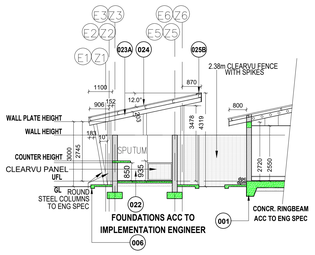

SECTION RR
Scale 1:100

GENERAL SPECIFICATION : SECTIONS & ELEVATIONS

FOUNDATIONS:

001-Concrete foundations strictly to engineer's detail and specifications.

FLOORS:

002-Concrete surface bed as part of raft foundation with impregnated soft board in 12mm expansion joints with movement joints cut in surface bed and filled with polyurethane grout on dpc strictly to engineer's specifications. Expansion joints, movement joints and grout specifications to structural engineer details.

002.1 - Min. 200mm thick concrete surface bed of strength 25MPa for Dirty Utilities. All in situ concrete work (mass and reinforced) shall comply with the appropriate SANS standards.
According to engineer's details and spec's.

002.2 - REINFORCED CONCRETE AND FORMWORK: ALL IN SITU CONCRETE WORK (MASS AND REINFORCED) SHALL COMPLY WITH THE APPROPRIATE SANS STANDARDS. ACCORDING TO ENGINEER'S DETAILS AND SPEC'S.

002.3 - SCREED (NO LESS THAN REQUIRED MINIMUM THICKNESS) WITH FALL TO ROFO (OR SIMILAR APPROVED) FLOOR DRAINS, AS DETAILED ON RELEVANT DRAWING SHEETS.

003-Damp-proof membrane: 1 layer (250 microns) damp-proof membrane under surface beds shall be of green polyethylene sheeting complying with SANS 952-1985 (type c). The sheeting shall be laid in the widest practical widths to minimize joints and shall be turned up, dressed to load bearing walls, and lapped with (375 micron) damp-proof course. All joints shall be sealed with pressure sensitive tape applied over the leading edge of the joint.

004-Soil insecticides: covers the safe and effective application of soil insecticides of the aldrin and chlordane types to building sites to protect buildings (other than wooden structures in contact with the ground) from subterranean wood-destroying termites. Apply under open foundations, open trenches, bottom & side of surface bed Health precautions and medical first-aid facilities and treatment to comply strictly with applicable health regulations and local authority by-laws.

005-Concrete lintels cast in situ shall be of class E concrete, reinforced with steel reinforcement as well as of depths specified, strictly to engineer's detail and specifications.

006.1 (A2)- 50mm thick Bond Brick paving blocks with edge brick in concrete footing to be laid strictly to engineer's detail and specifications, falling away from building.

006.2 (A4)- 1000mm wide concrete apron 85mm thick, falling away from building, with re-inforcing and expansion joints strictly to Engineer's details and specifications to a smooth and even surface. Stormwater channel incorporated into apron as per Eng. details.

007 (A1)-Concrete sub-floor screed with (3:1) sand/cement plaster of thickness required of 30mm, but not less than 25mm with steel trowel to true, level and smooth surface finish. Wood trowel in areas where final floor finish will be tiles. The screed shall be laid before the concrete sub-floors have matured. Fix 5x35mm aluminium floor dividing strips in floors under all internal doors where floor finish changes material or pattern, and under external doors so that the external threshold is 10mm lower than the internal threshold. Falls where applicable.
Provide control joints, maximum 12m² as per eng. specifications.

008 (A5)-Sand-cement screed finish to treads of steps, thresholds shall be of (2:1) cement plaster of thickness required, but not less than 20mm thick with steel troweled to true and smooth surface finish. The finish to vertical surfaces shall be not less than 12mm thick. Falls where applicable.

009.1 (A3) - 25-30MPA POWERFLOAT FINISH TO SURFACE BED AS PER ENG. SPECS, FOR FLOORS, TREADS OF STEPS, THRESHOLDS AND SIMILAR HORIZONTAL SURFACES, ALL TO A VERY SMOOTH & EVEN SURFACE. FALL TO FLOOR DRAINS IN AREAS WHERE INDICATED.
- Reeded flutes in stair threads.

009.2 - (X1) VINYL EPOXY FLOORING:
FLOWCRETE Flowfresh RT 6mm slip-resistant, anti-microbial treated polyurethane floor system. COLOUR : CREAM
To be installed by an approved Flowcrete applicator strictly according to manufacturer's specification manual. Prepare surface by captive shotblasting or mechanical scarifying. Apply primer, then scatter and then Flowfresh RT mortar as specified. Substrate to be power floated concrete with moisture content of 4%. Cured compressive strength 36MPa.
SKIRTINGS: Same as for floor finish, applied to 75mm high steel floated border against walls with 50mm 45 deg tapered corner.

010 (B1)-Finish floor or surfaces with grade 1 acid resisting porcelain tile, 8mm thick and of load group 4, but of sizes available in the market and of approved colour by architect, all bedded to a true and even surface in tile glue and with joints not exceeding 8mm wide. After the tiles have been allowed to set for a period of not less than 24 hours, the joints shall be grouted in with an approved epoxy compound or acid resistant cement mortar. Form porcelain tile skirting where required 100mm high. Expansion joints (soft joints) in all tile floors @ 3000mm in both directions. Fill floor joints (soft joints) with Dark Grey silicon sealer.

011 (C1 to 6) Polyflor 2000 PUR 2mm thick x 2m wide homogenous, fully flexible vinyl heavy duty sheet flooring welded with Polyflor welding rod. Laid according to manufacturer's instructions with a suitable approved adhesive for the substrate on to which the product will be installed and laid by an approved contractor.
Colour and pattern according to Finishing Schedule and Floor Finish Layout Plans.
- See Polyflor specifications in Finishing Schedule for Self leveling screeds and Class 1 floor screed under all vinyl floors.

012 (A2.1) 50mm thick Cobblebond paving blocks with edge brick in concrete footing to be laid strictly to engineer's detail and specifications, falling away from building.

WALLS:

THE POSITION OF ALL STRUCTURAL EXPANSION JOINTS IN WALLS & FLOORS TO BE INDICATED BY STRUCTURAL ENGINEER & BE DONE ACC. TO DETAIL BY ENGINEER.

013-Galvanized "brickforce" brick reinforcing to be used every brick course from foundation to floor level. Above floor level galv. "brickforce" brick reinforcing to be used every 4th course. Above all openings, windows, etc. "brickforce" to be used every course for 5 courses, thereafter every 4th course where applicable.

014-(E1) External face brick skin at 85mm brick layers inclusive of 10mm joints to be stretcher bond built fair with 3:1 sand/cement mortar mixture and joints pointed with a square jointing tool in horizontal and vertical joints. Burnt clay face brick shall comply with the requirements of SANS specification 227.
All face brickwork shall be cleaned down as the work proceeds (EVERY 4 ROWS) and shall be covered up with approved means. External facings to be treated with an approved face brick sealant.
"RED" Face brick: FBS "Corobrick" ROAN Satin or similar approved burnt clay face brick.

015-230/115mm wide internal clay brick walls at 85mm brick layers inclusive of 10mm joints to be stretcher bond built fair with 3:1 sand/cement mortar mixture and flush joints.

016A-All structural load bearing walls, reinforced concrete columns, slabs and beams, strictly according to structural engineer's specification.

016B-All structural steel columns, beams & trusses strictly according to structural engineer's specification.

017-375 micron Black embossed dpc, well lapped at all joints and intersections and bedded and jointed in cement mortar.

018A -External window sill SAME AS 018B.

018B (E2) FBS "Corobrick" ROAN Satin brick on edge window sill or similar approved to fit brick opening. Damp-proof course (375 micron) applied to underside of window sill as per detail.

019 (D5)-Internal window sill to be plastered to fall. Apply 1(one) coat Plascon Merit Plaster Primer and 2(two) coats Plascon Double Velvet Pure Acrylic paint or similar approved.

020 (E1) FBS "Corobrick" ROAN Satin brick on edge roller course lintel or similar approved to fit brick opening.

020a Lintels: precast prestressed concrete FABCON lintels to door and window openings, SABS 1504. With BRC brickforce 75mm wide every brick course above openings.Openings wider than 2100mm to eng. spec.

021 (D3)-Exterior plaster: - plaster on external walls shall be not less than 12mm or more than 15mm thick coat (5:1) of sand/cement smooth plaster finished with a wood float. All plaster splashes, loose material and surface contamination to be removed by brushing or scraping. Using approved filler, all defects to be made good. Remove powdery residues once dry. COLOUR 3.

021A (D4)-Exterior plaster: - plaster on external walls shall be not less than 12mm or more than 15mm thick coat (5:1) of sand/cement smooth plaster finished with a wood float. All plaster splashes, loose material and surface contamination to be removed by brushing or scraping. Using approved filler, all defects to be made good. Remove powdery residues once dry. COLOUR 4.

022 (D1) -Interior plaster: - plaster on walls shall be not less than 12mm or more than 15mm thick coat (4:1) of sand/cement smooth plaster finished with a steel float. All plaster splashes, loose material and surface contamination to be removed by brushing or scraping. Using approved filler, all defects to be made good. Remove powdery residues once dry. Apply 2nd plaster coat max 5mm thick - Dulux Pre-paint Smoothover, skimming plaster, to be installed strictly according to manufacturer's specification by a knowledgeable contractor with a wet plastering trowel, skimming tool or large scraper moving in an upward curve, maintaining a firm and even pressure.

022A - REMOVE ALL PLASTER SPLASHES, LOOSE MATERIAL AND SURFACE CONTAMINATION BY BRUSHING OR SCRAPING. USING THE APPROPRIATE FILLER, MAKE GOOD AND MINOR DEFECTS, WHICH MAY NOT BE BRIDGED BY THE PAINT COATING. ALLOW DRYING, AND ENSURING THAT ANY POWER RESIDUES ARE REMOVED. APPLY 1(ONE) COAT OF PLASTER PRIMER. THIN PRIMER UP TO 10% TO AID PENETRATION. APPLY 1(ONE) COAT OF UNIVERSAL UNDERCOAT. UNDERCOAT MUST COMPLY WITH SABS SPECIFICATION 681. APPLY 2(TWO) COAT PURE ACRYLIC PAINT. PAINT MUST COMPLY WITH SABS SPECIFICATION 633 GRADE I.

022B - REMOVE ALL PLASTER SPLASHES, LOOSE MATERIAL AND SURFACE CONTAMINATION BY BRUSHING OR SCRAPING. USING THE APPROPRIATE FILLER, MAKE GOOD AND MINOR DEFECTS, WHICH MAY NOT BE BRIDGED BY THE PAINT COATING. ALLOW DRYING, AND ENSURING THAT ANY POWER RESIDUES ARE REMOVED. APPLY 1(ONE) COAT OF PLASTER PRIMER. THIN PRIMER UP TO 10% TO AID PENETRATION. APPLY 1(ONE) COAT OF UNIVERSAL UNDERCOAT. UNDERCOAT MUST COMPLY WITH SABS SPECIFICATION 681. APPLY 2 (TWO) COAT HIGHLY WASHABLE ENAMEL PAINT. PAINT MUST COMPLY WITH SABS SPECIFICATION 633 GRADE I.

022C (D10) - PREPARE CLEAN AND DRY PLASTERED SURFACE, AND APPLY ONE COAT CLEAR PRIMER. APPLY THREE COATS A.F." ANTIFUNGAL WATER-DISPERSING EPOXY-COATING IN COLOUR BY ARCHITECT. APPLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

022D - "GENESIS" OR EQUAL APPROVED MITRED PVC TILE CORNER & EDGE TRIM TO BE FITTED TO ALL CORNERS AND EDGES.

022E - PURPOSE MADE STAINLESS STEEL CORNER PROTECTORS 1,2M HIGH FIXED TO EXTERNAL CORNERS TO WALLS AND REVEALS TO SLIDING DOORS ACCORDING TO DETAIL LAYOUTS AND DETAILS.

022F - PURPOSE MADE STAINLESS STEEL BUMPER RAILS ACCORDING TO DETAIL LAYOUTS AND DETAILS.

022G - ISOPANELS WALLS FOR COLD ROOMS AS PER MECH. ENGINEER DETAILS & SPECIFICATIONS.

022H - VINYL AGAINST WALL TO BE SAME AS FLOOR VINYL, COLOURS TO CORRESPOND TO FLOOR FINISH LAYOUT PLANS.

022I - EXTERNAL PURPOSE MADE STEEL CORNER PROTECTORS 1,2M HIGH FIXED TO EXTERNAL CORNERS OF WALLS AND EXTERIOR COLUMNS TO ENGINEER'S DETAIL LAYOUTS AND DETAILS.

ROOF:

023A-Engineered approved STEEL roof trusses. Pitch: as per sections. Truss spacing as per engineer and fixed to steel columns and/or concrete ringbeams in walls as per engineer specifications & details. All steel to be finished with metal primer and universal undercoat with 2 coats enamel paint.

023B-Engineered MITEK approved prefabricated timber roof trusses as manufactured by gangnail or equal approved. Pitch: as per sections. Truss spacing as per specialist but not exceeding 1200mm c/c. and fixed to walls with 32 x 1,6mm thick galvanised hoop iron strap, build 750mm into brickwork. All exposed timber to be finished with "abe provonite" or equal approved black coal tar paint.

024-ALSO SEE NOTE (**)
Safintra Saflok700 (or equal approved) concealed fix roofing, 0.55mm interlocking trapezoidal rib profile BLUE aluminium-zinc roof sheeting with Colorplus Deep Ocean finish. PROVIDE PAINTED WHITE CIRCLE WITH RED CROSS INSIDE ON TOP OF ROOF IN AREAS AS DETERMINED ON SITE.
The sheets shall be cold roll profiled on site in single lenghts to each roof slope. Fixing will be done by Saflok 700 (or equal approved) aluminium-zinc coated steel clips strictly according to Safintra installation manual. High window load clips (by Safintra or equal approved) will be used strictly as per Safintra instruction and installation manual at roof apex overhang and lower roof overhang .
Take note that sheets be laid from one side only in order for sheets to overlap correctly.
NOTE:
- Wind Zone shall be site specific. High wind load clips to be used in terrain catagories 1 & 2 or areas with wind speeds exceeding 120km/h. Engineer to determine Wind Zone so that flashing fastener interval and purlin spacing can be adjusted accordingly as per wind speed table.

024A-ALSO SEE NOTE (**)
Modek translucent sheeting with Saflok 700 profile with concealed fix roofing, Modek 1.8kg/m3 GRP sheeting (max purlin width of 1500mm). COLOUR - OPAL 50%
Installation strictly according to Modek installation specification manual. High window load clips (by Modek or equal approved) will be used strictly as per Modek instruction and installation manual at roof apex overhang and lower roof overhang .
Take note that sheets be laid from one side only in order for sheets to overlap correctly.
NOTE:
- Wind Zone shall be site specific. High wind load clips to be used in terrain catagories 1 & 2 or areas with wind speeds exceeding 120km/h. Engineer to determine Wind Zone so that flashing fastener interval and purlin spacing can be adjusted accordingly as per wind speed table.

025A-ALSO SEE NOTE (**)
0.55mm Safintra (or equal approved) concealed fix aluminium-zinc ridge/hip flashing for ridges & hips with Colorplus Deep Ocean. Installed with approved Safintra brackets (or equal approved) as per installation manual.The ridge flashing shall be without roll top, provided with Broadflute closures under the wings and approved poly-closures in troughs. Bent down edges.

025B-ALSO SEE NOTE (**)
0.55mm Safintra (or equal approved) concealed fix aluminium-zinc apex & barge flashings with Colorplus Deep Ocean, to top and side edges of roof. Flashing shall be installed with approved Safintra brackets (or equal approved) as per installation manual.
The top of roof under apex flashing shall be closed off with Broadflute closures. Bent down edges.

026-"Isoboard" or equal approved 70mm thick high density 32-36kg/cubic meter rigid extruded polystyrene 100% closed cell insulation panels, laid over roof trusses under roof sheeting in accordance with manufactures specifications.

027-0,8mm Safintra (or equal approved) aluminium-zinc flashing & counter flashings, with Colorplus Deep Ocean finish, bent and set not less than 25mm deep into joints in the masonry. Close dressed for not less than 200mm on to top of the roof finish.

028-225x15mm Medium density "everite nutec cement" or equal approved facia board or barge board according to detail. Barge flashings as described in 025B.

029-Lightning protection- Buildings specified to be provided with lighting protection shall have a system installed as described hereunder which shall be in accordance with the latest revision of the SANS code of practice 03 and must comply with the performance requirements laid down therein.

030- 0.55mm Safintra (or equal approved) concealed fix aluminium-zinc valley flashings, with Colorplus Deep Ocean finish. Flashing shall be installed according to Safintra (or equal approved) installation manual on to purlins at each side of valleys. Valleys in roofs generally shall be formed with 2x228x25mm sawn boards, treated in accordance with clause 8.2 well spiked down to roof timbers with purlins or tiling battens,fixed along outer edges.

031A-75 x 50mm S.A. pine purlins at 1200mm centres in accordance with SANS specification 563, securely skew nailed to timber rafter truss with dia 4mm and 120mm long wire nails.

031B-Steel purlins at centres as per engineer's detail & design. Fixing also as per engineer's detail.

032a-114 x 38mm S.A. pine wall plates in accordance with SANS specification 563 or 1245 and shall be of (grade 4) or better. Wall plate to be painted with 2 coats "abe provonite".

032b-Steel saddles on top of concrete ringbeams to align different sized steel trusses, strictly according to engineer's detail.

033-Beam filling shall be full brick thick, built up in mortar as used in the wall below, cut in between roof timber and carried hard up to underside of roof covering and flushed up with mortar.

CEILINGS:

Symbol in brackets refer corresponding type in Finishing Schedule Part H - Ceilings.

034a (H1) - E1: 12,5mm BPB Gyprex White vinyl finish 600x600mm ceiling panels installed in Donn T38 exposed T-suspended ceiling system, 2550mm from unfinished floor level. Z-profile shadow line cornice as per Donn LSM-25 system.

034b (H2) - E2 : 12,5mm BPB Gyprex White vinyl finish 1200x600mm ceiling panels installed in Donn T38 exposed T-suspended ceiling system , 2550mm from unfinished floor level. Z-profile shadow line cornice as per Donn LSM-25 system.

034c (H2a) - E2a: Same as E2, SLOPING installed 50mm below rafters (as indicated on sections).

034d (H3) - E3 : AMF THERMATEX Acoustic Hygena white 1200x600mm ceiling panels in Donn T38 exposed T-suspended ceiling system, horizontally installed at 2550mm from finished floor level. Z-profile shadow line cornice as per Donn LSM-25 system.

034e (H4) - E4 : AMF TOPIQ Prime Hygena white 1200x600mm ceiling panels in Donn T38 exposed T-suspended ceiling system, horizontally installed at 2550mm from finished floor level. Z-profile shadow line cornice as per Donn LSM-25 system

034f (H4a) - E4a : AMF THERMATEX Acoustic Hygena white 1200x600mm ceiling panels in Donn T38 exposed T-suspended ceiling system, SLOPING installed 50mm below rafters. (as indicated on sections) Z-profile shadow line cornice as per Donn LSM-25 system.

034g (H4b) E4b: Same as E4, horizontally installed at 4065mm from finished floor level.

034h (H4c) - E4c: Same as E4, horizontally installed at 2890mm from finished floor level.

034i (H4d) - E4d: Same as E4, horizontally installed at 5355mm from finished floor level.

034j (H4e) - E4*: Same as E4, with wire mesh installed horisontally 500mm above ceiling for sercurity

034k (H5) - E5 : 6mm Thick "everite nutec" fibre cement ceiling mounted to 50x38mm timber battens at height of 2550mm above unfinished floor level. S.A.pine brandering at max.600mm c.t.c. in one direction with 32mm gms clout nails. All joints between panels must be, (unless otherwise specified) covered with aluminium epoxy coated h-profile jointstrips. Prepare and finish with one coat plascon merit or equal approved alkali resistant plaster primer, one coat plascon merit universal undercoat and two coats "plascon velvaglo" or equal approved enamel paint. Colour to be confirmed by architect. 75mm "Everite nutec" or equal approved fibre cement coved cornice, nailed against wall and ceiling construction with 32mm galvanized clout nails. Countersink and fill nail heads. Prepare and finish as for ceiling. Colour to be confirmed by architect. Finish off joint between cornice and wall with an approved silicon sealer.

034l (H5a) - E5a: Same as E5, horizontally installed at 4065mm from finished floor level.

034m (H5b) - E5b: Same as E5 but fixed with 32mm serrated ceiling nails. Ceiling to be plastered and skim coated and finished with one coat clear primer and 3 coats antifungagl water-dispersing epoxy-coating in colour by architect. Apply in accordance with the manufacturer's instructions.

034n (H6) - E6 : 6mm Thick "everite nutec" fibre cement ceiling, SLOPING, mounted under steel trusses on 50x38mm S.A.pine brandering at max.600mm c.t.c. in one direction with 32mm gms clout nails to 38x38mm timber battens. All joints between panels must be, (unless otherwise specified) covered with aluminium epoxy coated h-profile jointstrips. Prepare and finish with one coat plascon merit or equal approved alkali resistant plaster primer, one coat plascon merit universal undercoat and two final coats PLASCON POLVIN WHITE. 38mm Quarter rounds against walls, to be painted with undercoat and 2 final coats PLASCON POLVIN WHITE.

034o (H7) - E7 : Concrete ceiling (soffit at height of 2465mm above unfinished floor level for Records & IT/UPS Server). Prepare areas with plaster slash coat. Plaster with one coat 0f 12mm thick (3:1) sand/cement and finished with a wood float and sponge finish. All plaster splashes, loose material and surface contamination to be removed by brushing or scraping. Using approved filler. all defects t be made good. Apply rhinolite plaster as second coat. remove powdery residues once dry. Paint universal undercoat and two coats Plascon Acrylic-emulsion paint as per manufacturer's specifications. Colour : White

CORNICES:

034p (H8) - FORM PLASTER TROWEL CUT IN PLASTER AT JUNCTION OF BRICKWORK AND CONCRETE.

034q (H9) -75mm "EVERITE NUTEC" OR EQUAL APPROVED COVED CORNICE. NAILED TO WITH 32mm GALVANISED CLOUT NAILS TO BRANDERING AT 450mm C/C AND 300mm C/C AGAINST WALL. COUNTERSINK AND FILL NAIL HEADS.
PREPARE AND FINISH SAME AS FOR CEILING.

034r (H10) - 55mm "EVERITE NUTEC" OR EQUAL APPROVED FIBRE CEMENT COVED CORNICE, NAILED AGAINST WALL AND CEILING CONSTRUCTION WITH 32mm GALVANIZED CLOUTNAILS. COUNTERSINK AND FILL NAIL HEADS. PREPARE AND FINISH AS FOR CEILING. FINISH OFF JOINT BETWEEN CORNICE AND WALL WITH AN APPROVED SILICON SEALER.

034s (H11) -"DONN" OR EQUAL APPROVED PATENTED ALUMINIUM SHADOWLINE WALL EDGE TRIM.

DOORS & WINDOWS:

035A-Standard steel windows according to window schedule. BURGLAR BARS INSIDE IN FRONT OF ALL PANELS.

035B-Purpose made aluminium windows according to window schedule.

036A-Purpose made aluminium doors according to door schedule.

036B -Other Doors according to door schedule.

037- CLEARVU screens/ventilation louvres within frame according to screen schedule.

038-Sun louvres as per detail, supplied by Saffintra (or equal approved) with Colorplus Thunderstorm finish.

039-CLEARVU infill panels/ventilation louvres according to gate schedule.

039.1-Standard 2.3m high CLEARVU fencing as provided complete by specialist manufacturer and installed to manufacturer's specifications. Manufacturer to provide min 15 year warrenty.

040-Seamless aluminium gutter 100x75mm above entrance to MOU & SPUTUM with aluminium rainwater downpipe. Colour same as faciaboard.

040a- 15x150mm fibrecement faciaboard installed horisontally on 50x50mm square tube steel section frame with 20mm opening between boards. Installed at ducts/shafts as screens.

SKIRTINGS:

041A - 75MM HIGH STEEL FLOATED BORDER AGAINST WALLS WITH 50MM 45 deg TAPERED CORNER.

041B - 76x19mm MERANTI SKIRTING WITH 19mm MERANTI QUARTER ROUND NAILED AT 500mm C/C. COUNTER SINK NAILS AND FILL. SAND DOWN, KNOT, PRIME AND STOP ENSURE THAT THE SURFACE IS CLEAN AND DRY. RUB DOWN WITH FINE GLASS PAPER AND DUST OFF LOOSE PARTICLES. APPLY 1(ONE) COAT OF PRIMER. PRIMER MUST COMPLY WITH SABS SPECIFICATION 678.
TYPE I. APPLY 1(ONE) COAT OF UNIVERSAL UNDERCOAT. UNDERCOAT MUST COMPLY WITH SABS SPECIFICATION 681. TYPE II. APPLY 2(TWO) COATS OF HIGH GLOSS ENAMEL PAINT. PAINT MUST COMPLY WITH SABS SPECIFICATION 630.
TYPE I FOR DARK COLOUR AND TYPE II FOR LIGHT COLOUR.

041C- 76x19mm MERANTI SKIRTING WITH 19mm MERANTI QUARTER ROUND NAILED AT 500mm C/C. COUNTER SINK NAILS AND FILL. SAND DOWN, KNOT, PRIME AND STOP ENSURE THAT THE SURFACE IS CLEAN AND DRY. RUB DOWN WITH FINE GLASS PAPER AND DUST OFF LOOSE PARTICLES. APPLY 1(ONE) THIN COAT VARNISH TO 10% WITH TURPENTINE TO ALLOW PENETRATION. APPLY 2 (TWO) COATS OF VARNISH AND SAND LIGHTLY DOWN BETWEEN COATS OF VARNISH. VARNISH MUST COMPLY WITH SABS SPECIFICATION.

041D - VINYL COVE SKIRTING SHALL BE 70MM IN HEIGHT OF AN APPROVED MANUFACTURER. THE ADHESIVE SHALL BE OF THE EMULSION TYPE SUCH AS BITUMEN, RUBBER BITUMEN OR THE LATEX-RESIN, ALL AS DESCRIBED IN SABS CODE OF PRACTICE 070.

041E - FORM CERAMIC TILE SKIRTING, AS FOR FLOOR TILES, BUT HALF-TILE HIGH, ROUNDED ON TOP EDGE, BEDDED, JOINTED AND POINTED AS DESCRIBED FOR FLOORS.

041F - FORM CERAMIC TILE SKIRTING WHERE REQUIRED 100MM HIGH, COVED AT JUNCTION WITH FLOOR AND ROUNDED ON TOP EDGE, BEDDED, JOINTED AND POINTED AS DESCRIBED FOR FLOORS.

041G - 75MM HIGH STEEL FLOATED BORDER AGAINST WALLS WITH 50MM 45 deg TAPERED CORNER, APPLY FLOWCRETE Flowfresh RT 6mm slip-resistant, anti-microbial treated polyurethane floor system. COLOUR : CREAM. To be installed by an approved Flowcrete applicator strictly according to manufacturer's specification manual. Prepare surface by captive shotblasting or mechanical scarifying. Apply primer, then scatter and then Flowfresh RT mortar as specified. Substrate to be power floated concrete with moisture content of 4%. Cured compressive strength 36MPa.

041H - COMPARTMENT 2x COVER "LEGRAND" OR EQUAL APPROVED uPVC POWER SKIRTING IN POSITIONS SHOWN ON ELECTRICAL ENGINEERS DRAWINGS.

NOTE (**)
Safintra 0,55mm thick SAFLOK 700 ZincAL® Colorplus interlocking roof sheeting fixed to steel internal purlins at 2000mm, and ridge/eaves purlins at 1700mm centres using SAFLOK 700 clips which must be screw fixed to steel purlins with Fixtite® or Safintra approved wafer head self-tapping screws. The sheeting will be a double interlocking concealed fix SAFLOK 700 profile as manufactured by Safintra Roofing, roll formed in continuous lengths from certified G550 steel or aluminium 3004 H14. The profile shall be roll formed with 4 ribs and centres not exceeding 233mm and a cover width not exceeding 700mm. The male rib is to include spurs to ensure a double interlocking action with adjacent sheets. The minimum sheet depth will be 41mm. Two stiffening ribs are incorporated in each pan.
The installation process for using the High Wind Load System (HWLS) is a pierced fix method. The High Wind Load System is recommended for terrain categories A & B. (For pdf reference on terrain categories, a document may be found at www.safintra.co.za). Note that the HWLS is not a concealed fix system, and is therefore recommended only for the perimeter and/or overhang areas of the building. Buildings taller then 10m would also require special design attention and the use of the HWLS.
Step 1. Starting with the female rib first, align first sheet and hold down.
Step 2. Place saddle washers over the first 3 ribs above the purlins (starting from the female rib side). Align, and fasten the saddle washers through the rib using an appropriate Fixtite® or Safintra approved fastener.
Step 3. Position the next sheet, engaging the female rib fimly over the male rib of the previous sheet. Repeat step 2.
Note: The bonded washer can only be fixed from the top.
For sealed joints use fasteners or rivets and neutral-cure silicone sealant branded as suitable for use with AZ steel. Where insulation is to be installed, you may need to increase the length of the fasteners given below, depending on the density and thickness of the insulation. When the fastener is properly tightened:
• into metal: there should be at least three threads protruding past the purlin you are fixing to, but the shank guard must not reach that purlin.
• into timber: the fastener must penetrate the timber by the same amount that the recommended fastener would do if there were no insulation.
Note: this clip is positively fixed. Care should be taken when detailing industrialength sheeting and flashing due to thermal expansion.
Safintra recommends the use of a Flashing Slider Clip for very long sheets.

Patented and marked SAFLOK™ 700 clips shall be used (Clip 20) to secure the sheet, fixed to timber purlins or rails at spacings in accordance with the manufacturer's recommendations. The clip shall be fixed with SAFINTRA FIXTITE™ or other approved fasteners in accordance with the manufacturer's recommendations and material warranty requirements.

Safintra approved flashings and accessories shall be used in accordance with the manufacturer's recommendations and material warranty requirements.
SAFLOK 700 CLIPPING SYSTEM
The SAFLOK 700 clip incorporates a dual action component to positively hold down the male-female joint on every third rib, and an anchor to clasp the two inner ribs. Every rib is therefore secured, making it fully interlocking. It is essential that the male rib is directly engaged to the underside of the clip.
SAFLOK 700 FLASHINGS
Flashings specifications shall be to Safintra Roofing standards and fixed to the sheeting with flashing slider brackets, to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex/ridge shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind-driven water. The trough shall be lipped at the eaves end to form a drip. Barge flashing flanges shall be fixed to the sliding brackets where necessary. All these operations must be performed with special tools available from Safintra Roofing. Please consult the Safintra Technical Department for assistance.

FASTENERS
Where insulation is to be installed, you may need to increase the length of the fasteners given below, depending on the density and thickness of the insulation. When the fastener is properly tightened:
Into metal: there should be at least three threads protruding past the purlin you are fixing to, but the shank guard must not reach that purlin.
Into timber: the fastener must penetrate the timber by the same amount that the recommended fastener would do if there were no insulation.
HWL Clips
All exposed overhangs needs to be positively fixed using a High Wind Load clip to allow for thermal cycling. If the design does not allow for positive fixing a strong, wind resistant soffit must be installed under the overhang area.

For use with Saflok polycarbonate sheeting. Must be installed with saddle washer. Polycarbonate sheets must be positively fixed - consult the Safintra technical department for advice.
ROLLING STRAIGHT ONTO ROOF
It is possible to roll form straight onto a roof using a scaffold ramp.
The limitations are the building height and space needed to roll. A departure angle of 10° is the maximum allowed at any time. A greater angle would damage the sheet when leaving the mill and again when bending to settle onto the roof. The sheeting cannot be roll formed onto a building higher than 10m.

SEALED JOINTS
For sealed joints use fasteners and neutral-cure silicone sealant branded as suitable for use with AZ steel.
HANDLING AND STORAGE
The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. To keep the product dry and clear of the ground. If stacked or bundled product becomes wet, to separate it, wipe it with a clean cloth to dry thoroughly. To handle materials carefully to avoid damage, not drag materials over rough surfaces nor each other, not to drag tools over material and protect from swarf. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.
INSPECTION PRIOR TO INSTALLATION
Before commencing installation, the contractor shall verify that the following items have been checked and accepted:
- The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- Purlins and girts are at the correct spacing and are within the specified tolerances.
- The corners of the roof are square and the wall framework is perpendicular or as specified.
- No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

SAFETY
The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity. The High Wind Load System should be used fixing the Saflok saddle washer at eaves purlins.
For Aluminium material, we recommend positive fixing on exposed eave purlins, in conjunction with the Saflok saddle washer.

INSTALLATION
Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.
PROTRUSION THROUGH SHEETED SURFACES
Protrusions such as pipes, ducts and the like shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.
WARRANTEE
SAFLOK 700 shall be laid in strict accordance with the manufacturer's specifications by a Safintra approved contractor. A written and approved warrantee of water-tightness shall be issued after approval of roofs by the manufacturer Safintra Roofing.
CLEANING OF ROOF
All debris, swarf, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners, sealants, mandrels from pop rivets, off-cuts of sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc. shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.

SECTIONS (1) & GENERAL SPECIFICATIONS

THE IMPLEMENTATION ARCHITECT TAKES THE FULL RESPONSIBILITY FOR THE IMPLEMENTATION AND EXECUTION OF THESE DRAWINGS.

ALL PLANS TO BE READ AND CO-ORDINATED IN CONJUNCTION WITH ALL OTHER PROFESSIONAL CONSULTANTS DRAWINGS

REV. NO	DATE	REVISION	P.W.D.
		ISSUED FOR TENDER	

NAME	DEPARTMENT	DATE	SIGNATURE

All materials, fittings, etc. specified on the drawings under a trade name, catalogue number or reference, must be exactly as described. Any other product of equal quality may be used subject to the Architect's written approval.
All building works to be of a higher quality as per Architect's approval above the building industry's accepted average.

Client:

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

Implementing Agent:

consultant:

CONSULTIUM
ARCHITECTS & URBAN DESIGNERS

discipline:
ARCHITECTURE - WORKING DRAWINGS

project:
MKHONDO COMMUNITY HEALTH CLINIC
ON ERF NO: 1827 ETHANDAKUKHANYA

drawing title:
SECTIONS (1) & GENERAL SPECIFICATIONS
MAIN BUILDING

ref.no: N10/09/08	designed by: A.MACAMO
scale: AS INDICATED	drawn by: A.MACAMO
date: 06/05/2022	checked by: K.MANGALA
type: CHC (CLINIC)	

drawing no.
N10/09/08/ W-200