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PASSENGER RAIL AGENCY
OF SOUTH AFRICA

Part B
Specification Lists

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,1	PRASA Colour Specification	Revision 13	2018/08/13	2012/11/20	PRASA Station Modernisation

GENERAL NOTES:

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ref. code	description	**Plascon** Colour Name	**Plascon** Colour Code	**Dulux** Colour Name	**Dulux** Colour Code	**Duram** Colour name	**Duram** Colour Code	Colour Code - **Other**	Notes
P	**Paint Colour Specification**								
P 01	PRASA Blue	*"Pristine Blue"* *Plascon Inspired*	B4-A1-1	*"Wind Tick"*	99 BG 22/432	*"Blue Cadet"*	031 - 5		*All feature walls and blue feature strips including facia boards*
P 02	PRASA Dark Grey Blue	*"Nautilous"* *Plascon Inspired*	B6-D1-1	*"Signature Blue"*	30 BB 10/112	*"Night Beacon"*	016 - 6		*All commuter & main traffic areas painted up to 1,8m height.*
P 03	PRASA Light Grey	*"Aluminium Snow"* *Architectural Greys*	AL-B01	*Surreal Blue*	30 BB 45/015	*"Mineral Mine"*	135 - 5		*All commuter & main traffic areas painted bove 1,8m height.*
P 04	PRASA Mid Grey	*"Thames Dusk"* *Architectural Greys*	GR-B07	*Intercoastal*	30 BB 16/031	*"Mason Gray"*	134 - 5		
P 05	PRASA Deep Grey	*"Ibiza Bay"* *Architectural Greys*	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"* *Plascon Inspired*	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***
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 leafs*

ref. code	description	**Plascon** Colour Name	**Plascon** Colour Code	**Dulux** Colour Name	**Dulux** Colour Code	**Duram** Colour name	**Duram** Colour Code	Colour Code - **Other**	Notes
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 leafs, 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"			
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 Code - **Other**	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*

ref. code	description	**Plascon** Colour Name	**Plascon** Colour Code	**Dulux** Colour Name	**Dulux** Colour Code	**Duram** Colour name	**Duram** Colour Code	Colour Code - **Other**	Notes
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 Code - **Other**	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 Code - **Other**	Notes
T 01	PRASA Blue				RAL 5015, INTERPON AKZONOBEL	Pantone 3005 C			*All steel and blue feature strips as needed*

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2.1a	PRASA Paint Specification	Revision 2	2018/08/13	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 preperation and undercoating must be applied*
**All undercoats and final coats must to 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	Velvaglo	Nuglo
Trade Gloss Enamel	DOOR FRAMES	Professional Gloss Enamel	Gloss Enamel
Eggshell	WINDOW SILLS	Eggshell	Nuglo
Pearlglo and or Varnish	BENCHES	Velvaglo and or Varnish	Nuglo and or varnish
Woodguard Exterrior 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 PLASTERERED, 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

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2,2	General List of Finishes & Specifications	Revision 18	2018/09/17	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*
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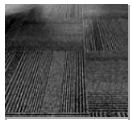
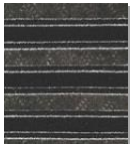
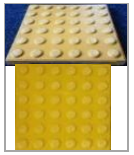
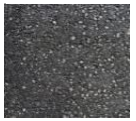
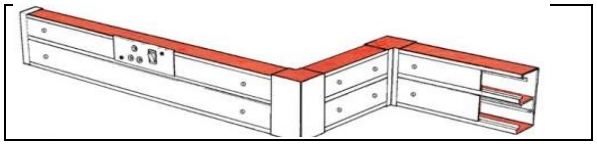
ref. code	description	specification	Colour	product code	notes	image	extended specification
A	**Floor All finishes alternatives to be "equal approved" to be approved by authorised PRASA agent**						

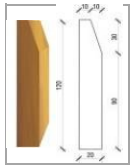
** **Finished floor levels for all materials are to be identical unless otherwise indicated on drawings.***
** **To be read in conjunction with Floor Finishes Layouts for individual stations. Architect to be notified of any indiscrepancies between document and drawings.***
** **All surface beds, suspended slabs, beams etc. to engineers detail and design.***
** **At all transitions between one finish and another and at all external thresholds finishes are to be laid against a 30 × 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, Tilespace, JNB Ceramica or Tiletoria . Natural finish	Light Grey *Grout* : "Dark Grey"	**UT= SEZZ6879N TS= TS2040AD JNB= 96ES TT=LG01 SMJDS**	Station Primary / Main interior 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, Tilespace, JNB Ceramica or Tiletoria . Natural finish	Dark Grey *Grout:* "Dark Grey"	**UT= SEZZ6876N TS= TS2039AD JNB=97ES 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, Tilespace, JNB Ceramica or Tiletoria . Matt finish	Black - Matt *Grout:* "Dark Grey"	**UT = SE 20 A 600AH TS = TS2117AD JNB=99ES 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. Tessellated Installation	Moon Rock	"Metro" Range	All passages, office & admin areas		*Nexus "Metro" Nexbac Eco Tiles®, 100% Stainproof Miracle Fibre™ (Polypropylene) structured needlepunch Nexbac Eco™ SABS Class 3 fire rating grade heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.*
A 05	Walk-off Mats	Matco Trio Scraper or equal approved Walk-off mat. Suitable for interior & exterior covered entrances.	Anthracite	2402	All main entrances to be 4m min depth & entrances from platforms to be min 3m		*Matco Trio Scraper or similar approved Walk-off mat, overall size 4000mm or 3000mm x 12mm consisting of 100% polypropylene course 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*

ref. code	description	specification	Colour	product code	notes	image	extended specification
A 06	Vinyl Tiles	FLOORWORX "Floorflex" 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.	Black	**BOSUN**	All external tiled areas, station entrances, walk ways etc. & stair risers		*Bosun Hermetic Range; 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	300 x 300 x 25mm Terrazzo tiles - Lava Stone - with 5mm grouting from Union Tiles or equal approved, sealed with manufacturer recommended sealant.	Charcoal grey	**UT = ADMB34LAV SL300**	All external tiled areas, station entrances, walk ways etc. & stair risers		*Union Tiles Sure Grip cement based tiles, size 300 x 300 x 25mm 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	300 x 300 x 25mm Terrazzo tiles - Lava Stone - with 5mm grouting from Union Tiles or equal approved, sealed with manufacturer recommended sealant.	Grey multi coloured aggregate	**UT= ADMG34T SL300**	New platform finish, detailed areas as per plan		*Union Tiles cement based tiles, size 300 x 300 x 25mm 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	500 x 300 x 50mm Terrazzo tiles with bullnose and tread grooves from Union Tiles or equal approved, with manufacturer recommended sealant.	Grey multi coloured aggregate	**UT= B24W24T**	New stations, platform nosing		*Union Tiles cement based tiles, size 500 x 300 x 50mm thick laid externally to 1:50 falls, with joints continuous in both directions grouted with suitable grout, excess grout on the surface to be cleaned with water as the work proceeds, bedded in a cement slurry on 25-30mm thick semi-dry mortar screed and tamped using a rubber mallet on a 100mm thick concrete surface bed on 150mm subbase, conforming to SANS 1200D MJ degree of Accuracy I.Confirm laying and installation technique with supplier*
A 12	Terrazzo non-slip tiles	300 x 300 x 30mm Terrazzo tiles with bullnose and tread grooves from Union Tiles or equal approved, with manufacturer recommended sealant.	Grey base with white stone aggregate	**ADMG24TLM**	Stair nosing, all external stairs, including station entrances, approaches & stairs to platforms		*Union Tiles cement based Stair Tread pavers, size 300 x 300 x 30mm 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.*

ref. code	description	specification	Colour	product code	notes	image	extended specification
A 13	Tactiles	300x300x30mm Cement base product with Tac pins from Union Tiles or equal approved, with manufacturer recommended sealant.	Yellow cement	**ADMTAC21T**	All new and existing station platform edging		*Union Tiles 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*
A 14	Tactiles	300x300mm in-situ system to applied to existing substrate without excavation from Flagstone.	Yellow concrete Polymer	**TAC - PAVE Flagstone**	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 COROBRIK VIBRO**	Existing & new platforms, and any pedestrian area where required - all stations		*Pavers to be laid in a Herringbone pattern due to its interlockinhg ability.All paving must comply with SANS 1058:2012 approved*
A 17	Paving	200x100x80mm min thickness Premium Interlocking concrete paving blocks,	Grey	**BOSUN COROBRIK VIBRO**	Existing & new parking area and road ways, vehicle traffic - all stations		*Pavers to be laid in a Herringbone pattern due to its interlockinhg ability.All paving must comply with SANS 1058:2012 approved*
B	**Skirting**						
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 areas		*Applied to all walls withoutpower skirting. Install before floorng 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, JNB Ceramica or Tiletoria	Light grey *Grout:* "Dark Grey"	**UT= SEZZ6879N TS= TS2040AD JNB= 96ES 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, JNB Ceramica or Tiletoria	Light grey *Grout:* "Dark Grey"	**UT= SEZZ6879N TS= TS2040AD JNB= 96ES 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	Porcelain Tile	300mm polished porcelain tile, bedded to wall with cement adhesive, with black grout. From Union Tiles, Tilespace, JNB Ceramica or Tiletoria	Black - gloss *Grout:* "Dark Grey"	**TS = TS2116AD UT = SE20A POL3x6 AH JNB=102ES TT=SM744JDS**	Ablutions: All joints to match / align with floor tiles where possible		*Glazed 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 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.*

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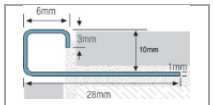
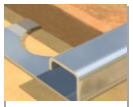
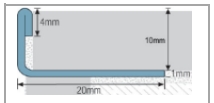
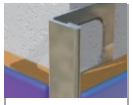
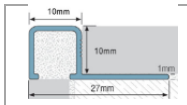
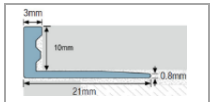
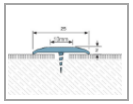
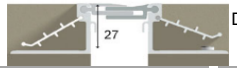
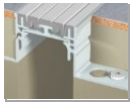
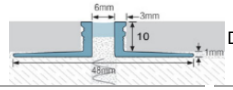
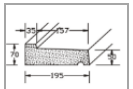
B 08	Existing Timber Skirting - Varnished	Existing timber skirtings to be sanded down & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish. New skirting profiles to be installed where necessary, to match existing. Eggshell finish.	*Clear Varnish*	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	* Heritage sites only. New skirting profiles to match existing.		*Lightly sand with abrasive paper, leaving surface dry, clean and dust free. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.*
B 09	Existing Timber Skirting - Painted	Existing painted timber skirtings to be sanded down & painted with Plascon Professional Eggshell Enamel or Dulux Eggshell Enamyl alkyd paint. New skirtings to match existing to be installed where necessary.	PRASA Deep Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P05	all existing painted skirtings, to be lightly sanded down & painted		*Lighlty 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**						
C 01	Matt Porcelain tiles	600 x 600mm & 300 x 600mm Full Bodied Porcelain tiles with 3mm grouting lines from Tile Space or Union Tiles. Complete with Genesis stainless steel square edge trim. Matt finish. From Union Tiles, Tilespace, JNB Ceramica or Tiletoria	Black *Grout:* "Dark Grey"	**UT = SE 20 A 600AH TS = TS2117AD JNB=99ES TT=SM9672 JDS**	Main commuter flow & high traffic areas, 1,8m high to tiling pattern		*Matt Full Bodied Porcelain tiles, fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.*
C 02	Polished Porcelain tiles	300 x 600mm & 600x600mm Full Bodied polished Porcelain tiles with 3mm grouting lines from Tile Space or Union Tiles. Wall edge / corners to be finished with Stainless Steel Square Edge Trims. From Union Tiles, Tilespace, JNB Ceramica or Tiletoria. ***Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F***	Ivory polished *Grout colour:* Mushroom	**TS = TS2115AD UT = SE SPA 6100 3x6 AH JNB=100ES TT=SM170JDS**	All ablutions.Tiles to be applied horizontally, above skirting 300mm tile to underside of ceiling.		*Full Bodied Polished Porcelain tiles, fixed to internal wall plaster backing with TAL tile adhesive (elsewhere specified) mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout (elsewhere specified), excess grout on the surface to be cleaned with water as work proceeds.*
C 03	Polished Porcelain tiles	600x300mm & 600x600mm polished porcelain tile, bedded to wall with cement adhesive, from Tile Space, Union Tiles and or equal approved. From Union Tiles, Tilespace or JNB Ceramica or Tiletoria. ***Refer to doc 3, drawing 650-C, 650-D, 650-E and 650-F***	Black - gloss *Grout:* "Dark Grey"	**TS = TS2116AD UT = SE20A POL 3x6 AH JNB=102ES TT=SM744JDS**	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 horisontal 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 Travertine	**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***	Wolkberg Lite Satin	**Corobrik**	Limpopo Region only		*Corobrik® (Polokwane - Limpopo Province) 20-30MPa Wolkberg Lite Satin or similar approved Imperial FBA 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 09	Facebrick	Flush jointed facebrick ***Refer to doc 3, drawing 603-A***	Opal Satin	**Corobrik**	Northern Cape Region within 600km radius from factory		*Corobrik® (Kopano - North West Province) 20-30MPa Opal Satin or similar approved Imperial FBS 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***	Sand-stone Travertine	**Corobrik**	Western, Eastern & Northen Cape Region.		*Corobrik® (Phesantekraal - Western Cape) 20-30MPa Sandstone 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 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 wallls must not be painted to prevent additional maintenace costs in future. If wall needs to be painted it is recommended that walls are to be plastered and prepared for painting.*	

ref. code	description	specification	Colour	product code	notes	image	extended specification
C 12	Drywall	90mm fixed partition drywall partitioning	Painted with natural anodised aluminium frames		All interior drywall partitioning		*Lafarge Gypsum or similar approved fixed partition drywall partitioning system with an overall thickness of 89mm comprising internal framing formed of 64mm galvanised steel studs fixed at 600mm centres to galvanised steel track or female aluminium head section and galvanised steel floor tracks including where necessary any additional galvanised steel studding to form door openings, glazing and other apertures, angles, corners and termination ends. Internal steel framing to be dressed on both sides with 12mm thick tapered edge Lafarge or similar approved plasterboard in single lengths to suite height, butt jointed and secured to steel studding with 25mm drywall screws at 220mm centres, joints to be tapped and jointed with Lafarge or similar approved Jointing Compound and prepared for decoration. All exposed aluminum door frames, glazing frames, ceiling and wall channels, battens and skirting are to be formed of natural anodised aluminium sections. Installation to be in accordance with SABISA installation guidelines.*
C 13	Palisade Fences	Existing Steel Palisade Fences	PRASA Dark Grey Blue	See Prasa 2.1 and 2.1a. Colour spec Section P, P02	*Plascon Synlac 5000 or similar approved Enamel to existing coated exterior mild steel. Remove all paint and rust completely. Apply Plascon or similar approved Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rusist Rust Converter (EMS 21) or similar approved copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1), Professional Undercoat (PU 800) or similar approved to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) or similar approved to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Synlac 5000 Enamel (SL 5000) or similar approved with 2 hours drying time between coats, for a maintenance cycle of 2 years in a C3 - industrial environment.*			
D	**Dados, Picture Rails, Trims & Corner Protectors**						
*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 painted dados & picture rails, to be lightly sanded down & painted		*Lighlty 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 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 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.*

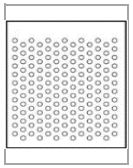
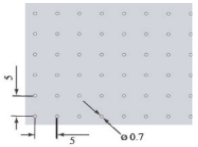
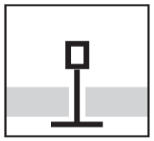
ref. code	description	specification	Colour	product code	notes	image	extended specification
D 05	Alu tile-in corner protector	Aluminium square edge trim for all tiled corners in main commuter or high traffic & back office areas. Selected halt & small stations.	Mill finish aluminium	TDF 104.81			*Genesis 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 interior aluminium straight edge trim in Mill Aluminium finish (code: ESA100.80), size 21 x 10mm on parcelain 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 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 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 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 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 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 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**						
*E 01	Existing Internal Timber sills - Varnished	Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	*Clear Varnish*	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	All existing varnished timber & heritage sites		*Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Varnish with an overcoating time of 6 hours and finish with two coats Varnish with 6 hours drying time between coats.* *** All to be in compliance with heritage requirements.*

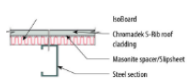
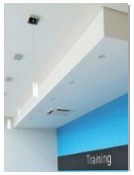
ref. code	description	specification	Colour	product code	notes	image	extended specification
*E 02	Existing External Timber sills	Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	*Clear Varnish*	See Prasa 2.1 and 2.1a. Colour spec Section S, S01	All existing varnished timber & heritage sites		*Sand with abrasive paper, leaving surface dry, clean and dust free. Apply one coat of Dulux or Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours. Prime with one coat Plascon Woodcare Sunproof (PNW) or 50% thinned Dulux Double Life Timbavarnish with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof (PNW) or Dulux Woodgard Exterior Double Life Timbavarnish with 24 hours drying time between coats.* *** All to be in compliance with heritage requirements.*
*E 03	Existing Slate sills	Existing slate sills to sanded down and varnished with two coats of quality varnish as per heritage requirements.	Clear				*to manufacturer's recommendation*
*E 04	Existing Timber sills - Painted	Existing painted timber window sills to be sanded down & painted with Plascon Professional Eggshell Enamel or Dulux Eggshell Enamyl alkyd paint. New skirtings to match existing to be installed where necessary as per heritage requirements.	PRASA Deep Grey	See Prasa 2.1 and 2.1a. Colour spec Section P, P05	all existing painted skirtings, to be lightly sanded down & painted		*Lighlty 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**						
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 Rusist 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.*

ref. code	description	specification	Colour	product code	notes	image	extended specification
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 Rusist 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 Pearlglo Emulsion paint.	PRASA Brown	See Prasa 2.1 and 2.1a. Colour spec Section P, P09	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 Pearlglo (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.	PRASA Dark Grey Blue	See Prasa 2.1 and 2.1a. Colour spec Section P, P02	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 Proffesional Gloss Enamel (PSB 1000) or Dulux Trade Gloss Enamel (Code: T3001) with an overcoating time of 18 hours.*

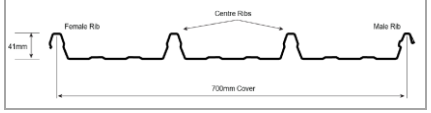
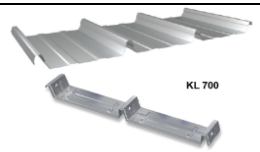
ref. code	description	specification	Colour	product code	notes	image	extended specification
F 09	External Anti-Bandit Door	Level G3 bullet resistant anti-bandit external door	Doors can be galvanised cladded and or be powder coated. See Prasa 2.1, Colour Spec Q01 for external doors	Austen Safes Mutual Safes National Safe Strong Hold Bitcon	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 anlge rebates, overall size 930 x 2100mm high in powder coating and or galvinised 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, P09	Austen Safes Mutual Safes National Safe Strong Hold Bitcon	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 anlge 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. • 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 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			*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.*

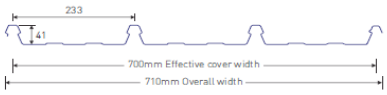
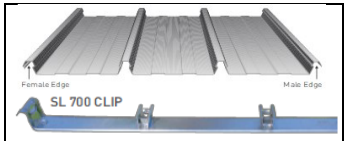
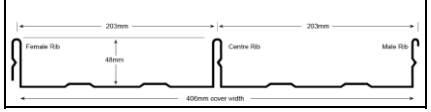
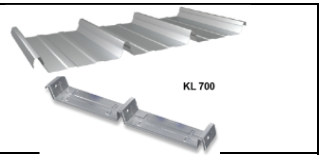
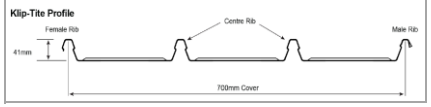
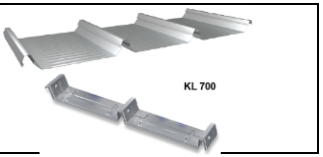
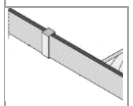
ref. code	description	specification	Colour	product code	notes	image	extended specification
F14	Roller Shutters	Motorised Roller Shutters, for openings larger than 25m². ***Refer to doc 4, door schedules 05 - A - 837 to 05 - A - 839*** 	Powder Coated *"Matt Dark Umber Grey"* ***ANP 3057***	Maxidor Xpanda 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.*
G	**Windows**						
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 (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.*
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 Rusist 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 & information desks		Austen Safes Mutual Safes National Safe Strong Hold Bitcon			*Level G3 bullet resistant glazed & natural anodised alumnium 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 with 32mm post formed granite counter top.*
H	**Ceilings**						

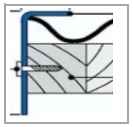
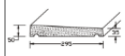
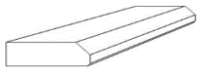
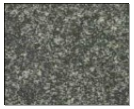
ref. code	description	specification	Colour	product code	notes	image	extended specification
H 01	Ceiling Tiles - Aluminum	600 x 600mm perforated lay-in powder coated aluminium ceiling tiles with acoustic backing laid on prepainted tees and adjustable hanger system. Hunter Douglas	White	Micro perforation	all public areas - super core stations only		*Hunter Douglas Luxalon® or similar 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 perfortions	White	Micro perforation	all public areas 		*OWAtecta(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 overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Pearlglo Water Clean-Up (D40) with 4 hours drying time between coats.*
H 07	Plaster & painted concrete soffit	15mm smooth plaster to underside of soffit & painted.	White	See Prasa 2.1 and 2.1a. Colour spec Section P, P11	Smooth finish		

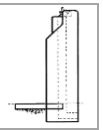
ref. code	description	specification	Colour	product code	notes	image	extended specification
H 08	Ceiling - External	Flush plaster fiber cement or Magna board ceiling fixed to concealed suspended tee system prepared to receive 2 coats external prepared quality PVA paint	White	See Prasa 2.1 Colour spec Section P, P11	All eaves to be closed with fiber cement or Magna Boards		
H 09	Isoboard	Isoboard or similar approved extruded polystyrene over-purlin ceiling boards	White		Exposed roof sheeting, platform or stair shelters 		*Roof insulation to be Isoboard® or similar approved high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation boards 30mm thick x 600mm wide with brown paper and polyethylene laminate slip sheet factory applied to upper surface, with tongue & groove joints fixed concurrent with roof covering over steel purlins at maximum 1200mm centres with 5mm gap between boards butt-joined over purlins.*
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**						
I 01	Cornice	Standard Donn plaster trim shadow line cornice between and perimeter walls.					
I 02	New Coved Corince	New cornice to be prepared and painted with two coats of quality PVA to match existing.					
I 03	Existing Coved Corince	Existing coved cornices to be sanded down and repainted .					

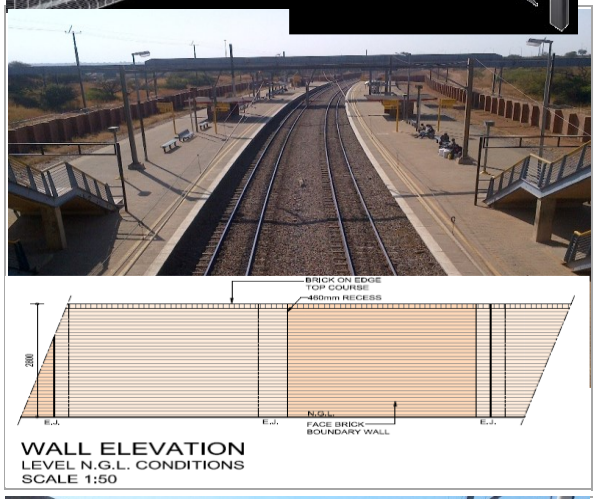
ref. code	description	specification	Colour	product code	notes	image	extended specification
I 04	New Scocia	New scocia to be preped and painted with two coats of quality PVA to match existing.					
I 05	Existing Scocia	Existing scocia to be sanded down and repainted.					
J	**Steel and other metal items**						
J 01	New Balus-trades & 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 Balus-trades & 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* or *Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocote 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 05	Existing Balus-trades *(not being replaced)*	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.	PRASA Dark Grey Blue	See Prasa 2.1 and 2.1a.Colour spec Section P, P02	All existing mild steel balustrades		

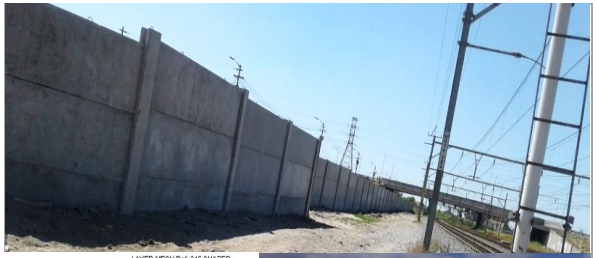
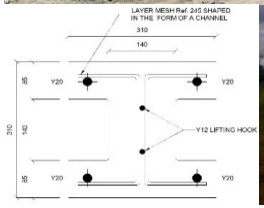
ref. code	description	specification	Colour	product code	notes	image	extended specification
J 06	Existing Handrails *(not being replaced)*	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.	PRASA Blue or PRASA Deep Grey	See Prasa 2.1 and 2.1a. Colour spec Section 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 intergral 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**						
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	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 08	Gutters & Down-pipes	Aluminium gutters and down pipes.	Marble White	Powder Coated: Gloss Duct White ANP1052	Coastal areas, all gutter & downpipe sizes to engineer's stormwater calculations		*Commercial and industrial Square profile aluminium seamless gutter, 0,9mm thick coated internally and externally with ColourTech G4 in colour Marble White including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spiggot, with 78 x 78 x 2mm thick aluminium downpipes in colour Marble White fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.*
K 09	Gutters & Down-pipes	Chromadek gutters and down pipes.	Fish Eagle White		Inland areas, all gutter & downpipe sizes to engineer's stormwater calculations		*Commercial and industrial Square profile Chromadek seamless gutters, 0,9mm thick coated internally and externally in colour Fish Eagle White including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spiggot, with 0,6mm thick Chromadek downpipes in colour Fish eagle White fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.*
K 10	Gutters & Down-pipes	Galvinised gutters and down pipes - exisitng 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 Corrocote 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 11	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.*

ref. code	description	specification	Colour	product code	notes	image	extended specification
K 12	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 13	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 14	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 15	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**						
M 01	Granite Tops	Rustenburg Granite Tops (*For public ablutions wash hand basins refer to generic detail 650-G & 650-H)* 			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	American Wallnut		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.*
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	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	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	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.*

ref. code	description	specification	Colour	product code	notes	image	extended specification
M 07	Internal Bins	Powder coated steel bins from Wilson`s Street furniture and or Superior Metal Solutions *(option 1)*	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)*	stailness 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.*
N	**Perimeter protection**						
N 01	Security Barrier - Existing Palisade Screening	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.	PRASA Dark Grey Blue - Mild steel	See Prasa 2.1 Colour spec Section P, P02	**PRASA Protection Services to be consulted on risk rating and fencing type assessment**		

ref. code	description	specification	Colour	product code	notes	image	extended specification
N 02	Security Barrier - Mesh Screening	High density security galvanised mesh fence with min 3.15mm horizontal wire diameter and 4mm vertical wire diameter. Panels: Appertures to be 76x12mm inner and min 3050mm wide panels to be reinforced with 4x 50mm V formation horizontal recessed bands. Height above the ground to be min 3000mm. All fixtures to be on the inside of the fence line. Panel to be fixed over 48 line wires with Double and single bolt clamps using Anti Vandal bolts. Posts to embedded into concrete and must have moisture proof caps for all posts. Pending on the security risk area; a) Razor mesh panels 600mm high b) Shark tooth spike rails and or c) 100mm Castle type spike rails can be installed on top of mesh. Posts to be 85mm width which includes Locking recess mechanism, posts to be sealed with UV stabilized polymer cap and post to be Hot Dipped galvanized. A 10 year underwritten Anti - Corrosion Gurantee life span to be provided. Product to comply with SANS 10244-2:2003 ISO 1461 hot dip galvanising. Anti - Burrow options: from 300 - 600mm Mesh extension shall be secured to to the panels underside for addtional 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**		
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**		

ref. code	description	specification	Colour	product code	notes	image	extended specification
N 04	Precast concrete slab wall	The slab wall to be with a height of 3000mm above natural ground level. Posts to be min 4200mm long and 310 x 310mm . Panels to be 1200mm high and 120mm thick. All concrete parts to be reinforced with Y10 Rebar and ref. 245 steel mesh. Concrete compressive strength to be a minimum of 30MPa 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 slab 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 05	Solid concrete wall	Wall must be constructed with a steel core and to be min 130mm thick with a height of 3000mm 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**		

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,3	General List of Lighting Specifications	Revision 05	2017/12/20	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*

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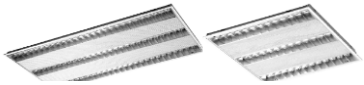
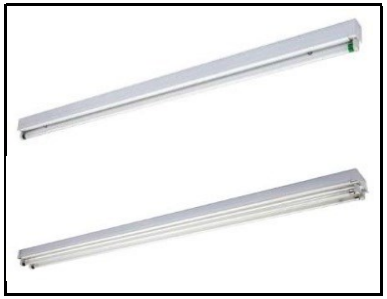
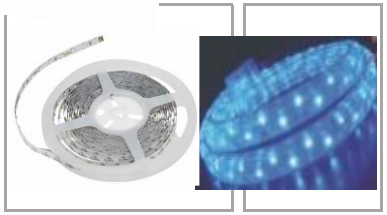
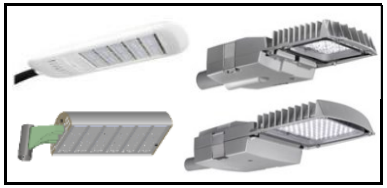
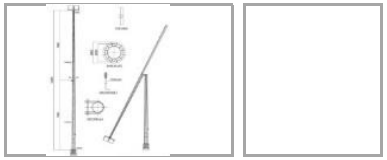
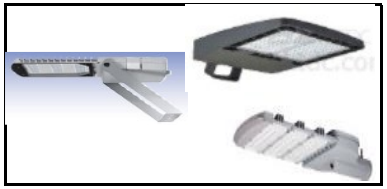
ref. code	description	specification	Colour	product code	notes and images	extended specification
L	**Lighting Specification**	**All items alternatives with note "equal approved" to be approved by authorised PRASA agent**				
	**** Lighting design to be in accordance with Electrical Engineer's designs & specifications to achieve require lux levels as per 2.3a***					
	**** All lux levels to be in accordnce 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 subsitituted, subject to approval from PRASA.***					
	**** Preference is to be given to LED Technology***					
L 01	***Concourses (All stations)***, public access and circulation areas	Conventional 1200x600mm & 600x600mm Recessed Lighting for Suspended Ceilings - max Height 4000mm.	White	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*Fully recessed low brightness luminaire with Acrylic Prismatic diffuser`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 codes and or CE and ROhS certification. An IP20 rating is required.*
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**		*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.*
L 03	Office Lighting - office work areas	1200x600 & 600x600mm recessed panel LED lighting for Suspended ceiling	White	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux**		*Fully recessed panel LED luminaire with Acrylic Opal difusser 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 and CRI of 80 plus.Fittings to comply with SANS 60598 codes and or CE and ROhS certification with an min IP22 rating.*

ref. code	description	specification	Colour	product code	notes and images	extended specification
L 04	Office & general lighting	Retrofit to **LED** on existing Conventional 1200x600mm & 600x600mm for both recessed and surface mounted fittings. From e-Solar Manufactures or NVC	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 PlatinumTube 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.*
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**		*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 typpical more intense lit areas. Fittings to comply and bear the SANS 60598-2-1 Safety Mark with an IP20 rating.*
L 06	Office lighting - public access, passages, pause areas and ablutions	Fullty recessed **LED** Downlighter Luminaires - used as general and accent lighting *(option 1)*	White Trim	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*Fully recessed downlighter luminaire made from high grade die- cast alumimium 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 CEand ROhs certification with an IP20 rating.*
L 07	Office lighting - public access, passages, pause areas and ablutions	Fullty recessed **LED Flat** Downlighter Luminaires - used as general and accent lighting *(option 2)*	White Trim	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*Fully recessed downlighter luminaire made from high grade die- cast alumimium 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.*

ref. code	description	specification	Colour	product code	notes and images	extended specification
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**		*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 geat to be used as a standard. Electronic ballast to be intergral 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	***(Intermediate, Core and Super Core stations)*** - public access, passages and ablutions	Fullty recessed **LED Flat** Downlighter Luminaires - used as general and accent lighting	White Trim	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*Fully recessed downlighter luminaire made from high grade die- cast alumimium 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.*
L 10	Vandal resistant lighting for, ***concourses*** **(*Small & Intermediate stations*)** subways, platform canopies, bridges, parking areas, walkways and ablutions	Surface mounted fluorescent lighting application in areas where higher security is required. Wireguard to be an option *(option 1)*	White	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*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 5meters	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**		*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.*
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**		*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.*
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**		*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 diametre. 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.*

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**		*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 Polycarboante 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.*
L 15	Strip Light and Alcove	Waterproof LED strip light	white or blue	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting**		*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.*
L 16	Area,urban,pedestrian and bike path zones and narrow road lighting	LED Post Top Luminiaire 3 - 5 meter mounting height	White with charcoal post	**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux**		LED post top luminaire manufactured from powder caoted die - cast aluminium base and gear plate and high impact acrylic protector. Output to be from 36W pendign 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.
L 17	Post Top Light	LED Flood Light / Post Top Luminiaire 6 - 8 meter mounting height		**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux**		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
L 18	Swivel Mast Light - see L19 for fitting	LED Swivel Post Top Luminiaire	Galvanised			*10m- 30m high galanised steel mast light fitting with mid-height swivel fixing, complete with LED lamp.*
L 19	Masts, Façade, area, security and general lighting - read inconjunction with L17	LED Flood Light, height up to15 and 30 meters, only to be used for downward lighting		**Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux**		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 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

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2.3 a	General List of Lighting LUX Levels	2	2017/12/20	2014/07/23	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*
- **All specifications with an asterix (*) is applicable to heritage sites only*

prasa
PASSENGER RAIL AGENCY OF SOUTH AFRICA

ref. code	description	Colour
Lu	**LUX Levels:**	

**** Lighting design to be in accordance with Electrical Engineer's designs & specifications.***
**** All lux levels to be in accordance with SABS & PRASA standards, for specific requirements consult the following; Interior lighting SANS 10114, Streets SANS 10098.***
**** Key considerations for lighting designs: Energy efficiency, economic viability & low maintenance.***
**** Light fittings can be subsitituted, subject to approval from PRASA. ****
Maximum glare rating to comply as stated in SANS 10389-1 and SANS 10114 - 1

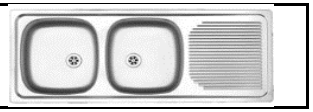
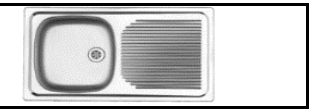
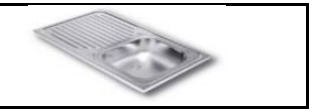
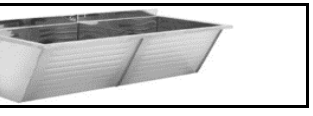
Lu 01	Entrance to buildings	200 lux
Lu 02	Passages, corridors and walk ways	150 lux
Lu 03	Escalators at landing area	200 lux
Lu 04	Escalators intermediate	100 lux
Lu 05	Stairs, landing area and steps	200 lux
Lu 06	Ramps at landing area	200 lux
Lu 07	Ramps intermediate	150 lux
Lu 08	Platform areas, open	80 lux
Lu 09	Platform areas, covered	150 lux
Lu 10	Concourses	150 lux
Lu 11	Footbridges, open	100 lux
Lu 12	Footbridges, covered	150 lux

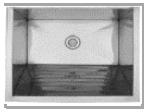
Lu 13	Tunnels, underpasses	200 lux
Lu 14	Lifts, landing areas	200 lux
Lu 15	Lifts, intermediate	100 lux
Lu 16	Directional signage	200 lux
Lu 17	Maps and displays	200 lux
Lu 18	Public areas - waiting rooms, reception area and public phones	200 lux
Lu 19	Interactive machines and devices	320 lux
Lu 20	Ticket cubicles, counter height and tops	500 lux
Lu 21	Parcels and luggage counters	300 lux
Lu 22	Offices	300 - 400 lux
Lu 23	Informal trading areas	150 lux
Lu 24	Ablutions	200 lux
Lu 25	Filling and store rooms	200 lux
Lu 26	Change rooms - showers and locker rooms	200 lux
Lu 27	Rest rooms	100 lux
Lu 28	Parking area	150 lux

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,4	General List of Sanitary Fittings & Specifications	Revision 12	2018/10/12	2012/11/05	PRASA Station Modernisation

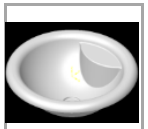
GENERAL NOTES:

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

ref. code	description	specification	Colour	product code	notes	image	extended specification
S	**Sinks * All fittings alternatives with note "equal approved" to be approved by authorised PRASA agent**						
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 / Mop 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.*

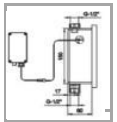
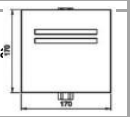
ref. code	description	specification	Colour	product code	notes	image	extended specification
S 07	Double Bowl WT	Double Wash Trough	Stainless Steel	SDWT-EC			*KWIKOT Grade 430 17/0 stainless steel double wash trough, size 1030 x 435x 290mm deep with two bowls, wash ridges and 40mm waste outlet, fixed to 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**						
T 01	Public Ablutions - ***preffered option***	Sloped Rustenburg Granite Slab basin to details document *(option 1)*			All public ablutions - preffered option		*Installation as per manufacturer's specification. To be used in conjunction with wall mounted push on demand tap as specified V08 - V11. See drwaing* **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 Abluitons	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: 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 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 3)*	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.*

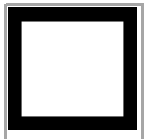
ref. code	description	specification	Colour	product code	notes	image	extended specification
T 18	Staff Ablutions	Vaal "Bantam" cloakroom basin with **one** taphole & pedestal *(option 7)*	white	703003	Staff Toilets -small toilet cubicles		*Vaal Sanitaryware Bantam vitreous china cloakroom basin colour 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 *(option 8)*	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 *(option 1)*	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*** *(option 3)*	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**						
U 01	Staff Urinals	Vaal "Sweetpea" wall mounted urinal with back inlet with automatic flush sensors or manual flush valve *(option 1)*	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 *(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 03	Staff Urinals	Vaal "Lavatera" wall mounted urinal with back inlet or top inlet with automatic flush sensors or manual flash valve *(option 3)*	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 *(option 4)*	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	Public Urinals	Betta Oceano wall mounted top inlet Urinal *(option 5)*	white	YBUO03016A	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**						
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.*

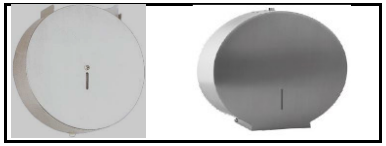
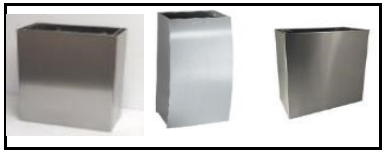
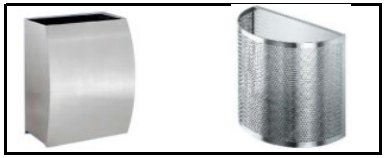
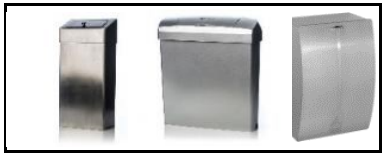
ref. code	description	specification	Colour	product code	notes	image	extended specification
V 03	Concealed Urinal Flush Valve	Concealed vandal resistant push-button urinal flush valve with wall plate		KM2.301	Public & Staff Ablution Facilities		*COBRA KM2.302 or equal approved. Concealed metering valve with self closing and non hold open feature with flow controller. Flow cycle can be adjusted form 1 - 20 seconds. SANS 1808 - 9*
V 04	Automatic Urinal Flush Valve	Concealed vandal resistant automatic urinal flush valve with infrared sensor *(option 1)*	chrome	4420/CH	Public & Staff 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 Urinal 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 WC 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 WC 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 Alutions 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 Alutions 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 time1 - 20 secs. SANS 1808-9*
V 10	Public whb Tap	Public Alutions 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 featur. Flow time 1 to 20 seconds SANS 1808-9*
V 11	Public whb Tap	Public Alutions 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 featur. 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*

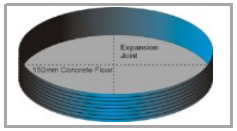
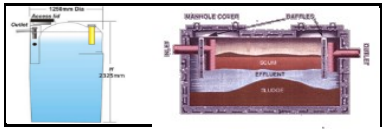
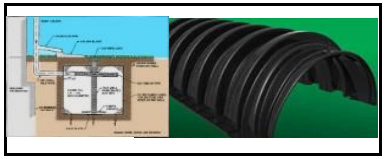
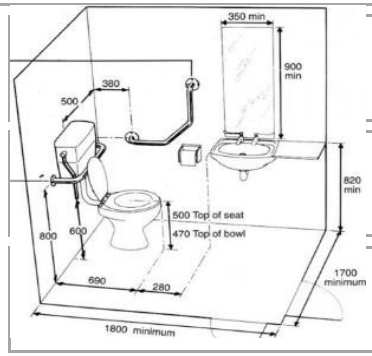
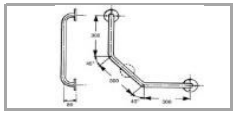
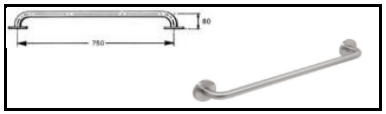
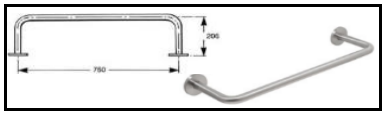
ref. code	description	specification	Colour	product code	notes	image	extended specification
V 23	Shower Head	Staff Ablutions Shower Rose *(option 1)*	chrome	09033	Staff Ablutions		*Idral - Water Save or equal approved Vandal Proof Shower Rose chrome finish, code 09033 from Italtile or equal approved.*
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 mixe. 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**						

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, fitments and duct flush pipe. Push button mechanism elsewhere specified. Can be used with any back inlet pan*
W 04	Public & Para-plegic 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 90º 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 & Para-plegic 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. Adjustible 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 Para-plegic 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 Para-plegic 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 fitments 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 *(option 1)*	white	772401/ 772402	Staff Toilets		*Vaal Sanitaryware Hibiscus vitreous china close coupled suite colour White (Code: 772654), comprising 90º outlet open rim pan (Code: 772600) with matching 9 litre front single flush cistern (Code: 772402) including lid and fitments and Jazz Thermoset seat.*
W 10	Staff Toilets	Betta Coral top flush suite with floor mounted open rim pan *(option 2)*	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 *(option 3)*	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 *(option 4)*	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 Para-plegic Toilet	Vaal "Pearl" paraplegic floor mounted suite with c.p. side flush lever *(option 1)*	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 90º outlet open rim washdown pan and matching 9 litre cistern, including lid, fitments and purpose-made chromium plated side flush lever.*
W 14	Staff Para-plegic Toilet	Vaal "Orchid" paraplegic wall hung WC with back inlet flushvalve & double flap wooden seat. *(installation height to be same as standard wheelchair)* *(option2)*	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: 8082Z0) comprising 90º outlet open rim back inlet pan (Code: 439016) with exposed back inlet flushvalve (elsewhere specified) and Orchid double flap seat (Code: 8520Z0).*
W 15	Public & Para-plegic Toilet	Betta Diplomat wall hung closed rim pan with soft close seat *(option 3)*	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. Adjustible 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**						

ref. code	description	specification	Colour	product code	notes	image	extended specification
X 01	Soap Dispenser	Wall Mounted Stainless Steel Soap 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.*
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 *(option2)*	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 min10 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. *All new Super Core and Core Stations*		Leading bathroom retailers			*As per the supplier specifications and installation*
Y	**Geysers**						
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. *Geysers to be installed for showers only. Hot Water can be supplied to whb only where in close proximity to showers.*	white	12 liter			*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 cilinder 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. *Geysers to be installed for showers only. Hot Water can be supplied to whb only where in close proximity to showers.*	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 thick4,5mm 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		*Cobra Watertech or equal approved 40mm rough brass shower P trap (Code: 373SQ) with shallow seal and chrome plated square grating.*

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,5	General List of Ironmongery Specifications	1	2018/01/12	2013/04/02	PRASA Station Modernisation

GENERAL NOTES:

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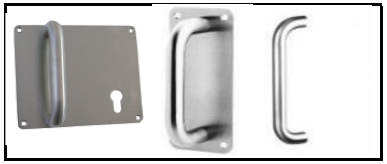
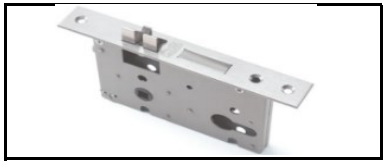
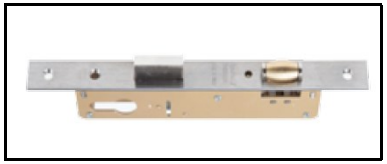
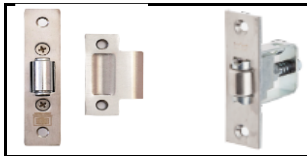
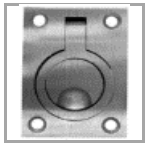
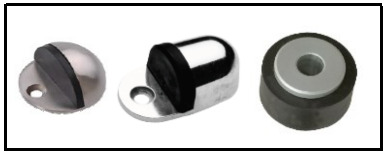
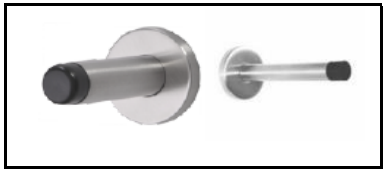
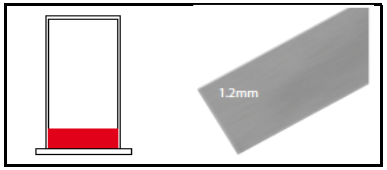
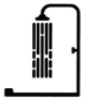
- *Information and specifications in it are subject to change and variation*
- *Where pictures are shown, these are a guideline to the specific products to be applied and installed and to be used as a reference*
- **All specifications with an asterix (*) is applicable to heritage sites only*

prasa
PASSENGER RAIL AGENCY OF SOUTH AFRICA

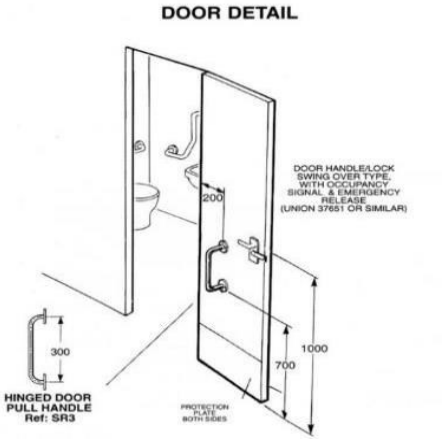
ref. code	description	specification	Colour	product code	notes	image	extended specification
Q	**Ironmongery**	**All fittings alternatives with note "equal approved" to be approved by authorised PRASA agent**					
Q 01	Lever Handle	Stainless Steel Lever Handle on a Backplate - Single doors	Stainless steel	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*
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 - 19x130mm,19x200mm,19x300mm*
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 - 19x130mm,19x200mm,19x300mm*
Q 04	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*
Q 05	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*

ref. code	description	specification	Colour	product code	notes	image	extended specification
Q 06	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*
Q 07	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*
Q 08	Locks	Stainless Steel Knob cylinder lock - if and where requred	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe				*60mm Grade 304 Stainless steel Euro profile Double with 6 pin and Master keyed*
Q 09	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 adjutbale Roller Catch*
Q 10	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*
Q 11	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*
Q 12	WC cubicle *(see Q13 for lock)*	Stainless Steel Toilet Cubicle Indicator bolt & lock set	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe				*Grade 304Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws.*

ref. code	description	specification	Colour	product code	notes	image	extended specification
Q 13	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.*
Q 14	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*
Q 15	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.*
Q 16	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.*
Q 17	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.*
Q 18	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 reqiured usage, fixed to surface with matching stainless steel screws. Flush door bolts to be installed at glass doors both double and or extension leafs*
Q 19	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*

ref. code	description	specification	Colour	product code	notes	image	extended specification
Q 20	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 lght to solid doors. For Anti Bandit doors heavy duty Door Closers to be used for weight up to 300kg*
Q 21	Door kickplate	Stainless Steel kick plate - all doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			*300x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door*
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*
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*

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



doc no:	document name:	rev	date	drawn	project name:
2,6	General List of PRASA Furniture Standards	Revision 04	2016/05/31	2013/06/03	PRASA Station Modernisation

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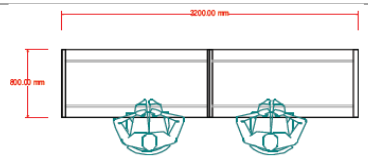
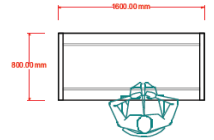
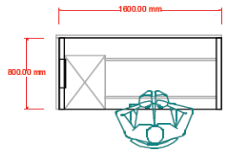
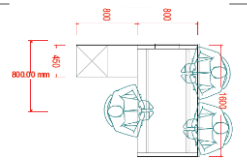
ref. code	description	specification	Colour	product code	image	notes	extended specification
O	**General Workstations**						
O 01	Desking	Two way desks, side by side 1600x800 without storage	American Walnut tops			Back Office	
O 02	Desking	Single desk, 1600x800 without storage	American Walnut tops			Back 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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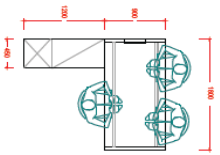
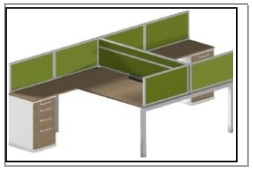
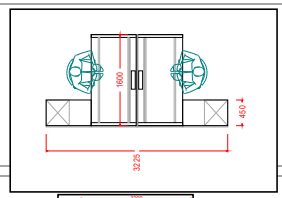
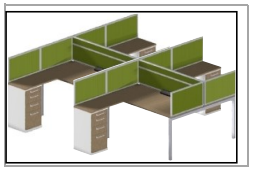
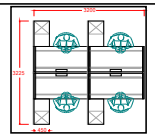
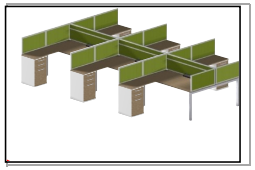
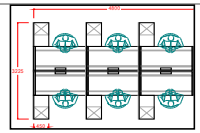
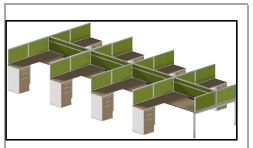
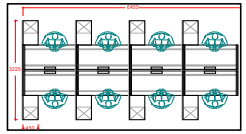
ref. code	description	specification	Colour	product code	image	notes	extended specification
O 05	Desking	Single desk, 1800x900 with and side table and pedestal and Corporate Connection plugset	American Walnut tops and storage fronts, white carcasses			Station Manager	
O 06	Cluster desking	Two way face 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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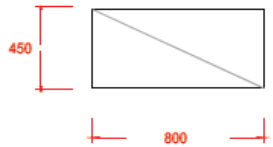
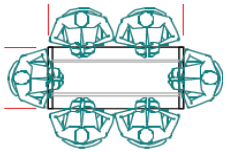
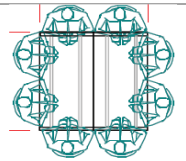
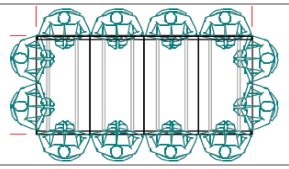
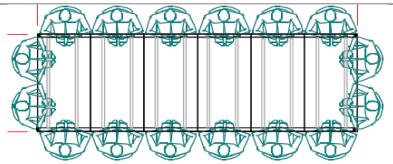
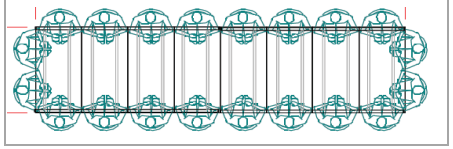
ref. code	description	specification	Colour	product code	image	notes	extended specification
O 10	Cupboard	Cupboard with shelves	White carcass and American Walnut doors			All workstations as required	
O 11	Meeting room	6 Seater, 1600x800	American Walnut tops			All offices as required	
0 12	Meeting room	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	Operators chair	High back operators chair with mesh back and cushioned seat	Black mesh and Blue seat			All offices as required	Gas height adjusment with standard synchro mechanism on a 5 star Nylon base with castors and Nylon flexible arms

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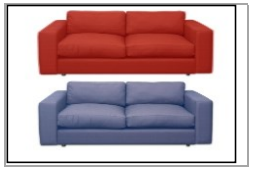
ref. code	description	specification	Colour	product code	image	notes	extended specification
O 17	Visitors and meeting room chairs	Mesh back with cushioned seat	Black mesh and Blue seat*			All offices as required	Black epoxy coated sleigh frame with arms
O 18	Ticket office chair	Cushioned back and seat	Black mesh and Blue seat*			All offices as required	Gas height adjusment 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	Wating 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 plug set	On all permanent work desks. 1 x Red 3 pin, 1 x Black 3 pin and 1 x 2 Pin		Corporate Connections		All office desking	
P	**Additional Moveable Items**						
P 01	Lockers	Steel Double Compartment Stacked Lockers	"Admiral Grey"	LO10	All Staff Lockers		*Double Door Locker, 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 1200mm (w) x 300mm or 400mm (d) (single) or 600mm (d) (double) x 1875mm (h), epoxy powder coated.*