

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

INDEX:

Part A - Space Utilisation

Part B - Finishing Schedules

Part C - Signage Guidelines & Specifications

Part D - Drawings, sketches and details

Part E - Brand application Samples

Part F - Alternative Building Technology - ABT

Part A	Space utilisation	
DOC NO	DOCUMENT NAME	NOTES
1.1	Spatial Parameters	
	1. Design Parameters bases on passenger volumes	
	1.1 Station Capacity	
	1.2 Walkways and waiting areas	
	1.3 Ramps	
	1.4 Stairs	
	1.5 Lifts	
	1.6 Street to street crossing	
	1.7 Platform design parameters and accommodation	
	2. Station Management offices and accommodation	
	2.1 Customer Services centre (CSC)	
	2.2 Station Control & Information Centre	
	2.3 Administrative Offices and Staff Accommodation	
	2.4 Cleaning Staff Accommodation	
	2.5 Security Accommodation and Systems	
	2.6 Public Ablutions	

DOC NO	DOCUMENT NAME	NOTES
DOC NO	DOCUMENT NAME	NOTES
	3. Site Design and Intermodal Requirements 3.1 Station Site and Intermodal requirements 4. Other Equipment and Systems 4.1 Information Systems 4.2 Lighting 4.3 Fire Fighting Requirements 4.4 Logistics and Provision for On-going Operations 4.5 Commercial and Retail Facilities 5. References 5.1 References	
1.2	Capacity Calculations	
1.3	Room Requirement Schedule	
	1. Customer Services 2. Station Control and Information 3. Administration Offices and Staff Accommodation 4. Cleaners and Acces contol Staff accommodation 5. Security Accommodation and System 6. Public Ablution Facilities	
Part B	Finishing Schedules	
2.1	Prasa Colour Specification	<i>P - Paint Colour Specifications</i> <i>Q - Aluminium Colours</i> <i>R - Chromadek Colours</i> <i>S - Varnish Colours</i> <i>T - Powder Coating</i>

DOC NO	DOCUMENT NAME	NOTES
2.1a	Prasa Paint Specification	
2.2	General List of Finishes and Specifications	A - Floors B - Skirting C - Walls D - Dados, Picture Rails, Trims and Corner Protectors E - Window Sills F - Doors G - Windows H - Ceilings I - Cornice J - Steel and other metal items K - Roof M - Miscellaneous
DOC NO	DOCUMENT NAME	REV CODE
2.3	General List of Lighting Specifications	L - Lighting Specification
2.3a	General List of Lighting LUX Levels	LU - LUX Levels
2.4	General List of Sanitary Fittings and Specifications	S - Sinks T - WHBs U - Urinals V - Taps and Flush Valves W - WCs X - Sanitary Fittings and Accessories Y - Geysers Z - Disabled Ablution Facility - SANS 10400-S
2.5	General List of Ironmongery Specifications	Q - Ironmongery R - Accessories and Signage
2.6	General List of Prasa Furniture Standards	O - General Workstations P - Additional Moveable Items

PRASA Design Blue
Print Standards and Guidelines Index



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 asterisk (*) 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/maufacturer 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
-----------	-------------	---------------	--------	--------------	-------	-------	------------------------







A	Floor	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
----------	--------------	---	--	--	--	--	--



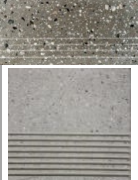
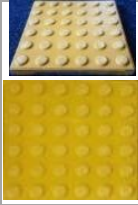

* Finished floor levels for all materials are to be identical unless otherwise indicated on drawings.
 * To be read in conjunction with Floor Finishes Layouts for individual stations. Architect to be notified of any discrepancies between document and drawings.
 * All surface beds, suspended slabs, beams 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.

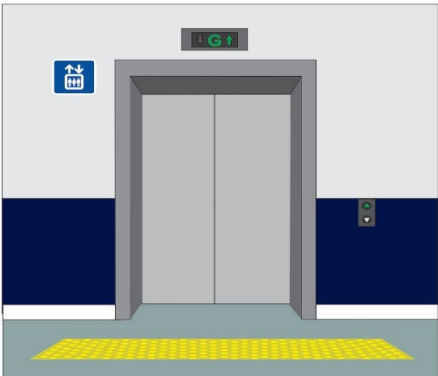
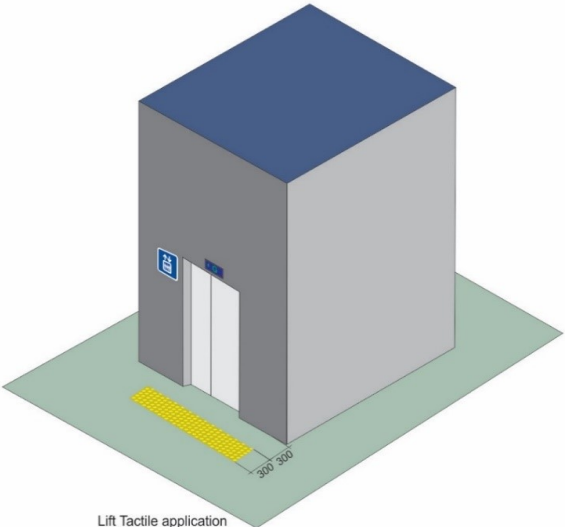
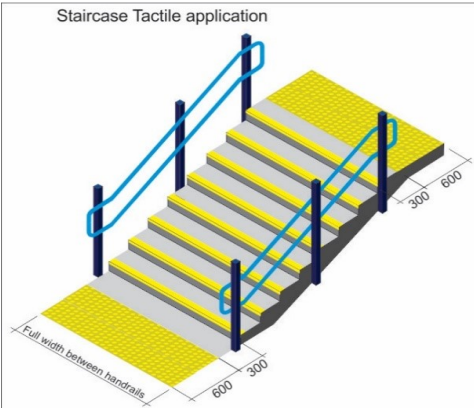
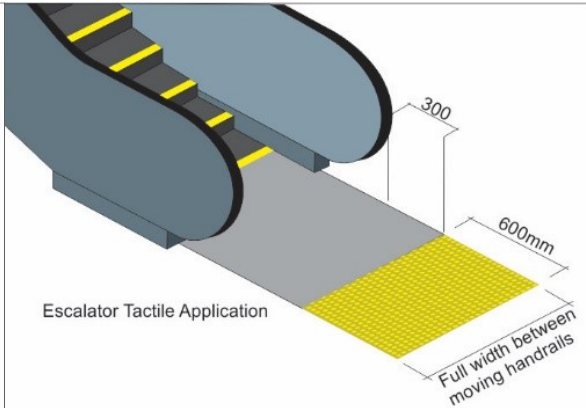
* Floor finish on minimum 30mm thick 1:3 cement/sand screed on 85mm thick concrete surface bed (to Engineer's detail) on 250 micron 'Gunplus' USB green or equal and approved waterproof membrane lapped min. 150mm with DPC to brickwork on 50mm sand blinding on well compacted clay free hardcore fill. Fill 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.




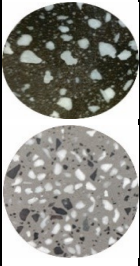
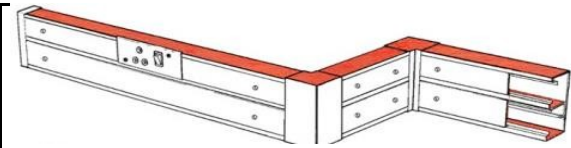
A 01	Porcelain tiles	600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles(UT), Tilespace(TS) or Tiletoria(TT) . Natural finish	Light Grey Grout: "Dark Grey"	UT= ADPMDO-6 TS= TS2040AD TT=LG01 SMJDS	Station Primary / Main interior - Concourse - tile floor 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 Grout: "Dark Grey"	UT= ADPMBL-6 TS= TS2039AD TT=MD01 SMJDS	Station Secondary Interior floor tile, feature strips. Primary tile for kitchen & ablution floors 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 Grout: "Dark Grey"	UT = ADPMJE-6 TS =TS2117AD TT=SM9672 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.

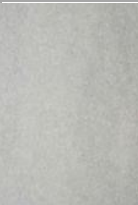
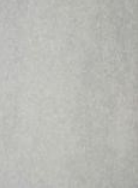

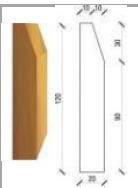


ref. code	description	specification	Colour	product code	notes	image	extended specification
A 04	Floor Carpets	500 x 500mm Loose lay "Metro" Belogotex Commercial carpet tiles with Nexbac from Nexus or equal approved. Tessellated Installation	Moon Rock	"Metro" Range	All passages, office & admin areas		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 manufacturer's 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	BOSUN REVELSTONE WILSONSTONE	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	UT = ADB34LAVSL600 LD= KF330 ASH GREY	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


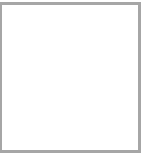
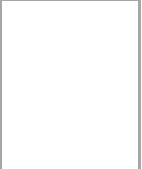



ref. code	description	specification	Colour	product code	notes	image	extended specification
A 10	Terrazzo non-slip tiles	600 x 600 x 20mm or 300x300x30mm Terrazzo tiles - Lava Stone - with 5mm grouting from Union Tiles(UT), Lovric Dittberger(LD) - (CPT) or equal approved, sealed with manufacturer recommended sealant.	Grey multi coloured aggregate	UT= ADG34LAVSL600 LD= KX371 SILVER GREY	New platform finish, detailed areas as per plan		<i>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</i>
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= ADB34LAVSTEP 40	New stations, platform nosing		<i>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</i>
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 LD= KX371 SILVER GREY	Stair nosing, all external stairs, including station entrances, approaches & stairs to platforms		<i>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.</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 = ADMTAC21T GA = WARYEL300 SS=3562080124	All new and existing station platform edging		<i>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 Supplier to guide with installation specification</i>
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		<i>Tac- Pave is an in situ system that can be applied to most existing surface. The product to be SANS 784:2008 complaint</i>



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>					<i>Tactile warning indicators application at lifts Refer to SANS 784</i>
A15a	Tactile: Stair and Escalator application	 <p>Staircase Tactile application</p>  <p>Escalator Tactile Application</p>					<i>Tactile warning indicators application at stairs and escalators. Refer to SANS 784</i>

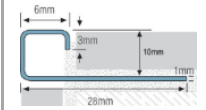
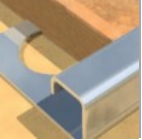
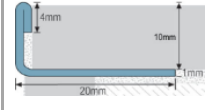
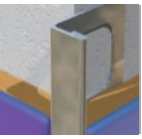
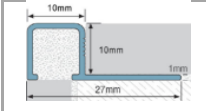

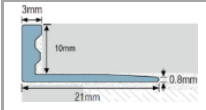

ref. code	description	specification	Colour	product code	notes	image	extended specification
A 16	Asphalt	Asphalt surfacing & surface preparation to engineer's specifications & details	Black		Existing & new platform finish, all stations		
A 17	Paving	200x100x60mm min thickness Premium Interlocking concrete paving blocks,	Grey	BOSUN COROBRIK VIBRO	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	BOSUN COROBRIK VIBRO	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/ Polyurethane/ Epoxy Flooring	Alternative flooring system if so required. Finish to have a Terrazzo smooth look and feel	Moon Rock "Charcoal" Grey "Light Grey"	Technical Finishes, Flow Crete	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	Skirting	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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>

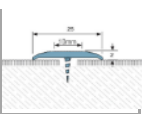




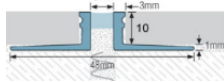


ref. code	description	specification	Colour	product code	notes	image	extended specification
B 03	Porcelain Tile	300mm high natural porcelain tile, bedded to wall with cement adhesive, complete with 'M-trim' or 'Genesis' 12mm silver anodised aluminium straight edge trim to suit tile thickness with grey grout. From Union Tiles, Tilespace or Tiletoria	Light grey <i>Grout:</i> "Dark Grey"	UT= ADPMDO-6 TS= TS2040AD TT=LG01 SMJDS	Main floor tile areas with plaster finish above. all joints to match / align with floor tiles where possible		<i>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.</i>
B 04	Porcelain Tile	300mm high natural porcelain tile, bedded to wall with cement adhesive. From Union Tiles, Tilespace or Tiletoria	Light grey <i>Grout:</i> "Dark Grey"	UT= ADPMDO-6 TS= TS2040AD TT=LG01 SMJDS	All back-of-house tiled areas, including kitchen & break rooms & security offices.		<i>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.</i>
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. Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F	Black - gloss <i>Grout:</i> "Dark Grey"	UT = ADPRBL6M TS = TS2439AD TT=10006IJ	All Station Ablutions. All joints to match / align with floor tiles where possible		<i>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.</i>
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.	<i>Clear Varnish</i>	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	Where indicated on plan		<i>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.</i>
*B 07	Existing Timber Skirting - *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.	<i>Clear Varnish</i>	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	*Heritage sites only. New skirting profiles to match existing.		<i>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. ** All to be in compliance with heritage requirements.</i>

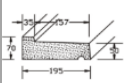

ref. code	description	specification	Colour	product code	notes	image	extended specification
B 08	Existing Timber Skirting - Varnished	Existing timber skirtings to be sanded down & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish. 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.
C	Walls	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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. Refer to doc 3, drawing 650-I, 650-J, 650-K, 650-L.	Grout colour: White		All Halt, Small, Intermediate and Core station ablutions 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. Refer to doc 3, drawing 650-C, 650-D, 650-E, 650-F, 651-D, 653-A and 653-B.	Ivory polished Grout colour: Mushroom	TS = TS2438AD UT = ADPRIP690 TT=1000IJ	All Flagship and Super Core stations only: Main commuter flow & high traffic areas, 1,5m high to tiling pattern or full height. Ablutions: 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
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 Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F	Black - gloss <i>Grout: "Dark Grey"</i>	UT = ADPRBL6M TS = TS2439AD 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 <i>(coastal external walls to be cavity walls)</i> Refer to doc 3, drawing 603-A	Silvergrey TravertineF BX	Corobrik	Gauteng, Natal, Eastern Freestate, Mpumalanga, Limpopo & North-West Regions		Corobrik® (Midrand - Gauteng Province) 20-30MPa Silvergrey 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 Refer to doc 3, drawing 603-A	Country Manor Trav /Letaba Travertine FBS	Corobrik	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
C 09	Facebrick	Flush jointed facebrick Refer to doc 3, drawing 603-A	Golden Wheat Travertine FBX	Corobrik	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 (coastal external walls to be cavity walls) Refer to drawing 603-A	Maize Travertine FBX	Corobrik	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 aluminum 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 Rusist 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.		






ref. code	description	specification	Colour	product code	notes	image	extended specification
D		Dados, Picture Rails, Trims & Corner Protectors		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning			
*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 (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. ** 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 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 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.

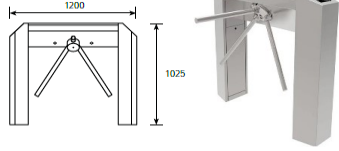
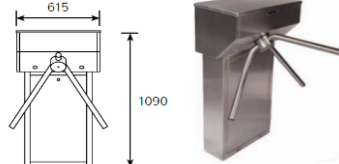
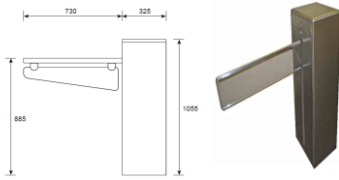
ref. code	description	specification	Colour	product code	notes	image	extended specification
D 07	Alu threshold strip	Aluminium carpet threshold strips	Matt Silver	TCA 109.81 ATC300.MF	thresholds requiring cover strips for all new carpeted areas		Genesis or equal approved interior aluminium tile to carpet 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 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 	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 	Dark Grey	MMA100.35 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	NTL108.81	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.

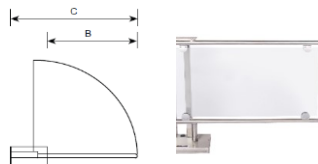
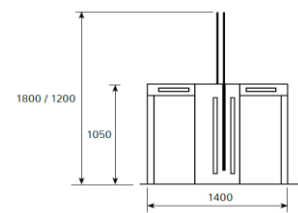
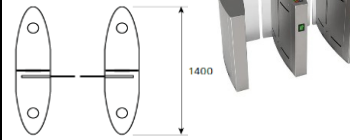

ref. code	description	specification	Colour	product code	notes	image	extended specification
E	Window sills	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
*E 01	Existing Internal Timber sills - Varnished	Existing Timber sill to be sanded down & 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. ** All to be in compliance with heritage requirements.
*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. ** All to be in compliance with heritage requirements.
*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. ** All to be in compliance with heritage requirements.
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.


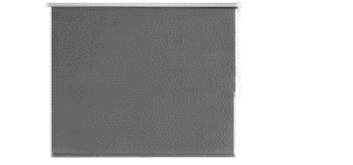
ref. code	description	specification	Colour	product code	notes	image	extended specification
F	Doors, turnstiles and speed gates	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
F 01	Existing External Steel Door Frame Finish	Existing steel door 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	<p>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.</p> <p>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.</p>	
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	<p>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.</p> <p>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.</p>	
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	<p>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.</p>	
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	<p>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.</p> <p>** All to be in compliance with heritage requirements.</p>	


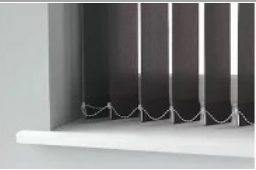
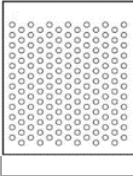
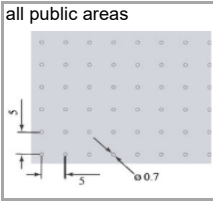

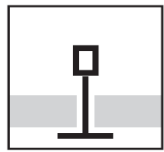

ref. code	description	specification	Colour	product code	notes	image	extended specification
*F 06	OMITTED						
F 07	Internal Painted Door Leaf Finish	Paint all internal door leafs to be painted with Plascon or Dulux Trade Pearlgló Emulsion paint.	PRASA Brown	See Prasa 2.1 and 2.1a. Colour spec Section P, P08	All internal door leafs		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 leafs 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 leafs		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 anlgie 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 anlgie 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.

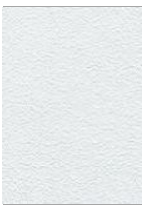
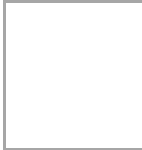



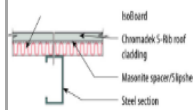
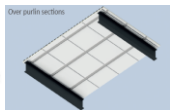
ref. code	description	specification	Colour	product code	notes	image	extended specification
F12	Roller Shutters	<p>Manual Push-up Roller Shutters, for openings not exceeding 2,0m x 3,0m high.</p> <p>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</p>  	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda	<p>NOTE:</p> <ul style="list-style-type: none"> • This is a generic spec, id site specific requirements • Motorised doors up to 25m² generally require single phase (220V) with a HL600 motor. • Motorised doors 25m² - 35m² generally require 3 phase (380V) with a HL800 motor. 		<p>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.</p>
F13	Roller Shutters	<p>Motorised Roller Shutters, for openings 6m² - 25m².</p> <p>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</p> 	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda	<ul style="list-style-type: none"> • Motorised doors > 35m² require 3 phase (380V) with Heavy Duty motor. • Higher spec motors may be required due to extraordinary circumstances, such as high frequency door usage • No slidebolts for motorized doors – can cause motor to burn out if not disengaged • Closed shafts specified due to low maintenance requirements • For 8x6m doors: recommend to specify 1m of solid slats at top and bottom to lend rigidity to the see-thru profile • All operational area roller shutters to be motorised 		<p>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.</p>
F14	Roller Shutters	<p>Motorised Roller Shutters, for openings larger than 25m².</p> <p>Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839</p> 	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda			<p>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.</p>
F 15	Full Height Turnstiles	<p>Electrical Industrial type full height turnstile with a gate for disabled people and as an emergency exit. Quantity as per requirement for specific stations</p>	Stainless steel	<p>AS ADVISED BY AN PRASA AGENT</p> <p>Alternate suppliers</p> <p>iMat</p> <p>Turnstar</p> <p>Time Dectective</p> <p>Centurion</p> <p>Systems</p> <p>Flow Systems</p> <p>Gate and Door</p>	<p>At Stations, Depot's and other sites where required</p> 		<p>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 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 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.</p>


ref. code	description	specification	Colour	product code	notes	image	extended specification
F 16	Waist Height Turnstiles	Electrical Industrial type waist height turnstile (<i>Option 1</i>)	Stainless steel	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems 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. Finishe: 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	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems 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	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems 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. Finishe: 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
F 19	Special needs gate	Semi Automatic Special needs gate	Stainless steel	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems Gate and Door	At stations and offices where required		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 relcock. 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.
F 20	Speed gates	Speed gate 	Stainless steel	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems Gate and Door	At stations where required		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 varification. 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.
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
G	Windows	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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	<i>Clear Varnish or Gloss Enamel, White</i>	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		<p>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.</p> <p>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.</p> <p>** All to be in compliance with heritage requirements.</p>
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		<p>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.</p> <p>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.</p>
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

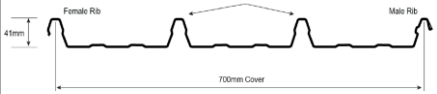
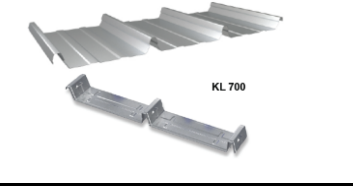

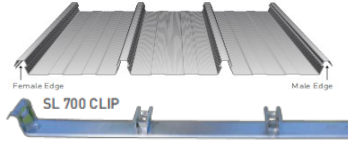
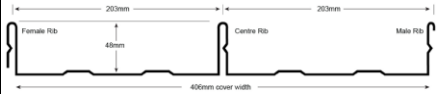
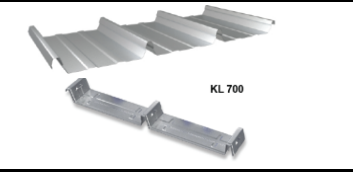
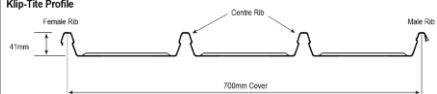

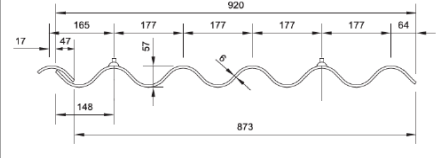

ref. code	description	specification	Colour	product code	notes	image	extended specification
G07	Burglar bars and window protection boxes	Heavy duty mild steel burglar bars, positioned at all external doors	White / Galvanised steel	See Prasa 2.1 and 2.1a. Colour spec Section P, P10			Galvanised steel to 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
H	Ceilings	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
H 01	Ceiling Tiles - Aluminum. FLAGSHIP STATIONS ONLY	600 x 600mm perforated lay-in powder coated aluminium ceiling tiles with acoustic backing laid on pre-painted 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. FLAGSHIP STATIONS ONLY	600 x 600 x 0,5mm perforated lay-in powder coated metal tiles with acoustic backing laid on pre-painted tees and adjustable hanger system. OWA Aetcta perforations or EQUAL APPROVED	White	Micro perforation	all public areas	 	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 pre-painted OWAconstruct Shadowline W-trim.
H 03	Ceiling Tiles - Acoustic	1200 x 600 x 15mm thick acoustic ceiling tiles laid on pre-painted tees and adjustable hanger system. OWA Constellation or EQUALLY APPROVED	White	EQUALLY APPROVED	all office areas	 	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.

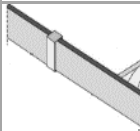
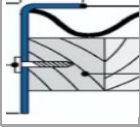

ref. code	description	specification	Colour	product code	notes	image	extended specification
H 04	Ceiling Tiles - Vinyl coated	1200 x 600 x 12,5mm vinyl faced ceiling panels laid on tees and adjustable hanger system. Owa coustic	White	Future 60	all bathroom, kitchen& retail areas		12.5mm Vinyl Faced Gypsum 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 Pearlgló 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 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	





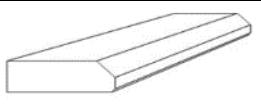






ref. code	description	specification	Colour	product code	notes	image	extended specification
H 10	Bulkhead - internal	Flush plastered gypsum or Magna Board bulkhead, painted	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P11	internal bulkheads		
H 11	Bulkhead - external	Flush plastered fiber cement 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		
I	Cornice	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
I 01	Cornice	Standard Donn plaster trim shadow line cornice between and perimeter walls.					
I 02	New Coved Cornice	New cornice to be prepared and painted with two coats of quality PVA to match existing.					
I 03	Existing Coved Cornice	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.					




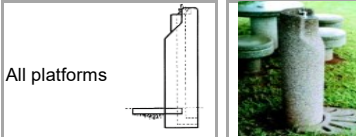


ref. code	description	specification	Colour	product code	notes	image	extended specification
I 05	Existing Scotia	Existing scotia to be sanded down and repainted.					
J	Steel and other metal items	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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 (Coastal conditions)	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	<p>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</p> <p>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.</p>	
J 05	Existing Balustrades (not being replaced)	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		


ref. code	description	specification	Colour	product code	notes	image	extended specification
J 06	Existing Handrails <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		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.
K	Roof	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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		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 Coastcote 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.
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		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.


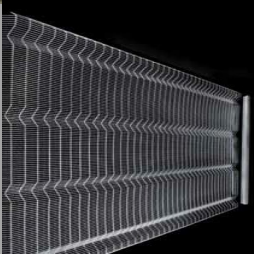
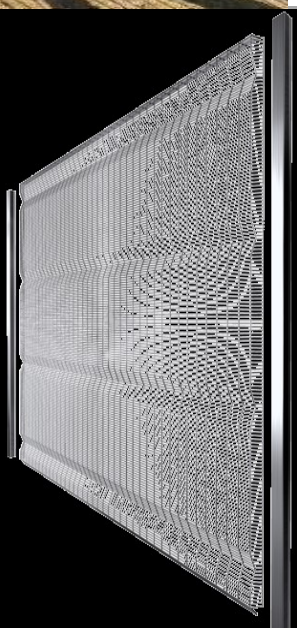
ref. code	description	specification	Colour	product code	notes	image	extended specification
K 03	New Roof Sheeting - Inland areas	Concealed fix Klip-Lok 700 - Option 1 	Chromadek: Fish Eagle White for newly built stations and Dove Grey for existing stations				Roof sheeting to be Concealed Fix interlocking "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.
K 04	New Roof Sheeting - Coastal areas	Concealed fix Saflok 700 - Option 2 	Chromadek: Fish Eagle White for newly built stations and Dove Grey for existing stations				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.
K 05	New Roof Sheeting - Inland areas	Concealed fix Brownbuilt™ - Option 3 	Chromadek: Fish Eagle White for newly built stations and Dove Grey for existing stations				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.
K 06	New Roof Sheeting - Inland areas	Concealed fix Klip-Tite - Option 4 	Chromadek: Fish Eagle White for newly built stations and Dove Grey for existing stations				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.
K 07	Fibre Cement Roof Sheeting	Lengths: 2,4m. 3,0m. 3,6m. Thickness: 6mm Width: 920mm 	Colour: Natural Grey or if painted See Prasa 2.1 and 2.1a. Colour spec Section P, P10	Marley Leroy Marlin Everite Nutek Ropace			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.

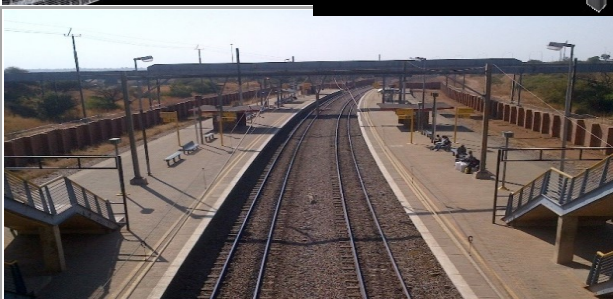
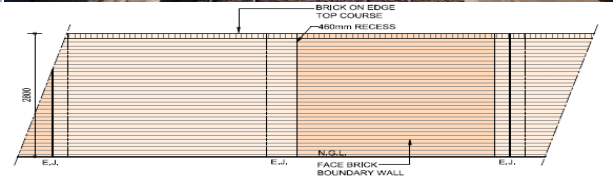

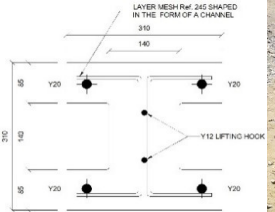

ref. code	description	specification	Colour	product code	notes	image	extended specification
K 08	Roof Slab	50mm layer of 25mm crushed stone dressing evenly spread with larger stones around outlets (grey).	PRASA Roof Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P10	Existing roof paint, colour grey		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 spigot, 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 spigot, 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 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.
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.


ref. code	description	specification	Colour	product code	notes	image	extended specification
K 15	Sheeting Insulation	Sheeting Insulation (option 1) 	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 (option 2) 	White	FR 430	All exposed concourse and industrial roofs		Sisalation 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
M	Miscellaneous	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
M 01	Granite Tops	Rustenburg Granite Tops (For public ablutions wash hand basins refer to generic detail drawings 650-G & 650-H and Ticket Sales tops refer to 651-A, 651 -B & 651 - C)			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 (For counter Ticket Sales tops refer to detail drawings 651 - A)	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 		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			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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
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

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

ref. code	description	specification	Colour	product code	notes	image	extended specification
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 be 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>Refer to doc 1.1, item 3.1.2 and 3.1.3</p>	Black and or natural galvanising	Clearvu by Cochrane or equal approved	<p>PRASA Protection Services to be consulted on risk rating and fencing type assessment</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>Refer to drawing 603-A Refer to doc 1.1, item 3.1.2 and 3.1.3</p>	Silvergrey Travertine, Wolkberg Lite Satin, Opal Satin, Sand-stone Travertine Refer to C 07 to C10 for Region specific finishes	Corobrik or bricks equally approved	PRASA Protection Services to be consulted on risk rating and fencing type assessment	  <p>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. Refer to doc 1.1, item 3.1.1</p>	Concrete		PRASA Protection Services to be consulted on risk rating and fencing type assessment	  	

ref. code	description	specification	Colour	product code	notes	image	extended specification
N 05	Solid concrete 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. Refer to doc 1.1, item 3.1.1</p>	Concrete		PRASA Protection Services to be consulted on risk rating and fencing type assessment		
N 06	Concrete Wall T-	<p>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 Refer to doc 1.1, item 3.1.1</p>	Concrete		PRASA Protection Services to be consulted on risk rating and fencing type assessment	