

PRASA Design Blue Print Standards and Guidelines Index



2023/04/30

PRASA Station Modernisation

GENERAL NOTES:

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

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Part B

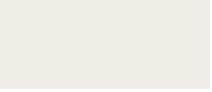
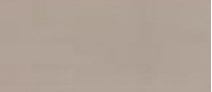
Specification Lists

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,1	PRASA Colour Specification	MID GRM	2023/06/01	2012/11/20	PRASA Station Modernisation

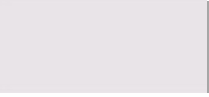
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- It is to be read in conjunction with Layout drawings and Room Finishing Reference sheets, below codes to be used as reference
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- *All specifications with an asterix (*) is applicable to heritage sites only
- Any other paint Brand to be as per the specified below samples, the colour and paint type to be presented to the PMU: Design and Space planning office for approval thereof

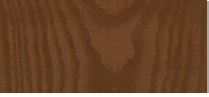


P	Paint Colour Specification								
ref. code	description	Plascon Colour Name	Plascon Colour Code	Dulux Colour Name	Dulux Colour Code	Duram Colour name	Duram Colour Code	Colour Sample	Notes
P 01	PRASA Blue = Pantone 3005 C	"Pristine Blue" <i>Plascon Inspired</i>	B4-A1-1	"Wind Tick"	99 BG 22/432	"Blue Cadet"	031 - 5		All feature walls and blue feature strips including fascia boards
P 02	PRASA Dark Grey Blue	"Nautilus" <i>Plascon Inspired</i>	B6-D1-1	"Signature Blue"	30 BB 10/112	"Night Beacon"	016 - 6		All commuter & main traffic areas painted up to 1,8m height. Palisades, bridges and balustrades
P 03	PRASA Light Grey	"Aluminium Snow" <i>Architectural Greys</i>	AL-B01	Surreal Blue	30 BB 45/015	"Mineral Mine"	135 - 5		All commuter & main traffic areas painted above 1,8m height.
P 04	PRASA Mid Grey	"Thames Dusk" <i>Architectural Greys</i>	GR-B07	Intercoastal	30 BB 16/031	"Mason Gray"	134 - 5		
P 05	PRASA Deep Grey	"Ibiza Bay" <i>Architectural Greys</i>	GR-Y14	Forrest Black	30 YY 10/038	"Smokey Chimney"	157 - 6		to be applied to all internal painted door frames
P 06	PRASA Neutral	"Offshore"	GR-Y03	Barley Beige	30 YY 68/024	"Wrought Iron"	140 - 1		to be applied to 75% of all interior walls - office areas
P 07	PRASA Mocha	"Cement Wash" <i>Plascon Inspired</i>	Y1-E2-2	Neutral Wheat	10 YY 35/094	"Baked Clay"	198 - 3		to be applied to 25% of all interior & 50% of all painted exterior walls- new stations only

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P 08	PRASA Brown	"Stucco Wall" Plascon Inspired	O6-E1-2	Oakley Brown	80 YR 14/140	"Leather Saddle"	172 - 6		to be applied to all internal painted door leaves
P 09	PRASA Roof Grey	"Moonlit Sky"	TRP 210	"Abbey Lane"		"Charcoal"			to be applied to all existing roofs, station and platform shelters
P 10	White		Std Code		Std Code		Std Code		to be applied to all external painted door leaves, door and window frames, gutters and down pipes
P 11	Black		Std Code		Std Code		Std Code		As specified
ref. code	description				Powder Colour Code	Colour Name - Other		Colour Code - Other	Notes
Q	Aluminium Colours								
Q 01	Powder Coating - grey				ANP 3057	"Matt Dark Umber Grey"			External security doors
Q 02	Powder Coating - white				ANP 1052	"Gloss Duct White"			Aluminium gutters & downpipes
Q 03	Anodised Colour					Natural Anodised Aluminium			
ref. code	description					Colour Name - Other		Colour Sample	Notes
R	Chromadek Colours								
R 01	White Sheeting					Chromadek: Fish Eagle White			New concourse main roofs & stair canopies
R 02	Blue					Chromadek: Kingfisher Blue			Bus & Taxi Shelters, Informal trade kiosks & PRASA blue band element

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R 03	Grey					Chromadek: Dove Grey			Platform shelters and Grey cladding or sheeting as required
ref. code	description	Plascon Colour Name	Plascon Colour Code	Dulux Colour Name	Dulux Colour Code	Duram Colour name	Duram Colour Code	Colour Sample	Notes
S	Varnish Colours								
*S 01	*Existing / Heritage Sites	Plascon Woodcare Ultra Varnish	Clear X33 / X44	Dulux Woodgard Interior Double Life 'Timbavarnish'	Clear	Woodseal	Clear		
T	Powder Coating								
ref. code	description				Powder Colour Code	Colour Name - Other		Colour Sample	Notes
T 01	PRASA Blue				RAL 5015, INTERPON AKZONOBEL	Pantone 3005 C			All steel and blue feature strips as needed

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2.1a	PRASA Paint Specification	Revision 3	2021/09/16	2016/05/23	PRASA Station Modernisation

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Paint Type

* These are guidelines on the type of paint to be applied - final finish
 * Pre painting preparation and undercoating must be applied
 *All undercoats and final coats must be applied to manufactures specifications to prevent forfeit of of guarantees.
 *Any queries in terms of paint applications must be directed to specialists and or the manufacturer *
 No deviations can be accepted from the specified colour coding

DULUX	APPLICATION	PLASCON	DURAM
TIMBER			
Pearlglo	DOOR LEAF	Velvagio	Nuglo
Trade Gloss Enamel	DOOR FRAMES	Professional Gloss Enamel	Gloss Enamel
Eggshell	WINDOW SILLS	Eggshell	Nuglo
Pearlglo and or Varnish	BENCHES	Velvagio and or Varnish	Nuglo and or varnish
Woodguard Exterior Double Life Timba varnish; Clear	GENERAL EXTERIOR	Woodcare Sunproof PNW clear	Woodseal, Clear
Woodguard Interior, Clear	GENERAL INTERIOR	Woodcare Ultra Clear	Woodseal, Clear
WALLS			
Luxurious Silk	INTERIOR; BRICK PLASTERED, DRYWALLS	Professional Superior low Sheen	Wallsheen
Weatherguard	EXTERIOR; BRICK PLASTERED, CONCRETE	Wall and All	Armatex / Wall Tech
Weatherguard	WINDOW SILLS	Wall and All	Wall Tech
Brickseal	FACE BRICKS	Brick and Slasto Dressing	Aquapel

ROOFS			
Roofguard	SHEETED (Corrugated, IBR)	Nuroof	Roofkote
Roofguard	CONCRETE ROOF TILES	Nuroof	Roofkote
Roofguard	CLAY ROOF TILES	Nuroof	Roofkote
Trade 100 Low Sheen	FACIAS	Professional Superior Low Sheen	Wallsheen
Trade 100 Low Sheen	BARGE BOARDS	Professional Superior Low Sheen	Wallsheen

STEEL AND METAL WORK			
Trade Gloss Enamel	DOOR LEAF	Professional Gloss Enamel	Gloss Enamel
Trade Gloss Enamel	DOOR FRAMES	Professional Gloss Enamel	Gloss Enamel
Trade Gloss Enamel	WINDOW FRAMES	Professional Gloss Enamel	Gloss Enamel
Trade Gloss Enamel	GENERAL STEEL AND METAL WORK	Professional Gloss Enamel	Gloss Enamel

BULKHEADS AND CEILINGS:			
Trade 100 Low Sheen	PLASTERED	Professional Superior Low Sheen	Wallsheen
Trade 100 Low Sheen	CONCRETE	Professional Superior Low Sheen	Wallsheen
Trade 100 Low Sheen	SKIMMED	Professional Superior Low Sheen	Wallsheen

doc no:	document name:	rev no:	date issued:	drawn:	project name:
2,2	General List of Finishes & Specifications	Revision 21	2023/03/31	2012/11/05	PRASA Station Modernisation

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- Where pictures are shown, these are a guideline to the specific products to be applied and installed and to be used as a reference
- *All specifications with an asterix (*) is applicable to heritage sites only

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



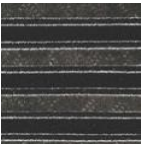
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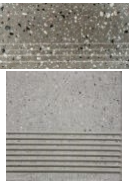
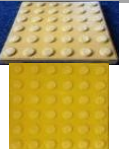
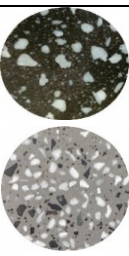
A	Floor	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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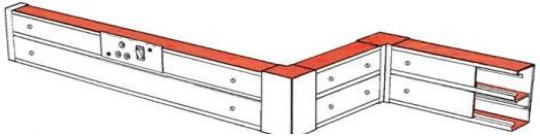
- * Finished floor levels for all materials are to be identical unless otherwise indicated on drawings.
- * To be read in conjunction with Floor Finishes Layouts for individual stations. Architect to be notified of any discrepancies between document and drawings.
- * All surface beds, suspended slabs, 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.

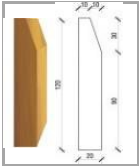
- * Floor finish on minimum 30mm thick 1:3 cement/sand screed on 85mm thick concrete surface bed (to Engineer's detail) on 250 micron 'Gunplus' USB green or equal and approved waterproof membrane lapped min. 150mm with DPC to brickwork on 50mm sand blinding on well compacted clay free hardcore fill.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

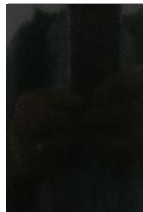
A 01	Porcelain tiles	600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles(UT), Tilespace(TS) or Tiletoria(TT) . Natural finish	Light Grey Grout : "Dark Grey"	UT= ADPMDO-6 TS= TS2040AD TT=LG01 SMJDS	Station Primary / Main interior - 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.
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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
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	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
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
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		Size 600 x 600 x 20mm or 300x300x22mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I. Confirm laying and installation technique with supplier
A 11	Terrazzo non-slip tiles, platform edging	600 x 300 x 40mm Terrazzo tiles with 100mm white bullnose and tread grooves from Union Tiles(UT) or equal approved, with manufacturer recommended sealant.	Grey multi coloured aggregate	UT= ADB34LAVSTE P40	New stations, platform nosing		Union Tiles cement based tiles, size 600 x 300 x 40mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I. Confirm laying and installation technique with supplier

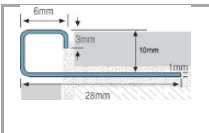
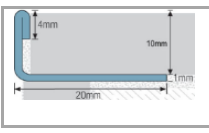
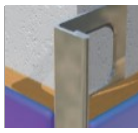
ref. code	description	specification	Colour	product code	notes	image	extended specification
A 12	Terrazzo non-slip tiles, stair steptiles	600 x 300 x 20mm (UT) or 305x230x32mm (LD) Terrazzo steptiles with bullnose and tread grooves from Union Tiles(UT), Lovric Dittberger(LD) - (CPT) or equal approved, 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		Cement based Stair Tread pavers, size 600 x 300 x 20mm (UT) or 305x230x32mm (LD) thick laid externally to 1:50 falls, with 5mm joints grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded on 20-30mm thick river sand bed, on base course and subgrade, conforming to SANS 1200 MJ Degree Of Accuracy I.
A 13	Tactiles	300x300x30mm Cement base product with Tac pins from Union Tiles(UT), Gimi Access(GA) and or equal approved, with manufacturer recommended sealant.	Yellow cement	UT = ADMTAC21T GA = WARYEL300	All new and existing station platform edging		Union Tiles and Gimi Access cement based Tactile pavers, size 300 x 300 x 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
A 14	Tactiles	300x300mm in-situ system to applied to existing substrate without excavation from Calcon Projects	Yellow concrete Polymer	TAC - PAVE	All existing station platform edging		Tac- Pave is an in situ system that can be applied to most existing surface. The product to be SANS 784:2008 complaint
A 15	Asphalt	Asphalt surfacing & surface preparation to engineer's specifications & details	Black		Existing & new platform finish, all stations		
A 16	Paving	200x100x60mm min thickness Premium Interlocking concrete paving blocks,	Grey	BOSUN COROBRİK VİBRO	Existing & new platforms, and any pedestrian area where required - all stations		Pavers to be laid in a Herringbone pattern due to its interlocking ability. All paving must comply with SANS 1058:2012 approved
A 17	Paving	200x100x80mm min thickness Premium Interlocking concrete paving blocks,	Grey	BOSUN COROBRİK VİBRO	Existing & new parking area and road ways, vehicle traffic - all stations		Pavers to be laid in a Herringbone pattern due to its interlocking ability. All paving must comply with SANS 1058:2012 approved
A18	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, Spec Floors, Surfatek, Floor Tech, Flow Crete	Small concourses, passages, office / admin areas, kitchens & ablutions		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
B	Skirting	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					

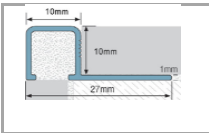
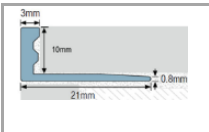
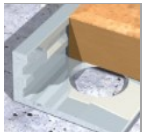
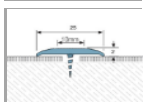
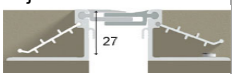
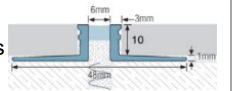
ref. code	description	specification	Colour	product code	notes	image	extended specification
B 01	Power Skirting	2 Compartment powdercoated steel electric trunking 160mm high with power, tel & data outlets, to electrical layout	Motorcraft grey		Admin & office areas, positions as indicated on electrical layout plans		
B 02	Aluminium Skirting	100x2mm high anodised aluminium skirting, glued or siliconed to walls.	Natural Anodised aluminium		All carpeted & vinyl floor areas		Applied to all walls without power skirting. Install before flooring finish is applied

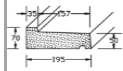
ref. code	description	specification	Colour	product code	notes	image	extended specification
B 03	Porcelain Tile	300mm high natural porcelain tile, bedded to wall with cement adhesive, complete with 'M-trim' or 'Genesis' 12mm silver anodised aluminium straight edge trim to suit tile thickness with grey 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		Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.
B 04	Porcelain Tile	300mm high natural porcelain tile, bedded to wall with cement adhesive. From Union Tiles, Tilespace or Tiletoria	Light grey <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.		Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.
B 05	Glazed Matt Porcelain/ Ceramic tiles	300mm high 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	Ablutions: All joints to match / align with floor tiles where possible		Matt glazed Porcelain/Ceramic 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.
B 06	New Timber Skirting	20 x 120mm solid meranti skirting, profile to detail image. Varnished with Plascon Woodcare Interior Coloured Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish. Eggshell finish.	Clear Varnish	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	Where indicated on plan		Sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.
*B 07	Existing Timber Skirting - *Heritage	Existing timber skirtings to be sanded down & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish as per heritage requirements. New skirting profiles to be installed where necessary, to match existing. Eggshell finish.	Clear Varnish	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	*Heritage sites only. New skirting profiles to match existing.		Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. ** All to be in compliance with heritage requirements.

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	OMITTED						
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	Main commuter flow & high traffic areas, 1,8m high to tiling pattern or full height All 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 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 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 Grout: "Dark Grey"	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.

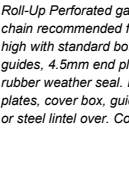
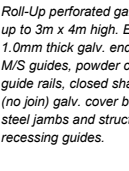
ref. code	description	specification	Colour	product code	notes	image	extended specification
C 04	Interior Cement Plaster & Concrete Walls	12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) acrylic paint.	All PRASA colours	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 (coastal external walls to be cavity walls) Refer to doc 3, drawing 603-A	Silvergrey TravertineFBX	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 I 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 Monor Trav /Letaba Travertine FBS	Corobrik	Limpopo Region only		Corobrik (Polokwane - Limpopo Province) 20 - 30 Mpa, Letaba Travertine / Country Monor 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.
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.

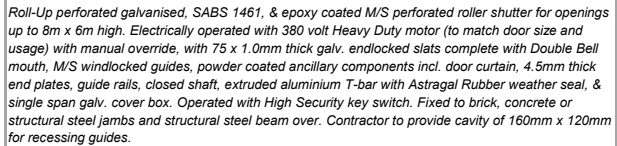
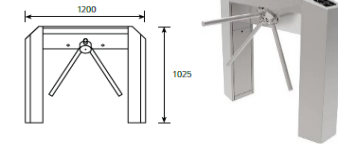
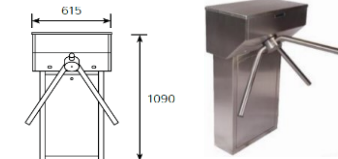
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C 12	Drywall	90mm fixed partition drywall partitioning	Painted with natural anodised aluminium frames		All interior drywall partitioning		Lafarge Gypsum or similar approved fixed partition drywall partitioning system with an overall thickness of 89mm 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 Rust 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.		
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 eual 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.

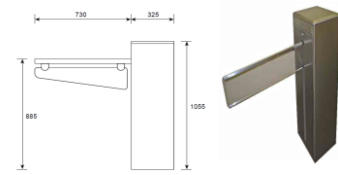
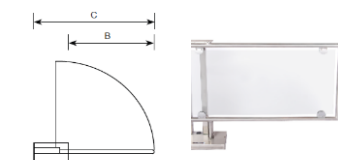
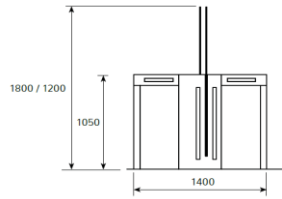
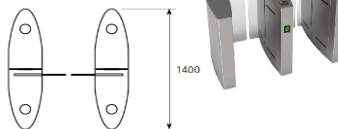
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D 05	Alu tile-in corner protector	Aluminium square edge trim for all tiled corners in main commuter or high traffic & back office areas. Selected halt & small stations.	Mill finish aluminium	TDF 104.81			Genesis or equal approved interior aluminium 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.
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.
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 (WVP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. ** All to be in compliance with heritage requirements.

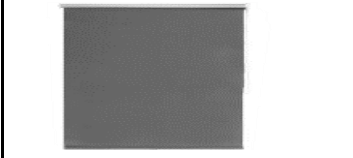
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*E 02	Existing External Timber sills	Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	Clear Varnish	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WVP 1), overcoated within 48 hours. Prime with one coat Plascon Woodcare Sunproof (PNW) or 50% thinned Dulux Double Life Timbervarnish with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof (PNW) or Dulux Woodgard Exterior Double Life Timbervarnish 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.
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		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. 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.

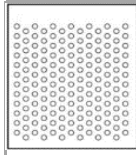
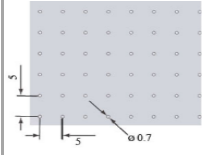
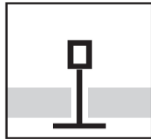
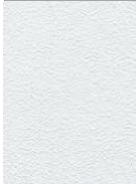
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F 02	Existing Internal Steel Door Frame Finish	Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.	PRASA Deep Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P05	All existing mild steel door frames		Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel (PSB 1000) with 16 hours drying time between coats.
F 03	New Steel Door External Frame Finish	New shop primed mild steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P11	All new mild steel door frames		Surface to be clean dry and rust free. Prime with one coat Plascon Metalcare Mild Steel Primer (UC 501) or Dulux Corrocote 1 (T1020) with an overcoating time of 16 hours and finish with two coats Plascon Professional Gloss Enamel (PSB 1000) or with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.
F 04	Alu Door Frame Finish	All new aluminium door frames to be natural anodised aluminium.	Natural Anodised Aluminium				
*F 05	Internal Timber Door Frame	Existing internal timber door frames to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	Clear Varnish	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats. ** All to be in compliance with heritage requirements.
*F 06	External Timber Door Frames	Existing external timber door frames to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	Clear Varnish	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat 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.
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.

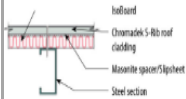
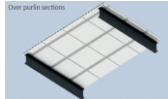
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F 09	External Anti-Bandit Door	Level G3 bullet resistant anti-bandit external door	Doors can be galvanised cladded and or be powder coated. See Prasa 2.1, Colour Spec Q01 for external doors	Austen Safes Mutual Safes National Safe Strong Hold Bitcon 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	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.
F12	Roller Shutters	Manual Push-up Roller Shutters, for openings not exceeding 2,0m x 3,0m high. Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839  	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda	NOTE: • 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.		Roll-Up Perforated galvanised, SABS 1461, & epoxy coated M/S manually operated push-up (or hand chain recommended for doors higher than 2,5m) roller shutter for maximum opening 2000 x 3000mm high with standard bottom rail, 75 x 0.8mm thick end-locked slats, 120mm extra-wide tamper proof guides, 4.5mm end plates, closed shaft and 2 x slidebolts, extruded with Aluminium T-bar & Astragal rubber weather seal. Including galv. cover box and powder coated components incl. door curtain, end plates, cover box, guides & T-bar. Door fixed to brick, concrete or structural steel jambs and concrete or steel lintel over. Contractor to provide cavity of 160mm x 120mm for recessing guides.
F13	Roller Shutters	Motorised Roller Shutters, for openings 6m² - 25m². Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839 	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda	• 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		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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
F 14	Roller Shutters	Motorised Roller Shutters, for openings larger than 25m². Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839 	Powder Coated "Matt Dark Umber Grey" ANP 3057	Maxidor Xpanda Serranda	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		Roll-Up perforated galvanised, SABS 1461, & epoxy coated M/S perforated roller shutter for openings up to 8m x 6m high. Electrically operated with 380 volt Heavy Duty motor (to match door size and usage) with manual override, with 75 x 1.0mm thick galv. endlocked slats complete with Double Bell mouth, M/S windlocked guides, powder coated ancillary components incl. door curtain, 4.5mm thick end plates, guide rails, closed shaft, extruded aluminium T-bar with Astragal Rubber weather seal, & single span galv. cover box. Operated with High Security key switch. Fixed to brick, concrete or structural steel jambs and structural steel beam over. Contractor to provide cavity of 160mm x 120mm for recessing guides.
F 15	Full Height Turnstiles	Electrical Industrial type full height turnstile with a gate for disabled people and as an emergency exit. Quantity as per requirement for specific stations	Stainless steel	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems Gate and Door	At Stations, Depot's and other sites where required 		Full height exterior turnstile with high volume access and high level of security. The turnstile must be a 3 arm 120degree single unit. The Rotor diameter to be 1200mm and arm thickness of 50mm diameter tube arms spaced 120mm apart. The system must be able to integrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and Mechanically controlled uni-directional rotation by means of key override and free rotation in the case of an emergency. The flat roof canopy to provide protection from the elements, Anti-climb protection and low energy light on underside of canopy. Finishes: 304 grade brushed stainless steel (Inland) and 316 grade brushed stainless steel (coastal). The turnstile must be with a bi-directional rotation System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 10 year mechanical guarantee. The turnstile must be fitted with a gate for disabled persons.
F 16	Waist Height Turnstiles	Electrical Industrial type waist height turnstile (Option 1)	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 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 integrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and mechanically controlled uni-directional rotation by means of key override and free rotation in 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.
F 17	Waist Height Turnstiles	Electrical Industrial type waist height turnstile (Option 2)	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 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 integrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Electrically controlled bi-directional rotation (factory standard) and mechanically controlled uni-directional rotation by means of key override and free rotation in 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.

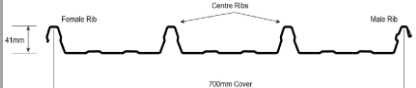
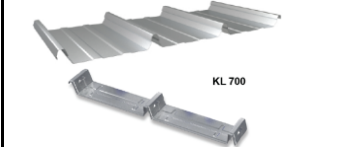
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F 18	Waist Height Droparm Barrier	Electrical Industrial type waist height Droparm (<i>Option 3</i>)	Stainless steel	AS ADVISED BY AN PRASA AGENT Alternate suppliers iMat Turnstar Time Dectective Centurion Systems Flow Systems Gate and Door	At stations and offices where required		Waist height interior Droparm with medium volume access and medium level of security. The turnstile to have a arm with a diameter of 38mm stainless steel with a polycarbonate skirt fixed underneath the tube arm. The system must be able to intergrate with all access control and time and attendance systems, proximity reader, biometric and or push button readers. Finish: 304 grade brushed stainless steel. System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 5 year mechanical guarantee.
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 relock. Finish: 304 grade brushed stainless steel. System certification to comply with ISO 9001:2015 and must comply also to CE conformity. Unit to have a 5 year mechanical guarantee.
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.
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 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 (WPP 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.

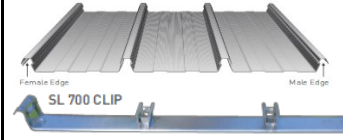
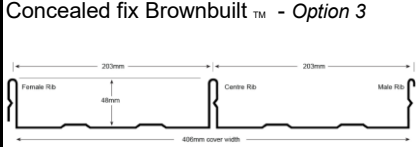
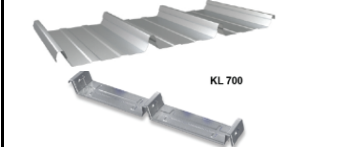
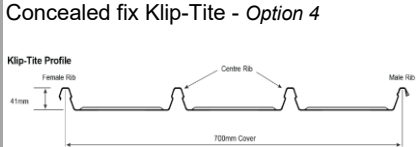
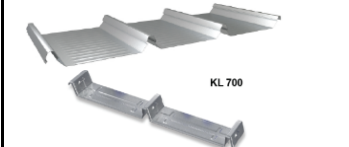
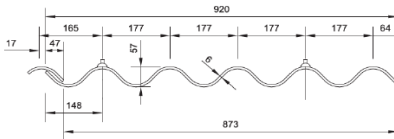
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G 03	Existing Steel Window Frame Finish	Existing steel window frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P11	All existing mild steel door frames		Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. 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.
G 04	Powder Coating Colour	General powder coating colour	Matt Dark Umber Grey	ANP 3057			
G 05	Sales Windows	Bullet Resistant Pay / Transaction Windows including sales windows with G3 rating		Austen Safes Mutual Safes National Safe Strong Hold Bitcon			Level G3 bullet resistant glazed & natural anodised aluminium transaction window with 30mm deep stainless steel dish tray and speech transfer posts (interior applications only), overall size to details, glazed in 38mm thick clear glass for small window (existing counters) and 52mm for large window with 32mm post formed granite counter top. Bullet resistant glass details to suppliers specification
G 06	Sales Windows	Roller Blind installed into the Ticket Sales window, lowered down indicates Ticket counter not in use currently	Dark Grey	Windowvert Aluglass Bautech Blind Designs Leroy Merlin Crawfords Ecolux			All blinds to be UV Resistant and with full Block - Out capability. Blinds to have a 2 year warranty

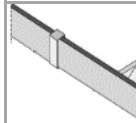
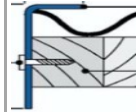
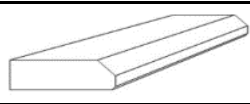
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H	Ceilings	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
H 01	Ceiling Tiles - Aluminum	600 x 600mm perforated lay-in powder coated aluminium ceiling tiles with acoustic backing laid on prepainted tees and adjustable hanger system. Hunter Douglas or EQUAL APPROVED	White	Micro perforation	all public areas - super core 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	600 x 600 x 0,5mm perforated lay-in powder coated metal tiles with acoustic backing laid on prepainted tees and adjustable hanger system. OWA Aetcta perforations or EQUAL APPROVED	White	Micro perforation	all public areas 		OWAetcta(R) Tegular Lay-in metal ceiling tiles with perforation type Rg0701, size 600 x 600 x 0,5mm thick including black Soundtex(R) acoustic fleece infill material bonded to tiles with four shallow tegular edges and OWA white powder coated finish laid on OWAconstruct, Cliq System S33 exposed demountable T24 tee suspension system including galvanised main tees and cross tees, all suspended with galvanised hangers at centres not exceeding 1200mm and all installed to manufacturer's specification. Ceiling perimeter to be finished with prepainted OWAconstruct Shadowline W-trim.
H 03	Ceiling Tiles - Acoustic	1200 x 600 x 15mm thick acoustic ceiling tiles laid on prepainted tees and adjustable hanger system. OWA Constellation or EQUALLY APPROVED	White	EQUALLY APPROVED	all office areas 		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.
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 overcoat

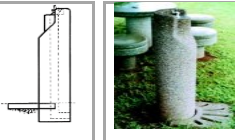
ref. code	description	specification	Colour	product code	notes	image	extended specification
H 07	Plaster & painted concrete soffit	15mm smooth plaster to underside of soffit & painted.	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P11	Smooth finish		Finish (1) 15mm smooth plaster finish (1) (1) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Pearligo Water Clean-Up (D40) with 4 hours drying time between coats.
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
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.					

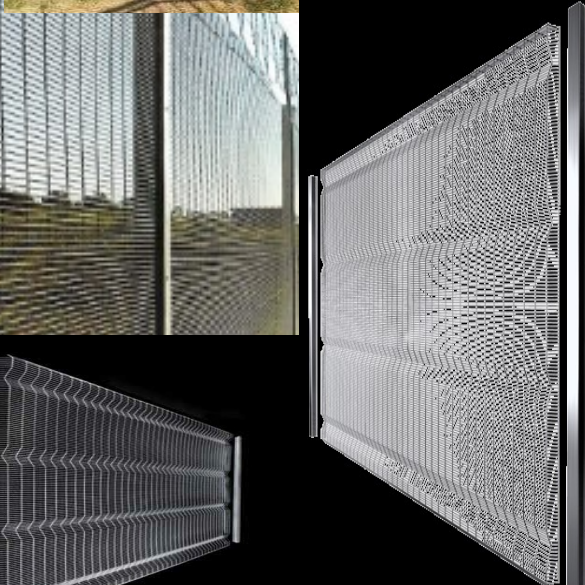
ref. code	description	specification	Colour	product code	notes	image	extended specification
I 02	New Coved Corince	New cornice to be prepared and painted with two coats of quality PVA to match existing.					
I 03	Existing Coved Corince	Existing coved cornices to be sanded down and repainted .					
I 04	New Scotia	New scotia to be preped and painted with two coats of quality PVA to match existing.					
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	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	

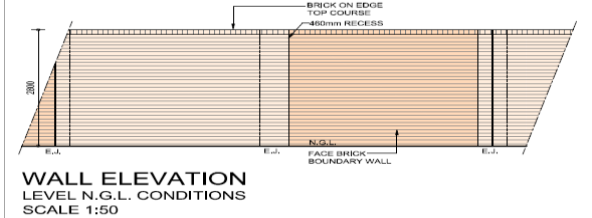
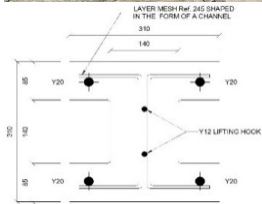
ref. code	description	specification	Colour	product code	notes	image	extended specification
J 05	Existing Balustrades <i>(not being replaced)</i>	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.	PRASA Dark Grey Blue	See Prasa 2.1 and 2.1a.Colour spec Section P, P02	All existing mild steel balustrades		Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocoat 1 (Code: T1020) with an overcoating time of 4 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.
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 or PRASA Deep Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P01and P05	All existing mild steel handrails		
J 07	Existing steel 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.
K 03	New Roof Sheeting - Inland areas	Concealed fix Klip-Lok 700 - Option 1 	Chromadek: Fish Eagle White or Kingfisher Blue	Colorbond: Silver White			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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
K 04	New Roof Sheeting - Coastal areas	Concealed fix Saflok 700 - Option 2 	ColourTech: Marble White	Powder Coated: Gloss Duct White ANP1052			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 or Kingfisher Blue	Colorbond: Silver White			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 or Kingfisher Blue	Colorbond: Silver White			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 Nutec 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.
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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
K 11	Gutters & Down-pipes	Galvanised gutters and down pipes - existing and new	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P10	Inland areas, all gutter & downpipe sizes to engineer's stormwater calculations		Prime with one coat Plascon Professional High Build Zinc Phosphate Primer (UC 170) with an overcoating time of 18 hours and finish with two coats Plascon Professional Brilliant White Gloss Enamel (PSB 1000) with 16 hours drying time between coats or Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocoat 1 (Code: T1020) with an overcoating time of 4 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.
K 12	Fascias	Fiber Cement or Magna Board Fascias	PRASA Blue	See Prasa 2.1 and 2.1a. Colour spec Section P, P01	For all roof bottom edges, painted to match roof colour		Everite Nutec or equal approved medium density plain ungrooved fascia boards, size 300 x 12mm thick, fixed to support battens between rafters screwed at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.
K 13	Barge-boards	Moulded Fiber Cement barge boards	PRASA Blue	See Prasa 2.1 and 2.1a. Colour spec Section P, P01	For all roof top & side edges, painted to match roof colour		Everite Nutec or equal approved moulded barge boards, size 330 x 250mm, fixed to trimmer purlin, with aluminium H-profile barge board joiners between boards and at roof apex.
K 14	Copings	All exposed parapet walls to receive precast concrete copings, painted as per spec.	PRASA Mid Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P04	Painted		Modcon Concrete Solutions precast concrete coping (Type: 010), overall size 295 x 50mm high, bedded and jointed in Class II mortar and pointed on all exposed faces. Painted as per spec doc.
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		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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
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.
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		
N 02	Security Barrier -Mesh Screening	High density security galvanised mesh fence with min 3.15mm horizontal wire diameter and 4mm vertical wire diameter. Panels: Apertures 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 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. Refer to doc 1.1. item 3.1.2 and 3.1.3	Black and or natural galvanising	Clearvu by Cochrane or equal approved	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 03	Face Brick, Brickwall	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. Refer to drawing 603-A Refer to doc 1.1, item 3.1.2 and 3.1.3	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	  WALL ELEVATION LEVEL N.G.L. CONDITIONS SCALE 1:50	
N 04	Precast concrete slab wall	Wall must be constructed with a steel core and to be min 130mm thick with a height of 4000mm above natural ground level. Concrete compressive strength to be a minimum of 35MPa per cube meter. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. The total wall and foundation to be as per engineer specifications and details. Wall must be certified by the engineer. Refer to doc 1.1, item 3.1.1	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	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	Concrete		PRASA Protection Services to be consulted on risk rating and fencing type assessment		
N 06	Concrete T- Wall	The T-Wall to be a height of 4000mm above natural ground level. Wall design, details and built to be according to Engineers specification and instruction Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of wall. All T-Walls to be certified by an Civil Engineer Refer to doc 1.1, item 3.1.1	Concrete		PRASA Protection Services to be consulted on risk rating and fencing type assessment		

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,3	General List of Lighting Specifications	Revision 09	2023/07/05	2012/12/05	PRASA Station Modernisation

GENERAL NOTES:

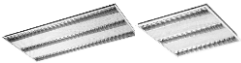
- This document is part of set of documents which form the internal high-level specification and guidelines document.
- It is to be read in conjunction with Layout drawings and Room Finishing Reference sheets, below codes to be used as reference
- Information and specifications in it are subject to change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



ref. code	description	specification	Colour	product code	notes and images	extended specification
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L Lighting Specification All items alternatives to be "equal approved" to be endorsed by PRASA PMU: Design and Space planning

- * Lighting design to be in accordance with Electrical Engineer's designs & specifications to achieve require lux levels as per 2.3a
- * All lux levels to be in accordance with SABS & PRASA standards, see 2.3 a
- * Key considerations for lighting designs: Energy efficiency, economic viability & low maintenance, easy accessible installations
- * Light fittings can be substituted, subject to approval from PRASA.
- * **Preference is to be given to LED Technology**

L 01	Concourses (All stations), public access and circulation areas	1200x600mm & 600x600mm Surface mounted LED lighting for concrete Ceilings - max Height 4000mm.	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Fully recessed panel LED luminaire with Acrylic Opal diffuser and body manufactured from Polycarbonate. Output to be min 36W with 3600l for the 600x600mm fitting and 70W with 7200l for the 1200x600mm fitting, 4000K - 6000K and CRI of 80 plus. Fittings to comply with SANS 60598 codes and or CE and RoHS certification with an min IP22 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Philips, Helvar or Tridonic with 10KA surge protection. A LOA (Letter of Authority) and IEC certificate to accompany the product
L 02	Office Lighting - office work areas	Conventional 1200x600mm & 600x600mm Recessed Lighting for Suspended Ceilings	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Fully recessed low brightness luminaire with double parabolic louvre's. Output to be min 3x23W T5 lamps for 1200x600mm and 3x14W T5 for 600x600mm fittings. Colour to be white epoxy coated within exposed suspended T - ceiling grid. Fittings to comply with SANS 60598-2-1 and bear the SANS mark. An IP20 rating is required.

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 03	Office Lighting - office work areas	1200x600 & 600x600mm recessed flat panel LED lighting for Suspended ceiling	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Fully recessed panel LED luminaire with Acrylic Opal diffuser and body manufactured from Polycarbonate. Output to be min 36W with 3600lm for the 600x600mm fitting and 70W with 7200lm for the 1200x600mm fitting, 4000K - 6000K and CRI of 80 plus. Fittings to comply with SANS 60598 codes and or CE and ROHS certification with an min IP22 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 04	Office & general lighting	Retrofit to LED on existing Conventional 1200x600mm & 600x600mm for both recessed and surface mounted fittings. From e-Solar Manufactures, NVC and GL Lighting	White	e-Solar PT8-600/4000K & PT8 - 1200/4000K NVC LED T8ED 18W & LED TED 9W		Change existing T8 linear fluorescent lamps to T8 LED Platinum Tube lamps, fitting into linear fluorescent fixtures. 1200mm lamp tubes to be 18W, 4000K, 1900lm and CRI of 80 plus. 600mm lamp tubes to be 9W, 4000K, 1900lm and CRI of 80 plus. Tube to be BLUE LIGHT certified
L 05	Office lighting - public access, passages, reception areas, meeting rooms, foyers and circulation areas	Fully recessed LED Downlighter Luminaires - used as general and accent lighting with dimming control	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Fully recessed downlighter luminaire with pressed metal ceiling trim, reflector, ceiling brackets and reinforced luminaire frame. Spring steel fixing brackets for ceiling mount. Reflector to be made from pure aluminium. Output to be min 12W, 4000K, 1000lm and CRI of 80 plus for typical softer area usage and 22W, 4000K, 1900lm and CRI of 80 plus for typical more intense lit areas. Fittings to comply and bear the SANS 60598-2-1 Safety Mark with an IP20 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the
L 06	Office lighting - public access, passages, pause areas and ablutions	Fully recessed LED Downlighter Luminaires - used as general and accent lighting (option 1)	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Fully recessed downlighter luminaire made from high grade die-cast aluminium and a specular reflector with passive heat sink. Output to be min 10W, 4000K, 700lm plus and CRI of 80 plus. Fittings to comply with the SANS 60598 codes and or CE and ROHS certification with an IP20 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 07	Office lighting - public access, passages, pause areas and ablutions	Fully recessed LED Flat Downlighter Luminaires - used as general and accent lighting <i>(option 2)</i>	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PloLed, Flash, LEDRSA, eLighting,		Fully recessed downlighter luminaire made from high grade die- cast aluminium and a specular reflector with passive heat sink. Output to be min 9W,4000K, 800lm plus and CRI of 80 plus.Fittings to comply with the SANS 60598 codes and or CEand ROhs certification with an IP44 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 08	Open channel fittings for store rooms, warehousing, workshops, general or canopy lighting	Conventional 1200mm Open Channel luminaire, for surface mounted fittings	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PloLed, Flash, LEDRSA, eLighting,		The luminaire body and cover made from a 0,8mm powder coated mild / rolled steel, colour white. The cover shall be attached to the main body. Electronic gear to be used as a standard. Electronic ballast to be integral to luminaire. Output to be min 2x54w lamps with 5000l per lamp and 1x54W. Fittings to comply and bear SANS 60598 - 2 - 3 Safety Mark The lamp holders to be IP65 rating.
L 09	<i>(Intermediate, Core and Super Core stations)</i> - public access, passages and ablutions	Fully recessed LED Flat Downlighter Luminaires - used as general and accent lighting	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PloLed, Flash, LEDRSA, eLighting,		Fully recessed downlighter luminaire made from high grade die- cast aluminium and a specular reflector with passive heat sink. Output to be min 9W,4000K, 800lm plus and CRI of 80 plus.Fittings to comply with the SANS 60598 codes and or CEand ROhs certification with an IP44 rating. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 10	Vandal resistant lighting for, concourses (Small & Intermediate stations) subways, platform canopies, bridges, parking areas, walkways and	Surface mounted fluorescent lighting application in areas where higher security is required. Wireguard to be an option <i>(option 1)</i>	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PloLed, Flash, LEDRSA, eLighting,		Surface / suspended mounted luminaire made from a injection moulded flame retardant polycarbonate housing and with a polycarbonate prismatic diffuser.The diffuser to be secured to body wit hat least x6 tamper proof screws. All loose parts to be non corrosive. The electronic gear to be accessible for maintenance and positioned in such a way.Output to be min 2x28W T5 lamps for 1300x150mm and 1x28W T5 for 700x150mm fittings. Lamps to be 2900l per lamp. Fittings to comply and bear the SANS 60598-2-1 Safety Mark with an IP65 rating for both lamp and gear compartments.Fitting to have an option to be fitted with wireguard.

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 11	Vandal resistant lighting for, concourses (Small & Intermediate stations) subways, platform canopies, bridges, parking areas, walkways and ablutions. Ideal height 2,4 to	Surface / suspended mounted LED lighting application in areas where higher security is required. Wireguard to be an option (option 2)* Preference is to be given to LED Technology	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Surface / suspended mounted luminaire made from a injection moulded flame retardant polycarbonate housing and with a polycarbonate prismatic diffuser. The diffuser to be secured to body wit hat least x6 tamper proof screws. All loose parts to be non corrosive. The electronic gear to be accessible for maintenance and positioned in such a way. Output to be min 50W LED line for - plus minus - 1200x150mm fittings with 6000lm. Fittings to comply with SANS 60598 codes and or CE and ROHs with an IP65 rating for both LED line and gear compartments. Fitting to have an option to be fitted with wireguard. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 12	Utility luminaires, free standing structures on platforms, parking areas and walkways	Highcorrosion resistant surface mount LED luminaire. Wireguard to be an option in more high security risk areas	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Surface mounted luminaire consisting from a die cast aluminium body and high impact acrylic difusser. The geartray is made from galvanised and passivated steel and powder coated. Output to be min 18W with 2400lm, 4000K and CRI of 70 plus. Fittings to comply with the SANS 60598 codes and or CE and ROhS certification with an IP65 rating for the lamp compartement. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 13	Bulkhead and wall luminaires (Small, Intermediate, Core and Super Core stations)	LED Bulkhead and wall mounted effect lighting	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting,		Surface mounted luminaire consisting from a die cast aluminium base and trim ring with a high impact opal acrylic difusser. Control gear is mounted in base. Both the base and trim ring to be powder coated. Size: plus minus 280mm diameter. Output to be min 20W with 2000lm, 4000K and CRI of 80 plus. Fittings to comply with SANS 60598 codes and or CE and ROhS certification, with an IP65 rating for the lamp compartement. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 14	Under-Concourse Lighting (Intermediate, Core and Super Core stations)	Surface and recessed mounted low bay LED luminaire	white / stainless steel	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA, eLighting.		Both the surface and recessed mounted LED lowbay luminaire housing is manufactured from stainless steel and epoxied coated. Protector to be from high-impact clear flat glass or Polycarbonate as optional. Easy installation must be external mounting lugs and hingeable function. Output to be from 90W - 144W pending roof height. Lumen variance from 11000 - 17000l pending wattage. 4000K and CRI of 70 plus. Fittings to comply with SANS 60598 code and or CE and ROHS certification. IP66 rating for both lamp and gear tightness. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection. A LOA (Letter of Authority) and IEC certificate to accompany the product
L 15	Strip Light and Alcove	Waterproof LED strip light	white or blue	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA,		Energy-saving LED Strip light, code: NLL-S18/W or NLL-S18/B, with a transparent PVC body, 72pcs/m, 4.8 W/m, heat and cold resistant with white or blue 72 LEDs / m in 1,5m unit lengths and life span of 50000-100000 hours. Fitting to be BLUE LIGHT certified.
L 16	Area, urban, pedestrian and bike path zones and narrow road lighting	LED Post Top Luminaire 3 - 6 meter mounting height	White with charcoal post	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA,		LED post top luminaire manufactured from powder coated die - cast aluminium base and gear plate and high impact acrylic protector. Output to be from 36W pending post height. Lumen variance from 4000lm plus. 4000K and CRI of 70 plus. Fittings to comply with SANS 60598 codes and or CE and ROHS certification. IP66 rating for both lamp and gear tightness. Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection. A LOA (Letter of Authority) and IEC certificate to accompany the product
L 17	Post Top Light	LED Flood Light / Post Top Luminaire 6 - 10 meter mounting height		Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting, PioLed, Flash, LEDRSA,		Flood LED luminaire manufactured from high pressure unpainted die - cast aluminium housing complying with SANS 60588 -5. Both LED engine and power supply compartments to comply with IP 66 rating. Protector to be from high-impact clear flat glass or high impact acrylic. Output to be from 50W to height of 6meters. Lumen variance from 6800l. 4000K and CRI of 70 plus. Fittings to comply to SANS 60598 codes and or CE and ROHS certifications. Use spigot adaptors on existing poles. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection. A LOA (Letter of Authority) and IEC certificate to accompany the product

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 18	Masts, Façade, area, security and general lighting	LED Flood Light, height up to 15 and 30 meters, only to be used for downward lighting		Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, QL Lighting, PloLed, Flash, LEDRSA, eLighting,		Flood LED luminaire manufactured from high pressure unpainted die - cast aluminium housing complying with SANS 60588 -S. Both LED engine and power supply compartments to comply with IP 66 rating. Protector to be from high-impact clear flat glass or high impact acrylic. Output to be from 144W to height of 15meters, and 300W to height of 30meters. Lumen variance from 16000l to 32000l for 30meter height. 4000K and CRI of 70 plus. Fittings to comply to SANS 60598 and or CE and ROHS certifications . Use spigot adaptors on existing poles Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 19	Lighting Poles - Low height (OPTION 1)	3 to 6 meter mounting height	Galvanised mild steel	Regent Lighting Solutions, Falcus, Sectional Poles,		Poles to comply with SABS 0225 and hot dipped galvanised by a SABS approved galvaniser. Hot dipped galvanising to SABS ISO 1461. Steel to be Grade S 335 to SANS 657/ 1 & 3 specification. Mounting according to manufactures specification. Pole can be hinged or winched. Galvanised mild steel can be replaced with 3CR12 pending in coastal environments
L 20	Lighting Poles - Low height (OPTION 2)	3 to 6 meter mounting height	Glass Fibre - reinforced Polyester (GRP) - Fibreglass	Regent Lighting Solutions, Falcus, Sectional Poles, Bekla,		The poles are made of unsaturated polyester resins and reinforced by fiberglass rovings, mats or fabrics. A minimum of a mass glass to resin ration of 70:30 must be applied. Poles to be manufactured in accordance with SANS 1749 under the ISO 9002 quality system. All poles must have the option for earthing wires. Installation according to supplier. Pole can be hinged or winched
L 21	Lighting Poles - Low height (OPTION 3)	3 to 6 meter mounting height	Concrete	Colossal Concrete Products, Rocla		The high density concrete to have smooth finishes resistant to the elements. Concrete to be prestressed with min crushing strength of 60MPa. Conduits to be cast within the middle of the pole. All poles must have the option for earthing wires. Poles to comply with SABS 470
L 22	Lighting Poles - Medium height (OPTION 1)	6 to 10 meter mounting height	Galvanised mild steel	Regent Lighting Solutions, Falcus, Sectional Poles		Poles to comply with SABS 0225 and hot dipped galvanised by a SABS approved galvaniser. Hot dipped galvanising to SABS ISO 1461. Steel to be Grade S 335 to SANS 657/ 1 & 3 specification. Mounting according to manufactures specification. Pole can be hinged or winched. Galvanised mild steel can be replaced with 3CR12 pending in coastal environments

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 23	Lighting Poles - Medium height (OPTION 2)	6 to 10 meter mounting height	Glass Fibre - reinforced Polyester (GRP) - Fibreglass	Regent Lighting Solutions, Falcus, Sectional Poles, Beka		<i>The poles are made of unsaturated polyester resins and reinforced by fiberglass rovings, mats or fabrics. A minimum of a mass glass to resin ration of 70:30 must be applied. Poles to be manufactured in accordance with SANS 1749 under the ISO 9002 quality system. All poles must have the option for earthing wires. Installation according to supplier. Pole can be hinged or winched</i>
L 24	Lighting Poles - Medium height (OPTION 3)	6 to 10 meter mounting height	Concrete	Colossal Concrete Products, Rocla		<i>The high density concrete to have smooth finishes resistant to the elements. Concrete to be prestressed with min crushing strength of 60MPa. Conduits to be cast within the middle of the pole. All poles must have the option for earthing wires. Poles to comply with SABS 470</i>
L 25	Swivel Mast Light - see L18 for luminaire fitting	10 to 30 meter mounting height	Galvanised	Structa (Bowmast), Sectional Poles, ENDD Lighting and Structural		<i>10m- 30m high hot dipped galvanised steel mast light fitting with mid-height hinge fixing, complete with luminaire mounting assembly carrying the specified number of LED luminaires. Hot dipped galvanising to SABS ISO 1461. All masts to be designed to comply to SABS 10160:1989. The mast shall be designed in accordance with SANS 0225 and manufactured by an ISO 9001: 2008 accredited company and the installation of the mast is to be certified by a professional engineer registered with the Engineering Council of South Africa.</i>
L 26	Lighting pole with Solar panel and light (OPTION 1)	3 meter mounting height	Poles: Galvanised / Concrete / Glass fibre	Solar Streetlights Africa, Sinetech, Schneider Electric, Beka	 Multi Directional Solar Array Note: ground level to top of Solar panel for reference only (80 and 100 meters)	<i>Min 30 Watt Led Solar street light with 3200 lumens. Battery backup to be of Lithium type with 12hrs runtime per night and a minimum of 3 days full backup power. Battery life to be min 2000 to 3000 cycles. Min 120 Watt solar panel with solar charger with built in LED driver and SMART power. Battery charging to be 4 hours to min 80%. Fitting to have dimming fuctions of 100 / 70 / 50 / 30% with a day night sensor. All fittings to be min IP66 rated. Above guidelines to be confirmed by specialist or adapted to specialist specifications</i>
L 27	Lighting pole with Solar panel and light (OPTION 2)	6 meter mounting height	Poles: Galvanised / Concrete / Glass fibre	Solar Streetlights Africa, Sinetech, Schneider Electric, Beka		<i>Min 40 Watt Led Solar street light with 6400 lumens. Battery backup to be of Lithium type with 12hrs runtime per night and a minimum of 3 days full backup power. Battery life to be min 2000 to 3000 cycles. Min 150 Watt solar panel with solar charger with built in LED driver and SMART power. Battery charging to be 4 hours to min 80%. Fitting to have dimming fuctions of 100 / 70 / 50 / 30% with a day night sensor. All fittings to be min IP65 rated. Above guidelines to be confirmed by specialist or adapted to specialist specifications</i>
L 28	Lighting pole with Solar panel and light (OPTION 3)	8 meter mounting height	Poles: Galvanised / Concrete / Glass fibre	Solar Streetlights Africa, Sinetech, Schneider Electric, Beka		<i>Min 60 Watt Led Solar street light with 9600 lumens. Battery backup to be of Lithium type with 12hrs runtime per night and a minimum of 3 days full backup power. Battery life to be min 2000 to 3000 cycles. Min 270 Watt solar panel with solar charger with built in LED driver and SMART power. Battery charging to be 4 hours to min 80%. Fitting to have dimming fuctions of 100 / 70 / 50 / 30% with a day night sensor. All fittings to be min IP65 rated. Above guidelines to be confirmed by specialist or adapted to specialist specifications</i>

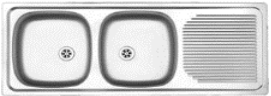
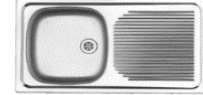
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2,4	General List of Sanitary Fittings & Specifications	Revision 13	2021/10/28	2012/11/05	PRASA Station Modernisation

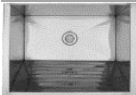
GENERAL NOTES:

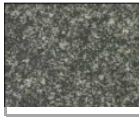
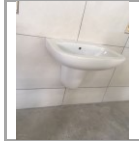
- This document is part of set of documents which form the internal high-level specification and guidelines document.
- It is to be read in conjunction with Layout drawings and Room Finishing Reference sheets, below codes to be used as reference
- Information and specifications in it are subject to change 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
- **Vandal resistant fittings to be installed in stations with an high risk of vandalism - Project Managers to advise (Prasa Protection Services to be consulted on risk rating)**
- *All specifications with an asterix (*) is applicable to heritage sites only

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



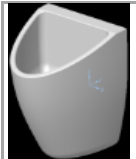
ref. code	description	specification	Colour	product code	notes	image	extended specification
S	Sinks	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
S 01	Double Bowl Sink	Double Kitchen Sinks	Stainless Steel	821048			Franke Projectline Model PLN621 Grade 304 18/10 polished stainless steel double end bowl inset sink (Code: 821048), overall size 1160 x 460mm wide with two 340 x 370 x 152mm deep bowls, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC traps (traps elsewhere specified).
S 02	Double Bowl Sink	Double Kitchen Sinks	Stainless Steel	SSO-1200-DE			KWIKOT Double bowls stainless steel double end bowl inset sink, overall size 1200 x 535mm wide with two 340 x 370 x 150mm deep bowls, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC traps (traps elsewhere specified).
S 03	Single Bowl Sink	Small Kitchens / Kitchennette Sinks	Stainless Steel	821047			Franke Projectline Model PLN611 Grade 304 18/10 polished stainless steel single end bowl inset sink (Code: 821047), overall size 800 x 460mm wide with one 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC trap (trap elsewhere specified).
S 04	Double Bowl Sink	Double Kitchen Sinks	Stainless Steel	SSO-900-SE			KWIKOT Single bowl stainless steel double end bowl inset sink, overall size 900 x 535mm wide with two 340 x 370 x 150mm deep bowls, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC traps (traps elsewhere specified).
S 05	Drip Sink	Stainless Steel Slop hopper / Drip Sink	Stainless Steel	350960	Cleaners Store		Franke 0,9mm Grade 304 18/10 stainless steel LDS drip sink (code: 350960) or equal approved, size 600 x 500 x 258mm deep with pressed drip sink bowl, 40mm waste outlet connected to Cobra chromium plated bottle trap (code: 345/40), hinged bucket grid fitted over drip sink, connected to 15mm water supply, fixed to wall on pair of stainless steel Eagle brackets and bolted to wall with 4 No. anchor bolts 600mm from finished floor level.
S 06	Double Bowl WT	Double Wash Trough	Stainless Steel	320200			Franke 0,8mm Grade 430 17/0 stainless steel ET102 fabricated single wash trough (code: 320200), size 1030 x 430 x 300mm deep with two bowls, wash ridges and 40mm waste outlet, fixed to wall with fixing lugs and anchor bolts.

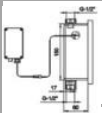
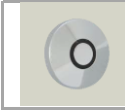
ref. code	description	specification	Colour	product code	notes	image	extended specification
S 07	Double Bowl WT	Double Wash Trough	Stainless Steel	SDWT-EC			KWIKOT Grade 430 17/0 stainless steel double wash trough, size 1030 x 435x 290mm deep with two bowls, wash ridges and 40mm waste outlet, fixed to wall with fixing lugs and anchor bolts.
S 08	Double Bowl WT	Double Wash Trough	Stainless Steel	320200			Franke or equal approved 0,8mm Grade 430 17/0 stainless steel ET102 fabricated single wash trough (code: 320200), size 550x 430 x 300mm deep with two bowls, wash ridges and 40mm waste outlet, fixed to wall with fixing lugs and anchor bolts.
S 09	Double Bowl WT	Double Wash Trough	Stainless Steel	SWT-SC			KWIKOT Grade 430 17/0 stainless steel single wash trough, size 545 x 435x 290mm deep with two bowls, wash ridges and 40mm waste outlet, fixed to wall with fixing lugs and anchor bolts.

ref. code	description	specification	Colour	product code	notes	image	extended specification
T	WHBs	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
T 01	Public Ablutions - preferred option	Sloped Rustenburg Granite Slab basin to details document (option 1)			All public ablutions - preferred option		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11. See drawing 650 - G & 650 - H
T 02	Public Ablutions	Whyte House wall mounted basin with wall mounted push on demand tap - Vandal resistant (option 2)	white	030337 / 029799	Where a Slab basin is not feasible		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11.
T 03	Public Ablutions	Gypsy Waterborne Wash Hand Basin wall mounted push on demand tap - Vandal resistant (option 3)	white	GYP/VA. R1/02	Where a Slab basin is not feasible		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11.
T 04	Para-plegic whb	Vaal "Hibiscus" wall mounted basin with one taphole & Universal half pedestal (option 1)	white	702303 / 715222	Paraplegic Toilets		Vaal Sanitaryware Hibiscus vitreous china lavatory basin colour White (Code: 7023), size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts (Code: 844820) and including Universal half pedestal with hanger springs (Code: 715221) and sealed with silicone sealant where basin meets wall. To be used in conjunction with paraplegic tap V07 as specified.
T 05	Para-plegic whb	Betta Mirage basin wall hung with half pedestal wall mounted (option 2)	white	YBMI008A basin PB0508A pedestal half	Paraplegic Toilets		Betta Mirage basin wall hung with half pedestal wall mounted, vitreous china, installation as per manufactures specification. Certified plumber recommended. 3 prepunched tap holes for customer preference. SABS and ISO certified. (basin Weight 16.83kg - width 605mm - length 475mm) (Half pedestal Weight 9.8kg - width 240mm - height 385mm). 10 year warranty on the ceramic.
T 06	Para-plegic whb	Whyte House wall mounted basin with wall mounted push on demand tap - Vandal resistant (option 3)	white	030337 / 029799	Paraplegic Toilets		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11.
T 07	Para-plegic whb	Gypsy Waterborne Wash Hand Basin with wall mounted push on demand tap - Vandal resistant (option 4)	white	GYP/VA. R1/02	Paraplegic Toilets		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11.
T 08	Baby changing room	Vaal "Iceberg" drop-in vanity basin. (option 1)	white	703400	Baby Changing Room		Vaal Sanitaryware Iceberg vitreous china drop-in vanity basin colour White (Code: 7034), size 420 x 420mm fitted into opening in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with push on demand tap as specified V16-V20

ref. code	description	specification	Colour	product code	notes	image	extended specification
T 09	Baby changing room	Betta Eclipse vanity drop-in basin (option 2)	white	NWX108A	Baby Changing Room		Betta Eclipse drop-in basin, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. Three Prepunched tap holes for customer preference. SABS and ISO certified. Weight 10kg - width 505mm - length 445mm. 10 year warranty on the ceramic.
T10	Baby changing room	Whyte House drop-in vanity basin with push on demand tap - Vandal resistant (option 3)	white	019835	Baby Changing Room		Basin fitted in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with push on demand tap as specified V16-V20
T 11	Baby changing room	GYPSY drop-in vanity basin with push on demand tap - Vandal resistant (option 4)	white	GYP/VA. R1/04	Baby Changing Room		Basin fitted in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with push on demand tap as specified V16-V20
T 12	Staff Ablutions	Vaal "Iceberg" drop-in vanity basin. (option 1)	white	703400	Staff Ablutions		Vaal Sanitaryware Iceberg vitreous china drop-in vanity basin colour White (Code: 7034), size 420 x 420mm fitted into opening in granite vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. To be used in conjunction with wall mounted push on demand tap as specified V05-V06.
T 13	Staff Ablutions	Betta Eclipse vanity drop-in basin (option 2)	white	NWX108A	Staff Ablutions		Betta Eclipse drop-in basin, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. Three Prepunched tap holes for customer preference. SABS and ISO certified. Weight 10kg - width 505mm - length 445mm. 10 year warranty on the ceramic.
T 14	Staff Ablutions	Vaal "Hibiscus" basin with one taphole & pedestal (option 3)	white	702303 / 715000	Staff Toilets where vanity is not feasible		Vaal Sanitaryware Hibiscus vitreous china lavatory basin colour White (Code: 7023), size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts (Code: 8448Z0) and including Classic floor mounted pedestal (Code: 7150) and sealed with silicone sealant where basin meets wall. To be used in conjunction with cold water or mixer taps as specified, V08-V11.
T 15	Staff Ablutions	Betta Courier delux basin wall hung with universal pedestal (option 4)	white	WBDC020 8A basin PHX108A full pedestal	Staff Toilets where vanity is not feasible		Betta Courier delux basin wall hung with universal pedestal, vitreous china, installation as per manufactures specification. Certified plumber recommended. 3 prepunched tap holes for customer preference. SABS and ISO certified. (basin Weight 13.8kg - width 555mm - length 425mm) (Universal full pedestal Weight 9.8kg - width 175mm - height 630mm). 10 year warranty on the ceramic.
T 16	Staff Ablutions	Vaal "Hibiscus" wall mounted basin with one taphole & Universal half pedestal (option 5)	white	702303 / 715222	Staff Toilets where vanity is not feasible		Vaal Sanitaryware Hibiscus vitreous china lavatory basin colour White (Code: 7023), size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts (Code: 8448Z0) and including Universal half pedestal with hanger springs (Code: 715221) and sealed with silicone sealant where basin meets wall. To be used in conjunction with paraplegic tap V07 as specified.
T 17	Staff Ablutions	Betta Consul basin wall hung with half pedestal wall mounted (option 6)	white	WC0408A basin PB0508A pedestal half	Staff Toilets where vanity is not feasible		Betta Consul basin wall hung with half pedestal wall mounted, vitreous china, installation as per manufactures specification. Certified plumber recommended. 3 prepunched tap holes for customer preference. SABS and ISO certified. (basin Weight 15kg - width 575mm - length 490mm) (half pedestal Weight 9.8kg - width 240mm - height 385mm). 10 year warranty on the ceramic.

ref. code	description	specification	Colour	product code	notes	image	extended specification
T 18	Staff Ablutions	Vaal "Bantam" cloakroom basin with one taphole & pedestal <i>(option 7)</i>	white	703003	Staff Toilets -small toilet cubicles		Vaal Sanitaryware Bantam vitreous china cloakroom basin colour White (Code: 7030), size 455 x 290mm with one taphole (LHS) including integrated overflow and chainstay hole bolted to wall with two 10mm bolts (Code: 8448Z0) and sealed with silicone sealant where basin meets wall. To be used in conjunction with cold water or mixer taps as specified, V08-V11.
T 19	Staff Ablutions	Betta Flair cloakroom basin <i>(option 8)</i>	white	WF0208A	Staff Toilets -small toilet cubicles		Betta Flair cloakroom basin, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. Two Prepunched tap holes for customer preference. SABS and ISO certified. Weight 6.8kg - width 465mm - length 290mm. 10 year warranty on the ceramic.
T 20	Holding Cells	Whyte House Security Wash Hand Basin <i>(option 1)</i>	white	029798	Holding Cells		Whyte House or equal approved Security basin, Code 029798.
T 21	Holding Cells	Gypsy Waterborne Wash Hand Basin with wall mounted push on demand tap - Vandal resistant <i>(option 2)</i>	white	GYP/VA. R1/02	Holding Cells		Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11.
U	Urinals	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
U 01	Staff Urinals	Vaal "Sweetpea" wall mounted urinal with back inlet with automatic flush sensors or manual flush valve <i>(option 1)</i>	white	705127	Staff Toilets		Vaal Sanitaryware 565 x 275 x 310mm Sweetpea white vitreous china wall mounted back inlet urinal (code: 705127) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated back inlet spreader (code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (code: 8127Z0).
U 02	Staff Urinals	Betta Louis wall mounted top inlet Urinal <i>(option 2)</i>	white	UL0108A	Staff Toilets		Betta Louis wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Weight 9kg - width 300mm - length 460mm. 10 year warranty on the ceramic.
U 03	Staff Urinals	Vaal "Lavatera" wall mounted urinal with back inlet or top inlet with automatic flush sensors or manual flash valve <i>(option 3)</i>	white	705326	Staff Toilets		Vaal Sanitaryware Lavatera white vitreous china wall mounted urinal with top inlet (code 705426) or back inlet (code 7054Z1). Overall size 600x385x380mm. Supplied with 38mm c.p. domical grating, a spreader(with a 20mm tread) and two hanger brackets
U 04	Staff Urinals	Betta Ben flat back wall mounted top inlet Urinal <i>(option 4)</i>	white	UA0108A	Staff Toilets		Betta Ben flat back wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Weight 13.2kg - width 330mm - length 530mm. 10 year warranty on the ceramic.

ref. code	description	specification	Colour	product code	notes	image	extended specification
U 05	Staff Urinals	Betta Oceano wall mounted top inlet Urinal (option 5)	white	YBUO0301 6A	Public Ablutions		Betta Oceano wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. 10 year warranty on the ceramic.
U 06	Public Urinals	Vaal "Sweetpea" wall mounted urinal with back inlet with automatic flush sensors or manual flush valve (at least one urinal to be installed at lowered height for kids) (option 1)	white	705127	Pubic Ablutions		Vaal Sanitaryware 565 x 275 x 310mm Sweetpea white vitreous china wall mounted back inlet urinal (code: 705127) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated back inlet spreader (code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (code: 8127Z0).
U 07	Public Urinals	Betta Louis wall mounted top inlet Urinal (at least one urinal to be installed at lowered height for kids) (option 2)	white	UL0108A	Staff Toilets		Betta Louis wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Weight 9kg - width 300mm - length 460mm. 10 year warranty on the ceramic.
U 08	Public Urinals	Whyte House Vandal Resistant Urinal with automatic flush sensors or manual flush valve (at least one urinal to be installed at lowered height for kids) (option 3)	white	029800	Public Ablutions		Wall mounted back inlet vandal resistant urinal including back inlet spreader, flush valve, flush pipe and fittings (by others), installed as per supplier details.
U 09	Public Urinals	Gypsy Waterborne Vandal Resistant Urinal with automatic flush sensors or manual valve (at least one urinal to be installed at lowered height for kids) (option 4)	white	GYP/VA. R1/03	Public Ablutions & Holding Cells		Wall mounted back inlet vandal resistant urinal including back inlet spreader, flush valve, flush pipe and fittings (by others), installed as per supplier details.
V	Taps & Flush Valves	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
V 01	Concealed Urinal Flush Valve	Concealed vandal resistant push-button urinal flush valve with sleeve	chrome	155UWS	Public & Staff Ablution Facilities		WALCRO 155 UWS or equal approved 15mm Ø BSP built-in sleeve, DZR brass urinal flush valve with internal flow control, strainer and no-hold feature for single bowl urinal.
V 02	Concealed Urinal Flush Valve	Concealed push-button urinal flush valve with wall plate	chrome	155UW	Public & Staff Ablution Facilities		WALCRO 155 UW or equal approved 15mm Ø BSP built-in sleeve, DZR brass urinal flush valve with internal flow control, strainer and no-hold feature for single bowl urinal.

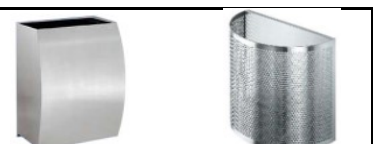
ref. code	description	specification	Colour	product code	notes	image	extended specification
V 03	Concealed <u>Urinal</u> Flush Valve	Concealed vandal resistant push-button urinal flush valve with wall plate		KM2.301	Public & Staff Ablution Facilities		COBRA KM2.302 or equal approved. Concealed metering valve with self closing and non hold open feature with flow controller. Flow cycle can be adjusted from 1 - 20 seconds. SANS 1808 - 9
V 04	Automatic <u>Urinal</u> Flush Valve	Concealed vandal resistant automatic urinal flush valve with infrared sensor (option 1)	chrome	4420/CH	Public & Staff Ablution Facilities		ISCA or equal approved chrome plated electronic internal urinal flusher (code: 4420/CH) with infrared sensor and solenoid valve connected to 9V DC.
V 05	Automatic <u>Urinal</u> Flush Valve	Concealed vandal resistant automatic urinal flush valve with infrared sensor		EL-8.112	Public & Staff Ablution Facilities		Cobra Watertech Cobratron or equal approved 15mm chrome plated touch free electronic control dual flush control (Code: EL-8.112) with adjustable sensor range, adjustable flushing time with 24 hour autoflush option, connected to internal 9V lithium battery pack.
V 06	Concealed <u>WC</u> Flush Valve	Concealed vandal resistant push-button toilet flush valve	chrome	106C	Public & Staff Ablution Facilities		WALCRO or equal approved 25mm Ø BSP concealed DZR brass toilet flush valve with VR push-button and concealed flush pipes (code: 106C).
V 07	Concealed <u>WC</u> Flush Valve	Concealed vandal resistant push-button toilet flush valve	chrome	37 609	Staff Ablutions Facilities		GROHE 25mm diameter chrome flush valve for WC (code: 37 609) or equal approved for concealed installation with push button actuator, 1,2 - 5,0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to WC.
V 08	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 1) from any COBRA agent	chrome	KM2.200	Public Ablution - Facilities Sloped granite whb only		COBRA - Metering bib tap non-hold open feature and flow controller. Chrome finish. Flow time 1 - 20 secs. SANS 1808-9
V 09	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 2) from any COBRA agent	chrome	KM066WT-114	Public Ablution - Facilities Sloped granite whb only		COBRA - Self closing push button metering spout, wall type with non-hold open feature for cold water only. Chrome finish. Flow time 1 - 20 secs. SANS 1808-9
V 10	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 3) from Tile Space	chrome	101R	Public Ablution - Facilities Sloped granite whb only		WALCRO - Self closing push button wall tap, with non-hold open feature. Flow time 1 to 20 seconds SANS 1808-9
V 11	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 4) from any Walcro agent	chrome	GK. T0022AB	Public Ablution - Facilities Sloped granite whb only		OFA - Self closing push button wall tap, with non-hold open feature. Flow time 6 to 10 seconds
V 12	Paraplegic whb Tap	Paraplegic Elbow Action WHB Tap from any Cobra agent (option 1)	chrome	504-21B & 504-21R	Paraplegic Toilets		COBRA - Medical elbow action pillar tap with high waist or equal approved, chrome finish. SANS 226 TYPE 2.

ref. code	description	specification	Colour	product code	notes	image	extended specification
V 13	Paraplegic whb Tap	Paraplegic Elbow Action WHB Tap from any Cobra agent (option 2)	chrome	503-21B & 503-21R	Paraplegic Toilets		COBRA - Medical elbow action pillar tap with raised nose or equal approved, chrome finish. SANS 226 TYPE 2.
V 14	Staff whb Tap	Staff Ablutions - Hot & Cold Water Mixer (option 1)	stainless steel	NA - 951	Staff Ablutions - Super Core Stations		COBRA Noka - Single lever basin mixer. Chrome finish. SANS 226 Water taps
V 15	Staff whb Tap	Staff Ablutions - Hot & Cold Water Mixer (option 2)	stainless steel	ex7005	Staff Ablutions - Super Core Stations		ISCA Chloe - Single lever basin mixer. Chrome finish. SANS 226 Water taps
V 16	Staff and Public whb	Staff or Public Ablutions - Cold Water Supply Tap from any Cobra agent (option 1)	chrome	KM2-100FS	Public / Staff Ablutions		COBRA - Self-closing push button metering spout, Pillar type with non-hold open feature for cold water only. Chrome finish. Flow time 6 -9 secs. SANS 1808 - 9
V 17	Staff and Public whb	Staff or Public Ablutions - Cold Water Supply Tap from any Idral agent (option 2)	chrome	08250	Public / Staff Ablutions		Idral - Water Save Self-Closing Push Button Pillar Tap, non - hold cold water supply only, chrome finish, code 08212 with flow time of 6 - 9 secs
V 18	Staff and Public whb	Staff or Public Ablutions - Cold Water Supply Tap from Tile Space (option 3)	chrome	GK.T0004 AB	Public / Staff Ablutions		OFA - Self closing push button pillar tap, with non-hold open feature. Chrome finish. Flow time 6 to 10 seconds
V 19	Staff and Public whb	Staff or Public Ablutions - Cold Water Supply Tap from any Walcro agent (option 4)	chrome	Walcro 220	Public / Staff Ablutions		Walcro - Self closing push button pillar tap, with non-hold open featur. Flow time 6 to 10 seconds. SANS 1808 - 9
V 20	Staff Basin Tap	Staff - Cold Water Supply Tap (option 5)	stainless steel	359 744	Public / Staff Ablutions - Super Core Stations		Franke AQUALINE-S AQUA 201 stainless steel self closing pillar tap with aerator, non - hold cold water supply, flow time 6 to 10 seconds duration.
V 21	Staff Shower Mixer	Cobra "Noka" c.p. wall mounted mixer	chrome	NA-956	All showers		Cobra Watertech Noka 15mm chrome plated wall mounted underwall mixer, manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).
V 22	Staff Shower Mixer	Cobra "Noka" c.p. wall mounted mixer	chrome	6 408	All showers		Isac- Veritas chrome concealed mixer, wall mounted

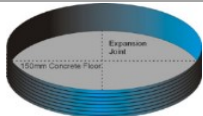
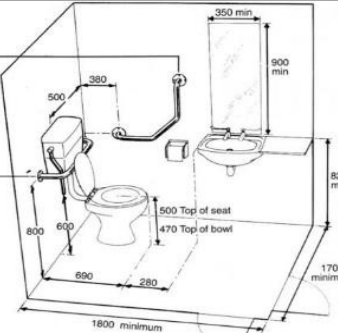
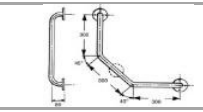
ref. code	description	specification	Colour	product code	notes	image	extended specification
V 23	Shower Head	Staff Ablutions Shower Rose (option 1)	chrome	09033	Staff Ablutions		Idral - Water Save or equal approved Vandal Proof Shower Rose chrome finish, code 09033 from Italtile or equal approved.
V 24	Shower Head	Staff Ablutions Shower Rose (option 2)	stainless steel	KP2.6	Staff Ablutions - Super Core Stations		Cobra - Single function vandal resistant shower head, polished body
V 25	Shower Head	Staff Ablutions Shower Rose (option 2)	chrome	CIRS V3-6	Staff Ablutions - Super Core Stations		WALCRO - Single function vandal resistant shower head, polished body
V 26	Sink Mixer	Kitchen Sink Mixer (option 1)	chrome plated	NA-970	Staff Kitchens		Cobra Watertech Noka 15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges (Code: NA-970), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).
V 27	Sink Mixer	Kitchen Sink Mixer (option 2)	chrome plated	EX7003/CH	Staff Kitchens		ISCA Chloe - deck mounted Sink Mixer with swivel arm. Chrome finish. SANS 226:2004
V 28	Sink Mixer	Kitchen Sink Mixer (option 3)	chrome plated	LO-266-041-10	Staff Kitchens		Cobra Watertech Ledimo or equal approved 15mm chrome plated wall mounted sink mixer with overarm swivel outlet, adjustable wall flanges and concealed connections (Code: LO-266-041-10), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).
V 29	Sink Mixer	Kitchen Sink Mixer (option 4)	chrome plated	ex5002	Staff Kitchens		ISCA Roma - chrome finished wall mounted type sink mixer. In accordance with SANS 226:2004
V 30	Stop Valve	Stop Valve	chrome plated	832-10	Public Ablutions		Cobra Watertech or equal approved 15mm ball type angle valve (Code: 832-10).
V 31	Hose Bibtap	Slop Hopper, Wash Trough & Cleaner Taps	brass	108-20	Public Ablutions & Cleaner Quarters		Cobra Watertech or equal approved 20mm standard brass hose bibtap (code: 108-20) with wingnut, lining and 20mm hose union, manufactured in accordance with SANS 226:2009 Type 1 (BS 1010).
W	WCs	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					

ref. code	description	specification	Colour	product code	notes	image	extended specification
W 01	Public Vandal Resistant Toilet	Whyte House vandal resistant WC pan (option 1)	white	021643	Public Ablutions on Concourses, Intermodal Facilities & Holding Cells		Whyte House or equal approved Security Pan, Code 021643.
W 02	Public Vandal Proof Toilet	Gypsy vandal resistant WC pan (option 2)	white	GYP/VA.R 1/01	Public Ablutions on Concourses, Intermodal Facilities & Holding Cells		Gypsy Standard Universal Vandal Resistant WC, 390mm (w) x 480mm (d) x 410mm (h). Installation as per manufacturer's specification.
W 03	Public Cisterns	Vaal "Parktown" duct cistern (option 2)	white	431500/ 431600	Public Ablutions - for vandal resistant wc cistern		Vaal Sanitaryware vitreous china "Parktown" duct cistern (code 7109DP), complete with lid, fittings and duct flush pipe. Push button mechanism elsewhere specified. Can be used with any back inlet pan
W 04	Public & Paraplegic Toilet	Vaal "Orchid" paraplegic wall hung WC with back inlet flushvalvet. (installation height to be same as standard wheelchair) (option 1)	white	439016	Public Ablutions - Disabled WC		Vaal Sanitaryware Orchid Paraplegic vitreous china wall hung paraplegic back inlet washdown suite colour White, fixed on and including floor bracket (Code: 8082Z0) comprising 90° outlet open rim back inlet pan (Code: 439016) with exposed back inlet flushvalve (elsewhere specified) and Orchid double flap wooden seat (Code: 8520Z0).
W 05	Public & Paraplegic Toilet	Betta Diplomat wall hung closed rim pan with soft close seat (option 2)	white	TH01308A	Public Ablutions - Disabled WC		Betta Diplomat wall hung closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Adjustable height options. Concealed cistern to be used with this pan. Pan Weight 23kg - width 370mm - height 420mm - pan flush volume 3/6 Lt. 10 year warranty on the ceramic.
W 06	Public Paraplegic Vandal Resistant Toilet	Whyte House vandal resistant paraplegic WC with back inlet flushvalve & double flap wooden seat. (installation height to be same as standard wheelchair) (option 1)	white	025134	Public Ablutions - Disabled WC		Whyte House or similar approved Paraplegic Toilet, Code 025134.
W 07	Public Paraplegic Vandal Resistant Toilet	Gypsy vandal resistant WC pan (installation height to be same as standard wheelchair) (option 2)	white	GYP/VA.R 1/06	Public Ablutions - Disabled Ablutions		Gypsy Standard Universal Vandal Resistant WC, 390mm (w) x 480mm (d) x 410mm (h). Installation as per manufacturer's specification.
W 08	Public Eastern Toilet	Vaal "Oriental" squat washdown suite	white	502300	Public Ablutions		Vaal Sanitaryware Oriental vitreous china squat washdown suite (code: 502300) comprising closed rim squat pan with floor plate and integrated raised foot treads including vitreous china Oriental P-trap (code: 220100) and 9 litre cistern (code: 710531), including lid and fittings and plastic 38mm diameter telescopic flush pipe and connector (code: 5022Z1).

ref. code	description	specification	Colour	product code	notes	image	extended specification
W 09	Staff Toilets	Vaal "Hibiscus" close coupled suite <i>(option 1)</i>	white	772401/ 772402	Staff Toilets		Vaal Sanitaryware Hibiscus vitreous china close coupled suite colour White (Code: 772654), comprising 90° outlet open rim pan (Code: 772600) with matching 9 litre front single flush cistern (Code: 772402) including lid and fittings and Jazz Thermoset seat.
W 10	Staff Toilets	Betta Coral top flush suite with floor mounted open rim pan <i>(option 2)</i>	white	XTH5T08N	Staff Toilets		Betta Coral top flush suite with floor mounted open rim pan, Top flush Cistern, pan fixations, normal close seat and top flush mechanism, Pan and cistern made from vitreous china, Installation as per manufacturers specification. Certified plumber recommended. DO NOT CEMENT PAN TO THE FLOOR USE THE PAN FIXATIONS, SABS and ISO certified. 10 year warranty on the ceramic.
W 11	Staff Toilets	Vaal "Parktown Pan" top or back inlet <i>(option 3)</i>	white	431500 / 431600	Staff Toilets		Vaal Sanitaryware vitreous china Parktown 90 degree outlet top inlet or back inlet. Top inlet can be used with an exposed flushvalve. Back inlet can be used with a concealed cistern, Vaal Sanitaryware duct cistern or a concealed flushvalve. Flush volume 6/3 liters, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume
W 12	Staff Toilets	Betta Atlantis back to wall floor mounted closed rim pan with soft close seat <i>(option 4)</i>	white	YTAT16A	Staff Toilets		Betta Atlantis back to wall floor mounted closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Concealed cistern to be used with this pan. Pan Weight 24.5kg - width 360mm - height 420mm. 10 year warranty on the ceramic.
W 13	Staff Paraplegic Toilet	Vaal "Pearl" paraplegic floor mounted suite with c.p. side flush lever <i>(option 1)</i>	white	7300SC	Staff Toilets - Disabled WC		Vaal Sanitaryware Pearl Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 7300SC) comprising semi close couple 90° outlet open rim washdown pan and matching 9 litre cistern, including lid, fittings and purpose-made chromium plated side flush lever.
W 14	Staff Paraplegic Toilet	Vaal "Orchid" paraplegic wall hung WC with back inlet flushvalve & double flap wooden seat. <i>(installation height to be same as standard wheelchair)</i> <i>(option 2)</i>	white	439016	Staff Toilets - Disabled WC		Vaal Sanitaryware Orchid Paraplegic vitreous china wall hung paraplegic back inlet washdown suite colour White, fixed on and including floor bracket (Code: 808220) comprising 90° outlet open rim back inlet pan (Code: 439016) with exposed back inlet flushvalve (elsewhere specified) and Orchid double flap seat (Code: 852020).
W 15	Public & Paraplegic Toilet	Betta Diplomat wall hung closed rim pan with soft close seat <i>(option 3)</i>	white	TH01308A	Staff Toilets - Disabled WC		Betta Diplomat wall hung closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Adjustable height options. Concealed cistern to be used with this pan. Pan Weight 23kg - width 370mm - height 420mm - pan flush volume 3/6 Lt, 10 year warranty on the ceramic.
X	Sanitary Fittings & Accessories		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning				

ref. code	description	specification	Colour	product code	notes	image	extended specification
X 01	Soap Dispenser	Wall Mounted Stainless Steel Soap / Sanitizer Dispenser - Staff and public Ablutions	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock, plugged and screwed to the wall with stainless steel screws. Unit to have electronic dispensing facility (no touch)
X 02	Toilet Roll Holder	Wall Mounted Stainless Steel Jumbo Toilet Roll Holder - Public Ablutions, Super Core and Core Stations only (option 1)	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Stainless steel jumbo toilet roll holders with refill indicator and cylinder lock, plugged and screwed to the wall with stainless steel screws.
X 03	Toilet Roll Holder	Wall Mounted Stainless Steel Toilet Roll Holder - Staff and Public Ablutions (option 2)	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel toilet roll holders for 2 or 3 rolls with central shaft system and cylinder lock, plugged and screwed to the wall with stainless steel screws. (vandal resistant)
X 04	Toilet Roll Holder	Stainless Steel Toilet Roll Holder (option 3) - Staff Ablutions only	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.
X 05	Bins - Public	Wall Mounted Stainless Steel Bin - Public Ablutions (option 1)	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.
X 06	Bins - Staff	Wall Mounted Stainless Steel Bin - Staff Ablutions (option 2)	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel waste disposal bins with capacity of plus minus 20 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws.
X 07	Sanitary Bins	Surface Mounted Stainless Steel Sanitary Towel Disposal Bins - Staff and Public Ablutions (female only)	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel sanitary towel disposal bins with capacity of min 10 litres, free standing or wall mounted (plugged and screwed to the wall with stainless steel screws)

ref. code	description	specification	Colour	product code	notes	image	extended specification
X 08	Hand Dryers	Automatic Hands Free Stainless Steel Hand Dryer - Staff and Public Ablutions	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel full automatic industrial hand dryer with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws. 2500 W motor with automatic power cut off after 90 seconds. With 5 year warranty.
X 09	Paper towel Dispenser	Stainless Steel Paper towel Dispenser - Staff and Public Ablutions	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel paper towel dispenser with min 600 folded paper towels and cylinder lock, plugged and screwed to the wall with stainless steel screws.
X 10	Robe Hook & Door Stop	Satin stainless Steel Robe Hook - Staff Ablutions, shower cubicles	Stainless Steel	Leading bathroom retailers			Satin stainless steel robe hooks, plugged and screwed to the wall with stainless steel screws.
X 11	Towel Ring - Staff	Stainless Steel Hand Towel Ring - Staff Ablutions	Stainless Steel	Leading bathroom retailers			Satin stainless steel towel rings, plugged and screwed to the wall with stainless steel screws.
X 12	Public Ablutions	Baby Change facilities - Wall mounted and Recessed change stations. <i>All new Super Core and Core Stations</i>		Leading bathroom retailers			As per the supplier specifications and installation
Y	Geysers	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
Y 01	Kitchen-nette Water Heaters	Point of use electric water heaters, Kwikot or Franke Zip 5, 10, 15 or 30 litre over- & under basin or equal approved.	white		All Kitchenettes		Kwikot Prisma or Franke Zip approved point of use 5, 10-, 15- or 30 litre electric thermostat regulated overbasin water heater size 360 x 360 x 300mm with- or without stop cock and spout, fixed on mounting bracket plugged and screwed to wall. Electrical connection required.
Y 02	Kitchen-nette Water Heaters	Kwikot or Franke ZIP Stainless steel water boiler with stainless steel tank, electronic controls, connected to 15mm cold water supply and 230 volt 2000 watt electrical power supply			Staff Kitchenettes (to be used in conjunction with above point-of-use water heaters)		Kwikot or Franke ZIP approved 2,5 litre or 5 litre Stainless steel water boiler , approximate size 275 x 165 x 365mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 1800 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.
Y 03	Gas Water Heater	Gas Instant Water Heater with Natural Exhaust for showers & identified ablutions. <i>Geysers to be installed for showers only. Hot Water can be supplied to whb only where in close proximity to showers.</i>	white	12 liter	Gas Tankless Water Heater	 	Kexin or equal SABS approved 12 liter instant gas water heater from DewHot, with natural exhaust & automatic ignition (no pilot light), with 320-720 liter / hr flow rate, dimensions 330 (w) x 150 (d) x 620 (h), with water & exhaust over heating protection, flame out gas cut off & non return valve. Gas cylinder to be located in safe, well-ventilated position, preferably outside with service access. Size dependent on hot water demand & to be verified by specialist.

ref. code	description	specification	Colour	product code	notes	image	extended specification
Y 04	Solar Geyser	Solar Geysers, to be used when gas installation not possible. <i>Geysers to be installed for showers only. Hot Water can be supplied to whb only where in close proximity to showers.</i>	Shale Grey™	Kwikot Solarhart Enviroheat Solar Ray			Solar Geyser, (200 litre) water heating sytem with electric back-up element, installed on north facing roof, system to be fixed onto hot dipped galvanised mild steel flat roof 20° angle stand. Units to be positioned with at least 2m clear space (for servicing) to the left of the unit and at least 0,5m all around the unit to be left clear. Mains supply (minimum 22mm diameter) to be brought to left hand side of unit. Storage tank operates at any pressure less than 1000Kpa (10 bar). + Hot and cold return pipes (minimum 22mm diameter) – water proofing of pipes, where roof penetration is made, to be done by plumber. Electrician to supply and fit a waterproof isolator switch adjacent to the tank on roof. Specialist to advise on installation and positioning. Units must comply to SABS approval
Y 05	Water Reservoirs	Water Reservoirs to be installed at all stations to ensure consistent water pressure. Size to be station specific & advised by engineers					Heunis Rainwater Goods or equal approved 0,6mm thick 4,5mm diameter x 1800mm deep x 28600 litre (size to be verified by engineer) Z275 spelter galvanised iron reservoir.
Y 06	Septic Tank	Septic Tanks to be installed in remote stations where no sewer connection is available, size to be station specific to engineers' recommendation					Atlas Plastics or equal approved rotomoulded polyethylene min 2500 litre black digester tank (Code: 710AP), size 2325mm x 1250mm diameter (size to be verified by engineer) with 50mm UPVC outlet pipe including 350mm diameter lid and secondary tank fitted below ground including excavation and back filling.
Y 07	French Drain	French Drains or Infiltration Chambers to be installed in remote stations where no stormwater connection is available, size to be station specific to engineers' recommendation					Kaytech Quick4™ or equal approved Infiltrator Chamber 1900 x 864 mm wide to be installed in trench 1000mm wide x 700 mm deep with 2 chambers (size to be confirmed by engineer) requiring 4 end plates including excavation, backfilling with 300mm of excavated material and disposal of surplus material.
Z	Disabled Ablution facility - SANS 10400-S						
Z 01	Dog Leg Side Rail		brushed stainless steel	GRDG03B			Bathroom Butler Paraplegic Rails dog leg grab rail with 3 supports (code: GRDG03B) or equal approved with brushed grade 304 stainless steel finish overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws.
Z 02	Flush Valve Back Rail		brushed stainless steel	GRFV01B			Bathroom Butler Paraplegic Rails flush valve grab rail (code: GRFV01B) or equal approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.
Z 03	Cistern Back Rail		brushed stainless steel	GRCS01B			Bathroom Butler Paraplegic Rails cistern grab rail (code: GRCS01B) or equal approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.
Z 04	Shower Trap & Grating		Staff Shower Trap & Grating	brass	373SQ	Staff Ablutions	

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2,5	General List of Ironmongery Specifications	2	2021/09/17	2013/04/02	PRASA Station Modernisation

GENERAL NOTES:

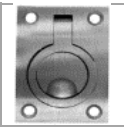
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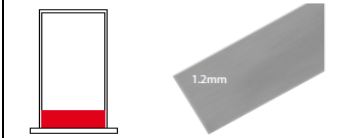
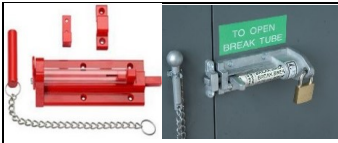


- "Equal approved" means that any alternative material or finish must comply with the indicated specification, written proof from the supplier/manufacturer to be presented to Prasa Cres PMU: Design and Space planning for final approval

ref. code	description	specification	Colour	product code	notes	image	extended specification
Q	Ironmongery		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning				
Q 01	Lever Handle	Stainless Steel Lever Handle on a Backplate - Single doors	Stainless steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel round D lever handle on a long backplate with a Euro profile cylinder opening. Fixing to door to be stainless steel male and female screws. To comply with SANS 4:2008
Q 02	Pull Handles	Stainless Steel Round D bolt through Pull Handles. All double & single doors with pull handle required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel round D pull handle on a backplate. Note that a backplate and D handle with Euro profile to be applied where required. Sizes to be as required - 19x200mm, 19x300mm To comply with SANS 4:2008
Q 03	Pull Handles	Stainless Steel Round D back to back Pull Handles. All double & single glass doors with pull handle required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel round D pull handle back to back. Sizes to be as required - 19x200mm, 19x300mm To comply with SANS 4:2008
Q 04	Pull Handles	Stainless Steel Round D Offset back to back Pull Handles. All double & single glass doors with pull handle required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel round D offset pull handle back to back. Sizes to be as required - 19x200mm, 19x300mm To comply with SANS 4:2008
Q 05	Locks	Stainless Steel cylinder lock	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel To comply with SANS 4:2008

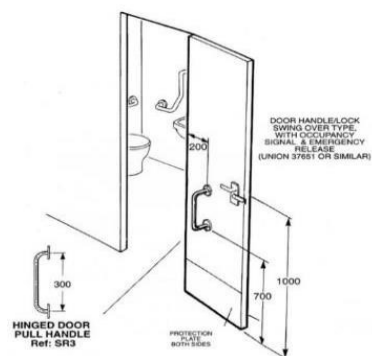
ref. code	description	specification	Colour	product code	notes	image	extended specification
Q 06	Locks	Stainless Steel Narrow cylinder lock - glass doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel narrow style roller catch and deadbolt with 35mm back set, Euro profile Mortice. Fore end to be stainless steel To comply with SANS 4:2008
Q 07	Locks	Stainless Steel Security Deadlock	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe		 PRASA Protection Services to be consulted on risk rating and door lock type assessment	Grade 304 Stainless steel Security Deadlock with a Deadcase plate in the door frame with Master key functioning. These type lock to be used with Push plates and Pull handles. Double side locking mechanism To comply with SANS 4:2008
Q 08	Locks	Stainless Steel cylinder lock	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			60mm Grade 304 Stainless steel Euro profile Double with 6 pin and Master keyed To comply with SANS 4:2008
Q 09	Locks	Stainless Steel Knob cylinder lock - if and where required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			60mm Grade 304 Stainless steel Euro profile Double with 6 pin and Master keyed To comply with SANS 4:2008
Q 10	Roller Catch	Stainless Steel Knob Roller Catch - Glass doors with Flush Bolts	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel adjustable Roller Catch To comply with SANS 4:2008
Q 11	Push Plates	Stainless Steel Push Plate with Euro profile	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe	all doors with knob cylinder lock		152x152mm Grade 304 Stainless Steel Push Plate with Euro cylinder profile to be applied where required To comply with SANS 4:2008
Q 12	Push Plates	Stainless Steel Push Plate	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Various size Grade 304 Stainless Steel Push Plates to be applied where required To comply with SANS 4:2008
Q 13	WC cubicle (see Q13 for lock)	Stainless Steel Toilet Cubicle Indicator bolt & lock set	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws. To comply with SANS 4:2008

ref. code	description	specification	Colour	product code	notes	image	extended specification
Q 14	Disabled WC cubicle (see Q13 for lock)	Stainless Steel Paraplegic Toilet Cubicle Indicator bolt & lock set	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304Stainless Steel disabled indicator bolt, fixed to surface with matching stainless steel screws. To comply with SANS 4:2008
Q 15	Bathrooms	Stainless Steel Deadlock (Privacy lock)	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304Stainless Steel Deadlock. Fore end to be stainless steel To comply with SANS 4:2008
Q 16	Duct Door	Stainless Steel FHR cupboard & Duct Door ring pull lever	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe	FHR cupboards & duct doors		Grade 304 Stainless Steel ring pull, size approximately 50 x 40mm, fixed to surface with matching stainless steel screws. To comply with SANS 4:2008
Q 17	Door Stop	Stainless Steel Floor Mounted Door Stop - all doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless Steel floor mounted door stop , plugged and screwed to floor with matching stainless steel screws. To comply with SANS 4:2008
Q 18	Door Stop	Stainless Steel Wall Mounted Door Stop - if and where required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless Steel door mounted door stop, plugged and screwed to wall with matching stainless steel screws. To comply with SANS 4:2008
Q 19	Door Bolts	Stainless Steel Bolt - if and where required. Various applications; Flush door bolts, surface mounted bolts and Barrel bolts	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless Steel door bolts as per required usage, fixed to surface with matching stainless steel screws. Flush door bolts to be installed at glass doors both double and or extension leaves To comply with SANS 4:2008
Q 20	Door Viewers	Chrome finished door viewer - if and where required	Chrome	Cisa QS Geze Assaabloy Dorma Union Hoppe	Security Doors		200 Degree chrome door viewer To comply with SANS 4:2008
Q 21	Door Closer	Stainless Steel door closer - if and where required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless Steel Rack and Cam Pinion door closer with sliding track arm. Non handed with a maximum 180 degree non hold opening as standard. Power adjustable by spring, latching and damping action. Must be suitable for exterior doors also. Product characteristics ratio - weight to door weight; 20kg, 40g, 60 kg, 80kg, 100kg to 120kg for light to solid doors. For Anti Bandit doors heavy duty Door Closers to be used for weight up to 300kg To comply with SANS 4:2008

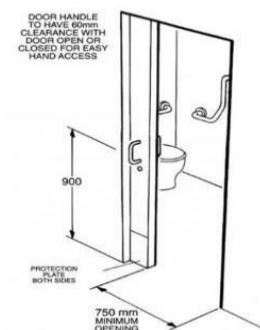
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Q 22	Door kickplate	Stainless Steel kick plate - all doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			200x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door
Q 23	Door kickplate	Push Bars	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			200x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door To comply with SANS 4:2008
Q 24	Door kickplate	Fire Escape Bolts	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			200x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door To comply with SANS 4:2008
R	Accessories & Signage						
R 01	WC Signage	Stainless Steel Male Staff Toilet Sign	Stainless Steel	SS5066E-06SSE10	Staff Toilets - Male		Stainless Steel engraved plate, size 150 x 150mm
R 02	WC Signage	Stainless Steel Female Staff Toilet Sign	Stainless Steel	SS5066E-06SSE11	Staff Toilets - Female		Stainless Steel engraved plate, size 150 x 150mm

ref. code	description	specification	Colour	product code	notes	image	extended specification
R 03	WC Signage	Stainless Steel Unisex Staff Toilet Sign	Stainless Steel	SS5066E-06SSE12	Staff Toilets - Unisex		Stainless Steel engraved plate, size 150 x 150mm
R 04	WC Signage	Stainless Steel Paraplegic Staff Toilet Sign	Stainless Steel	SS5066E-06SSE12	Staff Toilets - Paraplegic		Stainless Steel engraved plate, size 150 x 150mm
R 05	WC Signage	Stainless Steel Staff Kitchen & Break Room Sign	Stainless Steel	SS5066E-06SSE02	Staff Kitchen & Break Rooms		Stainless Steel engraved plate, size 150 x 150mm
R 06	WC Signage	Stainless Steel Staff Showers Sign	Stainless Steel	SS5066E-06SSE18	Staff Showers		Stainless Steel engraved plate, size 150 x 150mm
R 07	WC Signage	Stainless Steel Staff Infirmary / First-Aid Room Sign	Stainless Steel	SS5066E-06SSE13	Infirmary		Stainless Steel engraved plate, size 150 x 150mm
R 08	WC Signage	Stainless Steel Staff Cleaning Store Sign	Stainless Steel	SS5066E-06SSE17	Staff Cleaning Stores		Stainless Steel engraved plate, size 150 x 150mm
R 09	WC Signage	Stainless Steel Staff Electrical Duct Sign	Stainless Steel	SS5066E-06SSE17	Staff Electrical Ducts		Stainless Steel engraved plate, size 150 x 150mm

DOOR DETAIL



DOOR DETAIL



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2,6	General List of PRASA Furniture Standards	Revision 05	2021/10/29	2013/06/03	PRASA Station Modernisation

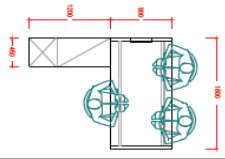
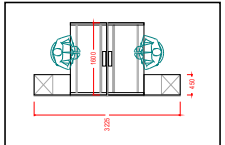
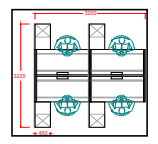
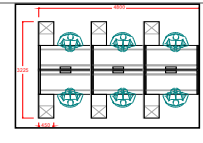
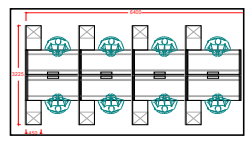
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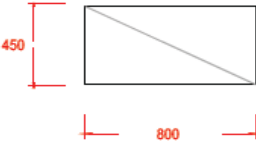
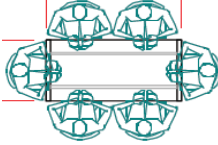
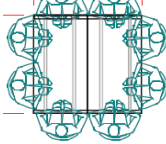
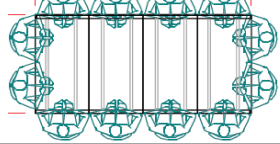
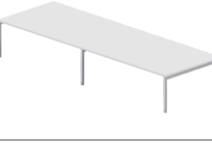
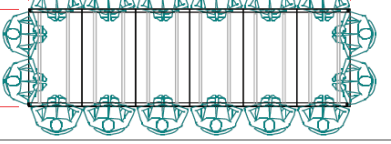
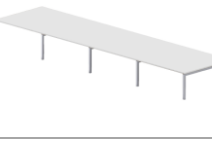
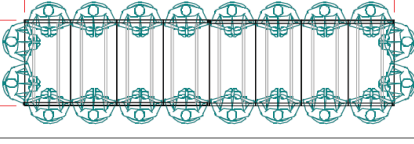


ref. code	description	specification	Colour	product code	image	notes	extended specification
O	General Workstations						
O 01	Desking	Two way desks, side by side 1600x800 without storage	American Walnut tops			Back Office	
O 02	Desking	Single desk, 1600x800 without storage	American Walnut tops			Back Office	
O 03	Desking	Single desk, 1600x800 with pedestal and Corporate Connection plugset	American Walnut tops and storage fronts, white carcasses			Back Office	
O 04	Desking	Single desk, 1600x800 with and side table, pedestal and Corporate Connection plugset	American Walnut tops and storage fronts, white carcasses			Supervisor / Security Officer	

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ref. code	description	specification	Colour	product code	image	notes	extended specification
O 05	Desking	Single desk, 1800x900 with and side table and pedestal and Corporate Connection plugset	American Walnut tops and storage fronts, white carcasses			Station Manager	
O 06	Cluster desking	Two way face to face, 1600x800 with and side table, pedestal and Corporate Connection plugset.	American Walnut tops and storage fronts, white carcasses			General back office	
O 07	Cluster desking	Four way face to face, 1600x800 with and side table, pedestal and Corporate Connection plugset.	American Walnut tops and storage fronts, white carcasses			General back office	
O 08	Cluster desking	Six way face to face, 1600x800 with and side table, pedestal and Corporate Connection plugset.	American Walnut tops and storage fronts, white carcasses			General back office	
O 09	Cluster desking	Eight way face to face, 1600x800 with and side table, pedestal and Corporate Connection plugset.	American Walnut tops and storage fronts, white carcasses			General back office	

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ref. code	description	specification	Colour	product code	image	notes	extended specification
O 10	Cupboard	Cupboard with shelves	White carcass and American Walnut doors			All workstations as required	
O 11	Meeting room	6 Seater, 1600x800	American Walnut tops			All offices as required	
O 12	Meeting room	6 - 8 Seater, 1600x1600	American Walnut tops			All offices as required	
O 13	Meeting room	10 - 12 Seater, 3200x1600	American Walnut tops			All offices as required	
O 14	Meeting room	14 - 16 Seater, 4800x1600	Walnut tops			All offices as required	
O 15	Meeting room	18 - 20 Seater, 4800x1600	American Walnut tops			All offices as required	
O 16	Operator's chair	High back operators chair with mesh back and cushioned seat	Black mesh and Blue seat			All offices as required	Gas height adjustment with standard synchro mechanism on a 5 star Nylon base with castors and Nylon flexible arms

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ref. code	description	specification	Colour	product code	image	notes	extended specification
O 17	Visitors and meeting room chairs	Mesh back with cushioned seat	Black mesh and Blue seat*			All offices as required	Black epoxy coated sleigh frame with arms
O 18	Ticket office chair	Cushioned back and seat	Black mesh and Blue seat*			All offices as required	Gas height adjustment with standard synchro mechanism on a 5 star Nylon base with castors and foot rest ring
O 19	Canteen chair	Black, red and green PVC chairs with aluminium legs - as per picture	Seat and back to match colour			Canteen and break out areas	
O 20	Soft seating	Red and blue single seaters	Seat and back to match colour			Pause and reception areas	Basic size: 800w x800d x810h, Weaver World fabric; Smooth
O 21	Soft seating	Red and blue double seaters	Seat and back to match colour			Pause and reception areas	Basic size: 1740w x900d x680h, Weaver World fabric; Smooth

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ref. code	description	specification	Colour	product code	image	notes	extended specification
O 22	Canteen table	800x800 with Innox top	Silver brushed Stainless steel top			Canteen and break out areas	Formica top with solid band edging and polished Malibu aluminium base
O 23	Waiting areas	Bench seating, 3, 4, 5 and 6 seaters, single or double row	Silver Stainless steel and Aluminium	Stalwart Benches		Internal waiting areas	
O24	Power plugset	On all permanent work desks. 1 x Red 3 pin, 1 x Black 3 pin and 1 x 2 Pin				All office desking	Supplied by the Office furniture supplier

P	Additional Moveable Items						
P 01	Lockers	Steel Double and Triple Compartment Stacked Lockers	"Admiral Grey"	LO10	All Staff Lockers		Double Door and Triple tier Lockers, size 300mm (w) x 450mm (d) x 1800mm (h), epoxy powder coated with flush fitting doors, for padlock. To comply with BS EN ISO 9001-2000 requirements.
P 02	Cabinets	Double Door Steel Cabinet with Shelves	"Admiral Grey"	CU10	Staff Offices		Four Shelf Cabinet, size 900mm (w) x 450mm (d) x 1500mm (h)
P 03	Filing Cabinets	Steel Four Drawer Filing Cabinet	"Admiral Grey"	FC40	Staff Offices, where required		Four Drawer Filing Cabinet, size 470mm (w) x 630mm (d) x 1320mm (h)
P 04	Steel Shelving	Steel Storage Shelving 	"Admiral Grey"	Admin Stores			Single Rivet High Density Shelving decked with plywood or steel decking, size 900mm (w) x 300mm (d) (single) or 600mm (d) (double) x 1875mm (h), epoxy powder coated.

- All furniture to be procured from Furniture suppliers as contracted by Prasa only

ref. code	description	specification	Colour	product code	image	notes	extended specification
P 05	Bar Fridge	As and when required, supplied through furniture supplier	White		Staff Kitchens		Bar fridge 850hx550wx550d, colour white
P 06	Microwave	As and when required, supplied through furniture supplier	White		Staff Kitchens		26L Microwave oven
P 07	Water cooler dispenser	As and when required, supplied through furniture supplier			Staff Offices		Water cooler dispenser, hot and cold water
P 08	Heater	As and when required, supplied through furniture supplier			Staff Offices		9 Fin oil heater
P 09	Fan	As and when required, supplied through furniture supplier			Staff Offices		Pedestal Fan
P 10	Loud Hailer	As and when required, supplied through furniture supplier			Staff allocated		20w Mega phone loud hailer
P 11	Trolley	As and when required, supplied through furniture supplier			Staff Offices		3 Tier stainless steel trolley
P 12	Dustbins	As and when required, supplied through furniture supplier			Staff Offices		Square punched waste paper bin, colour silver. Stainless steel and or mild steel powder coated finish, colour Silver