

BERGVILLE PRISON: UPGRADING AND NEW ACCOMMODATION ON PORTION OF ERF 233, BERGVILLE, KWAZULU-NATAL PROVINCE.					
		BARTSCH CONSULT (PTY) LTD PO BOX 762 HARRISMITH 9880 TEL: (058) 6223471 FAX: (058) 6230844 E-MAIL: bartsch@dorea.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
24-May-13	100-H-External finishes	0	2620	5	

Prea Code

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| 1 | | Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor. | 0
2013/05/21 |
| 2 | P1 | | |
| 4 | P2 | Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications) | 0
2013/05/21 |
| 6 | P3 | ROOF INSTALLATION: Sheeting type, sheet fixing, all flashings, valley gutters etc. complete with installation of all must be certified and singed off for functionality and water tightness by sheet manufacture. No construction may commence if any part of installation is in doubt . | 0
2013/05/21 |
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| 1 | <input type="checkbox"/> | H1. SHEET METAL ROOF COVERING(0.6 - Galvanized) | 0
2013/05/21 |
| | | Roof sheeting to be Brownbuilt (011 - 898-2900) Concealed Fix Klip-Lok 406 0,5mm thick light industrial Z275 spelter galvanised steel sheeting with with Globalcoat finish to one side and half coat Globalcoat Grey other side and fixed to starter bar and to each intermediate purlin with concealed fixing clips secured with hex head 25mm self drilling tek screws to purlins, all in accordance with the manufacturer's recommendations. (Finish with Classicoat to both sides on covered walkways or when exposed to bottom). Colours (Non standard) to Architect's approval. | |
| 2 | <input type="checkbox"/> | H2. RIDGE CAPPING (GALVANIZED) | 0
2013/05/21 |
| | | Ridge capping (Code FK73) to be Brownbuilt (011 - 898-2900) Concealed Fix 550mm girth, 0.8 thick heavy industrial Z275 spelter galvanised steel sheeting flashing, three times bent along girth and notched on site to suit roof profile with Classicoat finish to one side and half coat Classicoat Grey other side. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval | |
| 3 | <input type="checkbox"/> | H3. BARGE FLASHING (GALVANIZED) | 0
2013/05/21 |
| | | Barge flashing (Code FK74) to be Brownbuilt (011 - 898-2900) Concealed Fix 580mm girth, 0,8mm thick light industrial Z275 spelter galvanised steel sheeting flashing, three times bent along girth and notched on site to suit roof profile. Finish with Classicoat finish to one side and half coat Classicoat Grey other side. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval.. | |
| 4 | <input type="checkbox"/> | H4. SIDE WALL FLASHING (GALVANIZED) | 0
2013/05/21 |
| | | Side wall flashing (Code FK79) to be Brownbuilt (011 - 898-2900) Concealed Fix 408mm girth, 0,8mm thick light industrial Z275 spelter galvanised steel sheeting flashing, two times bent along girth, Counter flashing (Code FK77) to be Brownbuilt 185mm girth, two times bent along girth. Finish with Classicoat finish to one side and half coat Classicoat Grey other side. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval. | |
| 14 | <input type="checkbox"/> | H14. SPECIALIST ACRYLIC PLASTICISED COATING (SMOOTH) | 0
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Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand , ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently.

Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and sound and in accordance to SABS ISO 1514:1993.. Apply one coat of Comet Levelling Coat. Apply Comet Coatings Sygma acrylic plasticised coating by block brush or normal brush to a thickness of 1mm. Seal with Acrylic Top Coat. Include joints to be 18mm wide. The system must be applied in strict conformance to the manufacturer's instructions (021 703 9058). Colours and type to Architect's approval (Pre approve sample).

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| 16 | <input type="checkbox"/> | <p>H16. STANDARD PRE-CAST LINTEL</p> <p>Standard pre-cast lintel length to suit window X 110 X 75mm thick, complete with brick force above for five courses exceeding the 45-degree line.</p> | 0
2013/05/21 |
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| 17 | <input type="checkbox"/> | <p>H17. FACE BRICK IN STRETCHER BOND (RECESS JOINTS)</p> <p>Face bricks are to be Corobrik (031 - 560 3111) Imperial FBX 222 x 106 x 73mm face bricks in stretcher bond with or with out cavity as shown on plan with well raked and smoothed joints (85mm gauge) Colour and type to ARCHITECTS approval.</p> | 0
2013/05/21 |
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| 22 | <input type="checkbox"/> | <p>H22. WINDOW FRAME</p> <p>Window/Shopfront frame complete with furniture and burglar bars according to window schedule as shown on plan. Installed strictly to manufacturers specifications</p> | 0
2013/05/21 |
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| 23 | <input type="checkbox"/> | <p>H23. DOOR AND FRAME</p> <p>Door and frame as shown on plan. Installed strictly to manufacturers specifications</p> | 0
2013/05/21 |
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| 24 | <input type="checkbox"/> | <p>H24. CEILING</p> <p>Ceiling type, finish and installation height according to ceiling plan.</p> | 0
2013/05/21 |
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| 25 | <input type="checkbox"/> | <p>H25. REINFORCED CONCRETE (STRUCTURAL)</p> <p>Reinforced concrete slab/beam according to Structural Engineer's detail design.</p> | 0
2013/05/21 |
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| 26 | <input checked="" type="checkbox"/> | <p>H26. FLOOR SLAB</p> <p>Floor finish (floor finish specified elsewhere) on well prepared 30mm thick screed on concrete surface bed(note: Internal FFL on all floor to be at one level unless otherwise indicated) – all according to Structural Engineer's detail drawings</p> | 0
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27	☐	H27. PLASTER - INTERNAL WALLS ±12mm thick Plaster (1:4 mixture) and finish as per finishing schedule.	0 2013/05/21
35	☐	H35. BALUSTRADES Standard and or purpose made balustrades according to detail drawings - all to national building regulation and Architects approval.	0 2013/05/21
40	☐	H40 - WOODEN TRUSS/BEAM (NEW) Purpose made patented wooden roof trusses/beams complete with purlins (All Roof timber to comply with relevant SABS 563, SABS 653, SABS 876, SABS 1089, or SABS 1245) on 114 x 38 wall plate fixed to all with galvanized build in anchors, bricked into wall for at least 5 courses. All installed strictly to manufacturer's details and specifications. Rafter in brickwork (beam fill) to be wrap with 250micron dpc to allow for thermal movement and prevent plaster bonding. All exposed trusses and purlins to be treated with a high quality wood preservative. Colour and type to Architects approval .	0 2013/05/21
41	☐	H41. MASS CONCRETE FOUNDATION Mass concrete foundations – all according to Structural Engineer's detail drawings.	0 2013/05/21
45	☐	H45. FACE BRICK ON EDGE CILL Face bricks edge cill (30 degrees) are to be Corobrik (031 - 560 3111) solid FBX 222 x 106 x 73mm face bricks with well raked and smoothed joints (85mm gauge), complete with dpc to detail drawing. Colour and type to ARCHITECTS approval.	0 2013/05/21
46	☐	H46 - FACE BRICK ROLLER COURSE LINTEL Face bricks roller course lintel are to be Corobrik (031 - 560 3111) solid FBX 222 x 106 x 73mm face bricks with well raked and smoothed joints (85mm gauge), complete with brick force for 5 courses exceeding the 45 degree line. Colour and type to ARCHITECTS approval.	0 2013/05/21
47	☐	H47. HEAD WALL FLASHING (GALVANIZED) Headwall flashing (Code FK78) to be Brownbuilt (011 - 898-2900) Concealed Fix 375mm girth, 0,8mm thick heavy industrial ZINCALUME® AZ150 spelter G550 steel sheeting flashing, two times bent along girth and notched on site to suit roof profile. Finish with Classicoat finish to one side and half coat Classicoat Grey other side. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval.	0 2013/05/21

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- 50 **H50. APEX FLASHING (GALVANIZED)** 0
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- Apex flashing (Code FB5) to be Brownbuilt (011 - 898-2900) Concealed Fix 580mm girth, 0,8mm thick light industrial Z275 spelter galvanised steel sheeting flashing, three times bent along girth and notched on site to suit roof profile. Finish with Classicoat finish to one side and half coat Classicoat Grey other side. Complete with metal and poly closer without any joints (If unavoidable min. 500mm overlay, complete with sealing strips). Install strictly to manufacturer's specifications. Colours (Non standard) to Architect's approval.
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- 56 **H56. " VULKEM" FULLY BONDED WATERPROOFING TO SLAB** 0
 2013/05/21
- Substrate Preparation :
- Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, curing compound, loose and foreign materials and laitance. Laitance and unbounded cement particles must be removed by Vacublasting. At time of preparation and installation of the Vulkem system the to concrete or Concrete Topping to falls, to be no less than 28 days old with a minimum compressive strength of 25 - 30 MPa and a moisture content not exceeding 4%.
- Priming & Waterproofing:
- Apply one coat of Vulkem 171 at 10m2/litre and allow to cure. On to the well primed surface, apply one coat of Vulkem 350NF at 1m2/litre. Cure Vulkem 350 to firm rubber, before applying Vulkem 351 UV resistant topcoat at 2.5m2/litre. Should a non-slip finish be required, then silica sand can be broadcasted into the wet topcoat, and back-rolled to evenly distribute the aggregate.
- Finishing and Broadcast Aggregate:
- Apply one coat of Vulkem 951NF at 4 sqm / litre and broadcast Pro-Struct No. 1 Coarse Aggregate into the wet film at 0.6 kg / sqm back rolled to evenly distribute the aggregate and allow curing.
- Notes:
- Please note that this system is fully bonded and will accommodate maintenance and pedestrian traffic. This brief description is to be read in conjunction with the full procedure and installation method as supplied by Tremco Illbruck. For recommendations or additional information regarding any of the above please contact StonCor Africa (Jonathan Starmer) on 011 254-5500.
 - This specification must be read in conjunction with all detail drawings for expansion joints, flashings etc. - All to be certified, including guarantee by manufacturer.
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- 65 **H65. SPECIALIST PIGMENTED AGGREGATE COATING (TEXTURE)** 0
 2013/05/21
- Plaster mix for rough brick/concrete walls, composed of 1 part Surebuild cement (Code: CEM II/B 32.5R) and 6 parts sand , ±12mm thick finished with a wood float to rough walls to receive high quality paint/ wall coating. Surebuild cement is to be manufactured in accordance with SANS 50197-1. All to manufacturer's specifications to cover surface sufficiently.
- Prepare substrate by removing all loose and friable matter. Ensure that the surface is clean, dry and sound and in accordance to SABS ISO 1514:1993. Apply one coat of Comet Levelling Coat. Apply Comet Coatings Dune pigmented aggregate coating using stainless steel trowel to a thickness of 2 - 3mm. Seal with Acrylic Top Coat. Include joints to be 18mm wide. The system must be applied in strict conformance to the manufacturer's instructions (021 703 9058). Colours and type to Architect's approval (Pre approve sample).

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85	<input type="checkbox"/> <p>H85. FIBER CEMENT FASCIA BOARD (300 HIGH)</p> <p>Everite Nutec (011- 9038049) fascia boards size 15mm thick or (10mm thick for curved applications only) x 300mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel trusses with corrosion proof gutter bolts at max 1000mm c/c – all according to details drawing. All to Architect’s approval.</p>	0 2013/05/21
106	<input type="checkbox"/> <p>H106 WATERPROOFING - STONCOR BITUTHENE 3000 (TRAFFICABLE)</p> <p>SCREED-TO-FALL : Prepare concrete slab by removing all loose material and laitance by means of scarifying or vacublasting. Apply a mixture of plasterkey (Prostruct 610/601) and Portland cement slurry to prepared surfaces. While still wet, install new screed with falls to stormwater outlets – all to engineer’s detail drawings. (Internal corners shall be coved to 50mm radius and external corners to 25mm) All exposed brickwork, where the waterproofing membrane is to be terminated, must be plastered to a smooth, true surface.</p> <p>The main Bituthene 3000 membrane must be turned up the parapet wall to a minimum height of 200mm to form a skirting and where possible, regletted into the wall and sealed with Prostruct 203 Bitumen Mastic. Seal all leading edges and details around outlets and penetrations with Prostruct 203 Bitumen Mastic.</p> <p>Apply Bituthene 3000 self adhesive, cold applied membrane to the primed surface, laid from the lowest point the high point with the membrane overlapped 65mm in shingle fashion. End laps to be 100mm.</p> <p>All exposed areas of Bituthene 3000 must be protected from damage and UV degradation. Either use Solarshield (a textured aluminium self adhesive sheeting) or Prostruct 680 Acrylic Flashing system.</p> <p>SAND/CEMENT SCREED: As soon as possible, apply a slurry consisting of Prostruct 610/601 and Portland cement onto Bituthene 3000 membrane. While still wet, apply a minimum 50mm thick polymer modified sand/cement screed onto slurry coat. Screed material to be coloured throughout with coloured pigments. Ensure proper curing of newly laid screeds.</p> <p>All installations strictly to manufacturer’s detail installation guidelines, by an approved applicator.</p> <p>FLOOD TEST: To manufacturer’s detail guidelines.</p>	0 2013/05/21
109	<input type="checkbox"/> <p>H109. FIBER CEMENT BARGE BOARD (300 HIGH)</p> <p>Everite Nutec (011- 9038049) Barge boards size 15mm thick or (10mm thick for curved applications only) x 300mm high with high density plain finish, butt jointed with fascia jointing plate. Install to mild steel trusses with corrosion proof gutter bolts at max 1000mm c/c – all according to details drawing. All to Architect’s approval.</p>	0 2013/05/21
175	<input type="checkbox"/> <p>H175. ALUMINIUM GUTTERS (SQUARE 150 X 150)</p> <p>Watertite Guttering commercial and industrial Square profile aluminium H3003h 14 seamless gutter, overall size 150 x 150 x 0,9mm thick coated internally and externally with ColourTech G4, with matching splashplate including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using gutter bolts , including a 50 x 20mm high overflow spigot, including expanded aluminium mesh leaf guard set over gutter with 100 x 100 x 2mm thick aluminium downpipe , 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. Install strictly to manufacturer’s specifications. Colours (Non standard) to Architect’s approval.</p>	0 2013/05/21

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229	<input type="checkbox"/>	<p>H229. Standard Cochrane ClearVu</p> <p>Standard Cochrane ClearVu high density anti-climbing and anti-cut pressed mesh panel fencing , formed of 4mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with Marine Fusion Bond coating with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post , including Locking Recess Mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with bitumen coated 300mm ClearVu underdig. All to detail drawings. (Shop drawings to be approved by Architect prior to manufacturing). Colour to Architects approval.</p>	<p>0 2013/05/21</p>
245	<input type="checkbox"/>	<p>H245. PURPOSE MADE IN SITU CAST CILL</p> <p>Purpose made in situ-cast cill to detail drawing.</p>	<p>0 2013/05/22</p>