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CORPORATE REAL ESTATE SOLUTIONS



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PRASA SEEKS TO INFORM THE BIDDER

THAT THE EQUIVALENT

OR SIMILAR PRODUCT OR SERVICES

Office Design Blue Print

Guidelines, spatial parameters and generic detailing

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



2022/06/08

PRASA Office Modernisation

GENERAL NOTES:

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

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document name:	rev	date	
1.1	Workspace Standards (Annexure 1 to Accommodation Policy)	Revision 02	2020/05/14
			PRASA Group Offices

GENERAL NOTES:

- This document is part a of set of documents which form the internal PRASA Group Accommodation Policy and Workspace Standards
- It is to be read in conjunction with the Generic Furniture specifications, ANNEXURE 2 and 3
- Information ais subjected to change
- Equipment is indicated as the minimum needed to comply. Any deviation from this guideline has to be approved as laid out in point 6. The Scope: Any request for deviation should be approved by the Group Chief Executive Officer, the CEO: PRASA Cres OR where necessary Design and Space Planning may recommend for approval to the office of PRASA CRES CEO.
- All entities mentioned below to have data, tel and power connection points



A	General Office Standards
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Space Occupancy	Area per workspace over total rentable area	15m² rentable per workspace is a strategic standard. (Storerooms and pause areas, this zone is chargeable to tenants and forms part of the gross area of a building)
	Occupancy over usable work space (e.g. Carpet space)	Minimum of 9m² per person
Workstation Footprint	Groupings of desks	Desking/benching configuration options to meet the needs of Business units
	Individual work surface size	1,28m² minimum desk surface space = 1600x800mm, 6m² per person including circulation space
	Placement of offices	Placement of offices is preferred in the centre of the building, leaving window areas open for the benefit of natural light penetration to the centre
Internal circulation	Circulation between desk clusters	The distance between one desk & another or the "entrance" area between two workstations can be a minimum of 900mm wide
	Tertiary routes	Tertiary routes are a minimum of 1200mm & internal passageways within a department is also 1200mm minimum wide
	Passageways to fire escape routes	As a benchmark primary passageways to major fire escapes routes are a minimum of 1500mm wide with an immediate clear area of 2100mm wide in front of escape
Occupational & Public health issues	Lavatory provision plus disabled facilities	Allow for 15 people for every 1 WC installed, this includes the accessible WC (as per SANS)
	Acoustics and noise	Maximum level of: 85 Decibels in general office space
	Personnel and vehicular access	Disability provision required in all new buildings. Provide where possible in older buildings (not required at the time of construction) if space and infrastructure allows for it
Occupational & Public health issues	Lighting	General work space

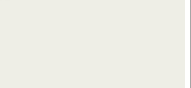
Internal applications	Cubicle	Senior Manager = 13m ² , Equipment: Std desk with storage; pedenzal, operators chair and 2 visitor chairs, storage cupboard, Enclosed with glass and solid full height partitioning, plug set Any deviation from this guideline has to be approved as laid out in point 6. The Scope
		Manager = 10m ² , Equipment: Std desk with storage; pedenzal, operators chair and 2 visitor chairs, storage cupboard, Enclosed with glass and solid 2400mm high partitioning, plugset Any deviation from this guideline has to be approved as laid out in point 6. The Scope
	Open plan - general staff	Manager = 7,5m ² , Equipment: Std desk with storage; pedestal, operators chair and 2 visitor chairs, storage cupboard, plug set Single workstation = 6m ² including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Two way side by side cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set
		Three way side by side cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Two way face to face cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Four way face to face cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Six way face to face cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Eight way face to face cluster = 6m ² per person including circulation, Equipment: Std desk with desk based screens and pedestal, operators chair and storage cupboard, plug set Free standing desk = 6m ² per person including circulation, Equipment: Std desk, operators chair, plug set Two way side by side free standing desks = 6m ² per person including circulation, Equipment: Std desk, operators chair, plug set
		Open plan - Call centre and Hot desks Two way face to face desks = 6m ² per person including circulation, Equipment: Std desk with desk based screens, operators chair and plug set Four way face to face centre desks = 6m ² per person including circulation, Equipment: Std desk with desk based screens, operators chair and plug set Six way face to face centre desks = 6m ² per person including circulation, Equipment: Std desk with desk based screens, operators chair and plug set Eight way face to face centre desks = 6m ² per person including circulation, Equipment: Std desk with desk based screens, operators chair and plug set
		Open plan - Personal assistants / secretaries Part of cluster seating or separately positioned. Equipment: Std desk with storage, pedestal, operators chair, storage cupboard and plug set
		Meeting area - informal Equipment: Four or six seater table with visitor chairs. Placed in the open space area
		Meeting rooms - formal Book able, Equipment: Six to twenty seater rectangular tables with visitor chairs. Server provided from a ten seater meeting room and upwards, white board, pull down projection screen and projector, data, telephone and power outlets provided in the centre of the table. Enclosed with glass and solid full height partitioning, lockable door
		Training Room Book able, Equipment: Standard rectangular training tables and chairs. Computer desks to be wired. Plugsets to be provided in floor, cable trays or with power poles. White board, flip charts, pull down projection screen and projector, data, telephone and power outlets. Enclosed with glass and solid full height partitioning, lockable door
		Waiting areas - general Size required within the 9m ² area allowed. Equipment: Double seater couches and single seaters, coffee tables, LED screens
		Storage and archiving - Formal and informal Utilized by all, size required within the 9m ² area. Equipment: High density units, fire proof cabinets, safes, cupboards and shelves. Enclosed with full height solid walling and or partitions. Rooms lockable
		Print Station - informal Utilized by all, size required within the 9m ² area. Open plan. Equipment: Printer/fax/copier device, data and recycling bins
Component Selection	Defined desking standards and types	According to style and specification
	Defined seating standards and types	According to style and specification
	Defined storage standards and types	According to style and specification
	Internal signage	According to style and specification as per Brand guidelines
Specific areas	Drawing office	As per requirement
	Specialized filing room	As per requirement
	Archive room	As per requirement
	Equipment room	As per requirement
	Library	As per requirement
	Strong rooms	As per requirement
	Server rooms	As per requirement
	Kitchen and pause areas	As per requirement

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2,1	PRASA Colour Specification	2	2022/04/06	2012/11/20	PRASA Office Modernisation

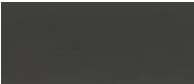
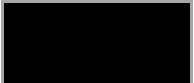

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- It is to be read in conjunction with Layout drawings and Room Finishing Reference sheets, below codes to be used as reference
- Information and specifications in it are subject to change and variation
- *All specifications with an asterisk (*) is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



P	Paint Colour Specification		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning						
ref. code	description	Plascon Colour Name	Plascon Colour Code	Dulux Colour Name	Dulux Colour Code	Duram Colour name	Duram Colour Code	Colour Sample	Notes
P 01	PRASA Blue = Pantone 3005 C	"Pristine Blue" <i>Plascon Inspired</i>	B4-A1-1	"Wind Tick"	99 BG 22/432	"Blue Cadet"	031 - 5		All feature walls and blue feature strips
P 02	PRASA Deep Grey	"Ibiza Bay" <i>Architectural Greys</i>	GR-Y14	Forrest Black	30 YY 10/038	"Smokey Chimney"	157 - 6		To be applied to all window sills and external steel window frames
P 03	PRASA Dark Grey Blue	"Nautilus" <i>Plascon Inspired</i>	B6-D1-1	"Signature Blue"	30 BB 10/112	"Night Beacon"	016 - 6		All existing timber skirting and all painted internal door frames
P 04	PRASA Neutral	"Offshore"	GR-Y03	Barley Beige	30 YY 68/024	"Wrought Iron"	140 - 1		to be applied to all external perimeter walls of the interior walls and as indicated on plan - to be balanced with white
P 05	PRASA Beige	"Wilted Leaf"	NEU 07	Russian White	20YY 68/102	"Almond Biscotti"	165-1		To be applied to internal walls - CEO and Group CEO offices only
P 06	PRASA Brown	"Stucco Wall" <i>Plascon Inspired</i>	O6-E1-2	Oakley Brown	80 YR 14/140	"Leather Saddle"	172 - 6		to be applied to all internal painted door leafs
P 07	White		Std Code		Std Code		Std Code		To be applied to all internal wallis as indicated and specified - to be balanced with PRASA Neutral
P 08	Black		Std Code		Std Code		Std Code		As specified

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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 Sample	Notes
Q		Aluminium Colours		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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	Aluminium Anodised Colour					Natural Anodised Aluminium			Glass and Aluminium doors, door frames, door hardware and any other aluminium requirements
Q 04	Aluminium Anodised Colour					Black Anodised Aluminium			
S		Varnish Colours		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
*S 01	*Existing / Heritage Sites	Plascon Woodcare Ultra Varnish	Clear X33 / X44	Dulux Woodgard Interior Double Life 'Timbavarnish'	Clear	Woodseal	Clear		

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2.1a	PRASA Paint Specification	1	2022/04/06	2016/05/23	PRASA Office Modernisation

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Paint Type

* These are guidelines on the type of paint to be applied - final finish

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 Exterior Double Life Timba varnish; Clear	GENERAL EXTERIOR	Woodcare Sunproof PNW clear	Woodseal, Clear
Woodguard Interior, Clear	GENERAL INTERIOR	Woodcare Ultra Clear	Woodseal, Clear
WALLS			
Luxurious Silk	INTERIOR; BRICK & 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,	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	Professional Gloss Enamel	Gloss Enamel

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	4	2022/04/06	2012/11/05	PRASA Office Modernisation

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- *All specifications with an asterix (*) is applicable to heritage sites only
- Where pictures are shown, these are a guideline to the specific products to be applied and installed and to be used as a reference
- "Equal approved" means that any alternative material or finish must comply with the indicated specification, written proof from the supplier/manufacturer to be presented to Prasa Cres PMU: Design and Space planning for final approval


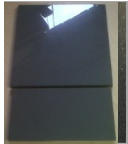





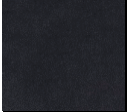

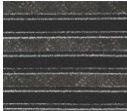
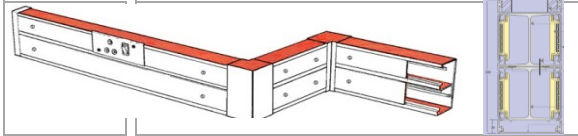
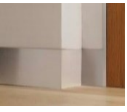
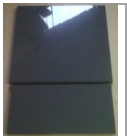
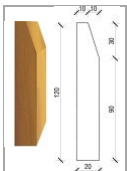
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A	Floor	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
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* Finished floor levels for all materials are to be identical unless otherwise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

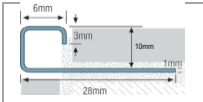
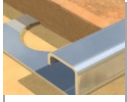
* Floor finish on minimum 30mm thick 1:3 cement/sand screed on 85mm thick concrete surface bed (to Engineer's detail) on 250 micron 'Gunplus' USB green or equal and approved waterproof membrane lapped min. 150mm with DPC to brickwork on 50mm sand blinding on well compacted clay free hardcore fill. Fill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

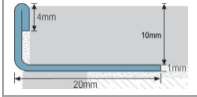
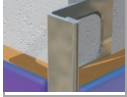
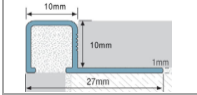

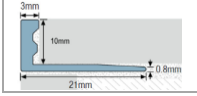

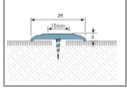

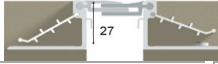


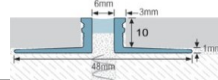


A 01	Porcelain tiles	600 x 600mm min R9 preferably R10 slip rated Full Bodied Porcelain tiles, mineralised with 3mm grouting lines from Union Tiles, Tilespace, JNB Ceramica or Tiletoria . Natural finish	Light Grey Grout: "Dark Grey"	UT= SEZZ6879N TS= TS2040AD JNB= 96ES TT=LG01 SMJDS	Main interior tile floor, kitchen and ablutions 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 Tile	300mm polished porcelain tile, bedded to wall with cement adhesive, with black grout. From Union Tiles, Tilespace, JNB Ceramica or Tiletoria	Black Grout:	TS = TS2116AD UT = SE20A POL3x6 AH JNB=102ES TT=SM744JDS	Border tiles and highlight areas		Full bodied porcelain tiles, size 300 x 300mm x8mm 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	Floor Carpets	500 x 500mm Loose lay EQUINOX , Project number 1022. Belogotex Commercial carpet tiles with Nexbac backing. Tessellated Installation or equal presented for approval	Taurus	EQUINOX	All boardrooms, meeting rooms and executive PA waiting areas		Tufted Multi scroll Loop pile, 100% Stainproof SDX solution dyed Nylon 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 04	Floor Carpets	500 x 500mm Loose lay EQUINOX , Project number 1022. Belogotex Commercial carpet tiles with Nexbac backing. Tessellated Installation or equal presented for approval	Taurus	EQUINOX	All office & admin areas to be alternated with Capricorn - refer to drawing....		Tufted Multi scroll Loop pile, 100% Stainproof SDX solution dyed Nylon Nexbac Eco™ SABS Class 3 fire rating grade heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.

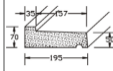

ref. code	description	specification	Colour	product code	notes	image	extended specification
A 04	Floor Carpets	500 x 500mm Loose lay EQUINOX , Project number 1022. Belogotex Commercial carpet tiles with Nexbac backing. Tessellated Installation or equal presented for approval	Capricorn	EQUINOX	All office & admin areas to be alternated with Equinox - refer to drawing...		Tufted Multi scroll Loop pile, 100% Stainproof SDX solution dyed Nylon 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	Broadloom carpet	Nexus Westminster tufted cut pile broadloom carpet or equal presented for approval	Isobar		All CEO, Executives, CEO PA and waiting areas		Tufted Cut pile pile, Stainproof SDX solution dyed Nylon Nexbac Eco™ SABS Class 2 fire rating grade heavy commercial carpet tiles, broadloom 7mm pile height, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.
A 07	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 13	Walk-off Mats	Matco Trio Scraper or equal approved Walk-off mat. Suitable for interior & exterior covered entrances.	Anthracite	2402	All main entrances to be 4m min depth & entrances from platforms to be min 3m		Matco Trio Scraper or similar approved Walk-off mat, overall size 4000mm or 3000mm x 12mm consisting of 100% polypropylene coarse fibre needle felt brushes alternated with soft strips to effectively scrape & dry with anti-slip latex backing (Code: 2402) glued in recess bedded into screed (by others), installed in accordance with the manufacturer's recommendations. To be vacuum cleaned regularly.
B	Skirting	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
B 01	Power Skirting	2 or 3 Compartment powdercoated steel electric trunking 160mm high with power, tel & data outlets, to electrical layout	Motorcraft grey		All 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 without power skirting. Install before flooring finish is applied
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.	Clear Varnish	See Prasa 2.1 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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
*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 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.
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	Clear Varnish	See Prasa 2.1 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 (LS 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 Dark Grey Blue	See Prasa 2.1 Colour spec Section P, P03	All existing <u>painted</u> skirtings, to be lightly sanded down & painted		Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Universal Primer with an overcoating time of 18 hours. Finish with two coats Plascon Professional Eggshell Enamel (PSB 700) or Dulux Eggshell Enamel (code: D25) or Duram Nuglo with supplier drying time between coats.
C	Walls	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
C 01	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.	Ivory polished Grout colour: Mushroom	TS = TS2115AD UT = SE SPA 6100 3x6 AH JNB=100ES TT=SM170JDS	Main building reception, lift foyers and passages, above 1200mm accent band as specified and all ablutions (300x600) and kitchens (300x600). Tiles to be applied horizontally.		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 02	Polished Porcelain tiles	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	Main building reception, lift foyers and passages, above 1200mm accent band is so specified and 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.



ref. code	description	specification	Colour	product code	notes	image	extended specification
C 03	Interior Cement Plaster, Concrete & Dry Walls	12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen acrylic paint.	Prasa Neutral	See Prasa 2.1 Colour spec Section P04	Main building reception, individual floor receptions, lift foyers, stair cases, passages, general office space, meeting rooms 4 - 10 seaters, print hubs, ablutions, kitchens, print hubs and stores - (to lighten up space) to be balanced with White		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 Universal Primer with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.
C 04	Interior Cement Plaster, Concrete & Dry Walls	12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen acrylic paint.	Prasa Blue	See Prasa 2.1 Colour spec Section P01	High light areas throughout building used sparingly		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 Universal Primer with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.
C 05	Interior Cement Plaster, Concrete & Dry Walls	12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen acrylic paint.	Prasa Neutral	See Prasa 2.1 Colour spec Section P04	General office space, and all meeting rooms - "External" perimeter walls. (Excluding CEO space)		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 Universal with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.
C 06	Interior Cement Plaster, Concrete & Dry 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.	White	See Prasa 2.1 Colour spec Section P07	Main body walls		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 Universal with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.
C 07	Interior Cement Plaster, Concrete & Dry Walls	12mm one coat smooth plaster and painted with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen	Prasa Beige	See Prasa 2.1 Colour spec Section P05	14 Seater and up meeting rooms. Ceo office space including PA areas and meeting rooms, Exco board rooms and lounge if applicable		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 Universal Primer with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) or Dulux Luxurious Silk (D22) or Duram Wallsheen with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to Wall finishes drawing.
C 08	Interior Cement Plaster, Concrete & Dry Walls	Vinyl wall paper application	As specified, to be approved by PMU: Design and Space planning	As specified, to be approved by PMU: Design and Space planning	Reception areas, highlight areas		Surface to be dry, sound and clean and cured. Prime with one Universal Undercoat coat primer before wallpaper is applied.



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C 09	Exterior Cement Plaster & Concrete Walls	12mm one coat smooth plaster and painted with two coats Plascon Wall and All or Dulux Weatherguard Ultrasmooth or Duram Armatex / Wall Tech	All PRASA colours	See Prasa 2.1 Colour spec Section P,	All exterior cement plaster & concrete surfaces to be painted, as per Architect specification		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 Universal with an overcoating time of 18 hours and finish with two coats Plascon Professional Wall and All or Dulux Luxurious Silk (D22) or Duram Armatex / Waal Tech with supplier drying time between coats. Colours to be according to PRASA paint schedule and applied according to specified colours
C 10	Concrete	Off shutter concrete to be cured as per engineer's details.					Exposed concrete feature walls to be steel shuttered and cured according to engineers details & specifications. Angles and horizontal casting joints to be as per PRASA Generic Details document. Shuttering holes to be left exposed (not plugged with cement)
C 11	Drywall	90mm fixed partition drywall partitioning	Painted with natural anodised aluminium frames - refer to C03 to C07 and Prasa 2.1 Colour Spec Section P		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 12	Palisade Fences	Existing Steel Palisade Fences	PRASA Dark Grey Blue	See Prasa 2.1 Colour spec Section P, P03	Plascon Synlac 5000 or similar approved Enamel to existing coated exterior mild steel. Remove all paint and rust completely. Apply Plascon or similar approved Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rust Rust Converter (EMS 21) or similar approved copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1), Professional Undercoat (PU 800) or similar approved to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) or similar approved to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Synlac 5000 Enamel (SL 5000) or similar approved with 2 hours drying time between coats, for a maintenance cycle of 2 years in a C3 - industrial environment.		
D	Dados, Picture Rails, Trims & Corner Protectors		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning				
*D 01	Existing Timber - heritage	Existing Timber dados & picture rails to be lightly sanded & varnished with Clear Plascon Woodcare Ultra Varnish or Dulux Woodgard Interior Double Life 'Timbavarnish' polyurethane varnish as per heritage requirements. Eggshell finish.	Clear Varnish	See Prasa 2.1 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 Enamel alkyd paint. New skirtings to match existing to be installed where necessary.	PRASA Deep Grey	See Prasa 2.1 Colour spec Section P, P05	all existing <u>painted</u> dados & picture rails, to be lightly sanded down & painted		Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Plascon Professional Wood Primer (PP 800) or Dulux Primer for Wood (Code: D33) with an overcoating time of 18 hours. Apply one coat Dulux Universal Undercoat (code: D34) with an overcoating time of 18 hours and finish with two coats Plascon Professional Eggshell Enamel (PSB 700) or Dulux Eggshell Enamel (code: D25) with an overcoating time of 18 hours.
D 03	SS tile-in corner protector	Stainless Steel square edge trim for all tiled corners in main commuter or high traffic areas. Selected super core, core & intermediate stations.	Stainless Steel	EQS 100.84 SQE100.B			Genesis 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.

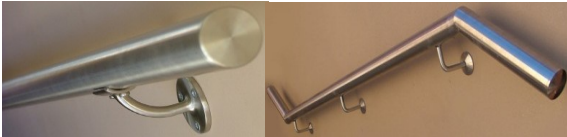
ref. code	description	specification	Colour	product code	notes	image	extended specification
D 04	SS tile-in straight edge trim	Stainless Steel square edge trim for all tiled corners in main commuter or high traffic areas. Selected super core, core & intermediate stations.	Stainless Steel	ESS 100.84 SSE100.B			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.
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: TDF104.81), 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 porcelain tile edges, securely bedded in adhesive.
D 07	Alu threshold strip	Aluminium carpet threshold strips	Matt Silver	TCA 109.81 ATC300.MF	thresholds requiring cover strips for all new carpeted areas		Genesis 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	All stairs		Genesis interior aluminium Tile-In step edge in Matt Silver finish (code: NTL108.81), size 19 x 10mm x 2,8m long, or M-Trim 25 x 10mm high mill finish aluminium tile-in stair nosing (Code: ATIN100.MF) bedded in tile adhesive, plugged and screwed to tread while tiles are laid.

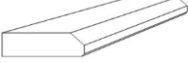



ref. code	description	specification	Colour	product code	notes	image	extended specification
E	Window sills	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
*E 01	Existing Internal Timber sills - Varnished	Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	Clear Varnish	See Prasa 2.1 Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Prime with one coat Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear as per supplier drying time ** All to be in compliance with heritage requirements.
*E 02	Existing External Timber sills	Existing Timber sill to be sanded down & varnished or repainted with two coats of quality varnish as per heritage requirements	Clear Varnish	See Prasa 2.1 Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Prime with one coat Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear as per supplier drying time ** 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 Colour spec Section P, P02 as specified	All existing painted skirtings, to be lightly sanded down & painted		Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Wood Primer with an overcoating time of 18 hours. Finish with two coats Plascon Professional Eggshell Enamel 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	To Architects specification					
E 06	New external window sill	To Architects specification					
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 equal 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.
E 08	Blinds	New horizontal timber venetian blinds with 50mm slats to all windows.	Walnut	Windovert:	All CEO offices windows, to be fitted inside reveal to lintel.		Windovert or equal approved timber venetian blind, size to fit window with 50 x 2.5mm thick slats including cordlock and roller pins, blinds to be fitted inside reveal to lintel.







ref. code	description	specification	Colour	product code	notes	image	extended specification
F	Doors	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
F 01	Existing External Steel Door Frame Finish	Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel (PBS 1000) or Dulux Trade Gloss Enamel paint.	White	See Prasa 2.1 Colour spec Section P, P06	All existing mild steel door frames		Remove all paint and rust completely. Apply Rust Remover to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply a Rust Converter copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Universal Primer undercoat or Professional Primer undercoat to bare and repaired areas. Allow 16 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel or Duram Gloss Enamel with supplier drying time between coats. Colours to be according to PRASA paint schedule
F 02	Existing Internal Steel Door Frame Finish	Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel paint or Duram Gloss Enamel	PRASA Dark Grey Blue	See Prasa 2.1 Colour spec Section P, P03	All existing mild steel door frames		Remove all paint and rust completely. Apply Rust Remover to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply a Rust Converter copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Universal Primer undercoat or Professional Primer undercoat to bare and repaired areas. Allow 16 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel or Duram Gloss Enamel with supplier drying time between coats. Colours to be according to PRASA paint schedule
F 03	New Steel Door External Frame Finish	New steel door frames to be sanded lightly, treated and painted with Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel paint or Duram Gloss Enamel	White	See Prasa 2.1 Colour spec Section P09	All new mild steel door frames		Ensure surfaces are clean, dry and sound. Apply either Universal Primer undercoat or Professional Primer undercoat to bare and repaired areas. Allow 16 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel or Duram Gloss Enamel with supplier drying time between coats. Colours to be according to PRASA paint schedule
F 04	New Steel Door Internal Frame Finish	New steel door frames to be sanded lightly, treated and painted with Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel paint or Duram Gloss Enamel	PRASA Dark Grey Blue	See Prasa 2.1 Colour spec Section P03	All new mild steel door frames		Ensure surfaces are clean, dry and sound. Apply either Universal Primer undercoat or Professional Primer undercoat to bare and repaired areas. Allow 16 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel or Duram Gloss Enamel with supplier drying time between coats. Colours to be according to PRASA paint schedule
F 05	Alu Door Frame Finish	All new aluminium door frames to be natural anodised aluminium.	Natural Anodised Aluminium	See Prasa 2.1 Colour spec Section Q, Q03			
*F 06	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 Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Prime with one coat Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear as per supplier drying time ** All to be in compliance with heritage requirements.
*F 07	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 Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Prime with one coat Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear as per supplier drying time ** All to be in compliance with heritage requirements.

ref. code	description	specification	Colour	product code	notes	image	extended specification
F 08	Internal Painted Door Leaf Finish	Paint all internal door leafs to be painted with Plascon Velvagio or Dulux Trade Pearlglo or Duram Nuglo Emulsion paint.	PRASA Brown	See Prasa 2.1 Colour spec Section P, P07	All internal door leafs		Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Universal Primer with an overcoating time of 18 hours. Finish with two coats Plascon Velvagio or Dulux Pearlglo or Duram Nuglo as per supplier drying time ** All to be in compliance with heritage requirements.
F 09	External Painted Door Leaf Finish	Paint all internal door leafs to be painted with Plascon Velvagio or Dulux Trade Pearlglo or Duram Nuglo Emulsion paint.	PRASA Dark Grey Blue	See Prasa 2.1 Colour spec Section P, P02	All external door leafs		Lightly sand with abrasive paper, leaving surface clean and dust free. Prime surface with one coat Universal Primer with an overcoating time of 18 hours. Finish with two coats Plascon Velvagio or Dulux Pearlglo or Duram Nuglo as per supplier drying time ** All to be in compliance with heritage requirements.
F 10	Strong Room Doors	Heavy Weight Category 2 Standard Strong Room Door	"Matt Dark Umber Grey" See Prasa 2.1, Colour Spec Q01 for external	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.
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 SA Bullit	All internal access to Customer Services Centres		G2 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS anigle 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
G	Windows	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
G 01	Aluminium Window Frame Finish	All new aluminium windows to be natural anodised aluminium	natural anodised aluminium	See Prasa 2.1 Colour spec Section Q, Q03			
*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 Colour spec Section S, S01	All existing varnished timber & heritage sites		Sand with abrasive paper, leaving surface dry, clean and dust free. Prime with one coat Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear with an overcoating time of 24 hours and finish with two coats Plascon Woodcare Sunproof or Dulux Double Life Timbavarnish or Duram Woodseal Clear as per supplier drying time ** All to be in compliance with heritage requirements.
G 03	Existing Steel Window Frame Finish	Existing steel door frames to be sanded down, treated and painted with Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel paint or Duram Gloss Enamel	White / PRASA Deep Grey	See Prasa 2.1 Colour spec Section P, P02 or P07	All existing mild steel door frames		Remove all paint and rust completely. Apply Rust Remover to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply a Rust Converter copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Universal Primer undercoat or Professional Primer undercoat to bare and repaired areas. Allow 16 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel or Dulux Trade Gloss Enamel or Duram Gloss Enamel with supplier drying time between coats. Colours to be according to PRASA paint schedule

ref. code	description	specification	Colour	product code	notes	image	extended specification
H	Ceilings	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
H 01	Ceiling Tiles - Acoustic	1200 x 600 x 15mm thick acoustic ceiling tiles laid on prepainted tees and adjustable hanger system.	White	Futura 60 or equal approved	All office areas		OWA Acoustic(R) Futura Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.75, 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 02	Ceiling Tiles - Vinyl coated	1200 x 600 x 12,5mm vinyl faced ceiling panels laid on tees and adjustable hanger system. Owa coustic	White		Storerooms, kitchen & and cleaners area		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 Colour spec Section P, P07	As per Architects specification and application. All ablutions		
H 03	Painted concrete soffit	Concrete soffits to be painted, rippel paint texture	White	See Prasa 2.1 Colour spec Section P, P07	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 Pearlglö Water Clean-Up (D40) with 4 hours drying time between coats.
H 04	Plaster & painted concrete soffit	15mm smooth plaster to underside of soffit & painted.	White	See Prasa 2.1 Colour spec Section P, P07	Smooth finish		
H 05	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, P07	All eaves to be closed with fiber cement or Magna Boards		

ref. code	description	specification	Colour	product code	notes	image	extended specification
I	Cornice	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
I 01	Cornice	Standard Donn plaster trim shadow line cornice between and perimeter walls.					
I 02	New Coved Corince	New cornice to be prepared and painted with two coats of quality PVA to match existing.					
I 03	Existing Coved Corince	Existing coved cornices to be sanded down and repainted .					
I 04	New 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	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
J 01	New Balustrades & handrails	50mm dia AISI Type 304 stainless steel and shall be buffed to an even satin finish. Stainless steel screws shall be used for fixing stainless steel, to comply with SANS regulations.			Building staircases		
J 02	Exposed Columns & Beams	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied	PRASA Deep Grey	See Prasa 2.1 Colour spec Section P, P05	All exposed steel	<p>Surface to be clean and dry. Remove surface contaminants using Plascon Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Plascon Professional High Build Zinc Phosphate Primer (UC 170) with an overcoating time of 18 hours and finish with two coats Plascon Professional Brilliant White Gloss Enamel (PSB 1000) with 16 hours drying time between coats or 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.</p>	
J 05	Existing Balustrades (not being replaced)	One coat of waterprime, one coat of universal undercoat, two coats of gloss Enamel as supplied.	PRASA Deep Grey	See Prasa 2.1 Colour spec Section P, P03	All existing mild steel handrails		

ref. code	description	specification	Colour	product code	notes	image	extended specification
M	Miscellaneous		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning				
M 01	Granite Tops	Rustenburg Granite Tops (For public ablutions wash hand basins refer to generic detail 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 Walnut		All back-office worktops & desk tops		PG Bison 32mm thick Formica Lifeseal Worktop in American Walnut Loglare with Squareline profile on 1 long edge, consisting of a Formica High Pressure Laminate bonded to a moisture resistant Bisonbord Particleboard substrate with laminated on one side backer, manufactured in accordance with SANS ISO 4586:1995 constructed in accordance with the drawings.
M 03	Security Barrier - Mesh Screening	High density security galvanised mesh fence with min 3mm wire diameter with min 76x12mm inner apertures and min 3050mm wide panels to be reinforced with 4x 50mm V formation horizontal recessed bands. Height above the ground to be 2100mm. All fixtures to be on the inside of the fence line. 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 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.	Black and or natural galvanising	Clearvu by Cochrane or equal approved	PRASA Protection Services to be consulted on risk rating and fencing type assessment		

ref. code	description	specification	Colour	product code	notes	image	extended specification
M 04	Security Barrier -New Palisade Screening	Constructed of galvanized steel sections, palisade fence with an 2400mm min height. The materials, construction and installation procedure for steel palisade fences to be in accordance with SANS 301-12:2004 " South African National Standard for fence part 12 specifications for steel Palisade fences". Reference to applicable SANS specifications for full details.	Natural Galvanized		PRASA Protection Services to be consulted on risk rating and fencing type assessment		
M 05	Security Barrier - Existing Palisade Screening or new	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		
M 06	Roller Shutters	Manual Push-up Roller Shutters, for openings not exceeding 2,0m x 3,0m high. 	Powder Coated "Matt Dark Umber Grey" ANP 3057		NOTE: <ul style="list-style-type: none">• This is a generic spec, id site specific requirements• Motorised doors up to 25m² generally require single phase (220V) with a HL600 motor.• Motorised doors 25m² - 35m² generally require 3 phase (380V) with a HL800 motor.• Motorised doors > 35m² require 3 phase (380V) with Heavy Duty motor.• Higher spec motors may be required due to extraordinary circumstances, such as high frequency door usage• No slidebolts for motorized doors – can cause motor to burn out if not disengaged• Closed shafts specified due to low maintenance requirements• For 8x6m doors: recommend to specify 1m of solid slats at top and bottom to lend rigidity to the see-thru profile• All operational area roller shutters to be motorised	<i>Roll-Up Serranda or equal approved See-Thru galvanised & epoxy coated M/S perforated 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.</i>	
M 07	Roller Shutters	Motorised Roller Shutters, for openings 6m² - 25m².	Powder Coated "Matt Dark Umber Grey" ANP 3057			<i>Roll-Up Serranda or equal approved See-Thru galvanised & 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.</i>	
M 06	Roller Shutters	Motorised Roller Shutters, for openings larger than 25m².	Powder Coated "Matt Dark Umber Grey" ANP 3057			<i>Roll-Up Serranda or equal approved See-Thru galv. & 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.</i>	
M 07	External pause areas	Precast concrete 1500mm, 1600mm or 1800mm long bench.	concrete			<i>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.</i>	

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,3	General List of Lighting Specifications	Revision 06	2022/04/06	2012/12/05	PRASA Office Modernisation

GENERAL NOTES:

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







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


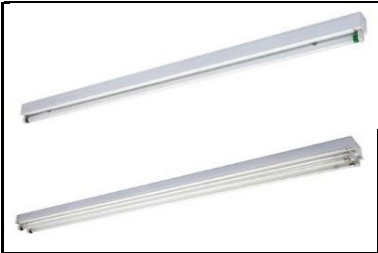


- * Lighting design to be in accordance with Electrical Engineer's designs & specifications to achieve require lux levels as per 2.3a
- * All lux levels to be in accordance with SABS & PRASA standards, see 2.3 a
- * Key considerations for lighting designs: Energy efficiency, economic viability & low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

L 01	Office areas , 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, GL 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. Fitting to be BLUE LIGHT certified Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 02	Office Lighting - office work areas	Conventional 1200x600mm & 600x600mm Recessed Lighting for Suspended Ceilings	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		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.


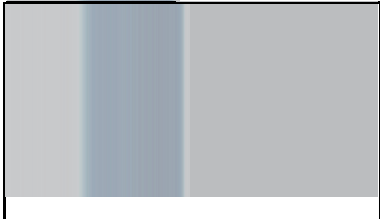

- *All LED tubes, bulbs and lamps to be "BLUE LIGHT" certified

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

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L 07	Office lighting - public access, passages, pause areas and ablutions	Fully recessed LED Flat Downlighter Luminaires - used as general and accent lighting <i>(option 2)</i>	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting		Fully recessed downlighter luminaire made from high grade die- cast aluminium and a specular reflector with passive heat sink. Output to be min 9W,4000K, 800lm plus and CRI of 80 plus.Fittings to comply with the SANS 60598 codes and or CEand ROhs certification with an IP44 rating. Fitting to be BLUE LIGHT certified Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 08	Open channel fittings for store rooms and basement parking areas	Conventional 1200mm Open Channel luminaire, for surface mounted fittings	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL 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 gear to be used as a standard. Electronic ballast to be integral to luminaire. Output to be min 2x54w lamps with 5000l per lamp and 1x54W. Fittings to comply and bear SANS 60598 - 2 - 3 Safety Mark The lamp holders to be IP65 rating.
L 09	Façade, area, highlighting, security and general lighting	Fully recessed LED Flat Downlighter Luminaires - used as general and accent lighting of external building environment	White Trim	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		Fully recessed downlighter luminaire made from high grade die- cast aluminium and a specular reflector with passive heat sink. Output to be min 9W,4000K, 800lm plus and CRI of 80 plus.Fittings to comply with the SANS 60598 codes and or CEand ROhs certification with an IP44 rating. Fitting to be BLUE LIGHT certified Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 13	Bulkhead and wall luminaires	LED Bulkhead and wall mounted effect lighting	White	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		Surface mounted luminaire consisting from a die cast aluminium base and trim ring with a high impact opal acrylic diffuser. Control gear is mounted in base. Both the base and trim ring to be powder coated. Size: plus minus 280mm diameter. Output to be min 20W with 2000lm, 4000K and CRI of 80 plus.Fittings to comply with SANS 60598 codes and or CE and ROHS certification, with an IP65 rating for the lamp compartment. Fitting to be BLUE LIGHT certified Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 14	Basement parking areas	Surface and recessed mounted low bay LED luminaire	white / stainless steel	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL 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 Polycarbonate as optional.Easy installation must be external mounting lugs and hingeable function.Output to be from 90W - 144W pending roof height. Lumen variance from 11000 - 17000l pending wattage.4000K and CRI of 70 plus. Fittings to comply with SANS 60598 code and or CE and ROHS certification, IP66 rating for both lamp and gear tightness.Fitting to be BLUE LIGHT certified. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product

- *All LED tubes, bulbs and lamps to be "BLUE LIGHT" certified

L 15	Strip Light and Alcove	Waterproof LED strip light	white or blue	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		Energy-saving LED Strip light, code: NLL-S18/W or NLL-S18/B, with a transparent PVC body, 72pcs/m, 4.8 W/m, heat and cold resistant with white or blue 72 LEDs / m in 1,5m unit lengths and life span of 50000-100000 hours.Fitting to be BLUE LIGHT certified.
L 16	Area,urban,ped-estrian and bike path zones and narrow road lighting	LED Post Top Luminaire 3 - 5 meter mounting height	White with charcoal post	Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		LED post top luminaire manufactured from powder coated die - cast aluminium base and gear plate and high impact acrylic protector. Output to be from 36W 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. A surge protector of 10kA to be fitted. Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product
L 17	Post Top Light	LED Flood Light / Post Top Luminaire 4 - 6 meter mounting height		Pure Light LED, BEKA, Lighting Innovations, Regent Lighting, Genlux Lighting, GL Lighting		Flood LED luminaire manufactured from high pressure unpainted die - cast aluminium housing complying with SANS 60588 --5. Both LED engine and power supply compartments to comply with IP 66 rating. Protector to be from high-impact clear flat glass or high impact acrylic. Output to be from 50W to height of 6meters. Lumen variance from 6800l. 4000K and CRI of 70 plus. Fittings to comply to SANS 60598 codes and or CE and ROHS certifications . Use spigot adaptors on existing poles.Power factor 0.95. All drivers to be either Meanwell, Phillips, Helvar or Tridonic with 10KA surge protection A LOA (Letter of Authority) and IEC certificate to accompany the product

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2.3 a	General List of Lighting LUX Levels	1	2016/10/13	2014/07/23	PRASA Office 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
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ref. code	description	Colour
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Lu	LUX Levels:
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- * 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 substituted, 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	Lifts, landing areas	200 lux
Lu 09	Lifts, intermediate	100 lux
Lu 10	Directional signage	200 lux
Lu 11	Maps and displays	200 lux
Lu 12	Public areas - waiting rooms, reception area	200 lux

Lu 13	Offices	300 - 400 lux
Lu 14	Ablutions	200 lux
Lu 15	Filling and store rooms	200 lux
Lu 16	Change rooms - showers and locker rooms	200 lux
Lu 17	Rest rooms	100 lux






doc no:	document name:	rev no:	date issued:	date drawn:	project name:
2,4	General List of Sanitary Fittings & Specifications	Revision 4	2022/04/06	2012/11/05	PRASA Office Modernisation










GENERAL NOTES:


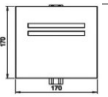











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ref. code	description	specification	Colour	product code	notes	image	extended specification
S	Sinks *	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
S 01	Double Bowl Sink	Larger Kitchen Sinks	Stainless Steel	821048			Franke Projectline Model PLN621 or equal approved 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	Single Bowl Sink	Small Kitchens / Kitchennette 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.





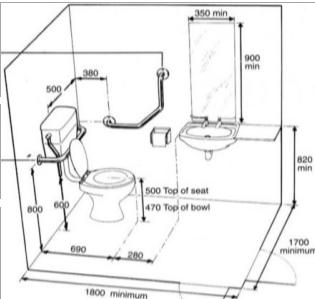
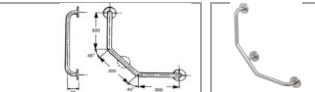

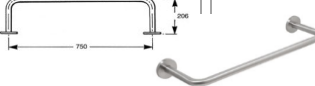
ref. code	description	specification	Colour	product code	notes	image	extended specification
T	WHBs	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
T 01	Granite Slab	Rustenburg Granite Slab to details document			All public ablutions		
T 02	Para-plegic whb	Vaal "Hibiscus" wall mounted basin with one taphole & pedestal <i>(option 1)</i>	white	702 303	Paraplegic 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: 844820) and including Universal half pedestal with hanger springs (Code: 715221) and sealed with silicone sealant where basin meets wall. To be used in conjunction with paraplegic tap V07 as specified.
T 03	Building ablutions	Vaal "Iceberg" drop-in vanity basin. <i>(option 1)</i>	white	703400	Sunk into Rustenburg Granite slab		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 04	Building ablutions	Vaal "Midi Weaver" basin with one taphole & surface mounted <i>(option 2)</i>	white	706 601	Surface mounted on top of a Rustenburg Granite vanity top		Vaal Sanitaryware vitreous china 450x350x130mm "Midi Weaver" rectangular surface mounted basin with one taphole. Colour White (Code: 7023) Mounted onto a vanity surface, place basin on a vanity surface over precut outlet hole. Fit waste and fasten nut.
T 05	Building ablutions	Vaal "Hibiscus" basin with one taphole & pedestal <i>(option 1)</i>	white	702 303	Ablutions 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: 844820) 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.
U	Urinals	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
U 01	Staff Urinals	Vaal "Lavatera" wall mounted urinal with back inlet or top inlet with automatic flush sensors or manual flash valve <i>(option 3)</i>	white	705326	Staff Toilets		Vaal Sanitaryware Lavatera white vitreous china wall mounted urinal with top inlet (code 705426) or back inlet (code 705421). Overall size 600x385x380mm. Supplied with 38mm c.p. domical grating, a spreader (with a 20mm tread) and two hanger brackets
U 02	Staff Urinals	Betta Ben flat back wall mounted top inlet Urinal <i>(option 4)</i>	white	UA0108A	Staff Toilets		Betta Ben flat back wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Weight 13.2kg - width 330mm - length 530mm. 10 year warranty on the ceramic.
U 03	Staff Urinals	Betta Oceano wall mounted top inlet Urinal <i>(option 5)</i>	white	YBU00301 6A	Public Ablutions		Betta Oceano wall mounted top inlet Urinal, including kit, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. 10 year warranty on the ceramic.

ref. code	description	specification	Colour	product code	notes	image	extended specification
V	Taps & Flush	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
V 02	Automatic <u>Urinal</u> Flush Valve	Concealed vandal resistant automatic urinal flush valve with infrared sensor		EL-8.112	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 03	Concealed <u>Urinal</u> Flush Valve	Concealed vandal resistant push-button urinal flush valve with wall plate		KM2.301	Public & Staff Ablution Facilities		COBRA KM2.302 or equal approved. Concealed metering valve with self closing and non hold open feature with flow controller. Flow cycle can be adjusted from 1 - 20 seconds. SANS 1808 - 9
V 03	Concealed <u>WC</u> Flush Valve	Concealed vandal resistant push-button toilet flush valve	chrome	106C	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 04	Concealed <u>WC</u> Flush Valve	Concealed vandal resistant push-button toilet flush valve	chrome	37 609	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 05	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 2) from any COBRA agent	chrome	KM066WT-114	Public Ablution - Facilities Sloped granite whb only		COBRA - Self closing push button metering spout, wall type with non-hold open feature for cold water only. Chrome finish. Flow time 1 - 20 secs. SANS 1808-9
V 06	Public whb Tap	Public Ablutions sloped whb Push Button Tap (option 3) from Tile Space	chrome	GK. T0022AB	Public Ablution - Facilities Sloped granite whb only		OFA - Self closing push button wall tap, with non-hold open feature. Flow time 6 to 10 seconds
V 07	Paraplegic whb Tap	Paraplegic Elbow Action WHB Tap	chrome	02150	Paraplegic Toilets		Idral - Rubenitto or equal approved Single Lever Basin Mixer, chrome finish, code 02150 from Italtie or equal approved.
V 08	Paraplegic whb Tap	Paraplegic Elbow Action WHB Tap from any Cobra agent	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 11	Staff Basin Tap	Staff or Public Ablutions - Cold Water Supply Tap from any Cobra agent	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 12	Staff Basin Tap	Staff or Public Ablutions - Cold Water Supply Tap from Tile Space	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

ref. code	description	specification	Colour	product code	notes	image	extended specification
V 13	Shower Mixer	Cobra "Noka" c.p. wall mounted mixer	chrome		All showers		Cobra Watertech Noka or similar approved 15mm chrome plated wall mounted underwall mixer (Code: NA-956), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).
V 14	Shower Head	Ablutions Shower Rose	chrome	09033	Ablutions Facilities		Idral - Water Save or equal approved Vandal Proof Shower Rose chrome finish, code 09033 from Italtile or equal approved.
V 15	Shower Head	Staff Ablutions Shower Rose (option 2)	stainless steel	359 747	Ablutions Facilities		Franke AQUAJET-Slimline AQUA 750 or equal approved stainless steel shower head (code: 359747) with plastic jet face with calcification system and pluggable connection spigot.
V 16	Sink Mixer	Kitchen Sink Mixer (option 1)	chrome plated	NA-970	Staff Kitchens		Cobra Watertech Noka or similar approved 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 17	Sink Mixer	Kitchen Sink Mixer (option 1)	chrome plated	EX7003/CH	Staff Kitchens		ISCA Chloe - deck mounted Sink Mixer with swivel arm. Chrome finish. SANS 226:2004
V 18	Sink Mixer	Kitchen Sink Mixer (option 2)	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 19	Sink Mixer	Kitchen Sink Mixer (option 2)	chrome plated	ex5002	Staff Kitchens		ISCA Roma - chrome finished wall mounted type sink mixe. In accordance with SANS 226:2004
V 20	Stop Valve	Stop Valve	chrome plated	832-10	Public Ablutions		Cobra Watertech or equal approved 15mm ball type angle valve (Code: 832-10).

ref. code	description	specification	Colour	product code	notes	image	extended specification
W	WCs	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
W 01	Public Paraplegic Toilet	Vaal "Orchid" paraplegic wall hung WC with back inlet flushvalve & double flap wooden seat. <i>(installation height to be same as standard wheelchair) (option 1)</i>	white	8082Z0	Ablutions - Disabled WC		Vaal Sanitaryware Orchid Paraplegic vitreous china wall hung paraplegic back inlet washdown suite colour White, fixed on and including floor bracket (Code: 8082Z0) comprising 90° outlet open rim back inlet pan (Code: 439016) with exposed back inlet flushvalve (elsewhere specified) and Orchid double flap wooden seat (Code: 8520Z0).
W 02	Staff Paraplegic Toilet	Vaal "Orchid" paraplegic wall hung WC with back inlet flushvalve & double flap wooden seat. <i>(installation height to be same as standard wheelchair) (option2)</i>	white	439016	Staff Toilets - Disabled WC		Vaal Sanitaryware Orchid Paraplegic vitreous china wall hung paraplegic back inlet washdown suite colour White, fixed on and including floor bracket (Code: 8082Z0) comprising 90° outlet open rim back inlet pan (Code: 439016) with exposed back inlet flushvalve (elsewhere specified) and Orchid double flap seat (Code: 8520Z0).
W 03	Staff Paraplegic Toilet	Vaal "Pearl" paraplegic floor mounted suite with c.p. side flush lever <i>(option 1)</i>	white	7300SC	Staff Toilets - Disabled WC		Vaal Sanitaryware Pearl Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 7300SC) comprising semi close couple 90° outlet open rim washdown pan and matching 9 litre cistern, including lid, fittings and purpose-made chromium plated side flush lever.
W 04	Public Toilets	Vaal "Urban Compact" close coupled suite	white	772562	Ablutions		Vaal Sanitaryware Urban Compact vitreous china close coupled 90° outlet closed rim washdown pan and matching 6 litre top dual flush cistern complete with lid, fittings, quality thermoset soft close seat and floor brackets. The suite is designed to flush effectively on 6/3 litre
W 05	Staff Toilets	Betta Coral top flush suite with floor mounted open rim pan <i>(option 2)</i>	white	XTH5T08N	Staff Toilets		Betta Coral top flush suite with floor mounted open rim pan, Top flush Cistern, pan fixations, normal close seat and top flush mechanism, Pan and cistern made from vitreous china, Installation as per manufacturers specification. Certified plumber recommended. DO NOT CEMENT PAN TO THE FLOOR USE THE PAN FIXATIONS, SABS and ISO certified. 10 year warranty on the ceramic.
W 06	Public Toilets	Vaal "Parktown" back to wall pan	white	431500 /431600	Ablutions -		Vaal Sanitaryware vitreous china "Parktown" 90° outlet top inlet (code 431500) or back inlet (code 431600) closed rim back-to-wall pan. Top inlet can be used with an exposed flushvalve. Back inlet can be used with a concealed cistern, Vaal Sanitaryware duct cistern (code 7109DP) or a concealed flushvalve.
W 12	Staff Toilets	Betta Atlantis back to wall floor mounted closed rim pan with soft close seat <i>(option 4)</i>	white	YTAT16A	Staff Toilets		Betta Atlantis back to wall floor mounted closed rim pan with soft close seat, including pan fixations, vitreous china, Installation as per manufacturers specification. Certified plumber recommended. SABS and ISO certified. Concealed cistern to be used with this pan. Pan Weight 24.5kg - width 360mm - height 420mm. 10 year warranty on the ceramic.

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X	Sanitary Fittings & Accessories		All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning				
X 01	Soap Dispenser	Wall Mounted Stainless Steel Soap / Sanitizer Dispenser - Staff and public Ablutions	Stainless Steel	Nuwkem Franke Volkem Hygiene Equipment Serra			Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock , plugged and screwed to the wall with stainless steel screws. Unit to have elctronical dispensing facility (no touch)
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)
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 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.

ref. code	description	specification	Colour	product code	notes	image	extended specification
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.
Y	Geysers	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
Y 01	Kitchenette Water Heaters	Point of use electric water heaters, Kwikot "prisma" 10, 15 or 30 litre over- & under basin or similar approved.	white		All Kitchenettes		Kwikot Prisma or similar approved point of use 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	Kitchenette Water Heaters	Stainless steel water boiler with stainless steel tank, electronic controls, connected to 15mm cold water supply and 230 volt 2000 watt electrical power supply		KWIKBOIL-2,5-S/S or KWIKBOIL-5-S/S	Staff Kitchenettes (to be used in conjunction with above point-of-use water heaters)		Kwikot or similar approved 2,5 litre or 5 litre Stainless steel KwikBoil water boiler (code: KWIKBOIL-2,5 (or 5)-S/S), 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 cylinder to be located in safe, well-ventilated position, preferably outside with service access. Size dependent on hot water demand & to be verified by specialist.
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 similar 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 similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.
Z 01	Cistern Back Rail		brushed stainless steel	GRCS01B			Bathroom Butler Paraplegic Rails cistern grab rail (code: GRCS01B) or similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.






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2,5	General List of Ironmongery Specifications	3	2022/04/07	2013/04/02	PRASA Office Modernisation

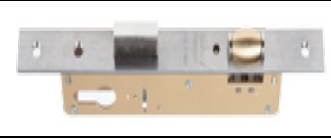







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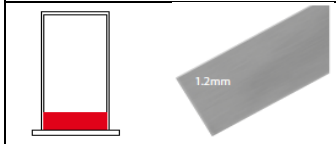











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Q	Ironmongery	All finish alternatives to be "equal approved" to be endorsed by Prasa Cres PMU: Design & Space Planning					
Q 01	Lever Handle	Stainless Steel Lever Handle on a Backplate - All single timber doors	Stainless steel	Cisa QS Geze Assaabloy 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	Pull Handles	Stainless Steel Round D Offset back to back Pull Handles. All double & single glass doors with pull handle required	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe			Grade 304 Stainless steel round D offset pull handle back to back. Sizes to be as required - 19x200mm, 19x300mm To comply with SANS 4:2008
Q 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

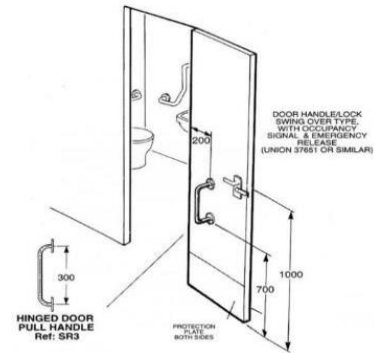
Q 05	Locks	Stainless Steel Narrow cylinder lock - glass doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe		Grade 304 Stainless steel narrow style roller catch and deadbolt with 35mm back set, Euro profile Mortice. Fore end to be stainless steel
Q 06	Locks	Stainless Steel Security Deadlock	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 required	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 adjustable 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 304 Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws.

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 required 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
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 light to solid doors. For Anti Bandit doors heavy duty Door Closers to be used for weight up to 300kg

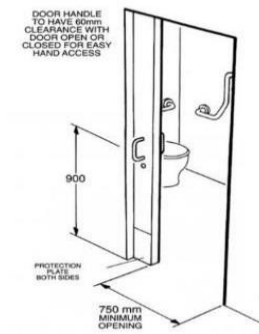
Q 21	Door kickplate	Stainless Steel kick plate - all doors	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe		200x1,2mm Grade 304 Brushed Stainless Steel Kickplate, total width of door	
Q 23	Exit door	Push Bars	Stainless Steel	Cisa QS Geze Assaabloy Dorma Union Hoppe		Stainless steel panic push bar for Double Fire & Smoke Check Doors, Single, or double Point locking, Non-handed design, Max door leaf width 12200mm, Max door height 2400mm, Bolt type: Latch,	
Q 24	Door kickplate	Fire Escape Bolts	Cast Aluminium	Cisa QS Geze Assaabloy Dorma Union Hoppe		Fire emergency glass break lock mechanism; Slide lock secured with breakable glass tube; Safe glass break rod with chain attachment.	
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

R 08	WC Signage	Stainless Steel Staff Cleaning Store Sign	Stainless Steel	SS5066E- 06SSE17	Staff Cleaning Stores		Stainless Steel engraved plate, size 150 x 150mm
R 09	WC Signage	Stainless Steel Staff Electrical Duct Sign	Stainless Steel	SS5066E- 06SSE17	Staff Electrical Ducts		Stainless Steel engraved plate, size 150 x 150mm

DOOR DETAIL



DOOR DETAIL



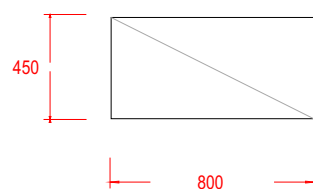
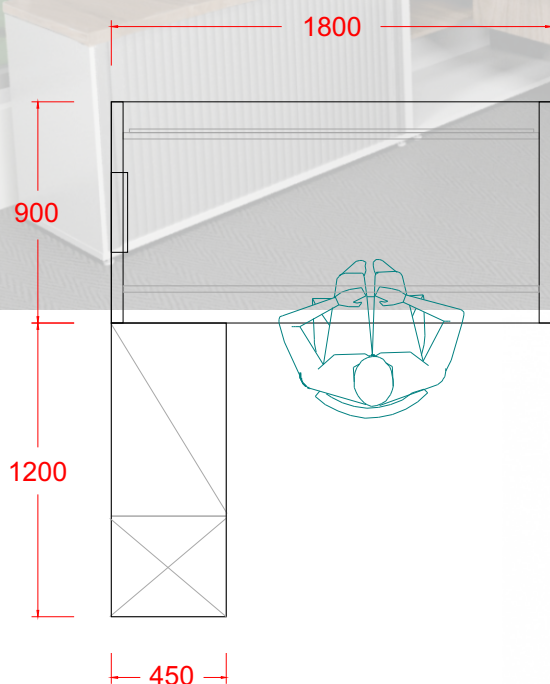
GENERAL NOTES:

- This document is part of a set of documents which from the internal PRASA Group Accommodation Policy and Workspace Standards

- Information is subjected to change



prasa
PASSENGER RAIL AGENCY
OF SOUTH AFRICA

Workstations and layouts

INDEX:

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2. Open Plan workstations - Single, two and three way side by side
3. Open plan workstations - Operators chair, cabinet, handle and plugset
4. Open Plan workstations - Two, four, six and eight way face to face
5. Open Plan workstations - Operators chair, cabinet, handle and plugset
6. Open Plan workstations - Two way side by side, single and single with pedestal
7. Open Plan workstations - Operators chair, cabinet, handle and plugset
8. Hot Desk and Call centre workstations - Single, two to four way face to face
9. Hot Desk and Call centre workstations - Operators chair and plugset
10. Meeting rooms - 4 Seater, 4 - 6 seater, 6 - 8 seater, 10 -12 seater, 14 - 16 seater, 18 - 20 seater
11. Meeting rooms - Visitors chair and server
12. Secretary workstation
13. Secretary workstation - Operators chair, cabinet, handle and plugset
14. Managers workstation
15. Managers workstation - Operators chair, visitors chair, cabinet, handle and plugset
16. Senior Managers workstation
17. Senior Managers workstation - Operators chair, visitors chair, cabinet, handle and plugset
18. PA to General Managers workstation
19. PA to General Managers workstation - Operators chair, cabinet, handle and plugset
20. General Managers workstation
21. General Managers workstation - Operators chair, visitors chair, handle and plugset
22. PA to Executive and Divisional Regional Managers workstation
23. PA to Executive and Divisional Regional Managers workstation - Operators chair, cabinet, single settee, coffee table, handle and plugset
24. Executive and Regional Managers workstation
25. Executive and Regional Managers workstation - Operators chair, visitors chair, double cabinet, handle and plugset
26. PA to GCEO and Divisional CEO workstation
27. PA to GCEO and Divisional CEO workstation - Operators chair, double cabinet, single settee, coffee table, handle and plugset
28. Divisional CEO workstation
29. Divisional CEO workstation - Operators chair, visitors chair, couch, single settee, coffee table, double cabinet, handle and plugset

PRASA Open Plan Workstations

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

Edging: Matching PVC flat edge 2mm

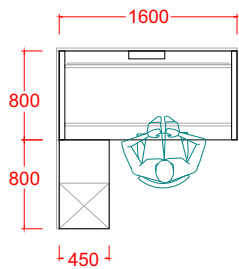
Leg frame: SQ 50mm steel, Satin smooth Aluminium

Desk Screen fabric: Weavers World AURA SENSE

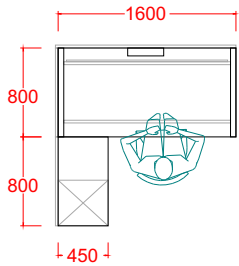
Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

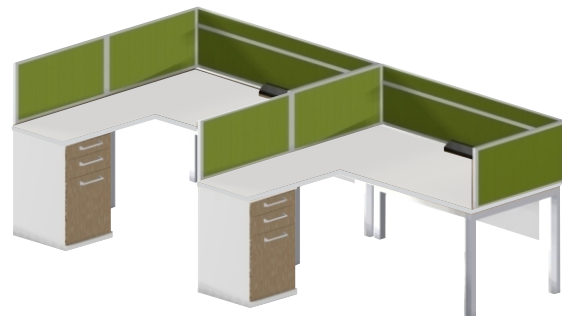
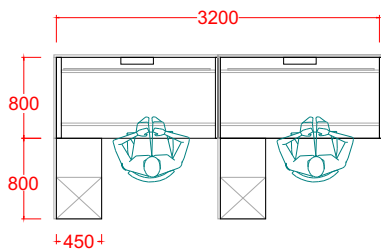
Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



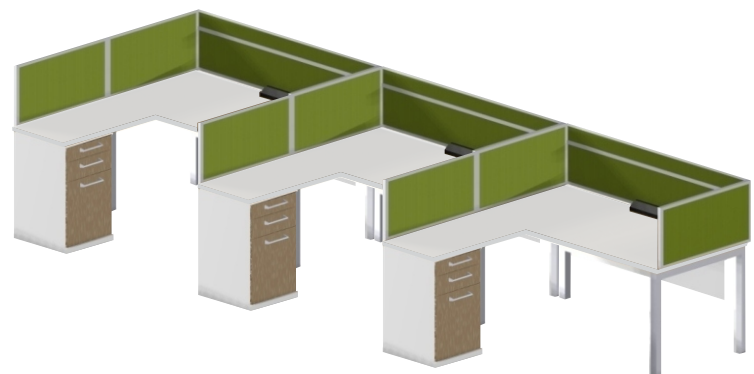
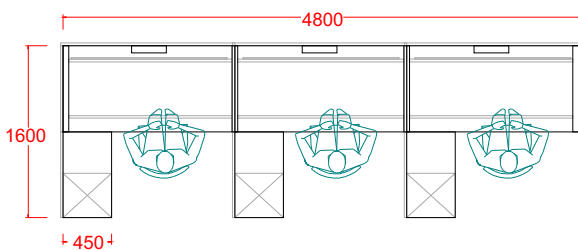
Single - without Desk screens



Single



Two Way Side by Side



Three Way Side by Side

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

Edging: Matching PVC flat edge 2mm

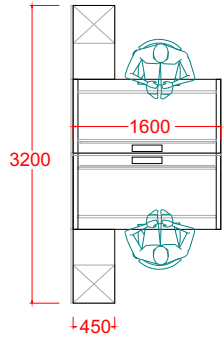
Leg frame: SQ 50mm steel, Satin smooth Aluminium

Desk Screen fabric: Weavers World AURA SENSE

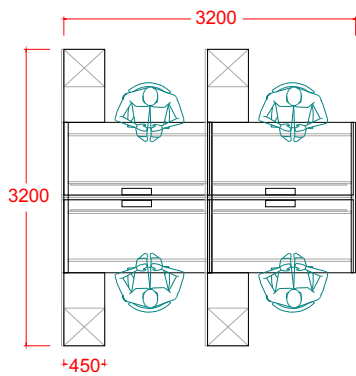
Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

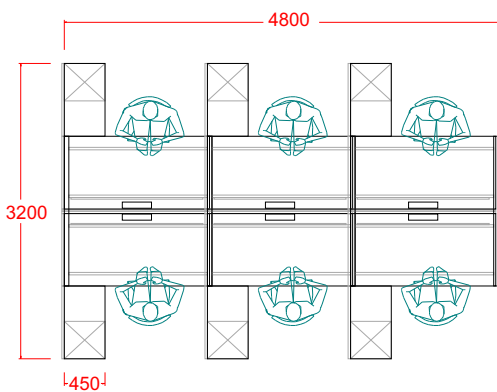
Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



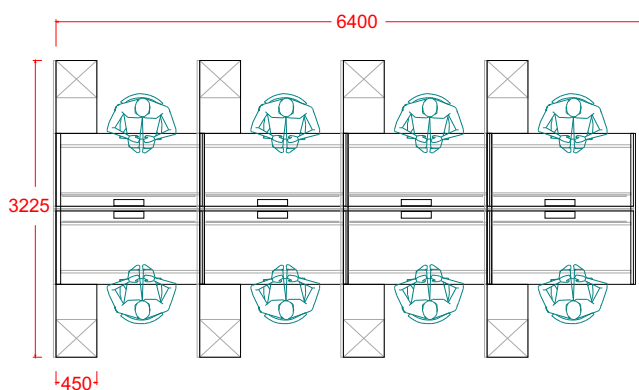
Two Way Face to Face



Four Way Face to Face



Six Way Face to Face



Eight Way Face to Face

High back Operators chair:

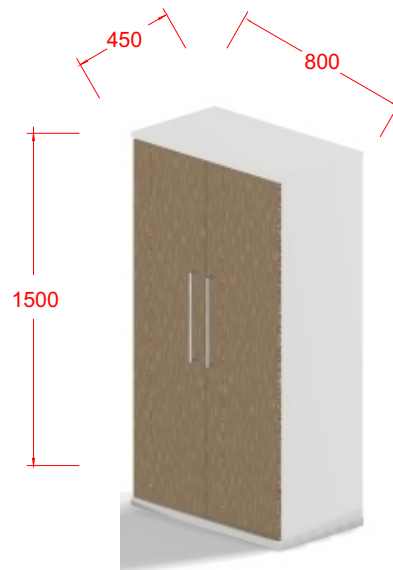
Back: 61mm PVC frame with Black mesh
 Seat: Weavers World ORIENT 58699
 Gas height adjustment
 Synchro mechanism
 5 Star Nylon base on castors
 Adjustable task arms

Cabinet:

Carcasses: White Melawood with matching PVC flat edge 2mm
 Door fronts: American Walnut Melawood with matching PVC flat edge 2mm
 Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Open Plan Storage



Handle



Plugsets

PRASA Open Plan Workstations

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

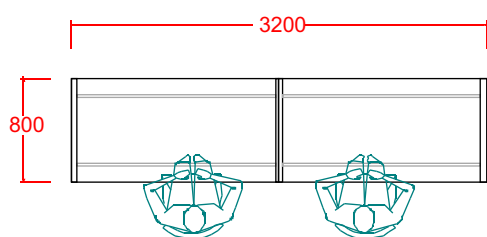
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

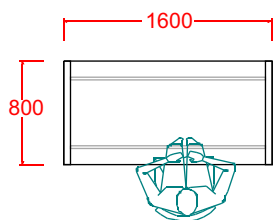
Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

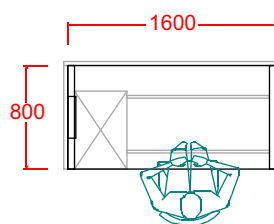
Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



Two Way Side by Side



Single



Single with pedestal



PRASA Open Plan Workstations

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World Epic 7558 fabric

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms



Operators Chair



Handle



Plugsets

PRASA Open Plan Workstations

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Cabinet:

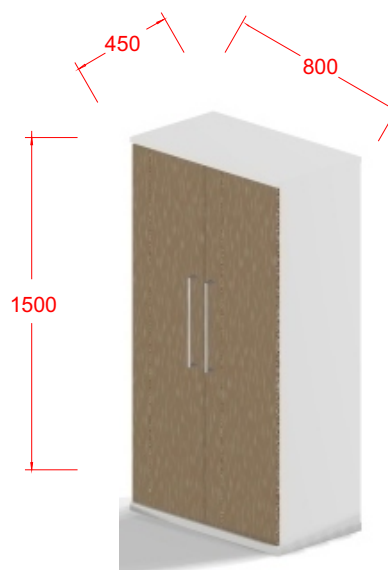
Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: American Walnut Melawood with matching PVC flat edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Open Plan Storage



Handle



Plugsets

PRASA Hot desk and Call centre Workstations

Desk:

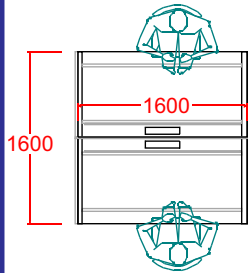
Work top finish: 22mm Particle board with Iceberg White Deccon

Edging: Matching PVC flat edge 2mm

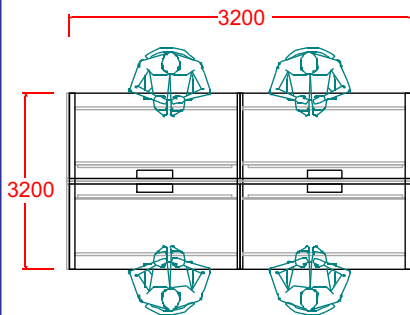
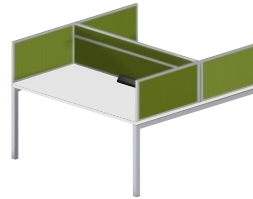
Leg frame: SQ 50mm steel, Satin smooth Aluminium

Desk Screen fabric: Weavers World AURA SENSE

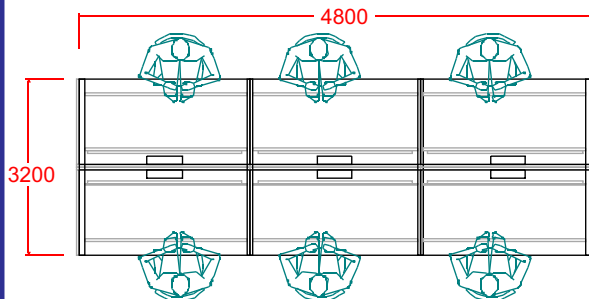
Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



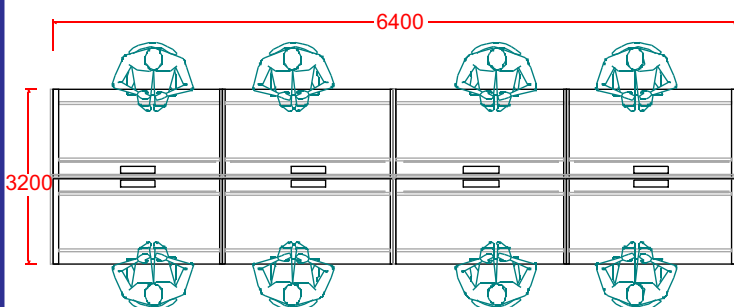
Two Way Face to Face



Four Way Face to Face



Six Way Face to Face



Eight Way Face to Face



PRASA Hot desk and Call centre Workstations

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms



Operators Chair

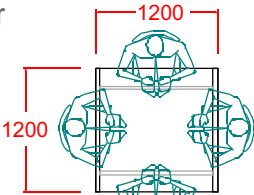


Plugsets

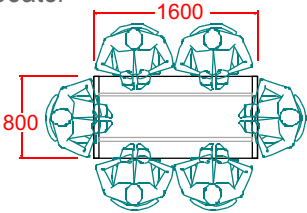
Table:

Work top finish: 22mm Particle board with Iceberg White Deccon
Edging: Matching PVC flat edge 2mm
Leg frame: SQ 50mm steel, Satin smooth Aluminium

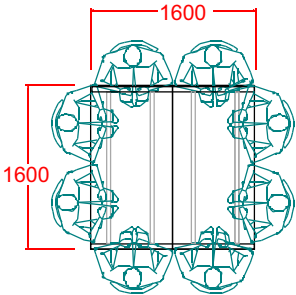
4 Seater



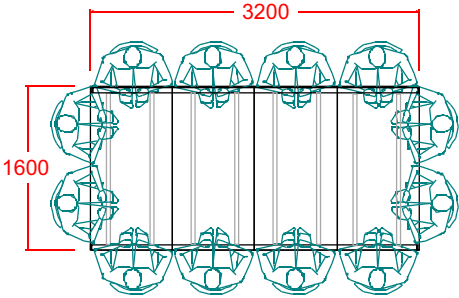
4 - 6 Seater



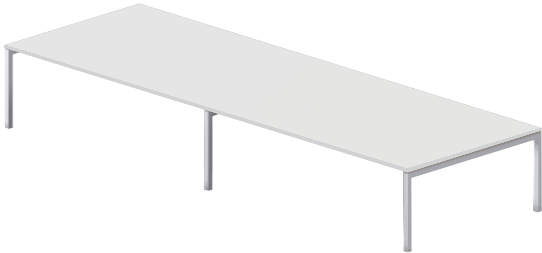
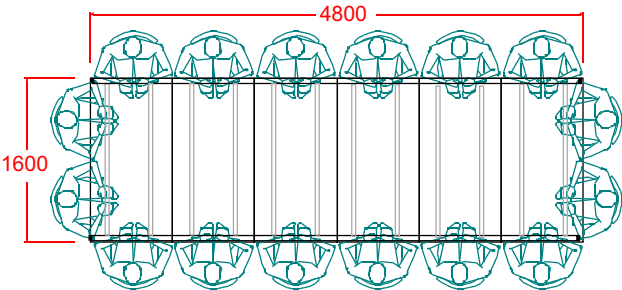
6 - 8 Seater



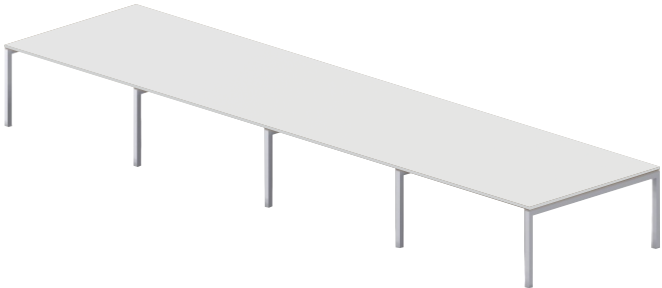
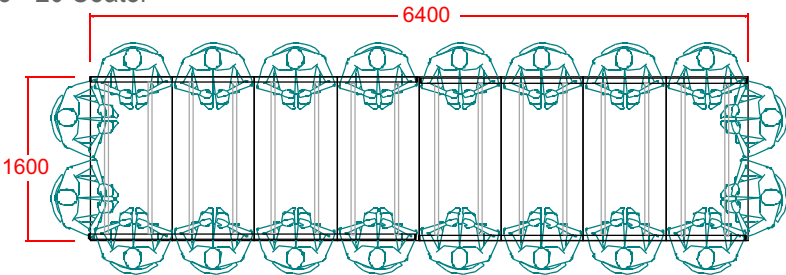
10 - 12 Seater



14 - 16 Seater



18 - 20 Seater



Low back Visitors chair:

Back: 440mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Slay base

Fixed arms (part of frame)

Server :

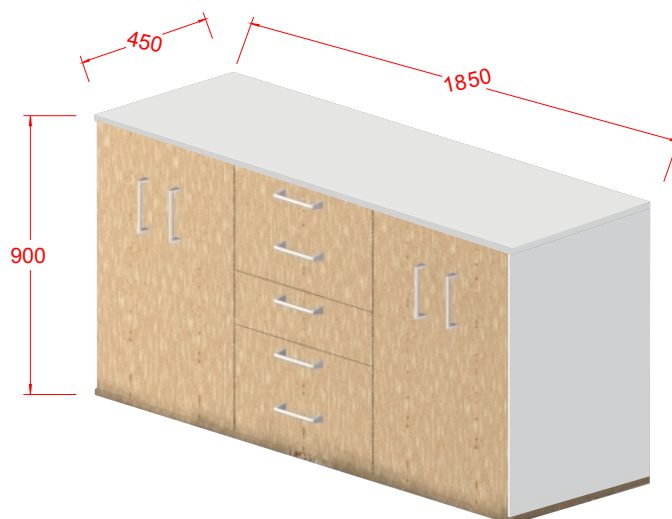
Carcasses: White Melawood with matching PVC flat edge 2mm

Door and drawer fronts: American Walnut Melawood with matching PVC flat edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



Visitors Chair



Laminate Server unit

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

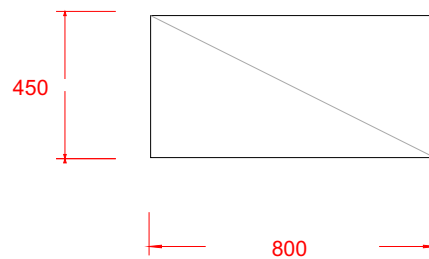
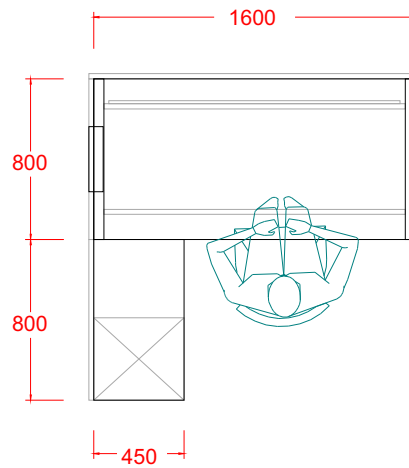
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Cabinet:

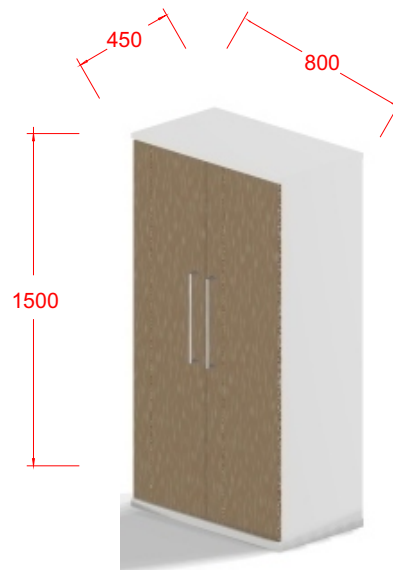
Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: American Walnut Melawood with matching PVC flat edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Open Plan Storage



Handle



Plugsets

PRASA Manager`s Workstation

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

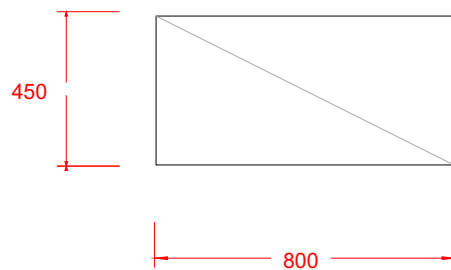
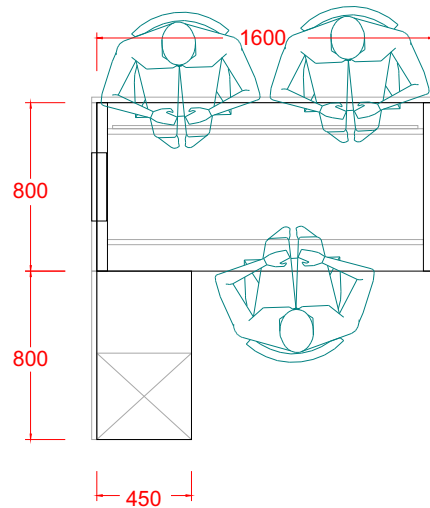
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



High back Operators chair:

Back: 61mm PVC frame with Black mesh
 Seat: Weavers World ORIENT 58699
 Gas height adjustment
 Synchro mechanism
 5 Star Nylon base on castors
 Adjustable task arms

Low back Visitors chair:

Back: 440mm PVC frame with Black mesh
 Seat: Weavers World ORIENT 58699
 Slay base
 Fixed arms (part of frame)

Cabinet:

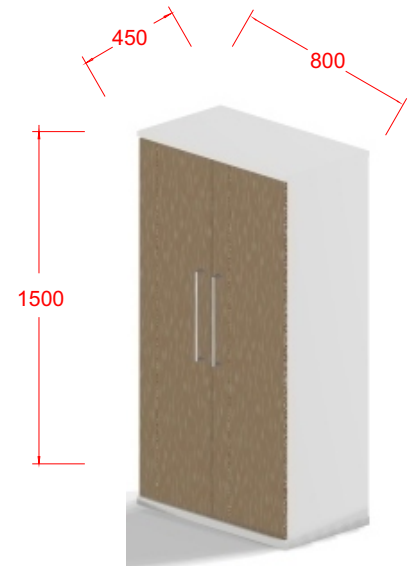
Carcasses: White Melawood with matching PVC flat edge 2mm
 Door fronts: American Walnut Melawood with matching PVC flat edge 2mm
 Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Visitors Chair



Open Plan Storage



Handle



Plugsets

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

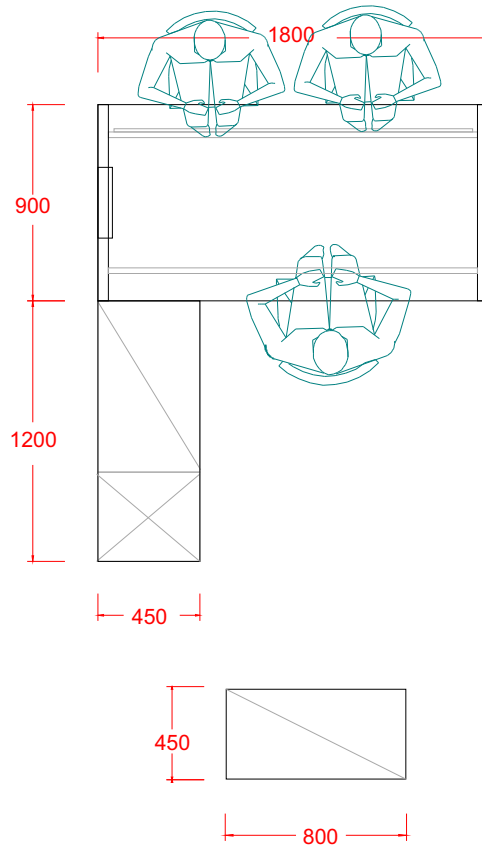
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



PRASA Senior Manager`s Workstation

High back Operators chair:

Back: 61mm PVC frame with Black mesh
 Seat: Weavers World ORIENT 58699
 Gas height adjustment
 Synchro mechanism
 5 Star Nylon base on castors
 Adjustable task arms

Low back Visitors chair:

Back: 440mm PVC frame with Black mesh
 Seat: Weavers World ORIENT 58699
 Slay base
 Fixed arms (part of frame)

Cabinet:

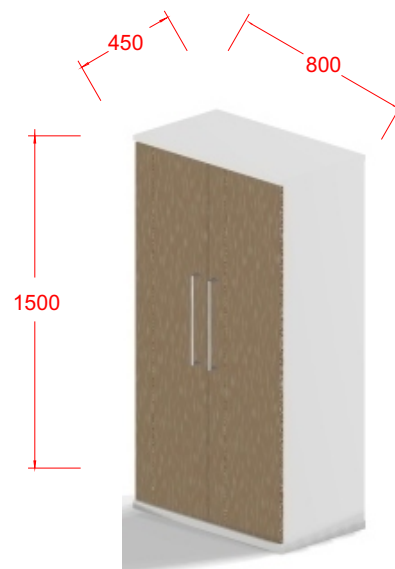
Carcasses: White Melawood with matching PVC flat edge 2mm
 Door fronts: American Walnut Melawood with matching PVC flat edge 2mm
 Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Visitors Chair



Open Plan Storage



Handle



Plugsets

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

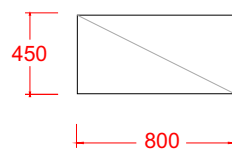
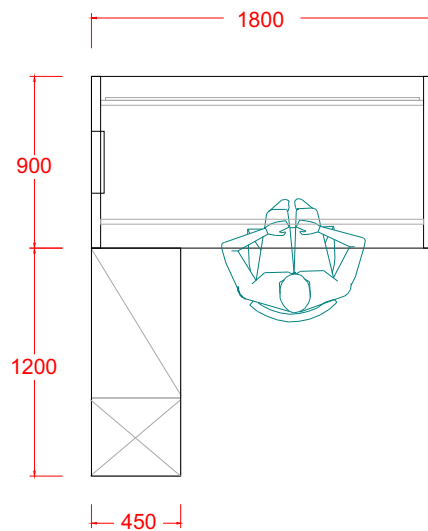
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Cabinet:

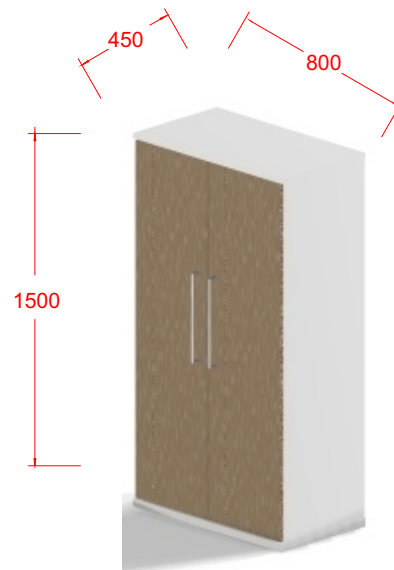
Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: American Walnut Melawood with matching PVC flat edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Open Plan Storage



Handle



Plugsets

PRASA General Manager's Workstation

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

Edging: Matching PVC flat edge 2mm

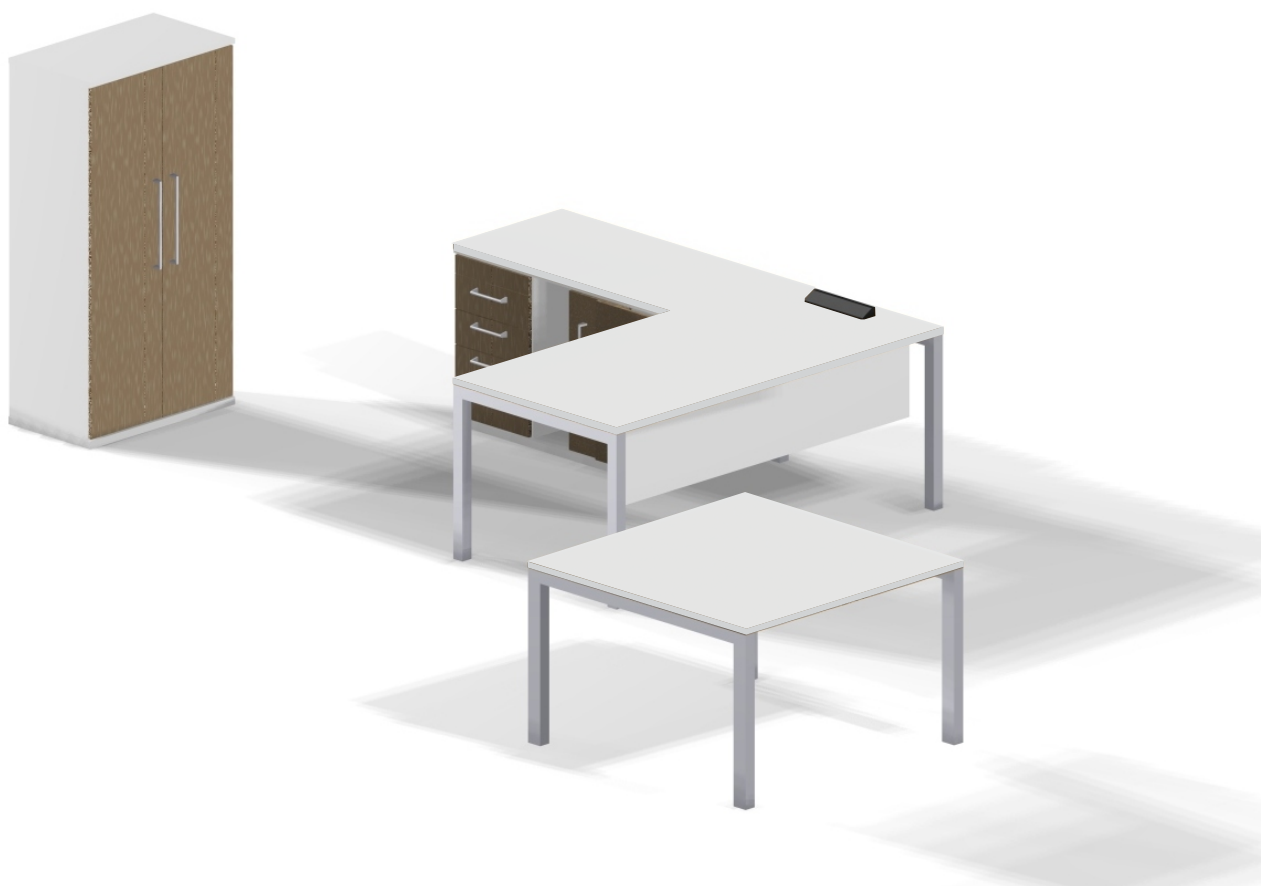
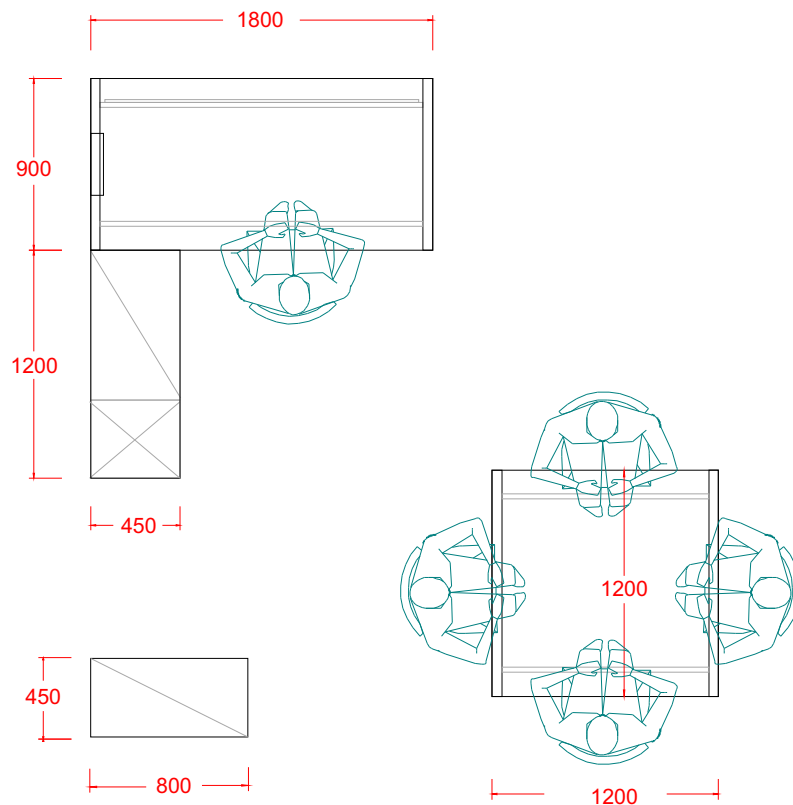
Leg frame: SQ 50mm steel, Satin smooth Aluminium

Desk Screen fabric: Weavers World AURA SENSE

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



PRASA General Manager`s Workstation

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Low back Visitors chair:

Back: 440mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Slay base

Fixed arms (part of frame)

Cabinet:

Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: American Walnut Melawood with matching PVC flat edge 2mm

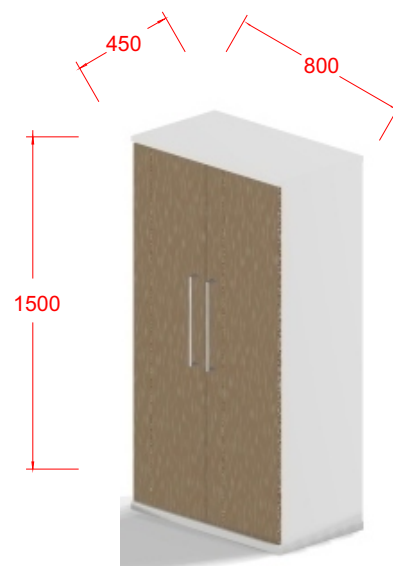
Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Visitors Chair



Open Plan Storage



Handle



Plugsets

PRASA PA to Executive and Divisional Regional Manager Workstation

Desk:

Work top finish: 22mm Particle board with Iceberg White Deccon

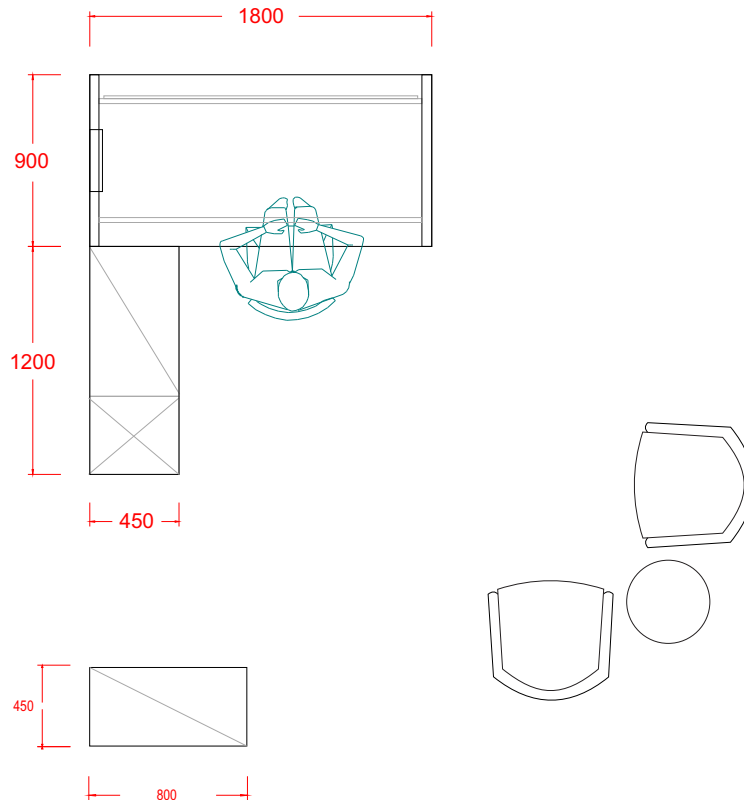
Edging: Matching PVC flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Iceberg White Melawood with matching PVC flat edge 2mm

Drawer fronts: Walnut Melawood with matching PVC flat edge 2mm

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



PRASA PA to Executive and Divisional Regional Manager Workstation

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Cabinet:

Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: American Walnut Melawood with matching PVC flat edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



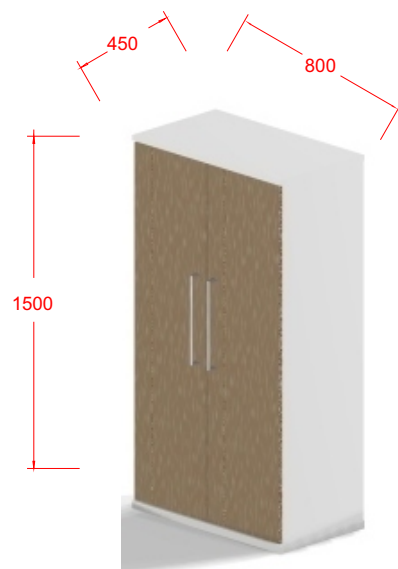
Operators Chair



Single Settee



Coffee Table



Open Plan Storage



Handle



Plugsets

PRASA Executive and Divisional Regional Manager workstation

Desk:

Work top finish: 22mm Particle board with Walnut Veneer edge over veneered

Edging: Walnut Solid flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Under desk, Iceberg White Melawood with matching PVC flat edge 2mm

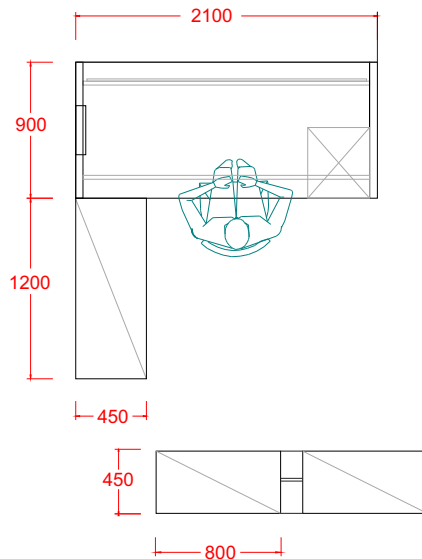
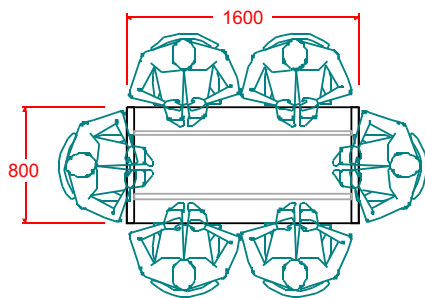
Drawer fronts: Walnut Veneer over edged

Credenza: Iceberg White Melawood with matching PVC flat edge 2mm,

Credenza Top: 22mm Particle board with Iceberg White Deccon

Credenza front: Silver Rollershutter door

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



6 Seater Meeting table



PRASA Executive and Divisional Regional Manager workstation

High back Operators chair:

Back: 61mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Gas height adjustment

Synchro mechanism

5 Star Nylon base on castors

Adjustable task arms

Low back Visitors chair:

Back: 440mm PVC frame with Black mesh

Seat: Weavers World ORIENT 58699

Slay base

Fixed arms (part of frame)

Wall Unit:

Carcasses: White Melawood with matching PVC flat edge 2mm

Door fronts: Walnut Veneer edge over veneered

Door edges: Walnut Solid edge 2mm

Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Visitors Chair



Wall Unit



Handle



Plugsets

PRASA PA to GCEO and Divisional CEO Workstation

Desk:

Work top finish: 22mm Particle board with Walnut Veneer edge over veneered

Edging: Walnut Solid flat edge 2mm

Leg frame: SQ 50mm steel, Satin smooth Aluminium

Pedestal: Under desk, Iceberg White Melawood with matching PVC flat edge 2mm

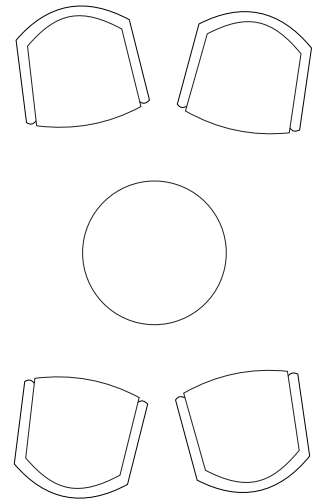
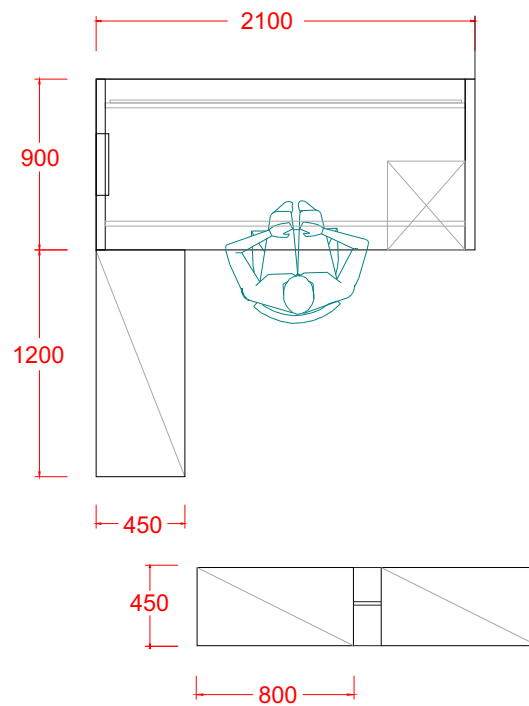
Drawer fronts: Walnut Veneer edge over veneered

Credenza: Iceberg White Melawood with matching PVC flat edge 2mm,

Credenza Top: 22mm Particle board with Iceberg White Deccon

Credenza front: Silver Rollershutter door

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points



High back Operators chair:

Back: 610mm high
 Seat: Black Leather upholstery
 Gas height adjustment
 Synchro mechanism
 5 Star Chrome base on castors
 Adjustable task arms

Wall unit:

Carcasses: Walnut Veneer edge over veneered with 2mm Walnut Solid edge
 Door fronts: Walnut Veneer edge over veneered
 Door edges: Walnut Solid edge 2mm
 Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Wall Unit



Single Settee



Walnut Veneer
Coffee Table



Handle



Plugsets

Desk:

Work top finish: 22mm Particle board with Walnut Veneer edge over veneered

Edging: Walnut Solid flat edge 2mm

Leg frame: SQ 50mm steel, Polished Aluminium

Pedenza: Pedestal white Melawood carcass and drawer fronts, Walnut Veneer edge over veneered

Sliding doors - Walnut veneer over edged, Edging Walnut Solid flat edge

Credenza: Iceberg White Melawood carcass with matching Iceberg White edging

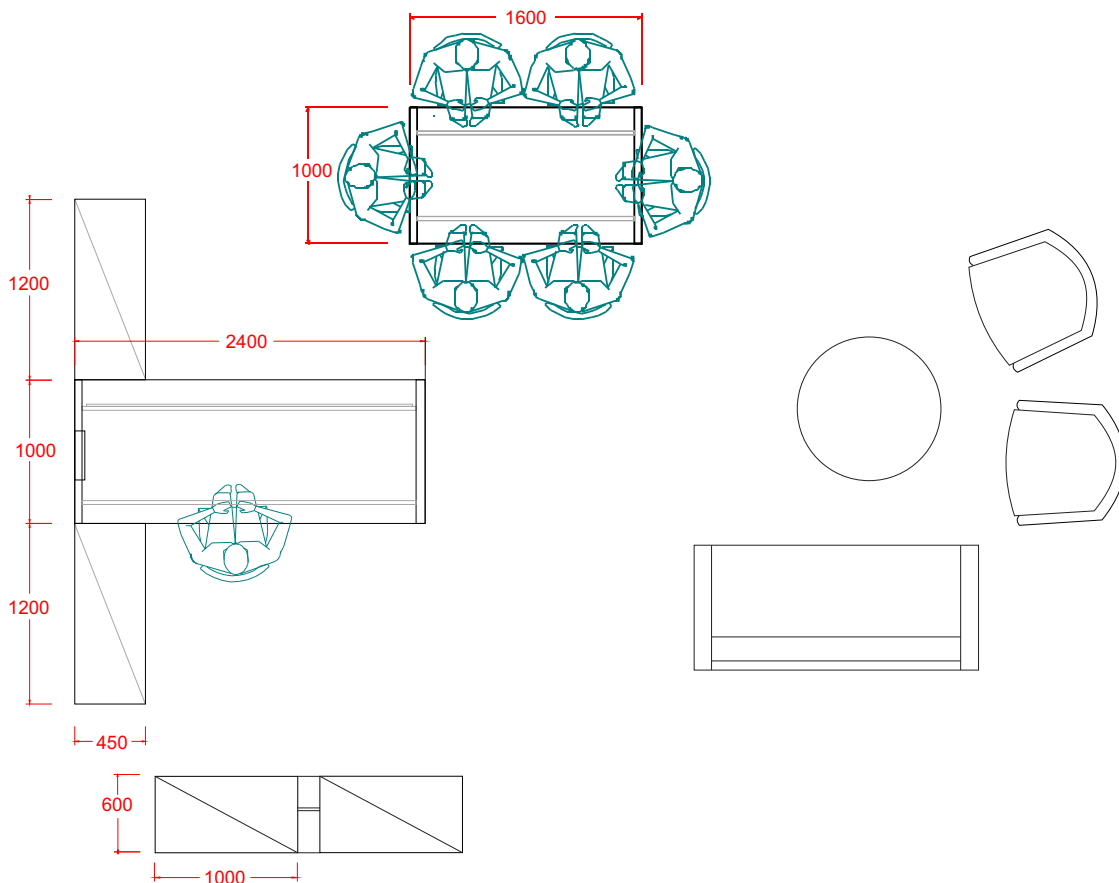
Credenza Top: 22mm Particle board with Walnut Veneer edge over veneered

Edging: Walnut Solid flat edge 2mm

Credenza front: Silver Rollershutter door

Plugset: 1x3 pin Clean and 1x3 pin Normal power, 1x2 pin, 2x Data points

(GCEO as per request)



High back Operators chair:

Back: 610mm high
 Seat: Black Leather upholstery
 Gas height adjustment
 Synchro mechanism
 5 Star Chrome base on castors
 Adjustable task arms

Low back Visitors chair:

Back: 440mm high
 Seat: Black Leather upholstery
 Back: Black Leather upholstery
 Slay base
 Chrome frame
 Fixed arms (part of frame)
 Leather pad on arms

Wall Unit:

Carcasses: Walnut Veneer edge over veneered with 2mm Walnut Solid edge (as per request)
 Door fronts: Walnut Veneer edge over veneered
 Door edges: Walnut Solid edge 2mm
 Handle: T-Handle / Bar type 200mm long (including pedestals)



Operators Chair



Visitors Chair



Wall Unit



Black Leather couch

Walnut Veneer
Coffee Table

Single Settee



Handle



Plugsets

GENERAL NOTES:

- This document is part of a set of documents which from the internal PRASA Group Accommodation Policy and Workspace Standards



Seating Styles

Soft Seating Styles



PRASA Soft Seating



Two seater couch 2000x800
Black Leather



Two seater couch 2000x870
Base, arms and back
Weavers World: Omnia 692315
Cushions
Weavers World: Pixel Columbia 9009



Single Settee 650x650
Base, arms and back
Weavers World: Meta, Jade 9168



Single Settee 870x870
Base, arms and back
Weavers World: Omnia 692315
Cushions
Weavers World: Pixel Columbia 9009



Small Ottoman 800x600
Weavers World: Omnia 692316



Large Ottoman 1000x800
Weavers World: Omnia 692315



Small Ottoman 800x600
Weavers World: Meta, Jade 9168

PRASA Secondary Seating



Dining chair, Walnut solid frame with Black leather



Dining chair, Walnut legs and Black leather



PVC Canteen chairs



Ticket Office chair



Bench Seating

PRASA Operators, visitors and training chairs



CEO, CEO PA Operators chair
Executive Boardroom visitors chairs
Black Leather



CEO, Visitors chair
Black Leather



Operators chair
Back: Black netting
Seat: Weavers World
Orient 58699



Visitors chair
Meeting chair
Back: Black netting
Seat: Weavers World
Orient 58699



Training chair
Meeting chair
Back: Black netting
Seat: Weavers World
Orient 58699

GENERAL NOTES:

- This document is part of a set of documents which from the internal PRASA Group Accommodation Policy and Workspace Standards
- Information is subjected to change



Appliances
Accessories
Additional furniture



PRASA
PRODUCT CATEGORY



9 - Fin Heater



Pedestal Fan



Heavy duty shredder



Combo Binder



20w Mega phone loud hailer



Square punched waste paper bin, Silver



2 Tier tea trolley
750 (H) x 450 (W) x 650 (L)mm



3 Tier trolley
940 (H) x 440 (W) x 650 (L)mm

PRASA

PRODUCT CATEGORY



1600x600 Foldable Conference table,
Walnut laminate top with
Stainless steel legs



1800x800 Steel table, 0.7mm
steel thickness



Black cast iron furniture, Cottage style
Table and 4 chairs



Blue 3000x3000mm Umbrella, Blue



Steel shelving 900wx300dx2100h, Grey
Single or double row



Steel cupboard, 4 shelves, Grey
1500hx900wx450d



Steel locker - Double and triple door, Grey
1800hx300wx450d



Steel 4-drawer filing cabinet, Grey

PRASA

PRODUCT CATEGORY



Optiplan filing cabinet, 5 drawers
1500hx1120wx615d, Grey



Lockable steel Bulkfiler, Grey
3 to 8 bay unit



1000mm diameter Coffee table
Walnut veneer, Chrome legs



1000mm diameter Coffee table
Iceberg Laminate, Chrome legs



500mm diameter Coffee table
Iceberg Laminate, Chrome legs



800x800 Canteen table
Iceberg White laminate



Flat screen TV's
Size as per request

PRASA
PRODUCT CATEGORY



Thermo fan stove
Supply only



Combi fridge, 240L, White



Bar fridge 850hx550wx550d, White



26L Microwave oven



Water cooler dispenser, hot and cold



Hydroboil, 15L, Supply only


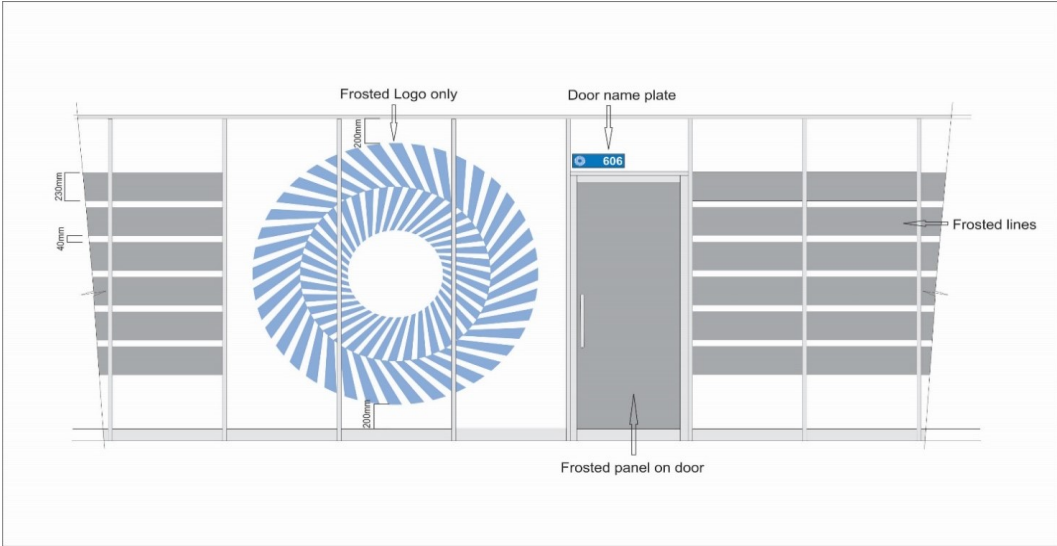
doc no:	document name:	rev	date	drawn	project name:
4.0	GENERIC SAMPLES	Revision 00	21/04/2022	21/01/2022	PRASA Office Modernisation


GENERAL NOTES:



- This document is part of set of documents which form the internal high-level specification document.
- Information and specifications in it are subject to change and variation
- These pages are an indicative of the PRASA Corporate Identity application required in Offices
- Where the PRASA Blue colour is applied on the wall elements it must be balanced and not be overpowering to the rest of the colour applications
- Where pictures are shown, these are a guideline to the Corporate Identity specific and to be used as a reference. The PRASA Blue does not necessarily indicate the correct colour coding
- All the colours and finishes shown are as per the specifications indicated elsewhere in the Blue Print and must be applied accordingly








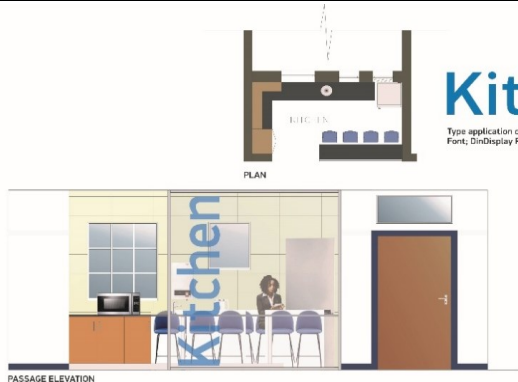





ref. code	description	Image
GS	Samples	
GS 01	Open office	

ref. code	description	Image
GS 02	Passage and glazing	 <p>A 3D architectural rendering of a modern office corridor. The walls are primarily glass, with a large blue spiral logo (the 'Frosted Logo') applied to one of the glass panels. A man in a dark suit is walking through the corridor. The floor is made of light-colored tiles. The ceiling has recessed lighting. In the background, there are office desks and chairs.</p>
GS 03	Glazing Decal	 <p>A technical diagram showing the layout of the glazing decal. It includes the following labels and dimensions:</p> <ul style="list-style-type: none"> Frosted Logo only: Points to the blue spiral logo. Door name plate: Points to a blue plate with the number '606' above the door. Frosted lines: Points to horizontal lines on the glass panels. Frosted panel on door: Points to the lower part of the door. Dimensions: <ul style="list-style-type: none"> 230mm (height of the top glass section) 40mm (height of the middle glass section) 200mm (width of the logo) 200mm (height of the bottom glass section)

ref. code	description	Image
GS 04	Carpet layout, open office	

ref. code	description	Image
GS 06	Floor reception counter	
GS 07	Floor reception counter	

ref. code	description	Image			
GS 08	Gym				
GS 09	Canteen				
GS 10	Kitchenette	<div>  <p>Kitchen</p> <p>Type application on frosted panel: Font: DinDisplay Pro Medium</p> </div> <div>  <p>Kitchen</p> <p>Type application on frosted panel: Font: DinDisplay Pro Medium</p> </div>			

ref. code	description	Image	
GS 11	Conference / meeting waiting area		

GENERAL NOTES:

- This document is part of a set of documents which form the internal high - level specification and guidelines document
- Reference is made to colour details and written specification
- Information and specification in it are subject to change and variation
- All details are generic and indicative of the PRASA standards and guidelines. Details to be applied to offices and any variations are subject to approval by PRASA

**prasa**PASSENGER RAIL AGENCY
OF SOUTH AFRICA

Graphic Language



This set of guidelines is designed with the variation of PRASA offices ranging from Head office to Regional offices

In creating an individual signage system, a simple procedure is followed with assistance of this manual.

INVESTIGATION

Individual site visits will need to be conducted and a report to be compiled to address the functionality of each facility.

SCHEDULE AND SITE LAYOUT

A comprehensive schedule and site layout will advise the sign type requirements based on the investigation report

DESIGN

The selection is made from the sign type in the “B, Sign Types and size ” Part E, 5.0
The selection is based on the function of the site and structures, the count of required information and general position.

MANUFACTURE

Manufacturing guidelines are provided in Part E, 5.0a Written specifications.

IMPLEMENTATION

Installation needs to be supported with the original investigation report, schedule and site layout to ensure that the correct guidelines and specifications are adhered to. See Part C, Sample applications

02 Colour

02.1 Generic Standard

Colour ensures simplicity and legibility. All iconography is applied consistently as a white graphic on a blue back ground except for Regulatory warning signs and exit directionals. Text and additional information are applied as indicated.

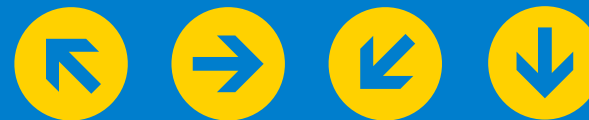
1. Facility Identification



TEXT:
White on Blue
NUMERALS:
White on Blue
ICON:
White outline
Blue inner back ground
White image

2. Directional

ICON:
Round yellow shape
Blue arrow



3. Exit and First Aid



ICON:
White outline
Green inner back ground
White image

4. Regulatory and Warning



No Smoking



TEXT:
White on Black
ICON:
As specified by standard
regulatory requirements -
black, white and red

02 Colour

02.2 Specification

Any Duco paints or Powder coating must match PANTONE specific code.

Facility Information



PANTONE 3005
Opaque vinyl decal:
AVERY809 OCean Blue

Directional



PANTONE 109
Opaque vinyl decal:
AVERY 807 Primrose Yellow

Regulatory and
Warning - Red



PANTONE 1797 C
Opaque vinyl decal:
AVERY 826 Medium Red

Exit
First Aid



PANTONE 3415
Opaque vinyl decal:
AVERY 5563

Regulatory and
Warning - Black



PANTONE Black
Opaque vinyl decal:
AVERY 5501 Black

03 Typography

DIN, an acronym the German Institute for Standardisation and also the name of a Sans-Serif type face family. DIN is widely used in road traffic communication and is a type face with high level of visual clarity and simplicity.

DIN Display Pro is the official type face selection for PRASA Public facilities.

PF DIN
DISPLAY
Pro Med.

→ PF DIN Display Pro Medium lower case styles

abcdefghijklmn
opqrstuvwxyz

→ PF DIN Display Pro Medium upper case styles

ABCDEFGHIJKLMN
OPQRSTUVWXYZ

→ PF DIN Display Pro Medium numerals and symbols

1234567890
@#%&{}[](.,:;!?)<>*^

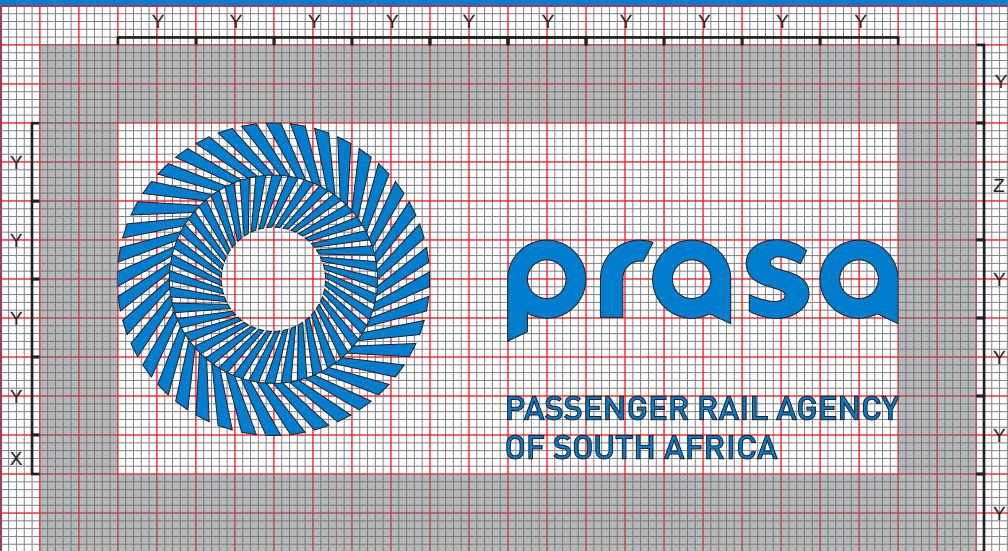
All suppliers are required to ensure that they are in possession of the necessary font licences.

Arrange through:

www.fontshop.com

04 Logo

04.1 Brand mark Construction



Horizontal Signature



Vertical Signature

Brand Icon and descriptor

The relationship between the brand icon, the logotype and the descriptor is deliberate and precise. The signatures are locked down within this grid and should not be altered in any way. The entire construction of all the elements that make up the brand signature is calculated on the primary X - height grid of the logo type as indicated. To be more precise a secondary grid is constructed using the measurements of 0,5X.

Horizontal Signature

This format is the most commonly used signature.

Vertical Signature

This format is a less commonly used signature and is limited to applications that need maximum exposure of the brand signature where the Horizontal signature would not suffice

Clear Space

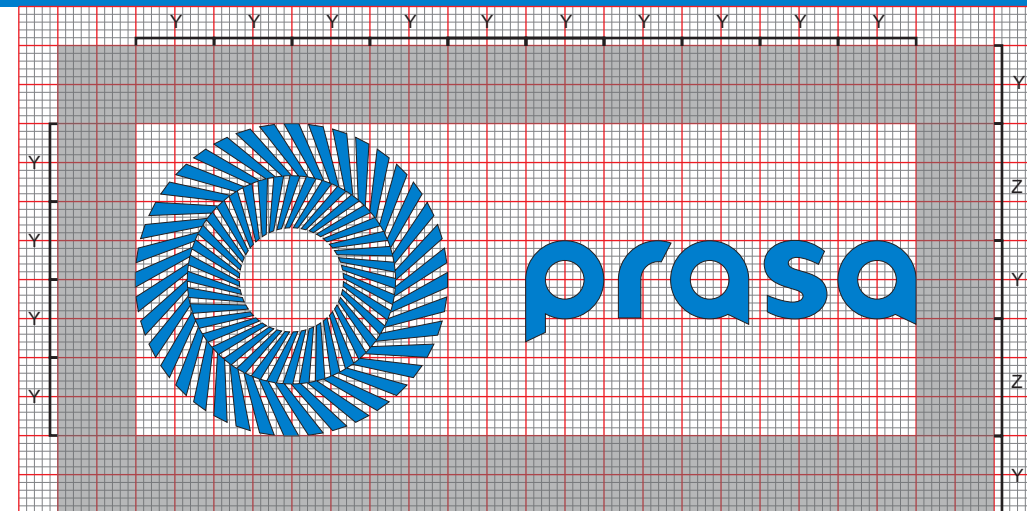
To isolate the Brand signature so that it is not intruded upon and stands out. This is done to protect the integrity of the brandmark

0,5X

X

Y = 2 x X

Z = 3 x X



Horizontal Application



Vertical Application

Brand Icon only

The relationship between the brand icon and the logotype is deliberate and precise. The signatures are locked down within this grid and should not be altered in any way. The entire construction of all the elements that make up the brand signature is calculated on the primary X - height grid of the logo type as indicated. To be more precise a secondary grid is constructed using the measurements of 0,5X.

Horizontal Signature

This format is the most commonly used signature.

Vertical Signature

This format is a less commonly used signature and is limited to applications that need maximum exposure of the brand signature where the Horizontal signature would not suffice

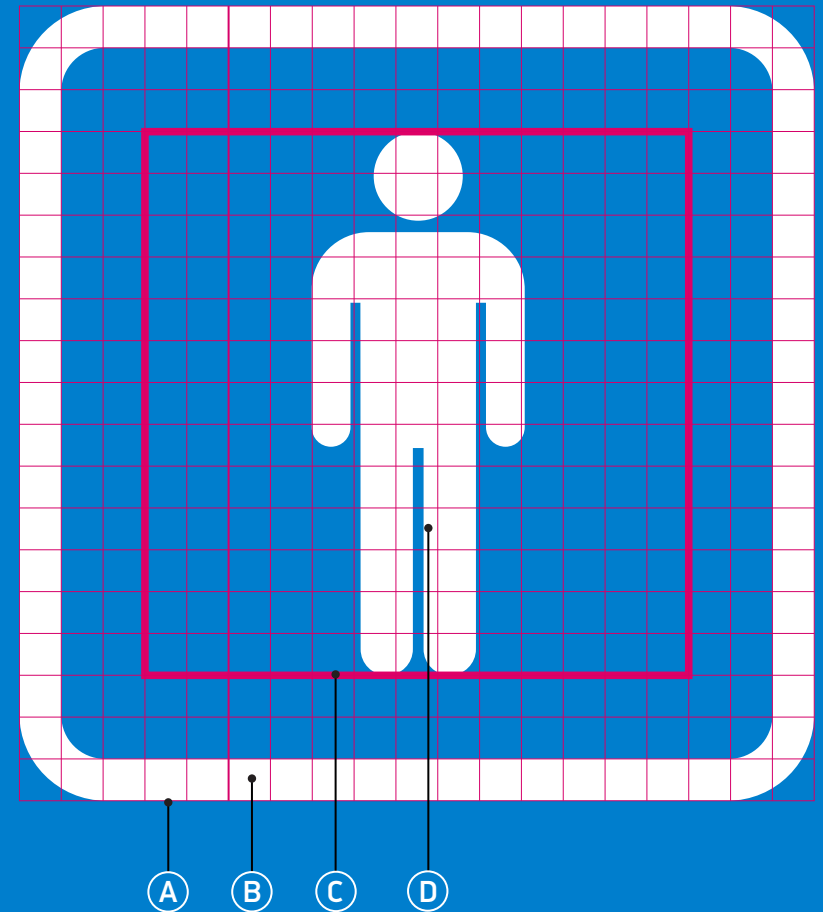
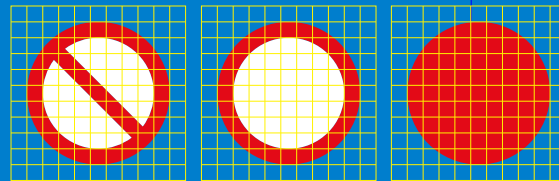
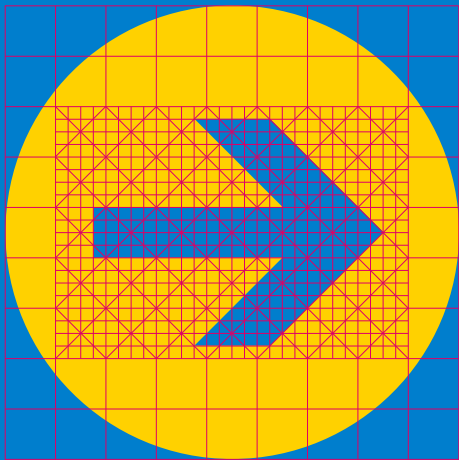
Clear Space

To isolate the Brand signature so that it is not intruded upon and stands out. This is done to protect the integrity of the brandmark

05 Icons

05.1 Construction

All the icons are constructed by using a simple grid system to be illustrated as indicated.



- A. Grid
- B. Outer frame
- C. Inner icon border
- D. Icon

05 Icons

05. 2 Information and Directional

All icons are indicated as white rounded square outlined holding shape. The back ground is the colour as the sign.

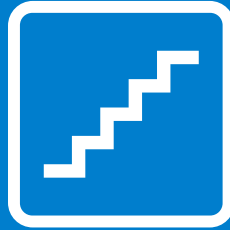
Directional icons are per indicated.



Parking



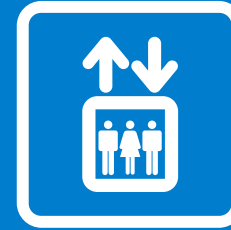
Pedestrian Exit



Staircase



Escalator



Lift



Disabled Access



Ablutions



Females



Male



Showers



Coffee Shop



Canteen



Cleaners



Kitchen



Smoking Zone



05 Icons

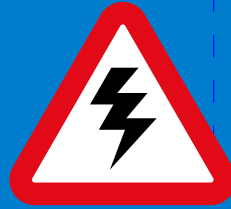
05. 3 Warning



General Danger



Surveillance Camera



High Voltage

05. 4 Safety



Emergency Exit



First Aid



Fire Hose



Emergency/Fire Alarm

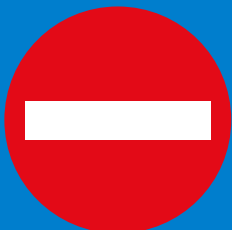


Fire Extinguisher

05. 5 Prohibitive



No Parking



No Entry



No Smoking



No Weapons

Sign Types and Sizes



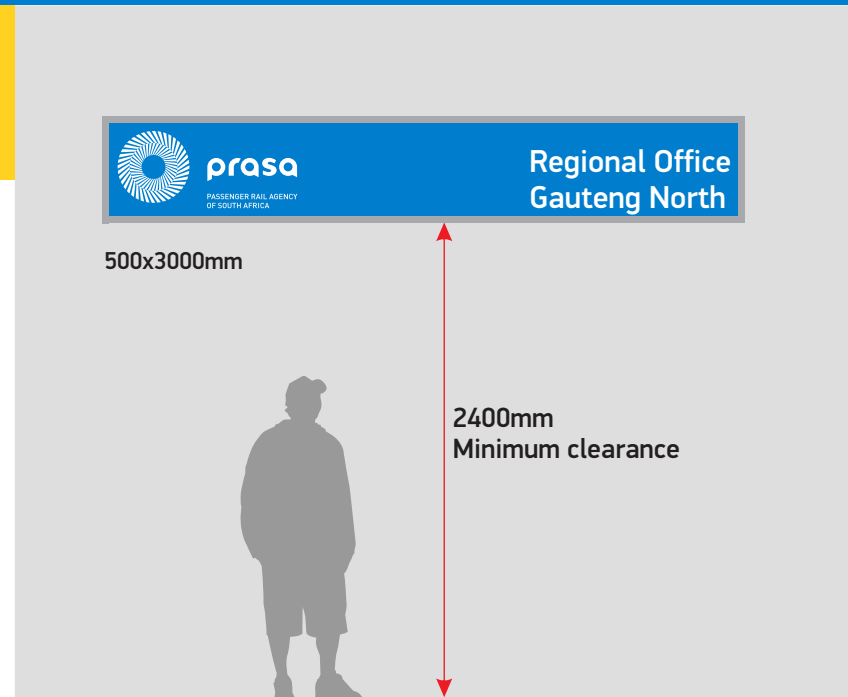
06 Wall mounted - Facia signs

06.1 A1 Naming: Single sided; illuminated Size as shown

Refer to pages C06 & C07

Wall mounted signs

These type of signs are predominantly for information, guidance and direction.



90mm wide illuminated frame box



A1.1 500x3000mm

07 Projecting and Pylon signs

07.1 B1 Naming double sided; illuminated Size as shown

Refer to page C11

Projecting signs

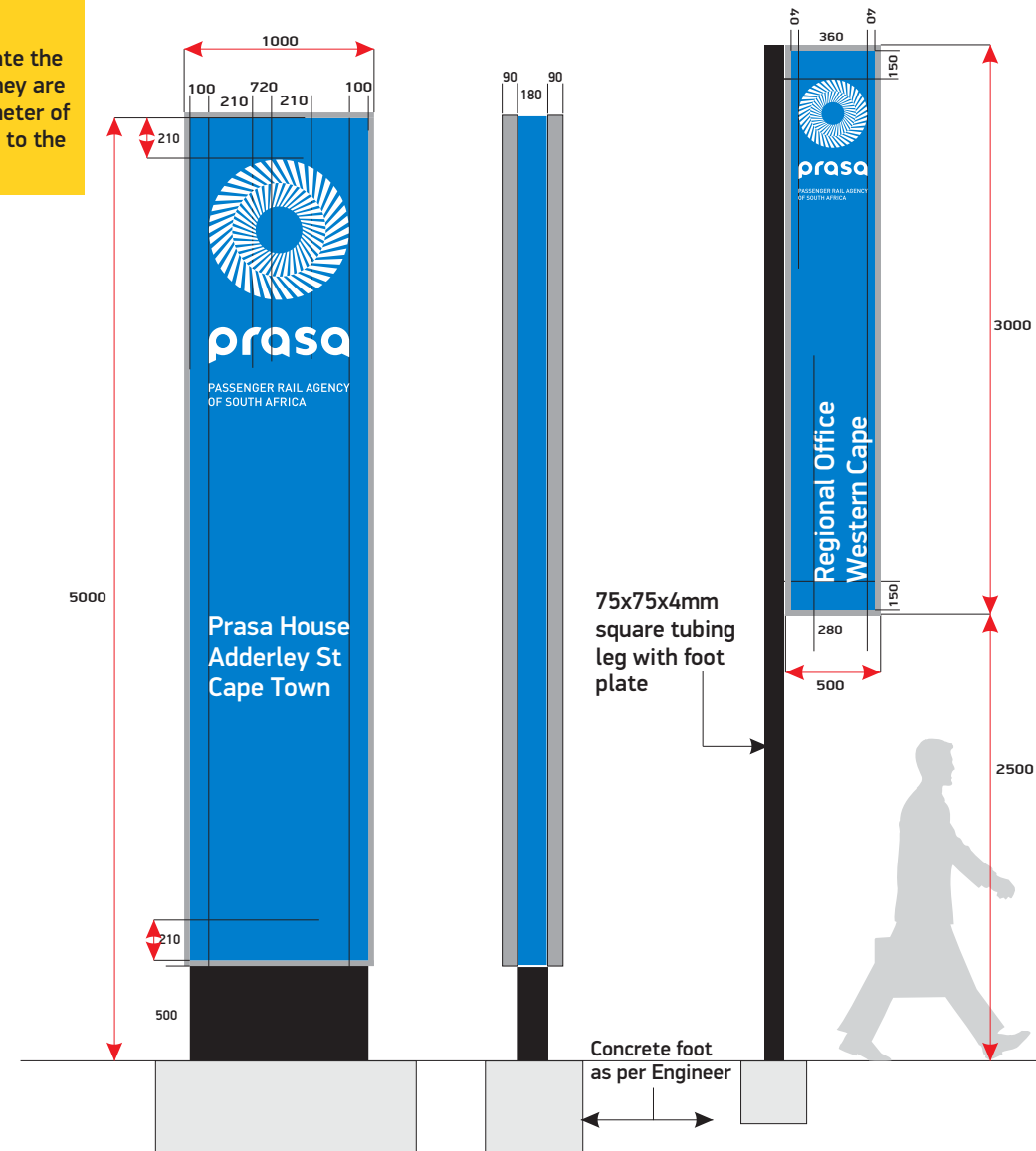
These type of signs are in positions around the Campus facility perimeter to be seen as an identifier of the facility



B1.1 500x3000mm

Pylon signs

These type of signs indicate the specific building name. They are limited to the outer perimeter of the facility and entrances to the facility



B1.2 1000X5000mm

B1.3 500x3000mm

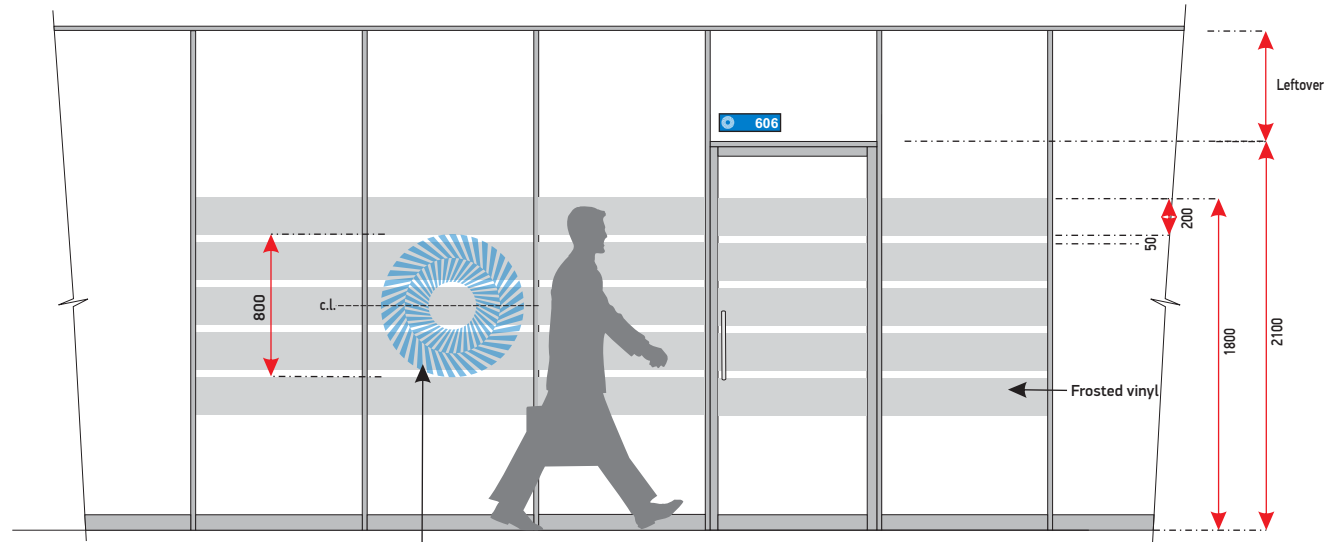
08 Vinyl

08.1 C1 Office window application Size as shown

Refer to page C16 @ C19

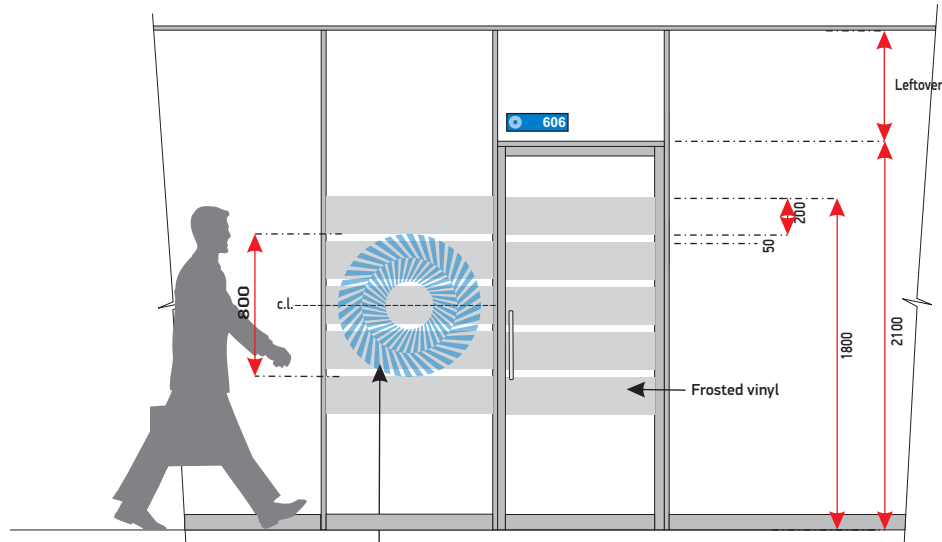
Vinyl signs

These type of decals are applied to glass fronts as a visual barrier



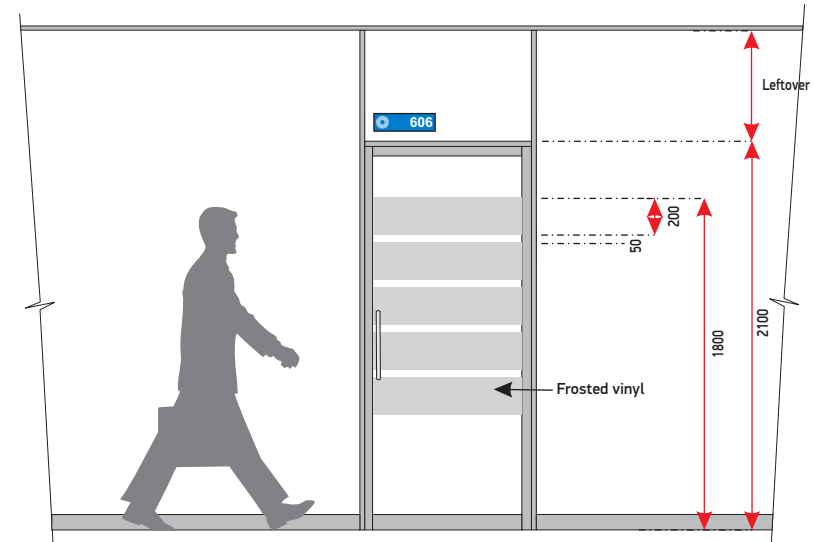
C1.1 +3 Glazing panels and door

Blue frosted vinyl logo application



C1.2 1 Glazing panel and door

Blue frosted vinyl logo application



C1.3 Glazed door only

09 Loose Letters

09.1 D1 Loose Letter application: Prasa Blue background Size as shown

Refer to page C18

Loose letters

Cap height on the individually fabricated letters to be 1000mm
The letters to be placed on top of a building, side wall and or blue back ground.



09 Loose Letters

09.2 D2 Loose Letter application: Building background Size as shown

Refer to page C18

Loose letters

Cap height on the individually fabricated letters to be 1000mm
The letters to be placed on side walls and or blue back ground.



D2.1

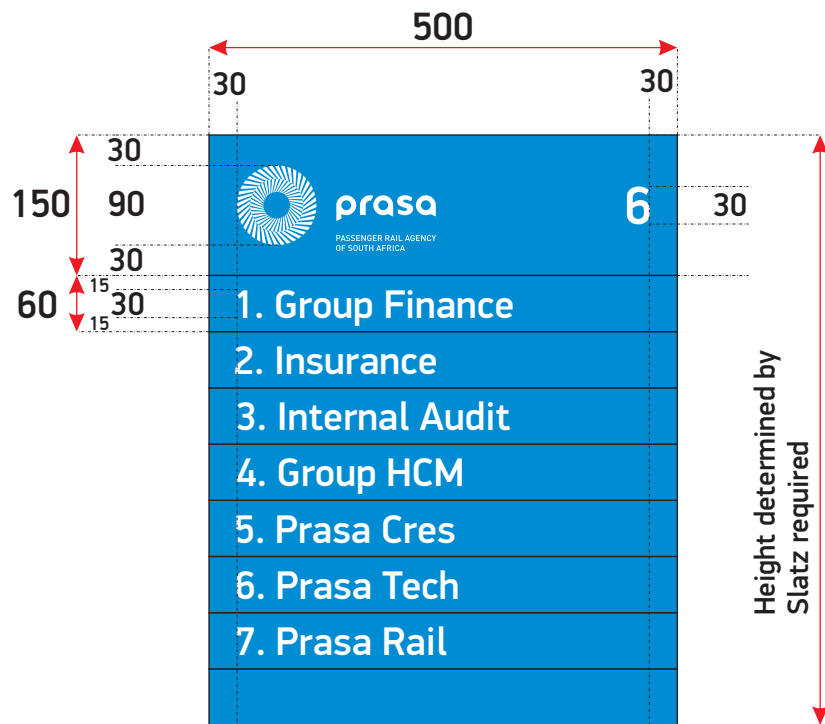


D2.2

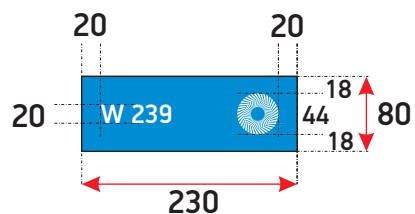
010 Internal Signage

010.1 E1 Office Environment: Suspended/wall mounted/Internal Slatz system and decal applications

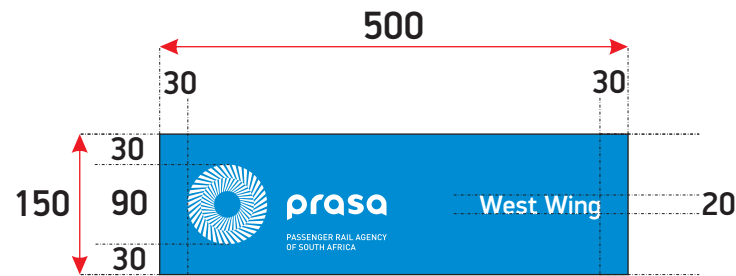
Refer to page C19



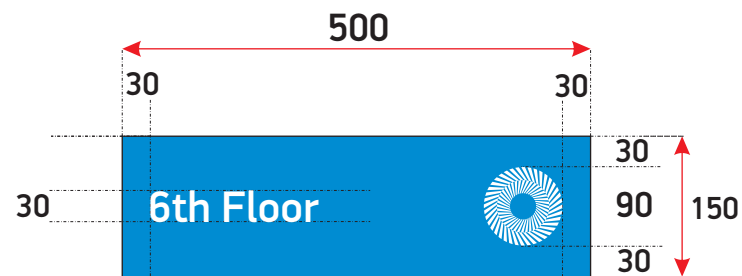
E1.1 Slatz: Foyer sign



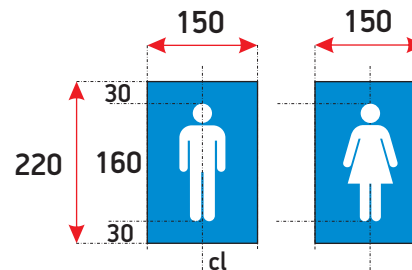
E1.2 Slatz: Door number sign



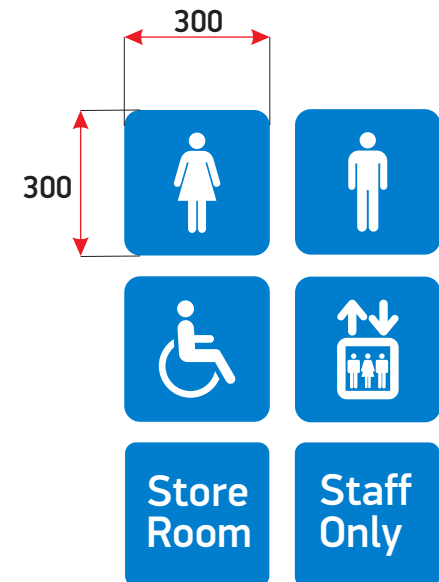
E1.3 Slatz: Directional indicator sign



E1.4 Slatz: Floor indicator sign



E1.5 Slatz: Ablution Indicator sign



E1.5 Decals, various

010 Internal signage

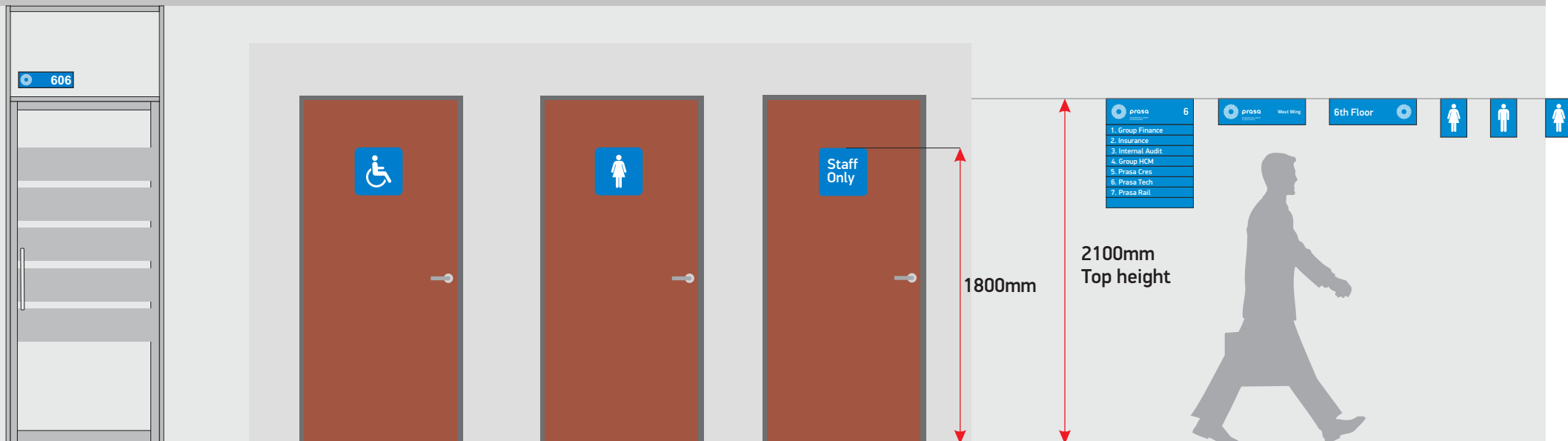
010.2 F1 Application view

Refer to page B13 @ B18

Internal signage

These type of signs are directional and informational indicator points within the interior of a building .

These signs are of decal application and Slatz systems as indicated



F1.1 Applications

doc no:	document name:	rev no:	date issued:	date drawn:	project name:
5.0a	GENERIC DETAILS WRITTEN SPECIFICATION	Revision 01	2022/06/08	2018/11/02	PRASA Office Modernisation

GENERAL NOTES:

- This document is part of set of documents which form the internal high-level specification and guidelines document.
- Reference is made to colour drawings details and written specification
- Information and specifications in it are subject to change and variation
- All details are generic and indicative of Prasa Standards & Guidelines. Details to be applied to offices and any variations are subject to approval by Prasa



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

1	General Signage Information Notes
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This specification relates to the PRASA Group sites country wide, Office Buildings and environments

Signage provided by the manufacturer shall conform in all respects to the descriptions as provided in this document.

Reference must be made to the **PRASA Signage Guidelines and specifications, Version 9** for sketches and information on the Graphic language, sign type, sizes, samples and classification.

All dimensions are specified in millimetres, unless shown differently.

Any bespoke signage requests to be addressed as per the specific site requirements.

Some signage might in certain circumstances be illuminated in a normally non-illuminated environment.

Any deviations have to be approved by a Prasa Agent from Prasa Cres, Design and Space planning and or Marketing.

The vendor shall specify and supply all signage surfaces, sign structures, finishing, hardware, illumination, screens/panels, wiring (electrical), rigging and engineering as required assembling and installing signage configurations, described in this document.

Signage shall be assembled in such a manner as to allow for removal or reconfiguration. Signage units, depending on size, should be able to share components, ex; projecting vs fascia etc.

The signage system must have a wide range of fixing capabilities onto the fascia walls, projecting, freestanding, and suspended and pylon applications. The installation for signs to foreign structures, such as poles, pillars and non-building construction must be included as an option for installation of the signage. All fasteners to be anchored with a mechanical type bolts. All steel structures and concrete footings to be approved and certified by engineers with written proof.

The signage system consists of both illuminated and non-illuminated options. Illumination is provided by LED lighting technology. No "Hot Spots" on signage surface can be accepted; therefore even light distribution must be attained.

The signage will meet the demands of the organisations image; have clean lines, elegant and simple design, with unimposing structures.

All external signage needs to be weather resistant, especially taking into account coastal areas.

PRASA is open to any suggestions from the Vendor and or Manufacturer to get a cost effective solution in both design and manufacturing, with the same integrity as per the original design and including an Engineers confirmation certificate if the final product is lower priced.

Office classification:

Regional Offices, illuminated and can have bespoke requirements

Divisional Offices, illuminated and can have bespoke requirements

Head Office, illuminated and can have bespoke requirements

Any other office environment

3

Sign surfaces

Sign surfaces are two types to suit illuminated and non-illuminated signs.

Surface must be an UHI ("shatterproof") light enhancing Perspex as from Perspex SA for all box signs or equal approved.

Vinyl specifications for box signs (illuminated) must be Avery Translucent film – 5500QM or 3M Translucent film – Series 3630 or **"Equal approved"**

Non illuminated Flat signs are manufactured from Chromadek steel sheeting with bent up sides to cover framework mounted on square tubing frames with hidden fixings. Digitally printed vinyl to be applied onto the surface (graphic to include the black frame with equal sizes as indicated in **PRASA Signage Guidelines and specifications, Version 9**. Sign surface to have a UV laminate overlay.

Secondary flat signage made from ACM (Aluminium Composite Material), with colour coded digital print. All digital prints to have a UV laminate overlay.

4

Sign structure and frames

Sign boxes to be manufactured from aluminium extrusions, 90mm (typical Mae West extrusion) and all mild steel structure items (brackets, box frame structure, mounting plates, suspended arms, foot plates, poles) to be Powder coated with coastal quality undercoat, RAL 9005, Natural Aluminium look, Matt finish or **"Equal approved"** .

All mild steel structure items as mentioned above to be standard size square steel tubing to size.

Hot dipped galvanised steel to be utilised in all coastal areas.

All concrete footings to be designed to each sign specifically taking into consideration weight, soil density, wind forces, rain etc with certified certificates from relevant engineer.

5

Loose letter application

Letters to be fabricated aluminium letters, white UHI ("shatterproof") light enhancing Perspex faces with blue returns and illuminated with LED`s for a non-background surface mounted on a sub frame system. Minimum height to be 1000mm.

For an installation on a solid back ground (building) letters are to be fabricated aluminium letters, white UHI ("shatterproof") light enhancing Perspex faces with white returns and illuminated with LED`s. Minimum height to be 1000mm.

For an installation on a solid back ground, (Prasa Blue flat surface) letters are to be fabricated aluminium letters, white UHI ("shatterproof") light enhancing Perspex faces with white returns and illuminated with LED`s. Minimum height to be 1000mm.

6

Sign panel sizes

All sizes must be as per ***PRASA Signage Guidelines and specifications, Version 9*** document.

Chromadek signs with vinyl digital print must fit within the sizes given and typographic layout indicated.

7

Standard Warranty

All signage surfaces to have a minimum of five (5) years warranty against fading. The necessary documents to be presented.

A five (5) year warranty with an IP67 (Ingress protection rating) for all LED light fitting installation is required. The necessary documents to be presented.

The supply base companies to be SANS certified and the necessary documents to be presented.

ISO certification to be presented on materials and products

Hot dipped galvanising on all mild steel frameworks in coastal areas.

Powder coating to be with coastal quality undercoat

8

Environmental

Alluminium extrusions or any to be recycle-able if not reused

Any Perspex material to be recycled if not applied

9

Reference

Reference must be made to the ***Prasa Signage Guidelines and specifications Version 9***

PRASA Design Blue Print standards and Guidelines