

**PRASA Design Blue Print  
Standards and Guidelines Index**



**2023/04/30**

**PRASA Station Modernisation**

**GENERAL NOTES:**

- This document is part of set of documents which form the internal high-level specification and guidelines document to assist with the design of PRASA Railway Stations for both new and existing stations.
- Information, specifications and guidelines in it are subject to change and variation
- All details are generic and indicative of Prasa Standards & Guidelines. Details to be applied to stations and any variations are subject to approval by Prasa

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| DOC NO        | DOCUMENT NAME  | NOTES   |
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| <i>DOC NO</i> | <i>DOCUMENT NAME</i>  | <i>NOTES</i>  |
|---------------|---|---|
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**prasa**  
PASSENGER RAIL AGENCY  
OF SOUTH AFRICA

PRASA Station Modernisation

# ***Part B***

# ***Specification Lists***

|         |   |             |              |            |                             |
|---------|---|-------------|--------------|------------|-----------------------------|
| doc no: | document name:                            | rev no:     | date issued: | drawn:     | project name:               |
| 2,2     | General List of Finishes & Specifications | Revision 22 | 2023/08/12   | 2012/11/05 | PRASA Station Modernisation |

**GENERAL NOTES:**

- This document is part of set of documents which form the internal high-level specification and guidelines document.
- It is to be read in conjunction with Layout drawings and Room Finishing Reference sheets, below codes to be used as reference
- Information and specifications in it are subject to change and variation
- Where pictures are shown, these are a guideline to the specific products to be applied and installed and to be used as a reference
- \*All specifications with an asterix (\*) is applicable to heritage sites only



- "Equal approved" means that any alternative material or finish must comply with the indicated specification, written proof from the supplier/manufacturer to be presented to Prasa Cres PMU: Design and Space planning for final approval

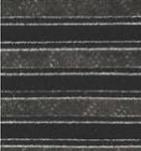
| ref. code | description | specification | Colour | product code | notes | image | extended specification |
|-----------|-------------|---------------|--------|--------------|-------|-------|------------------------|
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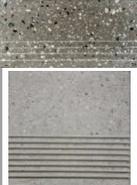
|          |              |   |  |  |  |  |  |
|----------|--------------|---|--|--|--|--|--|
| <b>A</b> | <b>Floor</b> | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |  |  |  |  |  |
|----------|--------------|---|--|--|--|--|--|

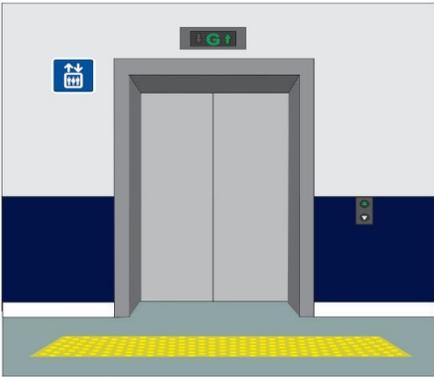
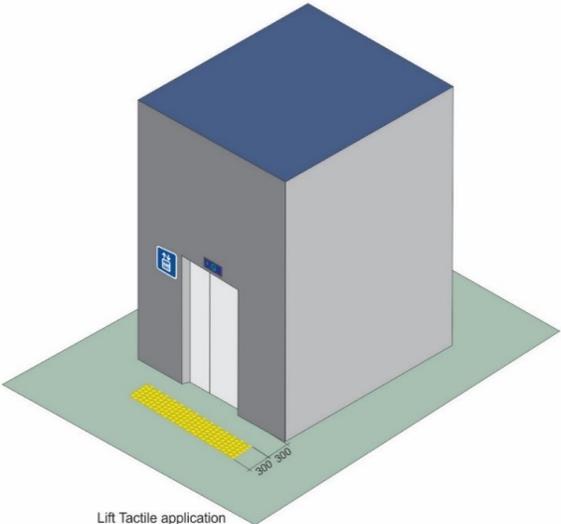
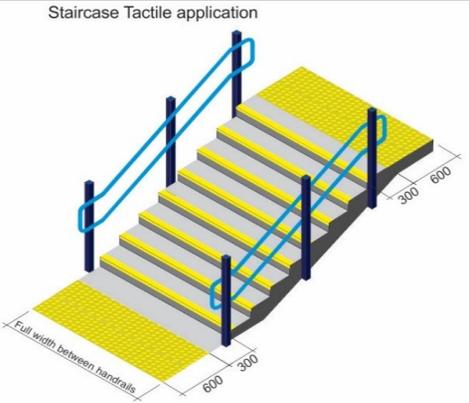
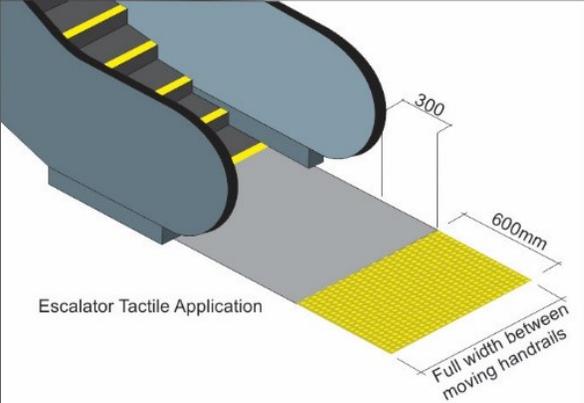
- \* Finished floor levels for all materials are to be identical unless otherwise indicated on drawings.
- \* To be read in conjunction with Floor Finishes Layouts for individual stations. Architect to be notified of any indiscrepancies between document and drawings.
- \* All surface beds, suspended slabs, beams etc. to engineers detail and design.
- \* At all transitions between one finish and another and at all external thresholds finishes are to be laid against a 30 x 4mm brass strip.

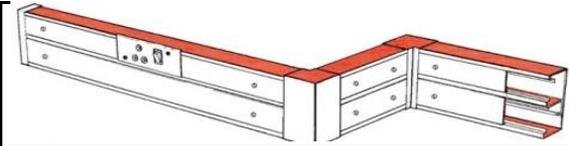
- \* Floor finish on minimum 30mm thick 1:3 cement/sand screed on 85mm thick concrete surface bed (to Engineer's detail) on 250 micron 'Gunplus' USB green or equal and approved waterproof membrane lapped min. 150mm with DPC to brickwork on 50mm sand blinding on well compacted clay free hardcore fill. Fill with approved material in layers not exceeding 150mm in depth, well watered, rammed and thoroughly consolidated to at least a density of not less than 95% modified AASHTO which will be verified and tested by an Engineer.

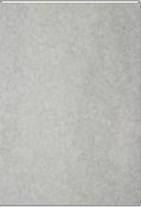
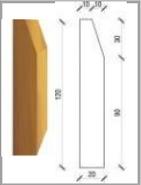
|      |                 |   |                                    |   |   |   |  |
|------|-----------------|---|------------------------------------|---|---|---|--|
| A 01 | Porcelain tiles | 600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles(UT), Tilespace(TS) or Tiletoria(TT) . Natural finish | Light Grey<br>Grout: "Dark Grey"   | UT= ADPMDO-6<br>TS= TS2040AD<br>TT=LG01<br>SMJDS  | Station Primary / Main interior - Concourse - tile floor<br>Grout colour: Dove Grey   |   | Full bodied porcelain tiles, size 600 x 600mm x 10mm fixed to internal floor screed with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds. |
| A 02 | Porcelain tiles | 600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles(UT), Tilespace(TS) or Tiletoria(TT) . Natural finish | Dark Grey<br>Grout: "Dark Grey"    | UT= ADPMBL-6<br>TS= TS2039AD<br>TT=MD01<br>SMJDS  | Station Secondary Interior floor tile, feature strips.<br>Primary tile for kitchen & ablution floors<br>Grout colour: Dove Grey |  | Full bodied porcelain tiles, size 600 x 600mm x 10mm fixed to internal floor screed with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds. |
| A 03 | Porcelain tiles | 600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles(UT), Tilespace(TS) or Tiletoria(TT) . Matt finish    | Black - Matt<br>Grout: "Dark Grey" | UT = ADPMJE-6<br>TS =TS2117AD<br>TT=SM9672<br>JDS | Feature strips  |  | Full bodied porcelain tiles, size 600 x 600mm x 10mm fixed to internal floor screed with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds. |

| ref. code | description                         | specification  | Colour          | product code   | notes   | image   | extended specification  |
|-----------|-------------------------------------|--|-----------------|--|---|---|---|
| A 04      | Floor Carpets                       | 500 x 500mm Loose lay "Metro" Belogotex Commercial carpet tiles with Nexbac from Nexus or equal approved. Tessellated Installation   | Moon Rock       | "Metro" Range  | All passages, office & admin areas  |    | Nexus "Metro" Nexbac Eco Tiles®, 100% Stainproof Miracle Fibre™ (Polypropylene) structured needlepunch Nexbac Eco™ SABS Class 3 fire rating grade heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.  |
| A 05      | Walk-off Mats                       | Matco Trio Scraper or equal approved Walk-off mat. Suitable for interior & exterior covered entrances.   | Anthracite      | 2402   | All main entrances to be 4m min depth & entrances from platforms to be min 3m |    | Matco Trio Scraper or similar approved Walk-off mat, overall size 4000mm or 3000mm x 12mm consisting of 100% polypropylene coarse fibre needle felt brushes alternated with soft strips to effectively scrape & dry with anti-slip latex backing (Code: 2402) glued in recess bedded into screed (by others), installed in accordance with the manufacturers recommendations. To be vacuum cleaned regularly or equal approved  |
| A 06      | Vinyl Tiles                         | FLOORWORX "Floorflex"(MF) or equal approved 300 x 300 x 2,0mm thick semi-flexible vinyl floor tiles, conforming to SANS 581.   | Old Steel       | MF 2516 (S7502-B)  | All storage spaces. Adhesive: FloorworX No 60 Plus                            |    | FloorworX Floorflex semi flexible vinyl floor tiles 300 x 300 x 2,0mm thick in Old Steel finish (colour code: MF2516), manufactured in accordance with SANS 581:1999, laid in FloorworX No. 60 Plus acrylic adhesive spread with a notched trowel on suitably prepared subfloor (elsewhere specified) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg three section metal roller on completion.  |
| A 07      | Concrete surface bed                | Power floated surface bed as per Engineer's specification.   | Concrete finish |  | All strong rooms and equipment rooms  |   |   |
| A 08      | Pedestrian walk / Platform surfaces | Ground and Shotblast stone Paver with 5mm grouting from Bosun or equal approved  | Black           | <b>BOSUN<br/>REVELSTONE<br/>WILSONSTONE</b>              | All external tiled areas, station entrances, walk ways etc. & stair risers    |   | Ground and shot blasted concrete and stone based flagstone, size 400x400x40mm thick laid externally to 1:50 falls. Installation to conform with SANS 1200MJ degree of Accuracy I. Confirm laying and installation technique with supplier. Platform surfaces to engineer specification.   |
| A 09      | Pedestrian walk                     | 600 x 600 x 20mm ,Terrazzo tiles - Lava Stone - with 5mm grouting from Union Tiles(UT), Lovric Dittberner(LD) - (CPT) or equal approved, sealed with manufacturer recommended sealant. | Charcoal grey   | <b>UT =<br/>ADB34LAVSL600<br/>LD=<br/>KF330 ASH GREY</b> | All external tiled areas, station entrances, walk ways etc. & stair risers    |  | Size 600 x 600 x 20mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I. Confirm laying and installation technique with supplier |

| ref. code | description                              | specification   | Colour                               | product code   | notes  | image   | extended specification  |
|-----------|--|---|--------------------------------------|--|--|---|---|
| A 10      | Terrazzo non-slip tiles                  | 600 x 600 x 20mm or 300x300x30mm Terrazzo tiles - Lava Stone - with 5mm grouting from Union Tiles(UT), Lovric Dittberger(LD) - (CPT) or equal approved, sealed with manufacturer recommended sealant.       | Grey multi coloured aggregate        | UT=<br>ADG34LAVSL600<br>LD= KX371<br>SILVER GREY     | New platform finish, detailed areas as per plan  |    | Size 600 x 600 x 20mm or 300x300x22mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I. Confirm laying and installation technique with supplier                 |
| A 11      | Terrazzo non-slip tiles, platform edging | 600 x 300 x 40mm Terrazzo tiles with 100mm white bullnose and tread grooves from Union Tiles(UT) or equal approved, with manufacturer recommended sealant.  | Grey multi coloured aggregate        | UT=<br>ADB34LAVSTEP<br>40                            | New stations, platform nosing  |    | Union Tiles cement based tiles, size 600 x 300 x 40mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I. Confirm laying and installation technique with supplier |
| A 12      | Terrazzo non-slip tiles, stair steptiles | 600 x 300 x 20mm (UT) or 305x230x32mm (LD) Terrazzo steptiles with bullnose and tread grooves from Union Tiles(UT), Lovric Dittberger(LD) - (CPT) or equal approved, with manufacturer recommended sealant. | Grey base with white stone aggregate | UT= ADG34RST<br>LD=<br>KX371 SILVER<br>GREY          | Stair nosing, all external stairs, including station entrances, approaches & stairs to platforms |    | Cement based Stair Tread pavers, size 600 x 300 x 20mm (UT) or 305x230x32mm (LD) thick laid externally to 1:50 falls, with 5mm joints grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded on 20-30mm thick river sand bed, on base course and subgrade, conforming to SANS 1200 MJ Degree Of Accuracy I.   |
| A 13      | Tactiles                                 | 300x300x30mm Cement base product with Tac pins from Union Tiles(UT), Gimi Access(GA), or SmartStone and or equal approved, with manufacturer recommended sealant.   | Yellow cement                        | UT =<br>ADMTAC21T GA<br>= WARYEL300<br>SS=3562080124 | All new and existing station platform edging   |   | Union Tiles, Gimi Access or SmartStone cement based Tactile pavers, size 300 x 300 x 20/30mm thick laid externally with 5mm joints grouted with suitable grout, bedded on 20-30mm thick river sand bed, on base course and subgrade, conforming to SANS 1200 MJ Degree Of Accuracy I. Tactile to comply to SANS 784:2008<br>Supplier to guide with installation specification   |
| A 14      | Tactiles                                 | 300x300mm in-situ system to applied to existing substrate without excavation from Calcon Projects   | Yellow concrete Polymer              | TAC - PAVE   | All existing station platform edging   |  | Tac- Pave is an in situ system that can be applied to most existing surface. The product to be SANS 784:2008 complaint  |

| ref. code | description                              | specification   | Colour | product code | notes | image  | extended specification   |
|-----------|--|---|--------|--------------|-------|--|--|
| A15       | Tactile Lift application                 |  <p>Lift Tactile application</p>       |        |              |       |  <p>Lift Tactile application</p>       | <p><i>Tactile warning indicators application at lifts Refer to SANS 784</i></p>                  |
| A15a      | Tactile: Stair and Escalator application | <p>Staircase Tactile application</p>  |        |              |       | <p>Escalator Tactile Application</p>  | <p><i>Tactile warning indicators application at stairs and escalators. Refer to SANS 784</i></p> |

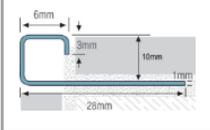
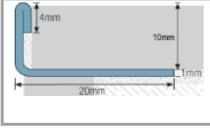
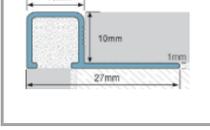
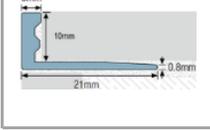
| ref. code | description                                    | specification   | Colour                                 | product code                          | notes   | image   | extended specification   |
|-----------|--|---|--|---------------------------------------|---|---|--|
| A 16      | Asphalt  | Asphalt surfacing & surface preparation to engineer's specifications & details                                      | Black                                  |                                       | Existing & new platform finish, all stations                                    |    |  |
| A 17      | Paving   | 200x100x60mm min thickness Premium Interlocking concrete paving blocks,   | Grey                                   | <b>BOSUN COROBRIK VIBRO</b>           | Existing & new platforms, and any pedestrian area where required - all stations |    | <i>Pavers to be laid in a Herringbone pattern due to its interlocking ability. All paving must comply with SANS 1058:2012 approved</i>   |
| A 18      | Paving   | 200x100x80mm min thickness Premium Interlocking concrete paving blocks,   | Grey                                   | <b>BOSUN COROBRIK VIBRO</b>           | Existing & new parking area and road ways, vehicle traffic - all stations       |    | <i>Pavers to be laid in a Herringbone pattern due to its interlocking ability. All paving must comply with SANS 1058:2012 approved</i>   |
| A19       | Polyscreed/<br>Polyurethane/<br>Epoxy Flooring | Alternative flooring system if so required. Finish to have a Terrazzo smooth look and feel                          | Moon Rock "Charcoal" Grey "Light Grey" | <b>Technical Finishes, Flow Crete</b> | Small concourses, passages, office / admin areas, kitchens & ablutions          |    | <i>High performance trowel or self leveling application with minimum of 8mm depth flooring system. The flooring system must have a high chemical, impact, abrasion and thermal shock resistance to comply with the minimum of 55mPa compressive strength, 6.5mPa tensile strength and flexural strength of 40 mPa (BS6319) Impact resistance to comply with ISO6272-1:2011 Application to suppliers guidelines and specifications. Floor must have a non-slip finish</i> |
| <b>B</b>  | <b>Skirting</b>                                | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |  |                                       |   |   |  |
| B 01      | Power Skirting                                 | 2 Compartment powdercoated steel electric trunking 160mm high with power, tel & data outlets, to electrical layout  | Motorcraft grey                        |                                       | Admin & office areas, positions as indicated on electrical layout plans         |  |  |
| B 02      | Aluminium Skirting                             | 100x2mm high anodised aluminium skirting, glued or siliconed to walls.  | Natural Anodised aluminium             |                                       | All carpeted & vinyl floor areas  |   | <i>Applied to all walls without power skirting. Install before flooring finish is applied</i>  |

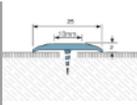
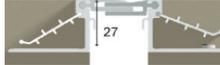
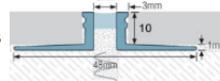
| ref. code | description                             | specification   | Colour                              | product code                                       | notes  | image  | extended specification  |
|-----------|---|---|-------------------------------------|--|--|--|---|
| B 03      | Porcelain Tile                          | 300mm high natural porcelain tile, bedded to wall with cement adhesive, complete with 'M-trim' or 'Genesis' 12mm silver anodised aluminium straight edge trim to suit tile thickness with grey grout. From Union Tiles, Tilespace or Tiletoria  | Light grey<br>Grout: "Dark Grey"    | UT= ADPMDO-6<br>TS= TS2040AD<br>TT=LG01<br>SMJDS   | Main floor tile areas with plaster finish above. all joints to match / align with floor tiles where possible |   | Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |
| B 04      | Porcelain Tile                          | 300mm high natural porcelain tile, bedded to wall with cement adhesive. From Union Tiles, Tilespace or Tiletoria  | Light grey<br>Grout: "Dark Grey"    | UT= ADPMDO-6<br>TS= TS2040AD<br>TT=LG01<br>SMJDS   | All back-of-house tiled areas, including kitchen & break rooms & security offices.                           |   | Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |
| B 05      | Glazed Matt Porcelain/ Ceramic tiles    | 300mm high x 600mm wide Glazed polished Porcelain/Ceramic tiles with 3mm grouting lines. Wall edge / corners to be finished with Stainless Steel Square Edge trim. Matt or polished finish. From Union Tiles, Tilespace, or Tiletoria. <b>Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F</b>   | Black - gloss<br>Grout: "Dark Grey" | UT =<br>ADPRBL6M<br>TS = TS2439AD<br>TT=10006IJ    | All Station Ablutions. All joints to match / align with floor tiles where possible                           |   | Matt glazed Porcelain/Ceramic tiles, fixed to internal wall plaster backing with TAL or equal tile adhesive (elsewhere specified) mixed with TAL or equal bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL or equal tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |
| B 06      | New Timber Skirting                     | 20 x 120mm solid meranti skirting, profile to detail image. Varnished with Plascon Woodcare Interior Coloured Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish. Eggshell finish.  | Clear Varnish                       | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | Where indicated on plan  |  | Sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. |
| *B 07     | Existing Timber Skirting -<br>*Heritage | Existing timber skirtings to be sanded down & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish as per heritage requirements. New skirting profiles to be installed where necessary, to match existing. Eggshell finish. | Clear Varnish                       | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | *Heritage sites only. New skirting profiles to match existing.   |  | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. <b>** All to be in compliance with heritage requirements.</b>   |

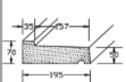
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| B 08      | Existing Timber Skirting - Varnished | Existing timber skirtings to be sanded down & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish. New skirting profiles to be installed where necessary, to match existing. Eggshell finish.   | Clear Varnish                         | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | * Heritage sites only. New skirting profiles to match existing.   |   | Lightly sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. |
| B 09      | Existing Timber Skirting - Painted   | Existing painted timber skirtings to be sanded down & painted with Plascon Professional Eggshell Enamel or Dulux Eggshell Enamyl alkyd paint. New skirtings to match existing to be installed where necessary.   | PRASA Deep Grey                       | See Prasa 2.1 and 2.1a. Colour spec Section P, P05 | all existing <u>painted</u> skirtings, to be lightly sanded down & painted  |   | Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Plascon Professional Wood Primer (PP 800) or Dulux Primer for Wood (Code: D33) with an overcoating time of 18 hours. Apply one coat Dulux Universal Undercoat (code: D34) with an overcoating time of 18 hours and finish with two coats Plascon Professional Eggshell Enamel (PSB 700) or Dulux Eggshell Enamel (code: D25) with an overcoating time of 18 hours.                   |
| <b>C</b>  | <b>Walls</b>                         | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>  |                                       |  |   |   |   |
| C 01      | Glazed Porcelain/ Ceramic tiles      | White 300 x 600mm & 600x600mm Glazed/ polished Porcelain/Ceramic tiles with 3mm grouting lines. Wall edge / corners to be finished with Stainless Steel Square Edge trim. Glossy finish. From Union Tiles, Tilespace, Tiletoria or CTM. <b>Refer to doc 3, drawing 650-I, 650-J, 650-K, 650-L.</b>                         | Grout colour: White                   |  | All <b>Halt, Small, Intermediate and Core</b> station <b>ablutions</b> only. Tiles to be applied horizontally, above skirting 300mm tile to underside of ceiling.   |   | Matt or polished Porcelain/ceramic tiles, fixed to internal wall plaster backing with TAL or equal approved tile adhesive (elsewhere specified) mixed with TAL or equal approved bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |
| C 02      | Glazed Matt Porcelain/ Ceramic tiles | 300 x 600mm & 600x600mm Glazed/ polished Porcelain/Ceramic tiles with 3mm grouting lines. Wall edge / corners to be finished with Stainless Steel Square Edge trim. Matt or polished finish. From Union Tiles, Tilespace, or Tiletoria. <b>Refer to doc 3, drawing 650-C, 650-D, 650-E, 650-F, 651-D, 653-A and 653-B.</b> | Ivory polished Grout colour: Mushroom | TS = TS2438AD UT = ADPRIP690 TT=1000IJ             | All <b>Flagship and Super Core</b> stations only: Main commuter flow & high traffic areas, 1,5m high to tiling pattern or full height. <b>Ablutions:</b> Tiles to be applied horizontally, above skirting 300mm tile to underside of ceiling. |  | Matt or polished Porcelain/ceramic tiles, fixed to internal wall plaster backing with TAL or equal approved tile adhesive (elsewhere specified) mixed with TAL or equal approved bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |

| ref. code | description                              | specification  | Colour                                    | product code                                    | notes   | image   | extended specification  |
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| C 03      | Glazed Matt Porcelain/ Ceramic tiles     | 600 x 600mm & 300 x 600mm Glazed/ Porcelain/Ceramic tiles with 3mm grouting lines. Complete with stainless steel square edge trim. Matt finish. From Union Tiles, Tilespace, or Tiletoria <b>Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F</b> | Black - gloss<br>Grout: "Dark Grey"       | UT =<br>ADPRBL6M<br>TS = TS2439AD<br>TT=10006IJ | Ablution walls feature strips   |    | Full Bodied Polished Porcelain tiles, fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.  |
| C 04      | Interior Cement Plaster & Concrete Walls | 12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) acrylic paint.  | All PRASA colours                         | See Prasa 2.1 and 2.1a.Colour spec Section P,   | All interior cement plaster & concrete surfaces to be painted               |    | Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content of BD 2 scale - 8% or less. Prime with one coat Plascon Professional Plaster Primer (PP 700) or Dulux Trade Alkali Resistant Primer (T1004) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) with 18 hours drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.           |
| C 05      | Exterior Cement Plaster & Concrete Walls | 12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Weatherguard Ultrasmooth adhesion promoted (D62) acrylic paint.  | All PRASA colours                         | See Prasa 2.1 and 2.1a. Colour spec Section P,  | All exterior cement plaster & concrete surfaces to be painted               |    | Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content of BD 2 scale - 8% or less. Prime with one coat Plascon Professional Plaster Primer (PP 700) or Dulux Trade Alkali Resistant Primer (T1004) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Weatherguard Ultrasmooth (D62) with 18 hours drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing. |
| C 06      | Concrete                                 | Off shutter concrete to be cured as per engineer's details.  |   |   |   |    | Exposed concrete feature walls to be steel shuttered and cured according to engineers details & specifications. Angles and horizontal casting joints to be as per PRASA Generic Details document. Shuttering holes to be left exposed (not plugged with cement)   |
| C 07      | Facebrick                                | Flush jointed facebrick<br>(coastal external walls to be cavity walls)<br><b>Refer to doc 3, drawing 603-A</b>   | Silvergry TravertineF BX                  | <b>Corobrik</b>                                 | Gauteng, Natal, Eastern Freestate, Mpumalanga, Limpopo & North-West Regions |   | Corobrik® (Midrand - Gauteng Province) 20-30MPa Silvergry Travertine or similar approved Imperial FBX clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class 1 mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.   |
| C 08      | Facebrick                                | Flush jointed facebrick<br><b>Refer to doc 3, drawing 603-A</b>  | Country Manor Trav /Letaba Travertine FBS | <b>Corobrik</b>                                 | Limpopo Region only   |  | Corobrik (Polokwane - Limpopo Province) 20 - 30 Mpa, Letaba Travertine / Country Manor Travertine FBS or similar approved Imperial FBS Clay face brick, size 222x106x73mm manufactured in accordance with SANS 227:2007, bedded and jointed in Class 1 mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.   |

| ref. code | description     | specification   | Colour   | product code                                       | notes  | image   | extended specification  |
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| C 09      | Facebrick       | Flush jointed facebrick<br><b>Refer to doc 3, drawing 603-A</b>   | Golden Wheat Travertine FBX                    | <b>Corobrik</b>                                    | Western, Eastern & Northern Cape Region.           |  | Corobrik® (Kwastina)) 20-30MPa Maize Travertine FBX or similar approved Imperial FBX clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.  |
| C 10      | Facebrick       | Flush jointed facebrick<br>(coastal external walls to be cavity walls)<br><b>Refer to drawing 603-A</b> | Maize Travertine FBX                           | <b>Corobrik</b>                                    | Western, Eastern & Northern Cape Region.           |  | Corobrik® (Kwastina)) 20-30MPa Maize Travertine FBX or similar approved Imperial FBX clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.  |
| C 11      | Facebrick       | Existing face brick structures  | Brick sealer                                   | See 2.1a Paint types under Walls                   | All face brick surfaces both Interior and Exterior |   | Face brick walls must not be painted to prevent additional maintenance costs in future. If wall needs to be painted it is recommended that walls are to be plastered and prepared for painting.   |
| C 12      | Drywall         | 90mm fixed partition drywall partitioning   | Painted with natural anodised aluminium frames |  | All interior drywall partitioning                  |   | Lafarge Gypsum or similar approved fixed partition drywall partitioning system with an overall thickness of 89mm comprising internal framing formed of 64mm galvanised steel studs fixed at 600mm centres to galvanised steel track or female aluminium head section and galvanised steel floor tracks including where necessary any additional galvanised steel studding to form door openings, glazing and other apertures, angles, corners and termination ends. Internal steel framing to be dressed on both sides with 12mm thick tapered edge Lafarge or similar approved plasterboard in single lengths to suite height, butt jointed and secured to steel studding with 25mm drywall screws at 220mm centres, joints to be tapped and jointed with Lafarge or similar approved Jointing Compound and prepared for decoration. All exposed aluminium door frames, glazing frames, ceiling and wall channels, battens and skirting are to be formed of natural anodised aluminium sections. Installation to be in accordance with SABISA installation guidelines.   |
| C 13      | Palisade Fences | Existing Steel Palisade Fences  | PRASA Dark Grey Blue                           | See Prasa 2.1 and 2.1a. Colour spec Section P, P02 |  |   | Plascon Synlac 5000 or similar approved Enamel to existing coated exterior mild steel. Remove all paint and rust completely. Apply Plascon or similar approved Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) or similar approved copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1), Professional Undercoat (PU 800) or similar approved to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) or similar approved to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Synlac 5000 Enamel (SL 5000) or similar approved with 2 hours drying time between coats, for a maintenance cycle of 2 years in a C3 - industrial environment. |

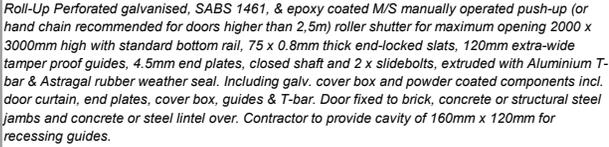
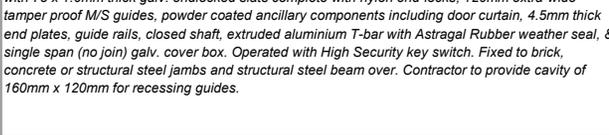
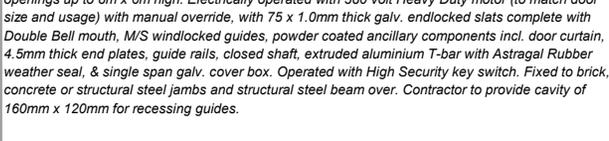
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| <b>D</b>  |                                    | <b>Dados, Picture Rails, Trims &amp; Corner Protectors</b>   |                       | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |  |   |   |
| *D 01     | Existing Timber - heritage         | Existing Timber dados & picture rails to be lightly sanded & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish as per heritage requirements. Eggshell finish. | Clear Varnish         | See Prasa 2.1 and 2.1a. Colour spec Section S, S01  | * heritage sites only. New dados & picture frame rail profiles to match existing.      |   | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WVP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.<br>** All to be in compliance with heritage requirements.   |
| D 02      | Existing Timber Skirting - Painted | Existing painted timber dados & picture rails to be sanded down & painted with Plascon Professional Eggshell Enamel or Dulux Eggshell Enamyl alkyd paint. New skirtings to match existing to be installed where necessary.                 | PRASA Deep Grey       | See Prasa 2.1 and 2.1a. Colour spec Section P, P05  | all existing <u>painted</u> dados & picture rails, to be lightly sanded down & painted |   | Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Plascon Professional Wood Primer (PP 800) or Dulux Primer for Wood (Code: D33) with an overcoating time of 18 hours. Apply one coat Dulux Universal Undercoat (code: D34) with an overcoating time of 18 hours and finish with two coats Plascon Professional Eggshell Enamel (PSB 700) or Dulux Eggshell Enamel (code: D25) with an overcoating time of 18 hours. |
| D 03      | SS tile-in corner protector        | Stainless Steel square edge trim for all tiled corners in main commuter or high traffic areas. Selected super core, core & intermediate stations.  | Stainless Steel       | EQS 100.84<br>SQE100.B  |     |    | Genesis or equal approved interior stainless steel square edge trim in Stainless Steel finish (code: EQS100.84), size 28 x 10mm, or M-Trim 8 x 10mm high brushed stainless steel square edge trim (Code : SQE100.B), on tile corners, bedded in tile adhesive while tiles are laid.   |
| D 04      | SS tile-in straight edge trim      | Stainless Steel square edge trim for all tiled corners in main commuter or high traffic areas. Selected super core, core & intermediate stations.  | Stainless Steel       | ESS 100.84<br>SSE100.B  |    |   | Genesis or equal approved interior stainless steel straight edge trim in Stainless Steel finish (code: ESS100.84), size 28 x 10mm, or M-Trim 10mm high brushed stainless steel straight edge trim (Code: SSE100.B), on tile edges, securely bedded in adhesive while tiles are laid.  |
| D 05      | Alu tile-in corner protector       | Aluminium square edge trim for all tiled corners in main commuter or high traffic & back office areas. Selected halt & small stations.   | Mill finish aluminium | TDF 104.81  |   |  | Genesis or equal approved interior aluminium square trim in Mill Aluminium finish (code: TDG104.81), size 27 x 10 x 10mm on porcelain tile corners, securely bedded in adhesive, including all necessary external corner pieces (code: ECG100).   |
| D 06      | Alu tile-in straight edge trim     | Aluminium straight edge trim for all tiled edges, including stair side edges in main commuter or high traffic & back office areas. Selected halt & small stations.   | Mill finish aluminium | ESA 100.80  |   |  | Genesis or equal approved interior aluminium straight edge trim in Mill Aluminium finish (code: ESA100.80), size 21 x 10mm on porcelain tile edges, securely bedded in adhesive.  |

| ref. code | description               | specification   | Colour      | product code                      | notes  | image   | extended specification   |
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| D 07      | Alu threshold strip       | Aluminium carpet threshold strips   | Matt Silver | TCA 109.81<br>ATC300.MF           | thresholds requiring cover strips for all new carpeted areas     |  | Genesis or equal approved interior aluminium tile to carpet top in Matt Silver finish (code: TCA109.81), size 25 x 2mm x 0,92m long, or M-Trim 30mm wide mill finish aluminium transition cover (Code : ATC300.MF), plugged and countersunk screwed to substrate with screws.  |
| D 08      | Alu transition strip      | Aluminium transition strips   | Matt Silver | TAG 106.81<br>ATC300.MF ATB100(T) | transitions between different floor finishes                     |  | Genesis or equal approved interior aluminium straight transition in Matt Silver finish (code: TAG106.81), size 17 x 10mm x 2,5m long, M-Trim 30mm wide mill finish aluminium transition cover (Code : ATC300.MF) with tile base (Code: ATB100 (T)), on tile & carpet floor covering, fixed to substrate with tile adhesive. Carpet tile surface bed to be higher in order for finished floor level to be flush with top of tiled surfaces. |
| D 09      | Structural Movement Joint | Heavy duty movement joints<br> | Dark Grey   | GFAM                              | As per engineer's recommendations, main commuter concourse areas |  | Genesis or equal approved interior aluminium heavy duty lateral structural joint colour Dark Grey (code: GFAM5027.35), size 27mm, 47mm or 67mm x 3m long on tiled floor, fixed to substrate with self-adhesive backing.  |
| D 10      | Structural Movement Joint | Medium duty movement joints   | Dark Grey   | GFSR ASSJ390                      | As per engineer's recommendations                                |  | Genesis or equal approved interior aluminium medium duty 50mm structural joint colour Dark Grey (code: GFSR5040.35), size 50 x 40mm x 3m long, or M-Trim 38 x 39mm high aluminium structural screed joint with standard Dark Grey flexible PVC infill (Code : ASSJ390), anchored to substrate with 8 x 50mm fixing pins.   |
| D 11      | Tile Movement Joint       | Tile movement joints<br>       | Dark Grey   | MMA100.35<br>AMJ100.09            | As per engineer's recommendations                                |  | Genesis or equal approved interior aluminium standard intermediate joint colour Dark Grey (code: MMA100.35), size 48 x 10mm x 2,5m long, or M-Trim 10mm high aluminium movement joint fitted with 6mm wide Dark Grey polyurethane infill (Code: AMJ100.09), fixed to floors with an approved adhesive on tiled floor, with 2-3mm grouting gap. Spaced every 3m & to match surface bed movement joints.                                     |
| D 12      | Internal Stair Nosing     | Aluminium tile-in internal stair nosing   | Matt Silver | NLT108.81                         | Back office stairs only  |  | Genesis or equal approved interior aluminium Tile-In step edge in Matt Silver finish (code: NLT108.81), size 19 x 10mm x 2,8m long, or M-Trim 25 x 10mm high mill finish aluminium tile-in stair nosing (Code: ATIN100.MF) bedded in tile adhesive, plugged and screwed to tread while tiles are laid.   |

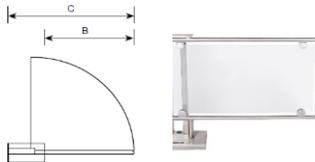
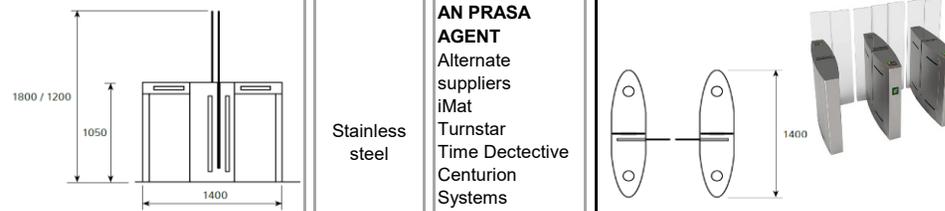
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| <b>E</b>  | <b>Window sills</b>                        | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>  |                 |  |  |   |   |
| *E 01     | Existing Internal Timber sills - Varnished | Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements   | Clear Varnish   | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | All existing varnished timber & heritage sites                             |   | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. <b>** All to be in compliance with heritage requirements.</b>   |
| *E 02     | Existing External Timber sills             | Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements   | Clear Varnish   | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | All existing varnished timber & heritage sites                             |   | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Plascon Woodcare Sunproof (PNW) or 50% thinned Dulux Double Life Timbavarnish with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof (PNW) or Dulux Woodgard Exterior Double Life Timbavarnish with 24 hours drying time between coats. <b>** All to be in compliance with heritage requirements.</b>       |
| *E 03     | Existing Slate sills                       | Existing slate sills to sanded down and varnished with two coats of quality varnish as per heritage requirements.  | Clear           |  |  |   | to manufacturer's recommendation  |
| *E 04     | Existing Timber sills - Painted            | Existing painted timber window sills to be sanded down & painted with Plascon Professional Eggshell Enamel or Dulux Eggshell Enamyl alkyd paint. New skirtings to match existing to be installed where necessary as per heritage requirements. | PRASA Deep Grey | See Prasa 2.1 and 2.1a. Colour spec Section P, P05 | all existing <u>painted</u> skirtings, to be lightly sanded down & painted |   | Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Plascon Professional Wood Primer (PP 800) or Dulux Primer for Wood (Code: D33) with an overcoating time of 18 hours. Apply one coat Dulux Universal Undercoat (code: D34) with an overcoating time of 18 hours and finish with two coats Plascon Professional Eggshell Enamel (PSB 700) or Dulux Eggshell Enamel (code: D25) with an overcoating time of 18 hours. <b>** All to be in compliance with heritage requirements.</b> |
| E 05      | Internal window sill                       | New Internal window sills to be 12mm Cement Plaster Window sill: Colour to match wall  |                 |  | All new internal window sills  |   | As per plaster cement painted wall spec   |
| E 06      | New external window sill                   | New external window sills to be precast concrete,  |                 |  | All new external window sills  |  | Modcon Concrete Solutions or similar approved precast concrete window sill (Type: 014), overall size 195 x 70mm high, bedded and jointed in Class II mortar and pointed on all exposed faces.   |
| E 07      | Blinds                                     | New horizontal aluminum venetian blinds with 25mm slats to all windows.  | Silver          | Windovert: "Silverstar 211"                        | All windows, to be fitted inside reveal to lintel.                         |  | Windovert or similar approved aluminium venetian blind, size to fit window with 25 x 0,21mm thick slats including 25 x 25mm high matching aluminium powder coated top and bottom tracks with stainless steel separator pins, cordlock and roller pins, blinds to be fitted inside reveal to lintel.   |

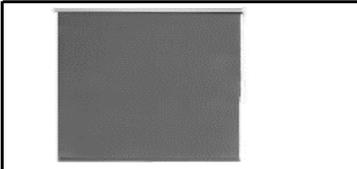
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|-----------|---|--|----------------------------|--|--|-------|---|
| <b>F</b>  | <b>Doors, turnstiles and speed gates</b>  | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>  |                            |  |  |       |   |
| F 01      | Existing External Steel Door Frame Finish | Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.             | White                      | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | All existing mild steel door frames            |       | Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black.<br>Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel (PSB 1000) with 16 hours drying time between coats. |
| F 02      | Existing Internal Steel Door Frame Finish | Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.             | PRASA Deep Grey            | See Prasa 2.1 and 2.1a. Colour spec Section P, P05 | All existing mild steel door frames            |       | Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black.<br>Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel (PSB 1000) with 16 hours drying time between coats. |
| F 03      | New Steel Door External Frame Finish      | New shop primed mild steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint. | White                      | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | All new mild steel door frames                 |       | Surface to be clean dry and rust free. Prime with one coat Plascon Metalcare Mild Steel Primer (UC 501) or Dulux Corrocote 1 (T1020) with an overcoating time of 16 hours and finish with two coats Plascon Professional Gloss Enamel (PSB 1000) or with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.   |
| F 04      | Alu Door Frame Finish                     | All new aluminium door frames to be natural anodised aluminium.  | Natural Anodised Aluminium |  |  |       |   |
| *F 05     | Internal Timber Door Frame                | Existing internal timber door frames to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements                     | Clear Varnish              | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 | All existing varnished timber & heritage sites |       | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.<br>** All to be in compliance with heritage requirements.   |

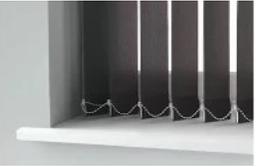
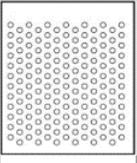
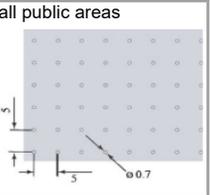
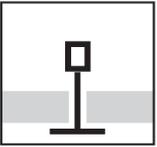
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| *F 06     | <b>OMITTED</b>                    |   |  |  |  |   |   |
| F 07      | Internal Painted Door Leaf Finish | Paint all internal door leaves to be painted with Plascon or Dulux Trade Pearlgló Emulsion paint.         | PRASA Brown  | See Prasa 2.1 and 2.1a. Colour spec Section P, P08                   | All internal door leaves                         |   | Surface to be clean, dry and dust free. Prime surface with one coat Dulux Supergrip (Code: D35) with an overcoating time of 12 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Pearlgló (Code: T3003) with an overcoating time of 18 hours.   |
| F 08      | External Painted Door Leaf Finish | Paint all external door leaves to be painted with Plascon Professional or Dulux Trade Gloss Enamel paint. | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P10                   | All external door leaves                         |   | Sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Plascon Professional Wood Primer (PP 800) or Dulux Primer for Wood (Code: D33) with an overcoating time of 18 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Plascon Professional Gloss Enamel (PSB 1000) or Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.   |
| F 09      | External Anti-Bandit Door         | Level G3 bullet resistant anti-bandit external door   | Doors can be galvanised cladded and or be powder coated. See Prasa 2.1, Colour Spec Q01 for external doors | Austen Safes Mutual Safes National Safe Strong Hold Bitcon SA Bullit | All external access to Customer Services Centres |    | Level G3 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS anige rebates, overall size 930 x 2100mm high in powder coating and or galvanised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996  |
| F 10      | Internal Anti-Bandit Door         | Level G2 bullet resistant anti-badit external door  | PRASA Brown See Prasa 2.1 and 2.1a. Colour spec Section P, P10   | Austen Safes Mutual Safes National Safe Strong Hold Bitcon SA Bullit | All internal access to Customer Services Centres |   | G2 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS anige rebates, overall size 930 x 2100mm high in paint finish with 250 X 500mm high BRG viewing panel glazed in 38mm thick bullet resistant glass with one-way vision film, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996 |
| F 11      | Strong Room Doors                 | Heavy Weight Category 2 Standard Strong Room Door   | "Matt Dark Umber Grey" See Prasa 2.1, Colour Spec Q01 for external door                                    | Austen Safes Mutual Safes National Safe Strong Hold Bitcon SA Bullit | All strong rooms                                 |  | SABS Category 2 (Heavy Duty) 1 hour fire rated powdercoated steel strong room door and frame, constructed of 12mm steel plate, mass 368kg, with 2 x 7-lever security keylock and 1 x combination lock, inner release mechanism and floor mounted door stop, all to fit wall opening of 1970 x 870 x 230mm.  |

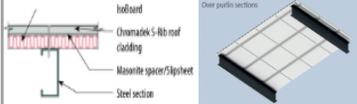
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| F12       | Roller Shutters        | Manual Push-up Roller Shutters, for openings not exceeding 2,0m x 3,0m high.<br><b>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</b><br>  | Powder Coated "Matt Dark Umber Grey" ANP 3057 | Maxidor Xpanda Serranda  | <b>NOTE:</b><br>• This is a generic spec, id site specific requirements<br>• Motorised doors up to 25m <sup>2</sup> generally require single phase (220V) with a HL600 motor.<br>• Motorised doors 25m <sup>2</sup> - 35m <sup>2</sup> generally require 3 phase (380V) with a HL800 motor.<br>• Motorised doors > 35m <sup>2</sup> require 3 phase (380V) with Heavy Duty motor.<br>• Higher spec motors may be required due to extraordinary circumstances, such as high frequency door usage<br>• No slidebolts for motorized doors – can cause motor to burn out if not disengaged<br>• Closed shafts specified due to low maintenance requirements<br>• For 8x6m doors: recommend to specify 1m of solid slats at top and bottom to lend rigidity to the see-thru profile<br>• All operational area roller shutters to be motorised |    | Roll-Up Perforated galvanised, SABS 1461, & epoxy coated M/S manually operated push-up (or hand chain recommended for doors higher than 2,5m) roller shutter for maximum opening 2000 x 3000mm high with standard bottom rail, 75 x 0.8mm thick end-locked slats, 120mm extra-wide tamper proof guides, 4.5mm end plates, closed shaft and 2 x slidebolts, extruded with Aluminium T-bar & Astragal rubber weather seal. Including galv. cover box and powder coated components incl. door curtain, end plates, cover box, guides & T-bar. Door fixed to brick, concrete or structural steel jambs and concrete or steel lintel over. Contractor to provide cavity of 160mm x 120mm for recessing guides.   |
| F13       | Roller Shutters        | Motorised Roller Shutters, for openings 6m <sup>2</sup> - 25m <sup>2</sup> .<br><b>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</b><br>   | Powder Coated "Matt Dark Umber Grey" ANP 3057 | Maxidor Xpanda Serranda  |  |    | Roll-Up perforated galvanised, SABS 1461, & epoxy coated M/S perforated roller shutter for openings up to 3m x 4m high. Electrically operated with 220 volt HL600 motor with manual override, with 75 x 1.0mm thick galv. endlocked slats complete with nylon end-locks, 120mm extra-wide tamper proof M/S guides, powder coated ancillary components including door curtain, 4.5mm thick end plates, guide rails, closed shaft, extruded aluminium T-bar with Astragal Rubber weather seal, & single span (no join) galv. cover box. Operated with High Security key switch. Fixed to brick, concrete or structural steel jambs and structural steel beam over. Contractor to provide cavity of 160mm x 120mm for recessing guides.  |
| F14       | Roller Shutters        | Motorised Roller Shutters, for openings larger than 25m <sup>2</sup> .<br><b>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</b><br>   | Powder Coated "Matt Dark Umber Grey" ANP 3057 | Maxidor Xpanda Serranda  |  |    | Roll-Up perforated galvanised, SABS 1461, & epoxy coated M/S perforated roller shutter for openings up to 8m x 6m high. Electrically operated with 380 volt Heavy Duty motor (to match door size and usage) with manual override, with 75 x 1.0mm thick galv. endlocked slats complete with Double Bell mouth, M/S windlocked guides, powder coated ancillary components incl. door curtain, 4.5mm thick end plates, guide rails, closed shaft, extruded aluminium T-bar with Astragal Rubber weather seal, & single span galv. cover box. Operated with High Security key switch. Fixed to brick, concrete or structural steel jambs and structural steel beam over. Contractor to provide cavity of 160mm x 120mm for recessing guides.   |
| F 15      | Full Height Turnstiles | Electrical Industrial type full height turnstile with a gate for disabled people and as an emergency exit. Quantity as per requirement for specific stations  | Stainless steel                               | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At Stations, Depot's and other sites where required  |   | Full height exterior turnstile with high volume access and high level of security. The turnstile must be a 3 arm 120degree single unit. The Rotor diameter to be 1200mm and arm thickness of 50mm diameter tube arms spaced 120mm apart. The system must be able to integrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and Mechanically controlled uni-directional rotation by means of key override and free rotation in the case of an emergency. The flat roof canopy to provide protection from the elements, Anti-climb protection and low energy light on underside of canopy. Finishes: 304 grade brushed stainless steel (Inland) and 316 grade brushed stainless steel (coastal). The turnstile must be with a bi-directional rotation System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 10 year mechanical guarantee. The turnstile must be fitted with a gate for disabled persons. |

| ref. code | description                  | specification   | Colour          | product code   | notes                                  | image | extended specification   |
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| F 16      | Waist Height Turnstiles      | Electrical Industrial type waist height turnstile ( <i>Option 1</i> ) | Stainless steel | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At stations and offices where required |       | <p>Waist height interior turnstile with high volume access and medium level of security. The turnstile to have 3 arms wit a diameter of 38mm stainless steel fixed tube arms. The system must be able to intergrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and mechanically controlled uni-directional rotation by means of key override and free rotation in case of emergencies. Finish: 304 grade brushed stainless steel. The turnstile must be with a bi-directional rotation System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 10 year mechanical guarantee.</p>  |
| F 17      | Waist Height Turnstiles      | Electrical Industrial type waist height turnstile ( <i>Option 2</i> ) | Stainless steel | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At stations and offices where required |       | <p>Waist height interior turnstile with high volume access and medium level of security. The turnstile to have 3 arms with a diameter of 38mm stainless steel fixed tube arms. The system must be able to intergrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and mechanically controlled uni-directional rotation by means of key override and free rotation in case of emergencies. Finish: 304 grade brushed stainless steel. The turnstile must be with a bi-directional rotation System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 10 year mechanical guarantee.</p> |
| F 18      | Waist Height Droparm Barrier | Electrical Industrial type waist height Droparm ( <i>Option 3</i> )   | Stainless steel | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At stations and offices where required |       | <p>Waist height interior Droparm with medium volume access and medium level of security. The turnstile to have a arm with a diameter of 38mm stainless steel with a polycarbonate skirt fixed underneath the tube arm. The system must be able to intergrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Finish: 304 grade brushed stainless steel. System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 5 year mechanical guarantee.</p>  |

| ref. code | description        | specification   | Colour          | product code   | notes                                  | image  | extended specification  |
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| F 19      | Special needs gate | Semi Automatic Special needs gate                             | Stainless steel | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At stations and offices where required |   | <i>Waist height interior Special needs gate with low volume access and low level of security. The gate must be framed arm with a 90 degree opening. The frame to be 38mm stainless steel tube frame with glass clamps and 6mm toughened glass infill. The system must be able to intergrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. The gate must close automatically and relock. Finish: 304 grade brushed stainless steel. System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 5 year mechanical guarantee.</i>  |
| F 20      | Speed gates        | Speed gate  | Stainless steel | <b>AS ADVISED BY AN PRASA AGENT</b><br>Alternate suppliers<br>iMat<br>Turnstar<br>Time Dectective<br>Centurion<br>Systems<br>Flow Systems<br>Gate and Door | At stations where required             |    | <i>Interior Speed gates with high speed access and high levels of security. 1 800mm high and 1 200mm high glass options. Glass wings to min 10mm toughened glass moving panels. Gates to have a Narrow lane (550mm) and wide lane (900mm) - suitable for special needs access such as wheelchairs - options with multiple lane configurations. LED lane status and direction indicator lights The system must be able to intergrate with all access control systems, proximity reader and ticket verification. Safety - a series of detectors to beused to prevent closing when a person or object is in the closing envelope. Unit to have 1 second open /close capability to prevent tail gating. Finish: 304 grade brushed stainless steel. System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 5 year mechanical guarantee.</i> |
| F21       | Security Gates     | Heavy duty mild steel gates, positioned at all external doors | White           | See Prasa 2.1 and 2.1a. Colour spec Section P, P10   |  |  | Refer to PRASA Protection Services for additional information on the gates  |

| ref. code | description                        | specification   | Colour                               | product code   | notes   | image   | extended specification   |
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| <b>G</b>  | <b>Windows</b>                     | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>   |                                      |  |   |   |  |
| G 01      | Aluminium Window Frame Finish      | All new aluminium windows to be natural anodised aluminium  | natural anodised aluminium           |  |   |   |  |
| *G 02     | Existing External Timber frames    | Existing Timber window frames where the timber is visible to be sanded down & varnished or repainted with two coats of quality varnish. Where the timber frames are painted, frames to be repainted with two coats Gloss Enamel paint | Clear Varnish or Gloss Enamel, White | See Prasa 2.1 and 2.1a. Colour spec Section S, S01 for Varnish and P10 for paint | All existing varnished or painted timber & heritage sites |   | Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of woodcare Pre-treatment, overcoated within 48 hours. Prime with one coat varnish with an overcoating time of 24 hours and finish with two coats varnish with 24 hours drying time between coats. Varnish to applied as per manufactures specification.<br>Ensure surfaces are clean, dry and sound after sanding. Apply a Universal Undercoat to bare and repaired areas. Allow to dry. Finish with two coats of Gloss Enamel. Drying time for both the Universal under coat and Gloss Enamel to manufactures specification.<br>** All to be in compliance with heritage requirements.  |
| G 03      | Existing Steel Window Frame Finish | Existing steel window frames to be sanded down, treated, under coated and painted with Gloss Enamel paint   | White                                | See Prasa 2.1 and 2.1a. Colour spec Section P, P10                               | All existing mild steel door frames                       |   | Remove all paint and rust completely. Apply Rust Remover to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Rust Converter copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black.<br>Ensure surfaces are clean, dry and sound. Apply a Universal Undercoat to bare and repaired areas. Allow to dry. Finish with two coats of Gloss Enamel. Drying time for both the Universal under coat and Gloss Enamel to manufactures specification. |
| G 04      | Powder Coating Colour              | General powder coating colour   | Matt Dark Umber Grey                 | ANP 3057   |   |   |  |
| G 05      | Sales Windows                      | Bullet Resistant Pay / Transaction Windows including sales windows with G3 rating   |                                      | Austen Safes Mutual Safes National Safe Strong Hold Bitcon                       |   |   | Level G3 bullet resistant glazed & natural anodised aluminium transaction window with 30mm deep stainless steel dish tray and speech transfer posts (interior applications only), overall size to details, glazed in 38mm thick clear glass for small window (existing counters) and 52mm for large window with 32mm post formed granite counter top. Bullet resistant glass details to suppliers specification  |
| G 06      | Sales Windows                      | Roller Blind installed into the Ticket Sales window, lowered down indicates Ticket counter not in use currently   | Dark Grey                            | Windowvert Aluglass Bautech Blind Designs Leroy Merlin Crawfords Ecolux          |   |  | All blinds to be UV Resistant and with full Block - Out capability. Blinds to have a 2 year warranty   |

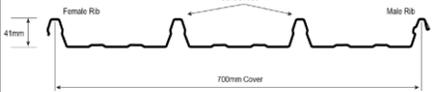
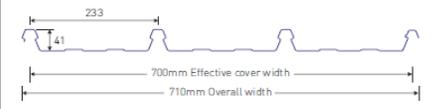
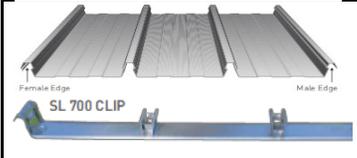
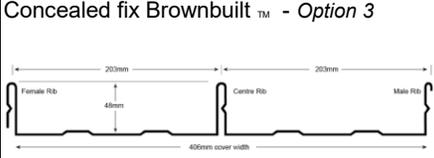
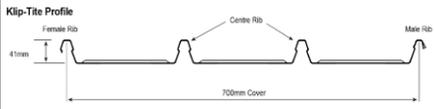
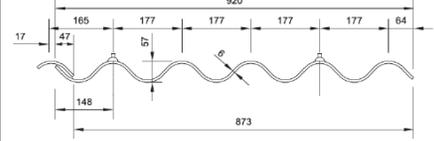
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| G07       | Burglar bars and window protection boxes                | Heavy duty mild steel burglar bars, positioned at all external doors  | White / Galvanised steel | See Prasa 2.1 and 2.1a. Colour spec Section P, P10 |   |   | Galvanised steel to be cleaned. Galvanizing may be cleaned using a water-based emulsifier, alkaline-based cleaners with a pH of 12 or lower or organic solvents. Then rinse the area with fresh water and simply wipe clean with a soft cloth. Refer to manufacturers specification  |
| G08       | Vertical blinds   | Heavy duty vertical blinds for windows where required   | Grey                     |  |   |   | All blinds to be UV Resistant and with full Block - Out capability. Blinds to have a 2 year warranty   |
| <b>H</b>  | <b>Ceilings</b>   | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>   |                          |  |   |  |  |
| H 01      | Ceiling Tiles - Aluminum. <b>FLAGSHIP STATIONS ONLY</b> | 600 x 600mm perforated lay-in powder coated aluminium ceiling tiles with acoustic backing laid on prepainted tees and adjustable hanger system. Hunter Douglas or EQUAL APPROVED    | White                    | Micro perforation                                  | all public areas - Flagship stations only |   | Hunter Douglas Luxalon® or equal approved Lay-In system comprising 600 x 600 x 0,6mm thick aluminium acoustic tiles finish colour RAL 9010 with 8mm reveals and 1,5mm diameter perforations including sound absorbing non woven tissue backing, laid on T15 suspension system including main tees at 1200mm centres, cross tees, etc. all suspended with galvanised hangers at not exceeding 1200mm centres. Ceiling perimeter finished with W-profile. The whole to be designed and installed by approved specialist, all in accordance with the manufacturer's recommendations.                              |
| H 02      | Ceiling Tiles - Metal. <b>FLAGSHIP STATIONS ONLY</b>    | 600 x 600 x 0,5mm perforated lay-in powder coated metal tiles with acoustic backing laid on prepainted tees and adjustable hanger system. OWA Aetcta perforations or EQUAL APPROVED | White                    | Micro perforation                                  | all public areas                          | <br>   | OWAetcta(R) Tegular Lay-in metal ceiling tiles with perforation type Rg0701, size 600 x 600 x 0,5mm thick including black Soundtex(R) acoustic fleece infill material bonded to tiles with four shallow tegular edges and OWA white powder coated finish laid on OWAconstruct, Cliq System S33 exposed demountable T24 tee suspension system including galvanised main tees and cross tees, all suspended with galvanised hangers at centres not exceeding 1200mm and all installed to manufacturer's specification. Ceiling perimeter to be finished with prepainted OWAconstruct Shadowline W-trim.          |
| H 03      | Ceiling Tiles - Acoustic                                | 1200 x 600 x 15mm thick acoustic ceiling tiles laid on prepainted tees and adjustable hanger system. OWA Constellation or EQUALLY APPROVED  | White                    | EQUALLY APPROVED                                   | all office areas                          | <br> | OWAcoustic(R) Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70 & CAC 33db, fire rating REI 180 (EN13501 - 2) size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on fire rated OWAconstruct(R) system S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Shadowline W-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions. |

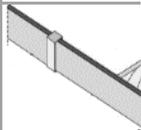
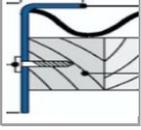
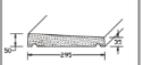
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| H 04      | Ceiling Tiles<br>- Vinyl coated   | 1200 x 600 x 12,5mm vinyl faced ceiling panels laid on tees and adjustable hanger system. Owa coustic   | White  | Future 60  | all bathroom, kitchen& retail areas                      |    | 12.5mm Vinyl Faced Gypsum Ceiling Panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated Cliq system S3 exposed demountable suspension system including galvanised main tees, cross tees, etc., all suspended with galvanised hangers at centres not exceeding 1200mm, with ceiling perimeter finished with Shadowline W-trim plugged at 200mm centres, and all installed to manufacturer's instructions.                                |
| H 05      | Skimmed Ceiling - Internal        | Flush plaster gypsum or Magna Board ceiling fixed to concealed suspended tee system skimmed and prepared to receive 2 coats quality PVA paint             | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | All ceiling voids to receive 600 x 600mm access panel    |   |   |
| H 06      | Painted concrete soffit           | Concrete soffits to be painted, rippel paint texture  | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | All exposed concrete soffits. Rippel paint application   |   | Remove any mould release agent using clean water. Surface to be dry, sound and clean and cured for a minimum of 28 days, with a moisture content of 5% or less. Prime with one coat Plascon Professional Plaster Primer (PP 700) or Dulux TRade Plaster Primer (T1011) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Pearlglø Water Clean-Up (D40) with 4 hours drying time between coats. |
| H 07      | Plaster & painted concrete soffit | 15mm smooth plaster to underside of soffit & painted.   | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | Smooth finish  |   |   |
| H 08      | Ceiling - External                | Flush plaster fiber cement or Magna board ceiling fixed to concealed suspended tee system prepared to receive 2 coats external prepared quality PVA paint | White  | See Prasa 2.1 Colour spec Section P, P11           | All eaves to be closed with fiber cement or Magna Boards |   |   |
| H 09      | Insulation Boards                 | Isoboard / Lambdaboard or similar approved extruded polystyrene over-purlin ceiling boards  | White  | Isoboard<br>Lambdaboard                            | Exposed roof sheeting, platform or stair shelters        |  | Roof insulation to be a laminated polyisocyanurate core board with a core density of 32-36kg/m³ with a minimum thickness of 30mm thick x 600mm wide with tongue & groove joints fixed concurrent with roof covering over steel purlins. Fire properties: SANS 428-B/B1/2/H&V  |

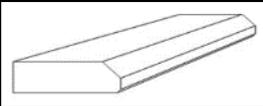
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| H 10      | Bulkhead - internal                 | Flush plastered gypsum or Magna Board bulkhead, painted   | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | internal bulkheads                        |  |                        |
| H 11      | Bulkhead - external                 | Flush plastered fiber cement or Magna Board bulkhead, painted for external use                                      | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | External covered bulkheads                |   |                        |
| H 12      | Exposed off-shutter concrete soffit | Exposed off-shutter concrete surface to be cured min 28 days  | White  | See Prasa 2.1 and 2.1a. Colour spec Section P, P11 | All light fittings to be recessed cast-in |   |                        |
| <b>I</b>  | <b>Cornice</b>                      | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |        |  |   |   |                        |
| I 01      | Cornice                             | Standard Donn plaster trim shadow line cornice between and perimeter walls.   |        |  |   |   |                        |
| I 02      | New Coved Corince                   | New cornice to be prepared and painted with two coats of quality PVA to match existing.                             |        |  |   |   |                        |
| I 03      | Existing Coved Corince              | Existing coved cornices to be sanded down and repainted .   |        |  |   |   |                        |
| I 04      | New Scotia                          | New scocia to be preped and painted with two coats of quality PVA to match existing.                                |        |  |   |   |                        |

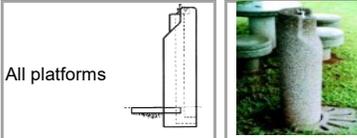
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| I 05      | Existing Scotia                                     | Existing scotia to be sanded down and repainted.  |   |   |  |   |   |
| <b>J</b>  | <b>Steel and other metal items</b>                  |   | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |   |  |   |   |
| J 01      | New Balustrades & handrails                         | 50mm dia AISI Type 304 stainless steel and shall be buffed to an even satin finish. Stainless steel screws shall be used for fixing stainless steel, to comply with SANS regulations. |   |   | supercore, core & intermediate stations only |  |   |
| J 02      | New Balustrades & handrails                         | 50mm dia galvanised handrail, to comply with SANS regulations.  |   |   | halt, small & intermediate stations          |  |   |
| J 03      | Stainless steel<br><i>(Coastal conditions)</i>      | 50mm AISI Type 316 stainless steel and shall be buffed to an even satin finish. Stainless steel screws shall be used for fixing stainless steel                                       |   |   | Coastal Regions Only                         |  |   |
| J 04      | Existing exposed Columns & Beams                    | One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied  | PRASA Dark Grey Blue to 1800mm high and prasa Light Grey above  | See Prasa 2.1 and 2.1a.Colour spec Section P, P02 and P03 | All exposed steel                            |   | Surface to be clean and dry. Remove surface contaminants using Plascon Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Plascon Professional High Build Zinc Phosphate Primer (UC 170) with an overcoating time of 18 hours and finish with two coats Plascon Professional Brilliant White Gloss Enamel (PSB 1000) with 16 hours drying time between coats or |
| J 05      | Existing Balustrades<br><i>(not being replaced)</i> | One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.   | PRASA Dark Grey Blue  | See Prasa 2.1 and 2.1a.Colour spec Section P, P02         | All existing mild steel balustrades          |   | Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corroccote 1 (Code: T1020) with an overcoating time of 4 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.   |

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| J 06      | Existing Handrails<br><i>(not being replaced)</i> | One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.                     | PRASA Blue           | See Prasa 2.1 and 2.1a. Colour spec Section P, P01 and P05 | All existing mild steel handrails  |  |   |
| J 07      | Existing steel balustrades & walkways and bridges | One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.                     | PRASA Dark Grey Blue | See Prasa 2.1 and 2.1a. Colour spec Section P, P02         | All existing mild steel structures |  |   |
| J 08      | Bulk Cash Transfer Chute                          | Mechanically Interlocked Twin Door Bulk Cash Transfer Unit  | Matt Dark Umber Grey | STHC   | At indicated CIT pick-up points    |  | <i>Barrier Angelucci or similar approved powder-coated twin door mechanically interlocked bulk cash transfer unit, Powder Coated, colour: Matt Dark Umber Grey (Code: ANP 3057) with two interlocked doors, electrical security key, and integral roller tray, overall size 415 x 445 x 500mm, installed in accordance with the manufacturer's recommendations. For Catbox size 170 x 237 x 473mm.</i>  |
| <b>K</b>  | <b>Roof</b>                                       | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |                      |  |                                    |   |   |
| K 01      | Existing Roof Sheeting                            | Paint existing roof sheeting with Plascon Nuroof or Dulux Roofguard acrylic roof coating.                           | PRASA Roof Grey      | See Prasa 2.1 and 2.1a. Colour spec Section P, P10         | Existing roof sheeting             |   | <i>Clean entire surface with Polycell Sugar Soap using bristle brooms or brushes or Scotch Brite pads to remove all surface contaminants, rinse with tap water and allow to dry. Remove loose and flaky paint and sand surface to a firm edge, feather edges and dust off. Emery paper any rust areas to bright metal and remove dust. Spot prime bare areas with Plascon Coatscote Primer Red Oxide (SNK 2) and allow 1 hour to dry. Finish with two coats of Nuroof Acrylic Roof Paint (TRP) or Dulux Roofguard (Code: D8) with an overcoating time of 4 hours.</i> |
| K 02      | Existing Concrete Roof Tiles                      | Paint existing concrete roof tiles with Plascon Professional Roof Paint Dulux Roofguard pure acrylic roof coating.  | PRASA Roof Grey      | See Prasa 2.1 and 2.1a. Colour spec Section P, P10         | Existing roof sheeting             |   | <i>Clean entire surface with Polycell Sugar Soap using bristle brooms or brushes, rinse with tap water and allow to dry. Remove loose and flaky paint and sand surface to a firm edge. Moisture content measured must not exceed 8% before painting. Patch prime bare areas with Nuroof Acrylic Roof paint thinned 10% by volume with water and allow 1 hour to dry. Finish with two coats of Plascon Professional Roof Paint (PRP) or Dulux Roofguard (Code: D8) with an overcoating time of 4 hours.</i>  |

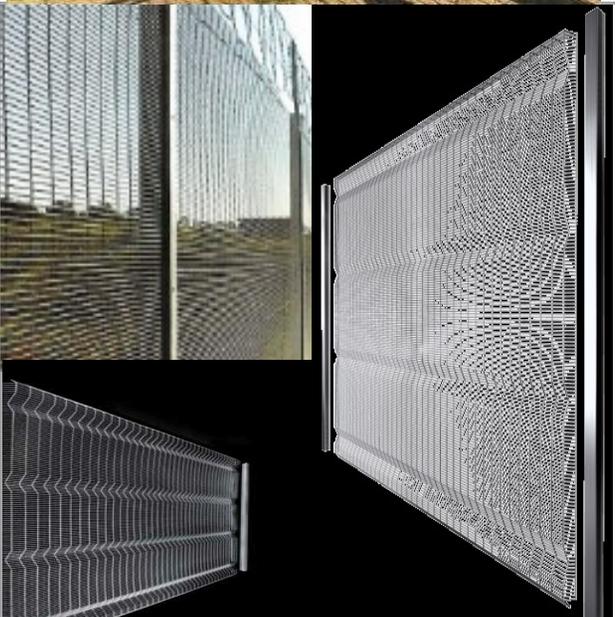
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| K 03      | New Roof Sheeting - Inland areas  | <p>Concealed fix Klip-Lok 700 - Option 1</p>                             | <p>Chromadek:<br/><b>Fish Eagle White</b> for newly built stations<br/>and <b>Dove Grey</b> for existing stations</p> |  |       |    | <p>Roof sheeting to be Concealed Fix interlocking "KLIP-LOK 700", 0,58mm thick heavy industrial Z275 spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</p> |
| K 04      | New Roof Sheeting - Coastal areas | <p>Concealed fix Saflok 700 - Option 2</p>                               | <p>Chromadek:<br/><b>Fish Eagle White</b> for newly built stations<br/>and <b>Dove Grey</b> for existing stations</p> |  |       |    | <p>Safintra 0,80mm thick, 700mm cover SAFLOK 700 Aluminium mill finished, interlocking roof covering fixed to galvanised steel purlins with Safintra approved clips and fasteners. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</p>  |
| K 05      | New Roof Sheeting - Inland areas  | <p>Concealed fix Brownbuilt™ - Option 3</p>                              | <p>Chromadek:<br/><b>Fish Eagle White</b> for newly built stations<br/>and <b>Dove Grey</b> for existing stations</p> |  |       |    | <p>Roof sheeting to be Concealed Fix interlocking Brownbuilt, 0,58mm thick heavy industrial Z275 spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using approved clips and fasteners. Cover width 406mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</p>            |
| K 06      | New Roof Sheeting - Inland areas  | <p>Concealed fix Klip-Tite - Option 4</p>                                | <p>Chromadek:<br/><b>Fish Eagle White</b> for newly built stations<br/>and <b>Dove Grey</b> for existing stations</p> |  |       |   | <p>Roof sheeting to be Concealed Fix interlocking "KLIP-TITE", 0,58mm thick heavy industrial Z275 spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using approved clips and fasteners. Installation and fixing must be in accordance with manufacturer's recommendations and specifications.</p>   |
| K 07      | Fibre Cement Roof Sheeting        | <p>Lengths: 2,4m. 3,0m. 3,6m.<br/>Thickness: 6mm<br/>Width: 920mm</p>  | <p>Colour:<br/>Natural Grey or if painted See <b>Prasa 2.1 and 2.1a.</b><br/><b>Colour spec Section P, P10</b></p>    | Marley Leroy<br>Marlin Everite<br>Nutec Ropace |       |  | <p>100% Asbestos - free Fibre Cement roof sheets with minimum of 50 years life expectancy. Sheets may be painted if so preferred. Reference must be made to the Code of Practice for Fibre cement profiles, SANS 10237 and SANS 10160. Installation according to manufactures guidelines.</p>  |

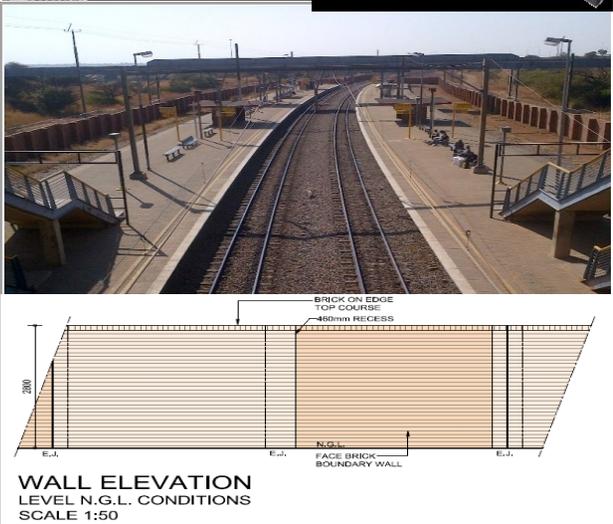
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| K 08      | Roof Slab            | 50mm layer of 25mm crushed stone dressing evenly spread with larger stones around outlets (grey). | PRASA Roof Grey  | See Prasa 2.1 and 2.1a. Colour spec Section P, P10 | Existing roof paint, colour grey   |   | waterproofing to engineer  |
| K 09      | Gutters & Down-pipes | Aluminium gutters and down pipes.   | Marble White     | Powder Coated: Gloss Duct White ANP1052            | Coastal areas, all gutter & downpipe sizes to engineer's stormwater calculations |   | Commercial and industrial Square profile aluminium seamless gutter, 0,9mm 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 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 aluminium peeled rivets, including a 50 x 20mm high overflow spiggot, with 78 x 78 x 2mm thick aluminium downpipes 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. |
| K 10      | Gutters & Down-pipes | Chromadek gutters and down pipes.   | Fish Eagle White |  | Inland areas, all gutter & downpipe sizes to engineer's stormwater calculations  |   | Commercial and industrial Square profile Chromadek seamless gutters, 0,9mm thick coated internally and externally in colour Fish Eagle White 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 aluminium peeled rivets, including a 50 x 20mm high overflow spiggot, with 0,6mm thick Chromadek downpipes in colour Fish eagle 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.                   |
| K 11      | Gutters & Down-pipes | Galvinised gutters and down pipes - existing and new  | White            | See Prasa 2.1 and 2.1a. Colour spec Section P, P10 | Inland areas, all gutter & downpipe sizes to engineer's stormwater calculations  |   | Prime with one coat Plascon Professional High Build Zinc Phosphate Primer (UC 170) with an overcoating time of 18 hours and finish with two coats Plascon Professional Brilliant White Gloss Enamel (PSB 1000) with 16 hours drying time between coats or Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocoat 1 (Code: T1020) with an overcoating time of 4 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.   |
| K 12      | Fascias              | Fiber Cement or Magna Board Fascias   | PRASA Blue       | See Prasa 2.1 and 2.1a. Colour spec Section P, P01 | For all roof bottom edges, painted to match roof colour                          |   | Everite Nutec or equal approved medium density plain ungrooved fascia boards, size 300 x 12mm thick, fixed to support battens between rafters screwed at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.   |
| K 13      | Barge-boards         | Moulded Fiber Cement barge boards   | PRASA Blue       | See Prasa 2.1 and 2.1a. Colour spec Section P, P01 | For all roof top & side edges, painted to match roof colour                      |  | Everite Nutec or equal approved moulded barge boards, size 330 x 250mm, fixed to trimmer purlin, with aluminium H-profile barge board joiners between boards and at roof apex.   |
| K 14      | Copings              | All exposed parapet walls to receive precast concrete copings, painted as per spec.               | PRASA Mid Grey   | See Prasa 2.1 and 2.1a. Colour spec Section P, P04 | Painted  |  | Modcon Concrete Solutions precast concrete coping (Type: 010), overall size 295 x 50mm high, bedded and jointed in Class II mortar and painted on all exposed faces. Painted as per spec doc.  |

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| K 15      | Sheeting Insulation             | Sheeting Insulation<br><i>(option 1)</i>  | White  | 2906  | All exposed concourse and industrial roofs   |   | Alububble®, white bubble with foil backing insulation (code: 2906) with thermal insulating, dustproofing and fire resistant capabilities complying with SANS 1381-4:2009 and tested to SANS 428. Quality in accordance with requirements of SANS 10400 Building Regulations, installations are to be to manufactures instructions and specifications               |
| K 16      | Sheeting Insulation             | Sheeting Insulation<br><i>(option 2)</i>  | White  | FR 430  | All exposed concourse and industrial roofs   |   | Sisalat FR 430 is a double sided, heavy duty reflective foil insulation with thermal insulating, dustproofing and fire resistant properties complying with SANS 1381-4:2009 and tested to SANS 428. Quality in accordance with requirements of SANS 10400 Building Regulations, installations are to be to manufactures instructions and specifications            |
| <b>M</b>  | <b>Miscellaneous</b>            | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b>   |  |   |  |  |  |
| M 01      | Granite Tops                    | Rustenburg Granite Tops<br><i>(For public ablutions wash hand basins refer to generic detail drawings 650-G &amp; 650-H and Ticket Sales tops refer to 651-A, 651 -B &amp; 651 - C)</i> |  |   | All public ablutions, counter- & kitchen tops  |   | 30mm thick granite with all exposed edges large bevel edged, fixed to supports (elsewhere specified) using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.              |
| M 02      | Formica Tops                    | Office Worktops<br><i>(For counter Ticket Sales tops refer to detail drawings 651 - A)</i>  | American Walnut  |   | All back-office worktops & desk tops   |   | PG Bison 32mm thick Formica Lifeseal Worktop in American Walnut Loglare with Squareline profile on 1 long edge, consisting of a Formica High Pressure Laminate bonded to a moisture resistant Bisonbord Particleboard substrate with laminated on one side backer, manufactured in accordance with SANS ISO 4586:1995 constructed in accordance with the drawings. |
| M 03      | Intermodal benches              | Precast concrete 1500mm, 1600mm or 1800mm long bench.   | concrete   | Can be used on Halt station platforms                   | All intermodal or public seating   | <br> | Wilson Stone "The Turin" or Old World Concretes "Erica" or equal approved Bench, size 500 x 500mm high x 1500, 1600 or 1800mm long colour Charcoal. Benches to be cast in or bolted to surface beds for vandal resistance.   |
| M 04      | Platform benches - all stations | Galvanised and polyurethane painted platform bench, set into concrete bed, from Wilson's street furniture and or Superior Metal Solutions or equal approved                             | PRASA mid grey   | New platform seating with arms as indicated on photos   | <br> |    | Back-to-Back or single side bench 1,8m long with straight leg with galvanised and polyurethane painted finish, set into concrete bed.  |
| M 05      | Platform benches - all stations | Galvanised and polyurethane painted platform bench, set into concrete bed, from Wilson's street furniture and or Superior Metal Solutions or equal approved                             | PRASA mid grey   | New platform seating without arms as indicated on photo |   |   | Single seat with straight leg with galvanised and polyurethane painted finish, set into concrete bed.  |

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| M 06      | Platform & External Bins - all stations | Powder coated steel bins from Wilson`s Street furniture and or Superior Metal Solutions or equal approved  | PRASA mid grey                                      |  | All platforms, extenal public areas & intermodal facilities.                        |   | Steel litter bin size 400mm Ø x 750mm high / 72-litre capacity with steel ash tray, galvanised with a polyurethane paint.  |
| M 07      | Internal Bins                           | Powder coated steel bins from Wilson`s Street furniture and or Superior Metal Solutions (option 1) or equal approved   | PRASA mid grey                                      |  | All internal & concourse areas  |   | 60 litre steel litter bin 60 litre capacity without ashtray, galvanised with a polyurethane paint.   |
| M 08      | Internal Bins                           | Stainless Steel bins - all internal & concourse areas - Super Core & Coastal areas (option 2) or equal approved  | stainless steel                                     | Nuwkem Franke Volkem Hygiene Equipment Serra |  |  | Satin stainless steel waste disposal bins with capacity of plus minus 40 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws.  |
| M 09      | Drinking Fountain                       | Wilson's Street Furniture or similar approved concrete drinking fountain & tap, 300mm dia 1200mm high (installed 900mm above NGL) with exposed aggregate finish. | exposed aggregate & concrete                        |  | All platforms   |   | Average of 2-3 per platforms spaced approximately 100m apart.  |
| M 10      | Concrete Ventilation Blocks             | Modular Concrete Ventilation Blocks  | concrete  | M100   | Public / Intermodal Ablutions   |   | Coverland or similar approved 3,5MPa M100 modular concrete masonry blocks, size 390 x 90 x 190mm high laid in superstructure, bedded and jointed in Class II mortar with 10mm joints in accordance with SANS 10145, SANS 10400 and the current edition of the CMA Concrete Masonry Manuals.  |
| M11       | Manhole Covers & Drainage Gratings      | Replacement of existing and new manhole covers & drainage gratings where required  | Polymer concrete / composite Dark Grey and or Black | m4a Fiberite National Manhole covers ACO     |   |  | All Polymer concrete / composite manhole covers and gratings to comply with SANS 1882:2003. Lockable options to be available if needed. Sizes to be compatible with standard existing manhole covers. The product to be of ZERO scrap value. Load ratings to be SABS 50124 approved for manhole cover load ratings. 125kN (12.5ton) for parking areas, 250kN (25ton) for roads and 400kN (40ton) for high load vehicles and roads. Manhole covers to be applied according to specific areas as above mentioned |

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| <b>N</b>  |  | <b>Perimeter protection</b>   |  |  |   |   |                        | <b>All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design &amp; Space Planning</b> |  |
| N 01      | Security Barrier - Existing Palisade Screening | One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied. | PRASA<br>Dark Grey<br>Blue -<br>Mild steel | See Prasa 2.1<br>Colour spec<br>Section P, P02 | <b>PRASA Protection Services to be consulted on risk rating and fencing type assessment</b> |  |                        |   |  |

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| N 02      | Security Barrier -Mesh Screening | <p>High density security galvanised mesh fence with min 3.15mm horizontal wire diameter and 4mm vertical wire diameter. Panels: Appertures to be 76x12mm inner and min 3050mm wide panels to be reinforced with 4x 50mm V formation horizontal recessed bands. Height above the ground to be min 3000mm. All fixtures to be on the inside of the fence line. Panel to be fixed over 48 line wires with Double and single bolt clamps using Anti Vandal bolts. Posts to embedded into concrete and must have moisture proof caps for all posts. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of mesh. Posts to be 85mm width which includes Locking recess mechanism, posts to be sealed with UV stabilized polymer cap and post to be Hot Dipped galvanized. A 10 year underwritten Anti - Corrosion Gurantee life span to be provided. Product to comply with SANS 10244-2:2003 ISO 1461 hot dip galvanising. Anti - Burrow options: from 300 - 600mm Mesh extension shall be secured to the panels underside for additional security and or a 200mm concrete sill shall be secured to the panel's lower edge angle. Any concrete work to be certified by an engineer.</p> <p><b>Refer to doc 1.1, item 3.1.2 and 3.1.3</b></p> | Black and or natural galvanising | Clearvu by Cochrane or equal approved | <p><b>PRASA Protection Services to be consulted on risk rating and fencing type assessment</b></p> |  |                        |

| ref. code | description                | specification   | Colour  | product code                        | notes  | image  | extended specification |
|-----------|----------------------------|---|---|-------------------------------------|--|--|------------------------|
| N 03      | Face Brick, Brickwall      | <p>Wall to extend 300m from Platform ends in both directions on both sides of the station and connected inbetween (Will be approximately 900m per side, 1,8km total. Site specific dimensions) . Wall thickness to be 220mm and height above natural ground level 3000mm. Coastal areas to be cavity walls. All concrete footings to be as per engineer specification. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. The total wall and foundation to be as per engineer specifications and details. Wall must be certified by the engineer.</p> <p><b>Refer to drawing 603-A Refer to doc 1.1, item 3.1.2 and 3.1.3</b></p> | Silvergrey Travertine, Wolkberg Lite Satin, Opal Satin, Sand-stone Travertine | Corobrik or bricks equally approved | PRASA Protection Services to be consulted on risk rating and fencing type assessment |  <p>The image for N 03 consists of a photograph and a technical drawing. The photograph shows a long brick wall extending from a railway platform towards the tracks. The technical drawing is a cross-section of the wall, showing a height of 3000mm above the natural ground level (N.G.L.). It features a top course of bricks on edge with a 460mm recess. The drawing is labeled 'WALL ELEVATION LEVEL N.G.L. CONDITIONS SCALE 1:50'.</p> |                        |
| N 04      | Precast concrete slab wall | <p>Wall must be constructed with a steel core and to be min 130mm thick with a height of 4000mm above natural ground level. Concrete compressive strength to be a minimum of 35MPa per cube meter. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. The total wall and foundation to be as per engineer specifications and details. Wall must be certified by the engineer. <b>Refer to doc 1.1, item 3.1.1</b></p>   | Concrete  |                                     | PRASA Protection Services to be consulted on risk rating and fencing type assessment |  <p>The image for N 04 consists of a photograph and a technical drawing. The photograph shows a tall, grey precast concrete slab wall at a railway station. The technical drawing is a cross-section of the wall, showing a height of 3100mm. It includes a layer of mesh with 310mm spacing and 140mm width, and Y12 lifting hooks. The drawing is labeled 'LAYER MESH 310 SPACED IN THE FORM OF A CHANNEL' and 'Y12 LIFTING HOOK'.</p>       |                        |

| ref. code | description         | specification  | Colour   | product code | notes  | image  | extended specification |
|-----------|---------------------|--|----------|--------------|--|--|------------------------|
| N 05      | Solid concrete wall | Wall must be constructed with a steel core and to be min 130mm thick with a height of 4000mm above natural ground level. Concrete compressive strength to be a minimum of 35MPa per cube meter. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. The total wall and foundation to be as per engineer specifications and details. Wall must be certified by the engineer. <b>Refer to doc 1.1, item 3.1.1</b> | Concrete |              | PRASA Protection Services to be consulted on risk rating and fencing type assessment |   |                        |
| N 06      | Concrete T-Wall     | The T-Wall to be a height of 4000mm above natural ground level. Wall design, details and built to be according to Engineers specification and instruction Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. All T-Walls to be certified by an Civil Engineer <b>Refer to doc 1.1, item 3.1.1</b>  | Concrete |              | PRASA Protection Services to be consulted on risk rating and fencing type assessment |  |                        |