-combustible light weight fibreglass Glasswool thermal ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of branding between roof timbers, all in accordance with manufacturer's recommendations.
• R-value: 2,50m² K/W
• Thermal conductivity: 0,04 W/m²K.

PAINT SPECIFICATIONS:

All drying times indicated at 23 degrees Centigrade.

PAINT METHOD 1: EXTERIOR / INTERIOR WOOD - UNCOATED - TO BE PAINTED WITH VELVAGLO.
Uncoated hardwood or softwood, in sound condition, displaying only dirt and light fading and weathering of surface layers.
Sand all surfaces to remove dirt and weathered layers, rounding all sharp edges. Sand smooth with 150 grit paper and remove dust. Fill any defects with POLYCELL MENDALL 90 (801601) working off smoothly. Allow to dry and sand to an even smooth finish. Apply one coat PLASCON WOODCARE KNOT SEAL (PK2) to knots and resinous areas and allow 1 hour at 23 deg to dry. Apply one overall coat of PROFESSIONAL WOOD PRIMER (PP 800) and allow 24 hours drying. Apply one overall coat of PROFESSIONAL ALL PURPOSE UNDERCOAT (PU 800) to all surfaces. Allow to dry for 16 hours. Apply two coats of PLASCON VELVAGLO SATIN (VLO) to achieve complete obliteration, allowing 24 hours drying between coats and after second coat.

PAINT METHOD 2: GALVANISED IRON - UNPAINTED - TO BE PAINTED WITH VELVAGLO
Galvanised surfaces in good condition, displaying some dirt and white rust, but NO RED RUST.
Clean all surfaces with PLASCON GALVANISED IRON CLEANER (GIC 1) to remove temporary protective coatings and other contaminants, including white rust, to achieve a water break-free surface. Rinse thoroughly with fresh water and allow to dry. Apply one overall coat of PLASCON GALVANISED IRON PRIMER (PP 1000). Allow 24 hours to dry. Apply two coats PLASCON VELVAGLO SATIN (VLO) to achieve complete obliteration, allowing 24 hours drying between coats and after second coat.

PAINT METHOD 3: EXTERIOR / INTERIOR CEMENT PLASTER - UNCOATED - TO BE PAINTED WITH VELVAGLO.
For new uncoated smooth or textured cement plaster.
Ensure that all surfaces are sound, dry and free from any contamination. Remove loose material and projecting points. Make good any cracks or minor defects using PPOLYCELL MENDALL 90 (801601), matching the texture as close as possible and allow to dry. Apply an overall coat of PROFESSIONAL PLASTER PRIMER (PP 700) diluted 5 parts primer to one part PLASCON MINERAL TURPENTINE (AZH 1). Allow 16 hours drying. Apply an overall coat of PLASCON UNIVERSAL UNDERCOAT (UC 1) and allow to dry overnight. Apply two coats PLASCON VELVAGLO to achieve complete obliteration, allowing minimum 24 hours drying time between coats and after second coat.

PAINT METHOD 4: EVERITE NUTEC CEILINGS - UNCOATED - TO BE PAINTED WITH PLASCON VELVAGLO.
Ensure that all surfaces are dry, sound and free from dust, dirt, grease and oil before applying paint.
Ensure that all galvanised clout nails are sunk flush and ensure that all chalk lines are removed. Ensure that all nail heads are primed with a full coat of PLASCON GALVOGRIP METAL PRIMER (GIP 1). Apply an overall coat of PROFESSIONAL PLASTER PRIMER (PP 700) diluted 5 parts primer to one part PLASCON MINERAL TURPENTINE (AZH 1). Allow 16 hours drying. Apply on overall coat of PLASCON UNIVERSAL UNDERCOAT and allow for overnight drying. Apply two coats PLASCON VELVAGLO (VLO) to achieve complete obliteration, allowing minimum 24 hours drying time between coats and after second coat.

FINISHING SCHEDULE (INTERNAL)	Floors	Skirtings	Walls	Window Sills	Ceilings	Cornices	General	Sanitary Schedule
BOYS	A	A	AB	A	A	A	A	ABDE
GIRLS	A	A	AB	A	A	A	A	ABD
PARAPLEGIC	A	A	AB	A	A	A	-	C
STORE	B	-	A	-	A	A	-	-
SERVICE YARD	B	-	C	-	-	-	-	-

FLOOR FINISHES:

A. Non-Slip glazed ceramic floor tiles with PEI Class 3 rating, size 330 x 330mm, fixed to wood floated 1:4 cement and sand screed with TAL tile adhesive mixed with bonding liquid in lieu of water on concrete surface bed, with 3mm joints continuous in both directions grouted with TAL Professional tile grout with minimum 10mm expansion joints at perimeter, all structural expansion and construction joints and maximum 5m centres internally and at 3m centres externally, in both directions.
• Provide min 10mm gap around perimeter between tile and wall
• M-Trim 12mm high aluminium movement joint fitted with 6mm wide polyurethane infill fixed to floors with an approved adhesive every 3m x 3m grid.
• Tile Colour: TBC
• Grout Colour: TBC
• Movement Joint Colour & Size: TBC

B. 25mm sand cement screed 1:3 (1 part by volume cement to three parts by volume sand) floated with a trowel (Specified in FINISHING SCHEDULE) to a smooth, even and level finish as per specification A8

SKIRTINGS:

A. 330mm High tile skirting as for floor. "Skirting tile to match floor tiles" size 330x330mm. Install with cut side tile down with adhesive and epoxy grout as per floor spec "A"

WALLS:

A. New sand cement plaster finished with a steel trowel.
Paint according to PAINT METHOD 3.
Colour: To COLOUR SCHEDULE.

B. New 13mm sand cement plaster applied in one coat and finished to an even finish with a steel trowel. Finely chip plaster above basin to size 800mm wide x 600mm high to create tiles splashback above basin.
• Paint above and around Tiles to underside ceiling as per paint method 3
• Apply 300x200mm gloss white wall tiles fixed to wall solidly with approved tile adhesive and approved tile grout between joints. Joints to be 3mm flush jointed.
• M-Trim White 9mm high PVC round edge trim (Code: PRE090.01), bedded in tile adhesive white tiles are laid.
• Tile Colour: Gloss White
• Grout Colour: Dark Grey

C. Facebrick finish as per Specification A4 on Descriptions schedules.

WINDOW SILLS:

A. Internal and External window sills shall be sand cement finish as per Specification A9 on Descriptions Schedules.
Do not Paint.

CEILINGS:

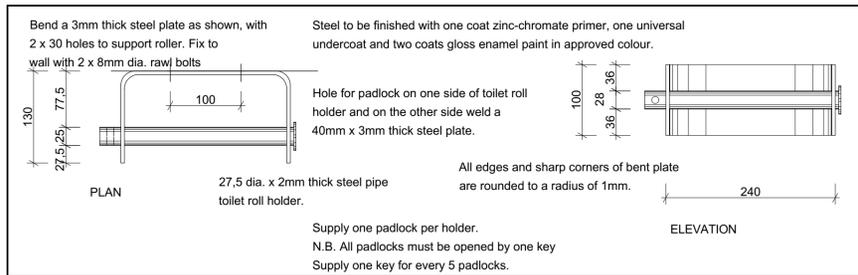
A. Everite Nutec 6mm thick plain ceiling boards to specification 'C1' Descriptions drawing.
Paint to Paint Method 4.
Colour: White

CORNICES:

A. Masonite® 83mm coved hardboard cornice nailed at maximum 300mm centres.
Paint according to "Paint method 1".
Colour: White

GENERAL:

A. Hi-Tech Stainless Products 32mm Ø grade 304 stainless steel towel rack (code: 30), plugged and screwed to walls with stainless steel screws.



TOILET ROLL HOLDER DETAIL

1:5

PROUDLY SOUTH AFRICAN

LIST OF REVISIONS

NO.	DATE	REVISION DESCRIPTION	DRAWN
01	19/04/2016	TRH Detail added	JDP

Sanitary Schedule:

A. Vaal Sanitaryware Afsan vitreous china low level suite colour White (Code: 750100) with B2 economy double flap thermostat seat, comprising 90° outlet low level washdown pan with Hibiscus "Elite Duct Cistern" (Code: 7116DP), complete with lid, fittings, push button mechanism, and duct flush pipe.
• Cobra Watertech 15mm ball type angle valve (Code: 832-10). x1

B. Vaal Sanitaryware Junior vitreous china low level suite colour White (Code: 751358) with Junior double flap wooden seat (Code: 8532Z0), comprising 104° outlet washdown pan (Code: 751301) with Hibiscus "Elite Duct Cistern" (Code: 7116DP), complete with lid, fittings, push button mechanism, and duct flush pipe.
• Cobra Watertech 15mm ball type angle valve (Code: 832-10). x1

C. Vaal Sanitaryware vitreous china "Protes Paraplegic" 90° outlet pan (code 750200) and matching 9 litre cistern (code 7116LP) complete with lid, fittings, and purpose-made C.P. side-flush lever (left or right) or a back inlet exposed flushvalve. Bottom inlet water supply must be on same side as flush lever. The suite is designed to flush effectively on 6 litres
ADDITIONAL REQUIREMENTS
• Vaal Sanitaryware Hibiscus vitreous china lavatory basin colour White (Code: 702303), overall size 510 x 405mm with one taphole including integrated overflow and chinastay hole, bedded to wall with 2No.10mm bolts (Code: 8448Z0) and sealed with silicone sealant where basin meets wall.
• Cobra Watertech 15mm chrome plated metered pillar tap (Code: KM2-100) with non-hold open feature and streamline spout, manufactured in accordance with SANS 1808-9:2001.
• Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.
• Cobra Watertech 32mm chrome plated bottle trap (Code: 350) with 75mm deep re-seal, adjustable telescopic pipe and 40mm outlet.
• Cobra Watertech 15mm ball type angle valve (Code: 832-10). x1
• 450x600x4mm mirror with sides smoothed, fixed to wall with 4 x CHROME PLATED mirror screws.

ROTARY CLUB OF RICHARDS BAY

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RESPONSIBLE PERSON	DATE	SCALE
DRAWN ---	---	1:50, 1:5
CHECKED ---	---	SHEET SIZE
APPROVED Van der Hever SACAP No. 5041 Phil Arch.	---	A1

CLIENT INFORMATION

CLIENT/COMPANY NAME
-

MEMBER
ID No.
PHONE No.

SIGNATURE

PROJECT INFORMATION

PROJECT DESCRIPTION
PROPOSED NEW ABUTLION BLOCK

PROJECT NAME
SEKUSILEZULU CRECHE

STREET ADDRESS
-

SITE DESCRIPTION
-

DRAWING INFORMATION

DRAWING TITLE
DESCRIPTIONS, TOILET ROLL HOLDER DETAIL

PROJECT NUMBER
R2016-09-SP-500-01

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