

## ANNEXURE B

### **TENDER PRICE LIST PER ITEM**

ASSET DESCRIPTION: TRANSTEL BUILDINGS

CITY / TOWN: LAINGSBURG

RFQ NO: BLE / 52575

ASSET NO: 02BFA09C

WORK DESCRIPTION Maintenance to Transtel Buildings asset no. 02BFA09C; 02BFA10C; 02HFA09C

#### **TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS**

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparations include sanding, stopping and washing of items to be painted as specified by the paint manufacturer is included in all the paint items. Where abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, installed or applied as specified by the manufacture.

The contractor shall be liable for any damages caused by his or her staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

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SUB TOTAL PAGE 1

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
<b>CEILINGS</b>					
37	Transtel Building Room 1-6=87m²: Toilet No.1 =4m²: Garage =19m²:Prepare ceiling surface for painting. wash ceilings with sugar soap.Fill all cracks and holes, sand existing ceiling paint to provide bonding for new paint.Rinse ceiling with clean water to remove sugar soap and sanding dust.	110	M²		

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
39	Transtel Building:Room 1 to Room 6 Ceiling; 87m <sup>2</sup> Remove loose paint from ceiling, clean area and treat area with bonding liquid (see attached specification)	87	M <sup>2</sup>		
43	Transtel Building =Room 1 to Room 6 Ceiling; 87m <sup>2</sup> : Garage = 19m <sup>2</sup> Total 106m <sup>2</sup> Paint Concrete;Nutac and Corr.Iron ceiling complete 1 coat universal undercoat and 1 coat egg shell enamel after preparations as specified was done. (see attached paint specification)	106	M <sup>2</sup>		
44	Toilets Interior :02HFA09C 1 & 2 = 4m <sup>2</sup> Paint Corr. Iron ceilings 1 coat universal undercoat and 1 coat gloss enamel. apply paint only after preparation as per specification.	4	M <sup>2</sup>		
<b>WALLS INTERIOR</b>					
53	Transtel Building:Room 1 to 6 :Repair crack in wall 4 to 6 mm wide, open up crack with sharp object, fill crack with poly cell or similar filler and sand smooth (hairline cracks and cracks up to 4mm is included in the preparations for paint of wall item)	13	M		
59	Transtel Building:Room 2 to 6: 222m <sup>2</sup> Prepare wall for painting, wash brick walls with sugar soap, open up cracks to 4mm with sharp object, fill crack and all hole, sand level and sand wall complete to provide bond for new paint, rinse with clean water to remove sanding dust	222	M <sup>2</sup>		
60	Transtel Building 02BFA09C: Room 2 to 6 = 81m <sup>2</sup> :Toilet 02HFA09C :No.1= 11m <sup>2</sup> : Remove loose paint and treat area with Plascon or Dulux bonding liquid for oil based paints. (see attached specification)	92	M <sup>2</sup>		
69	Transtel Building 02BFA09C; Room 2 to 6 =222m <sup>2</sup> Paint brick wall or type wall surface needed to be painted by brush 2 coats Dulux wash 'n wear or Plascon double velvet paint after all preparations as specified was done (see attached paint specification) colour: barely beige code 3h1-1 White 7	222	M <sup>2</sup>		
74	Trantel Building Room 1 =62m <sup>2</sup> : Toilet no. 1.=22m <sup>2</sup> Chip 80% of wall area to be tiled and apply key coat to wall before laying ceramic tiles. key coat shall be apply according the manufacturer specification on container;	84	M <sup>2</sup>		
75	Trantel Building Room1 =62m <sup>2</sup> : Toilet no.1: =22m <sup>2</sup> Apply key coat to wall before laying ceramic tiles, key coat shall be applied according the manufacturer specification on container) (use item when tiling direct on to straight and level brick wall)	84	M <sup>2</sup>		
79	Trantel Building room1 =62m <sup>2</sup> : Tile 200mm x 300mm Asti Grey wall Toilet No.1=22m <sup>2</sup> :Tile 200mm x 300mm Asti Grey wall Lay 1st grade 200 x 250mm Asti Grey ceramic glazed wall tiles. use 3mm spacers. item include walls, reveals, soffits, sills and the top of shower walls. use white grout. use only Tylon wb11 adhesive or adhesive approved by project manager	84	M <sup>2</sup>		
81	Trantel Building room1 =62m <sup>2</sup> : Toilet No 1: =22m <sup>2</sup> Extra over item to the tiling of walls. mix tile grout (Dove Grey) in shower area or permanent wet areas with Tylon bond it instead of water. this makes the grout water proof.	84	M <sup>2</sup>		
84	Transtel Room 1 windows and doors =35m Toilet = 20m Fit Light Grey round plastic tile edge strip for ceramic wall tiles, all corners shall be neat mitre joints, no section shall be shorter than 450mm in a long straight section	55	M		

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
85	Transtel Room1: Fit Light Grey plastic cove edge strip to ceramic tiles to finish joints between tiles and sink / bath. all corners shall have neatly mitred joints (no piece shall be shorter than 450mm in a long straight section )	10	M		
86	Transtel Room 1:2/3,20;Use silicone sealer as file joint to allow for movement in expansion joints with ceramic wall tiles in all corners and at maximum every 4.0m. (tiles should be installed providing for adequate movement joints) see attached specifications	7	M		
87	Transtel Room 1:2/3,20; Fit light duty expansion/movement joint for ceramic tiles at area as per instruction from project manager. no section shall be shorter than 450mm in a long straight section	7	M		
<b>WINDOWS INTERIOR</b>					
177	Transtel Building Rooms 1; 3; 5 Install aluminium Venetian blinds .3/ 2500mm wide x 1500mm drop. 1/1200mm wide x 1200mm drop. colour = (Colour Cream) slats width =25 mm.	4	EA		
<b>WINDOWS INT AND EXT</b>					
204	Transtel Building Rooms 1; 3;& 5=12m Remove all rust from steel window frame profile section with hand or mechanically, all thick and scale rust must be removed, then use 60 grid sandpaper and steel brush, wash clean, let dry, apply approved rust converter (see attached specification)	12	M		
206	Transtel Building = 15m <sup>2</sup> Paint residential small pane type window frame complete, with 1 coat universal undercoat and High Gloss White.Window frames must be properly covered. Item includes removing all old paint from glass area and cleaning of glass. see detailed specifications.	15	M <sup>2</sup>		
<b>DOORS/SECURITY GATES</b>					
255	Transtel Building Rooms 1; 3; 4 & 5 Cut and sand edge of door at bottom to allow for ceramic tiles or carpet. item includes remove and refitting of door	5	EA		
287	Transtel Building Rooms 1; 3 & 4; Paint door complete both sides, side edges, top edge with 1 coat universal undercoat and High Gloss White. Doors must be properly covered. Do preparation before painting per spec. Door 900mmx2.10m=3.78m. Item include remove before paint and refit of handles	12	M <sup>2</sup>		
304	Transtel Building 02BFA09C Manufacture and install security gate 3/2.10m x 1,0m and One Double Security gate 1,65m x 2,10m . Doors to be and Hot Dip Galvanised.(see Annexure Ba & Bb)	4	EA		
<b>DOORFRAMES</b>					
329	Transtel Building Rooms 1;3 & 4 Exterior FL&B doors 3/0,90m x 2,10m and one Bouble FL&B door 1/1,65m x 2,10m Paint door frame 1 coat undercoat and High Gloss White. Doors must be properly covered. Do preparation as per specification	26	M <sup>2</sup>		
<b>FLOORS</b>					
337	Transtel Building Rooms 1/ 62m <sup>2</sup> Toilet/Shower Room 2/ 4m <sup>2</sup> Apply pavelite floor levelling screed on concrete sub floor to level floor to lay carpets on to sub floor (read attached specifications)	66	M <sup>2</sup>		

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
340	Transtel Building Rooms 1/ 1,0m <sup>2</sup> Toilet/Shower Room 2/ 1,0m <sup>2</sup> Fit 25mm wide x 3mm thick brass weather strips in concrete floor at threshold (fit just on inside of door in concrete floor/topping to prevent water from entering between floor and door)	3	M		
345	Transtel Building: Rooms 2; 4; 5 & 6 / 55m <sup>2</sup> Remove vinyl floor tiles complete and clean floor from all adhesive	55	M <sup>2</sup>		
346	Transtel Building: Rooms 2;4;5 & 6 / 55m <sup>2</sup> Colour Menthol MS063 Lay Marley flex vinyl floor tiles or approved similar tiles from other manufacturer. thickness 2,0mm. size 300mm x 300mm. use adhesive specified by manufacture	55	M <sup>2</sup>		
365	Transtel Room 1 =20m <sup>2</sup> Toilet No.1= 5m <sup>2</sup> Chip 80 % of concrete floor area. supply and apply Tylon or tal key coat to floor for ceramic tiles (please read the manufacture specifications on container on how to mix and apply the key coat)	25	M <sup>2</sup>		
366	Transtel Room 1 =20m <sup>2</sup> Toilet No.1= 5m <sup>2</sup> Colour Liverpool 313 Art M3913 Tone 22/ 300mm x 300mm ) Lay 1st grade ceramic floor tiles on floor (use 10 x 6mm notched trowel) joints 5mm wide use only Tylon WB11 tile adhesive for ceramic tiles adhesive as approved by project manager. Type tile as per sample tile shown at site meeting Read specifications	25	M <sup>2</sup>		
368	Transtel Room 1 =20m <sup>2</sup> Toilet No.1= 5m <sup>2</sup> Colour Light Grey Extra over item to floor tiles, mix tile grout in shower area or permanent wet areas with Tylon bond it and not with water	25	M <sup>2</sup>		
372	Transtel Building: Room 1 Fit light duty expansion strip to ceramic floor tiles at point where specified on floor (specify heavy duty strip) project manager to show position of expansion strips (tiles should be installed providing for adequate movement joints)	4	M		
390	Transtel Building: Rooms 3 & 4 Fix loose wood skirting(6m)	6	M		
395	Transtel Building: Rooms 3 & 4 = 29m Colour River Rock code 6J1 - 7 Deep 9 1lt Paint skirting and quarter rounds complete. 1 coat undercoat and 2 coats Dulux pearlglie Colour River Rock code 6J1 - 7 Deep 9 1lt. 75mm skirting paint only after preparation as per attached specification.	29	M		
398	Transtel Room 1 =20m Toilet No.1= 10m Fit ceramic tile skirting,100mm wide, complete with plastic ceramic tile edge strip on top edge of tiles. item include the chip of 80% of wall area for the tile skirting and to apply key coat to chipped wall area 100mm wide. use tiles as per floor tiles	30	M		
405	Toilet/ Shower: No.1 Build shower floor wall, 2 bricks high. form concrete shower floor 1.0m x 1.0m. in side shower cubicles, floor shall have fall towards outlet. make sure to leave space for ceramic floor tiles and adhesive to be level with top of outlet grid.	1	EA		

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
406	Toilet/ Shower: No.1 1=1m <sup>2</sup> Tile shower floor with 50mm x 50mm dark grey mosaic tiles. tile shall have fall towards outlet. top of tiles shall be level with the top of outlet trap grid. fit 2 rows of mosaic tiles as skirting. mix grout with Tylon Tal bond it, not water	1	M <sup>2</sup>		
417	Transtel Building: Room 6 = 9m <sup>2</sup> Clean floor from all oil, grease, dirt with heavy duty detergent to the satisfaction of the project manager. rinse with clean water and leave to completely dry out. apply two coats Dulux or Plascon dark grey floor paint	9	M <sup>2</sup>		
<b>CUPBOARDS / TABLE</b>					
445	Transtel Building Room 1: Remove sink cupboard wood / steel and sink complete for scrap.	1	JOB		
448	Transtel Building Room1: Sink, build 1.2m long single sink and stand 1,60m with bricks, plaster, tiles and manufacture of angel iron frame to support sink. all item is include to build, tile and manufacture frame and include new sink. see attached specification for detail	1	JOB		
<b>PLUMBING INTERIOR</b>					
490	Toilet Asset 02HFG09C = 1 Fit toilet complete, include wc pan, 9 litre porcelain cistern, cobra angle valve, flex connector and heavy duty plastic seat (not close couple).	1	EA		
505	Toilet / Shower Install Kal/Wespeco or approved sliding glass and aluminium shower door with obscure/frosted glass. silicone sealer shall be applied between tiles and aluminium frame before fitting frame and not after frame has been fixed.	1	EA		
522	Transtel Room 1: See Annexure Install Kwikot Prisma Deluxe Under Basin Geyser / PRX-10-UB 10Lt 360mm x 360mm x 254mm complete with right hand bowl and Wooden Sink cabinitt and painted. item include all piping and fittings, see annexure ( ) .item include electrical work	1	EA		
534	Transtel Room 1 Drill 40mm to 60mm holes through wall up to 300 mm thick for PVC waste pipe and make good	2	EA		
<b>FIT/REPLACE ITEMS/ FURNITURE</b>					
565	Toilet 1: Fit toilet paper holder white lockable paper dispenser type holding 2 or 3 rolls	1	EA		
567	Shower Room: Fit soap dish build in porcelain/ chrome plated type fit on to tiles. (for shower fit 1250mm height from shower floor)	1	EA		
569	Shower Room: Fit new towel rail croamplated +/- 1,0m long	1	EA		
570	Shower Room: Fit or replace hat and coat hooks, use only heavy duty chrome plated type that is approved by project manager	3	EA		
<b>ROOF</b>					

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ITEM NO	FAULT DISCRIPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
578	Toilet/Shower Roof: Screws 15 Replace loose roof screws with 75 mm coach type roof screws for corr iron with bond it washer. do not over tighten new roof screws. n.b. any damage to roof sheets shall be repaired, or sheets shall be replaced by the contractor at his own expense.	15	EA		
596	Transtel Building:02BFA09C = 115m <sup>2</sup> Fit 0.8mm thick IBR profile roof sheet and Ridging to roof structure up to 2,25m high, fitting as per attached specification and as per manufacture specification. (Chromodeck from Clotan Steel; Colour Sand Stone Beige) Work done as per approved safety plan.	115	M <sup>2</sup>		
621	Laingsburg: Transtel site to monitoring by A.I.A. All work on asbestos roof to be done accordance with Asbestos Regulations. Remove the threat of dangerous Asbestos fiber ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.	1	JOB		
622	Transtel Building Asset 02BFA09C = 230m <sup>2</sup> Garage Asset 02BFA10C - Walls 54m <sup>2</sup> Spray side walls sheets of garage with TSW as per attached specifications to bind and seal asbestos fibre. All necessary scaffolding included in item (area do not include roof sheet profile)efore removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	284	M <sup>2</sup>		
623	Transtel Building Roof asset 02BFA09C = 230m <sup>2</sup> Remove asbestos roof sheets from roof and load to transport and ready for transport to Vissershok in terms of the attached spec and asbestos regulations.	230	M <sup>2</sup>		
624	Transport from and to Vissershok for dumping of asbestos sheets at dumping site. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	1	JOB		
626	Transtel Garage Asset 02BFA10C = 20m <sup>2</sup> Toilet Asset 02HFA09C =6m <sup>2</sup> Prepare roof for painting where existing paint is peeling. remove all loose paint, sand roof to provide bond for new paint. clean and rinse roof with clean water and broom. roof area is length x width (area do not include roof sheet profile)	26	M <sup>2</sup>		
629	Toilet 02HFA09C = 4m <sup>2</sup> Clean under side of roof overhang, remove all loose paint, galvanized coating must not be damaged	4	M <sup>2</sup>		
631	Garage 02BFA10C = 25m <sup>2</sup> / Toilet 02HFA09C = 6m <sup>2</sup> Do preparations as specified and paint roof 2 coats bitumen aluminium paint. (see attached paint specification)	31	M <sup>2</sup>		
632	Toilet 02HFA09C = 4m <sup>2</sup> Do preparations as specified and paint roof corr iron/IBR two coats Dulux or Plascon white roof paint. area is length x width (area do not include roof sheet profile) overcoat time 4 hours. (see attached paint specification)	4	M <sup>2</sup>		

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ASSET NO: 02BFA09C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
639	Transtel Building 02BFA09C = 2m <sup>2</sup> / Toilet 02HFA09C = 1m <sup>2</sup> Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	3	M <sup>2</sup>		
640	Transtel Building 02BFA09C =3m <sup>2</sup> Paint exposed roof timber sprockets, 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	3	M <sup>2</sup>		
644	Transtel Garage 02BFA10C =6m <sup>2</sup> Remove loose paint from under eave ceiling clean area and treat area with bonding liquid or perm0 bond. (see attached paint specification)	6	M <sup>2</sup>		
645	Transtel Garage 02BFA10C =6m <sup>2</sup> Do preparations as specified and supply paint and paint under eaves ceilings two coats paint. see attached paint specification)	6	M <sup>2</sup>		
911	See Annexure C for erecting a lean-to at Transtel Building entrants door left side door to front of building	1	JOB		
<b>FACIA/BARGE BOARDS</b>					
653	Transtel Building 02BFA09C = 30m Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	30	M		
655	Transtel Building 02BFA09C = 16m Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	16	M		
657	Transtel Building 02BFA09C = 16m Paint fascia board nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	16	M <sup>2</sup>		
658	Transtel Building 02BFA09C = 30m Paint barge board nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification had been done	30	M <sup>2</sup>		
<b>GUTTERS/DOWNPipes</b>					
664	Transtel Building 02BFA09C = 15m / Toilet 02HFA09C = 4m /Garage 02BFA10C =9m Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	28	M		
669	Transtel Building 02BFA09C = 15m / Toilet 02HFA09C = 4m /Garage 02BFA10C =9m Fit chroma dek seamless gutters for inland and aluminium for costal area (Colour Sand Stone Beige)	28	M		
678	Transtel Building 02BFA09C = 8m / Toilet 02HFA09C = 3m /Garage 02BFA10C =6m Fit chroma dek down pipes 100mm x 75mm for inland and aluminium for coastal (Colour Sand Stone Beige)	17	EA		

**WALLS EXTERIOR**

Respondent's signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

RFQ NO: BLE / 52575

ASSET NO: 02BFA09C

ITEM NO	FAULT DISCIPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
722	Garage 02BFA10C = 56m <sup>2</sup> Prepare Asbestos Panel walls for painting. Wash Asbestos Panel walls with sugar soap. open up fine cracks with sharp object, fill crack and all hole, sand level and sand wall complete to provide bond for new paint. Rinse with clean water to remove all sanding dust	56	M <sup>2</sup>		
725	Garage 02BFA10C = 56m <sup>2</sup> Remove loose, flaking and powdery paint. Wash wall with high water pressure jet cleaner machine. Allow t wall to dry completely and treat wall with Alcolin Permo Bond	56	M <sup>2</sup>		
728	Garage 02BFA10C = 56m <sup>2</sup> Paint exterior Asbestos Panel walls with 2 coats Dulux wall guard paint or similar paint approved by project manager. Apply paint only after preparation as per attached specification has been done. colour: Dulux Gentle Gold beige( code 20YY63/149 White 7)	56	M <sup>2</sup>		
729	Toilet 02HFA09C = 26m <sup>2</sup> Dulux Gentle Gold beige( code 20YY63/149 White 7) Paint exterior plaster tyrolene finish walls with 2 coats Dulux wall guard paint or similar paint approved by project manager after all preparations as specified was done (see attached specification).	26	M <sup>2</sup>		
<b>WINDOWS EXTERIOR</b>					
740	Transtel Building 02BFA09C = 53m Remove loose and cracked front putty. clean steel of all dirt and rust and paint glazing bars with Dulux or Plascon steel anti rust primer. replace front putty to neat and straight finish.	53	M		
742	Transtel Building 02BFA09C = 9m <sup>2</sup> Remove all rust from steel window frame profile section with hand or mechanically, all thick and scale rust must be removed, then use 60 grid sandpaper and steel brush, wash clean, let dry. apply approved rust converter (see attached specification)	9	M <sup>2</sup>		
751	Transtel Building 02BFA09C = 10m <sup>2</sup> Manufacture and install mentex Box screen frames (size3/2,1 m x 1,10m and 1/2,1m x 1,35m), and Hot dip galvanised. (Annexuer A )	10	M <sup>2</sup>		
753	Transtel Building 02BFA09C = 10m <sup>2</sup> Area is with window closed. clean. sand and paint residential small pane window type. 1 coat universal undercoat and 1 coat Dulux pearlglo White. Item include removing all old paint from glass area and cleaning of glass.	10	M <sup>2</sup>		
760	Transtel Building 02BFA09C = 2m <sup>2</sup> Do preparations as specified, clean and paint louvre complete universal undercoat and 1 coat gloss enamel (see attached paint specification) ( project manager to specify colour)	2	M <sup>2</sup>		
<b>CONCRETE SLABS/PAVING</b>					
858	Lay 25 MPA cement paving bricks. Item includes the preparation of the area, remove plants, grass, supply approved filling, levelling of ground, compaction of soil. bedding sand and restraining edges. all work and material shall comply with specifications	100	M <sup>2</sup>		

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ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 9 R

**PRELIMINARY AND GENERAL**

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

**RISK AND SAFETY**

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health . Safety Act.

Included in risk and safety. The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price, excluding VAT, must be forwarded to Section 2, the Quotation form (page 10)

Respondent's signature: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

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# **SPEEDHEAT**

## Instant Hot Water System

Home Page

About Us

SpeedHeat

F.A.Q.

Installation

The key words behind this remarkable innovation are *cost savings and flexibility of application.*

How much is your hot water bill at home or at your holiday house, caravan, the ablution block at your sports club, going to be this year? You are probably aware that the bill for keeping hot water in your cylinder/tank makes up about 50% of your electricity bill.

Simply put the small, inexpensive SpeedHeat unit replaces the need for a tank! The hot water is generated by simply turning on the cold water tap. The cold water goes through the SpeedHeat unit where it is heated by a coil (similar to your kettle). You can vary the temperature of the hot water coming out of the SpeedHeat unit by simply turning the tap!



Standard Shower Unit

### IN SUMMARY:

**SPEEDHEAT** units are very affordable.

**SPEEDHEAT** units are easy to install.

**SPEEDHEAT** saves electricity and water costs.

**SPEEDHEAT** comes with a 1 year warranty.

**SPEEDHEAT** is ideal for use in low water pressure areas (60kPa. / 0.6 Bar).

**SPEEDHEAT** is ideal for use in hard water areas.

**SPEEDHEAT** parts are replaceable.

**SPEEDHEAT** units are fitted with a thermal cut out switch, (A safety feature which will switch off the element should the water get too hot).

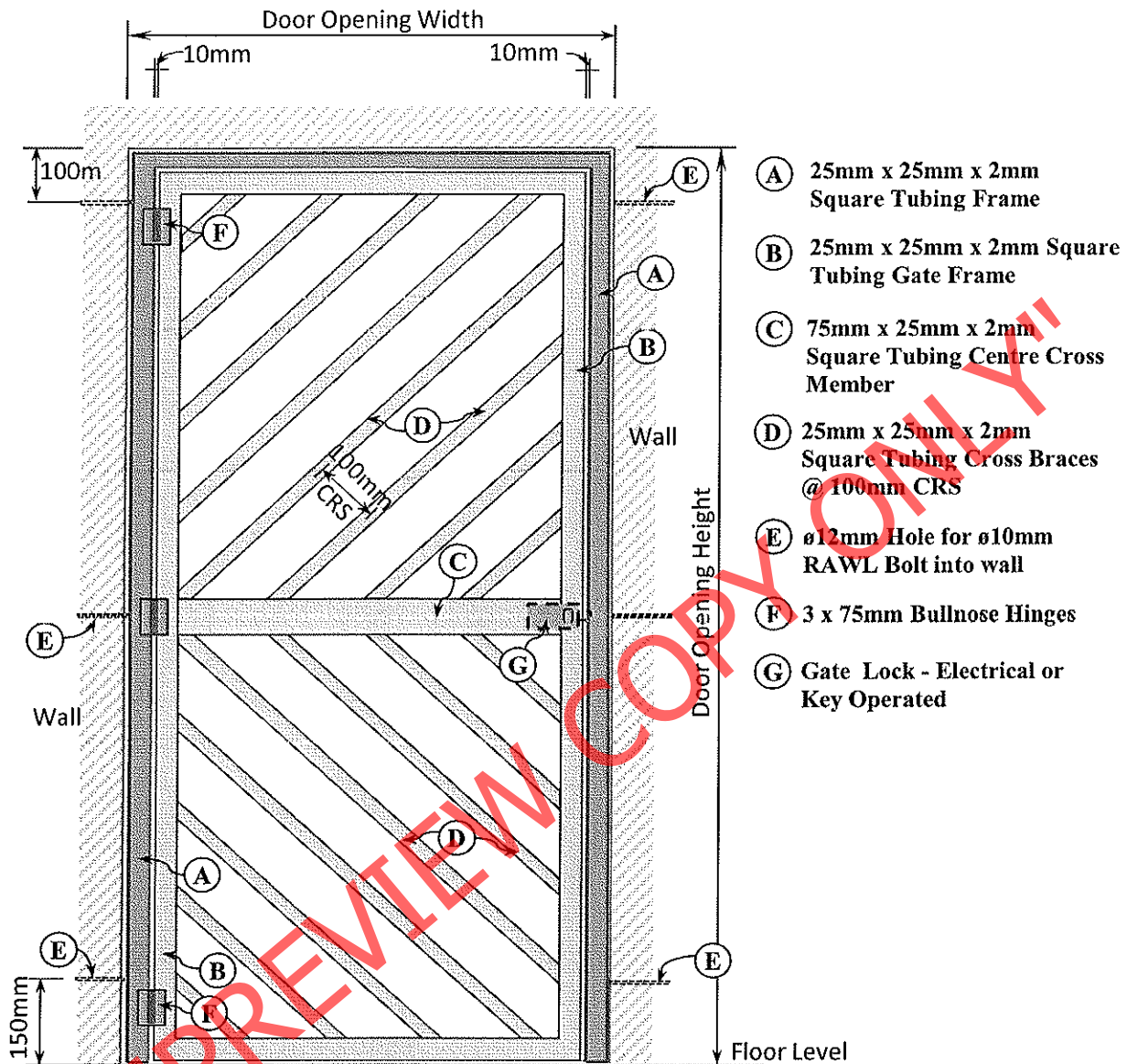
**SPEEDHEAT** units come with a replaceable pressure relief device. (Should the outlet get blocked). PRD small rubber bung.

**SPEEDHEAT** are tested and approved to the IEEC 335-1, IEEC 335-2-35 and BS EN 335-1:1986 Standards.

### Operating Instructions:

1. Open the (cold water) tap to establish a good flow of water through the unit.
2. Slowly turn the tap to reduce the flow of water until you reach the desired water temperature

# STEEL SECURITY GATE



**DOOR OPENING DIMENSIONS MUST BE CHECKED AND CONFIRM ON SITE BY CONTRACTOR**

**SEE PROJECT SPECIFICATIONS FOR MORE DETAIL AND SPECIFICATION OF MATERIAL**

Place

**Laingsburg**

Asset Number

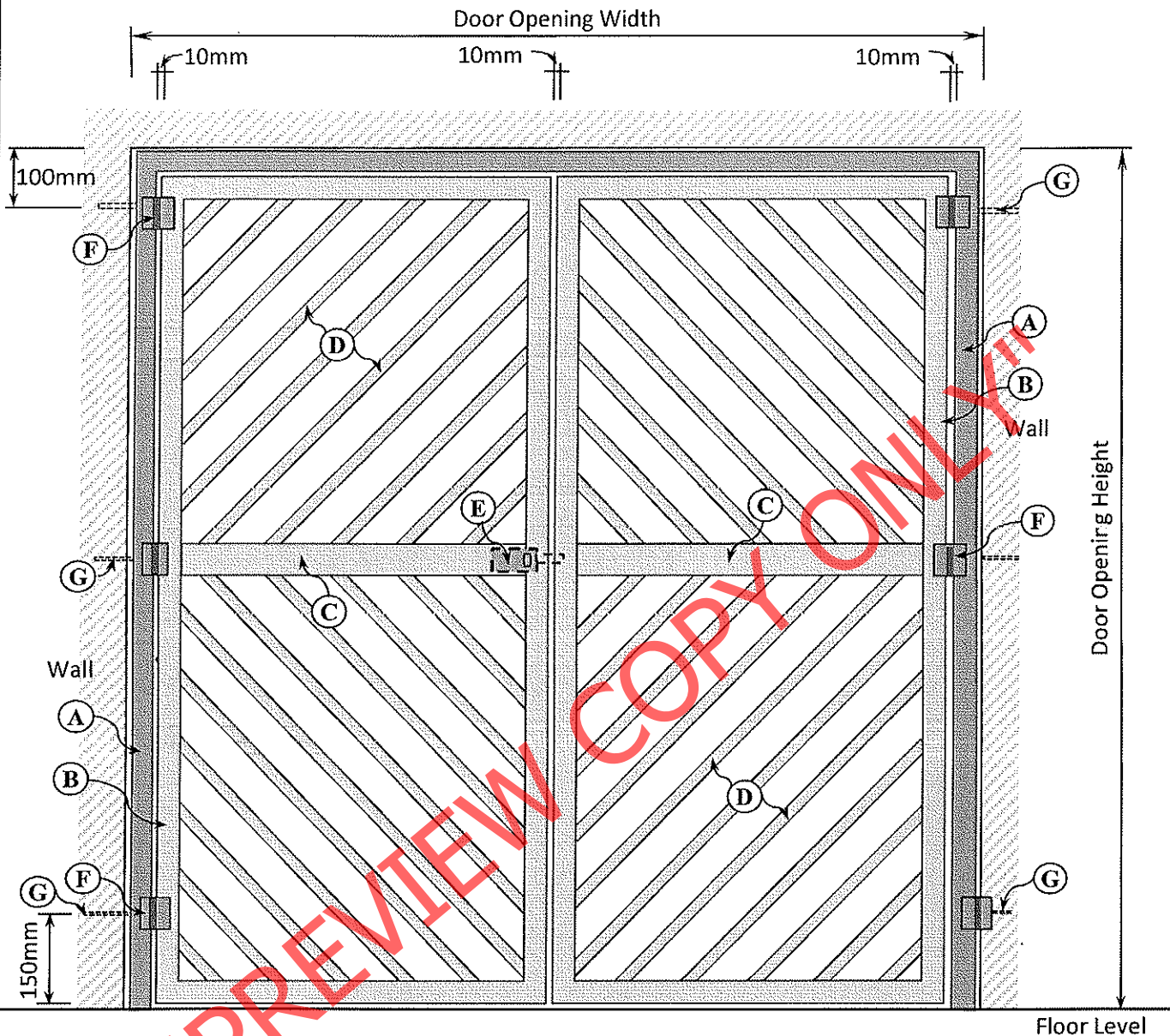
**02BFA09C**

Contract Number

**BLE / 52575**

Drawn : Frans Marais



DOUBLE STEEL SECURITY GATE

- |  |  |
|--|--|
| (A) 25mm x 25mm x 2mm Square Tubing                          | (E) Gate Lock - Electrical or Key Operated               |
| (B) 25mm x 25mm x 2mm Square Tubing                          | (F) 3 x 75mm Bullnose Hinges                             |
| (C) 75mm x 25mm x 2mm Square Tubing Centre Cross Member      | (G) $\phi$ 12mm Hole for $\phi$ 10mm RAWL Bolt into wall |
| (D) 25mm x 25mm x 2mm Square Tubing Cross Braces @ 100mm crs |  |

**DOOR OPENING DIMENSIONS MUST BE CHECKED AND CONFIRM ON SITE BY CONTRACTOR**

**SEE PROJECT SPECIFICATIONS FOR MORE DETAIL AND SPECIFICATION OF MATERIAL**

*Place*

**laingsburg**

*Asset Number*

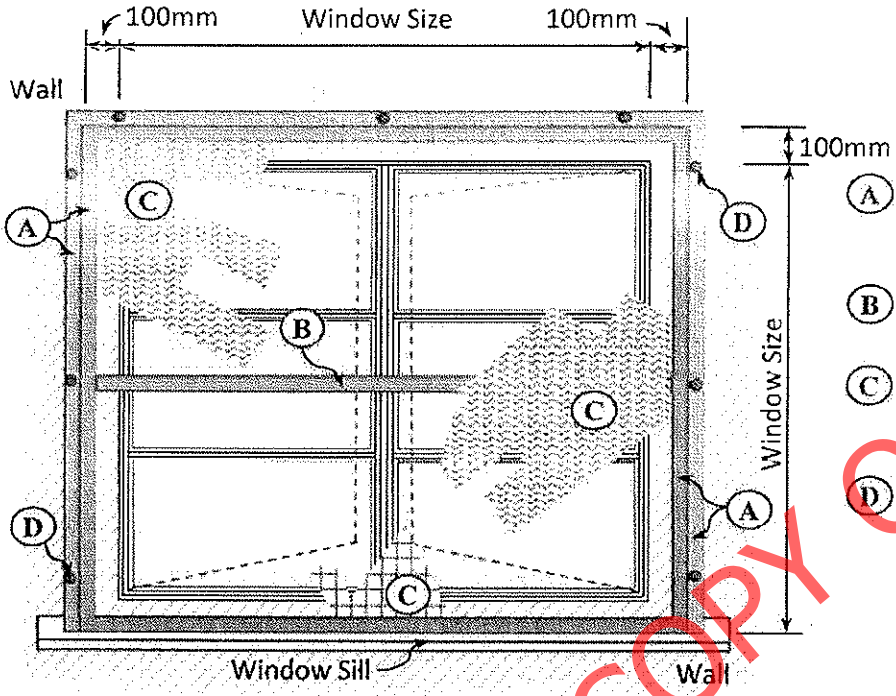
**02BFA09C**

*Contract Number*

**BLE / 52575**

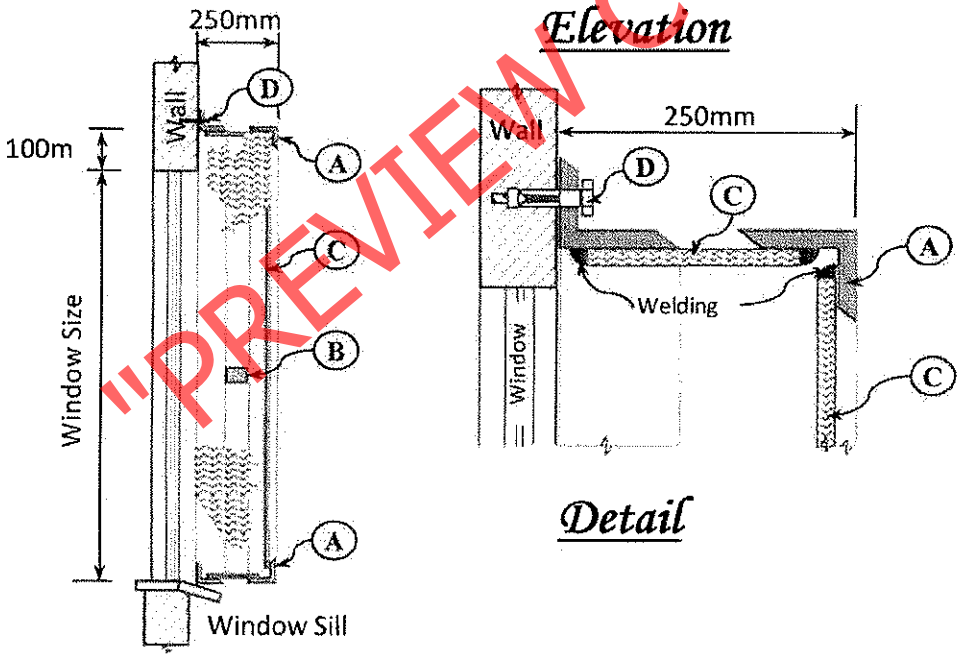
*Sketch Not to Scale*

# Expanded Metal Burglar Proofing Box Screens for Windows



- (A) 50mm x 50mm x 3mm Angle Iron Frame
- (B) 50mm x 6mm Flat Iron
- (C) Flatex Screen SWM 25mm LWM 50mm x 1,6mm Thick
- (D) ø10mm x 75mm RAWL Bolt or Coach Screws

Elevation



Detail

Section

Place LANGSBURG

Asset Number 02BFA09C

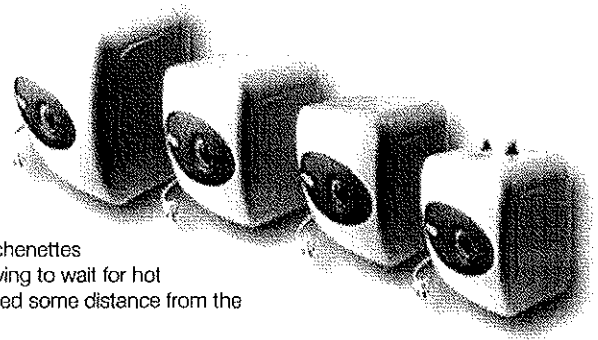
Contract Number BLE / \_\_\_\_\_

Drawn : Frans Marais





*Point of Use Electric Water Heaters with Titanium Coated Glasslined Inner Cylinder*



**product applications**

Kwikot Prisma Deluxe Electric Water Storage Heaters are suitable for domestic kitchens and laundries, medical suites, clinics and office kitchenettes where hot water is readily required. The units solve the problem of having to wait for hot water from larger electric water heaters (geysers) which may be installed some distance from the point of use, thus saving on water wastage.

**product features**

- Kwikot Prisma Deluxe Electric Water Heaters have a Titanium Glasslined Inner Cylinder, offering a long life to the cylinder (subject to water conditions equivalent to Metropolitan supply authorities).
- All units have a shiny non-corrosive polypropylene outer casing, which provides aesthetic appeal and will not discolour overtime.
- Thick polyurethane foam insulation is used to reduce inner cylinder heat loss.
- Units are fitted with a larger sacrificial anode, providing additional inner cylinder protection.
- External Temperature Controls are fitted with a maximum temperature setting of 75°C.
- Thermostat with bipolar safety device is fitted.
- Maximum working pressure up to 800kPa.
- Fitted electrical cable with 15 Amp 3 Pin Electrical Plug.

**product specification data**

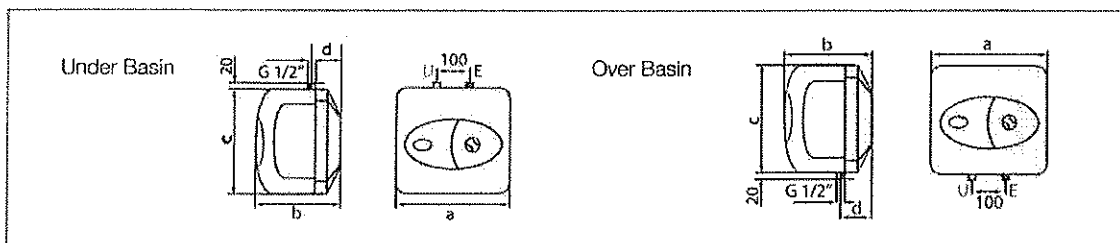
Units are tested to SANS 00335-2-21.

	6.6kgs	6.6kgs	7.4kgs	12.8kgs
Weight (empty)	6.6kgs	6.6kgs	7.4kgs	12.8kgs
Electrical Supply	230V	230V	230V	230V
Wattage	1500	1500	1500	1500
Heating Time (ΔT=50°C)	23 minutes	23 minutes	35 minutes	70 minutes
Heat Dispersion (kWh/24hours)	0.43	0.55	0.53	0.61

The Thermostat, will cutout when the required temperature is reached. The recommended setting is 60°C. Faulty Thermostats and Elements can be replaced when necessary. The Sacrificial Anode must be checked every six months for degradation and replaced if necessary.

**product dimensions**

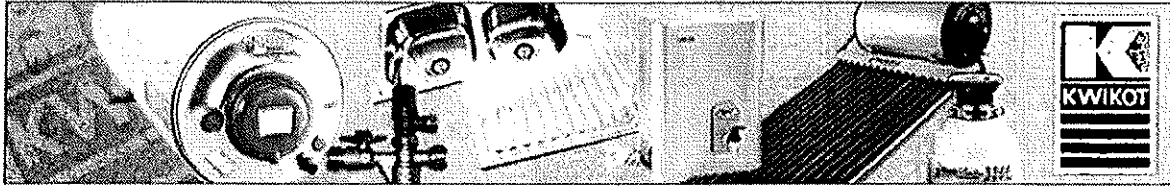
	6.6kgs	6.6kgs	7.4kgs	12.8kgs
A (mm)	357	357	357	447
B (mm)	261	261	308	370
C (mm)	357	357	357	447
D (mm)	92	92	78	114



**product installation data**

- Installation of the point of use electric water storage heater must be carried out by a qualified plumber.
- The Under Basin unit should be fitted with a counter surface PUSH THROUGH MIXER (not supplied) and the Over Basin Unit with a over counter PUSH THROUGH MIXER (not supplied) or with STOP COCK and SPOUT (not supplied). These are available as optional extras.

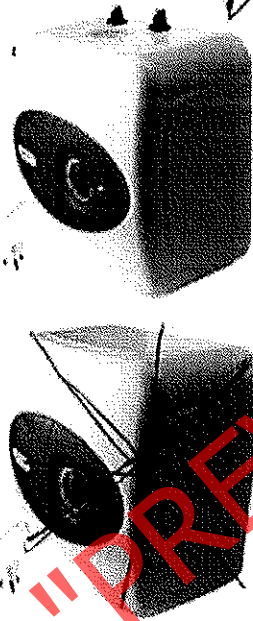
SHEET 01: 1/2



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Kwikot > Products > Point of Use Water Heaters > Prisma Deluxe

Prisma Deluxe  
UNDER BASIN



**Description**

The Kwikot Prisma range of Point of Use Electric Water Heaters are ideal for domestic and medical applications where small quantities of hot water is instantly and readily available. The Deluxe range have a titanium coated inner steel tank, which provides higher resistance to corrosion and scale build up.

For the efficient supply of hot water at the point of use, Prisma Electric Water Heaters can be installed under or over a sink, basin or prep bowl with the use of a tap mixer, stop cock or spout. Installed at the point of use the water heater eliminates long waiting periods for hot water, thus conserving water and energy. The neat and durable outer casing is finished in appliance white. Units are fitted with an externally adjustable temperature control setting of up to 70°C. The recommended setting is 60°C. Units are tested to SANS 60335-2-21 safety specification.

**Warranty**

- 1 Year on the inner cylinder from date of installation and subject to water conditions equivalent to main metropolitan supply authorities.
- 1 Year on the Element, Thermostat and Temperature & Relief Valve.

**Specifications**

Operating Pressure: Up to 700kPa  
 Design: Under and Over Basin units.  
 Sizes: 10lt, 15lt and 30lt Over Basin; 10lt Under Basin  
 Supplied with: Electrical cord with 230V 15Amp plug, mounting bracket and security (safety valve).  
 Terminal Fittings (Optional): Over Sink Mixer (PMX-72), Under Sink Mixer (PMX-74), CP Stock Cock (PST-76) and CP Swivel Spout (PSS-78).

CODE	SIZE (LITRES)	DIMENSIONS	MASS UNFILLED (KG)	LOAD (KW)	HEAT TIME (min)
<b>Over Basin:</b>					
PRX-10-OB	10	360 x 360 x 254	7.6	1.2	35
PRX-15-OB	15	360 x 360 x 300	7.8	1.2	45
PRX-30-OB	30	445 x 445 x 360	13.7	1.5	85

SHEET 2: 2/2

Under Basin:

PRX-10-UB	10	360 x 360 x 254	7.6	1.2	35
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Request prices from plumbing merchant.

CODE	DESCRIPTION
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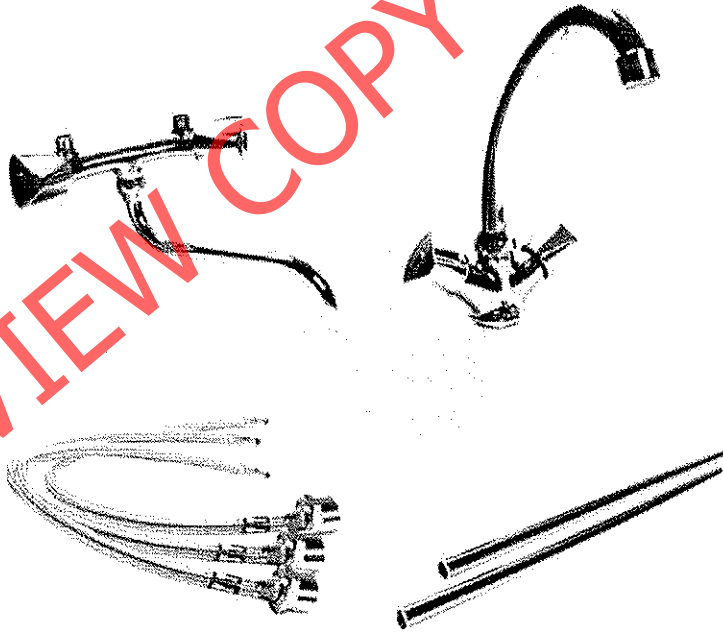
Fittings:

PST-76CP	Stop Cock
PSS-78	Swivel Spout
PMX-74	Under Basin Mixer
PMX-72	Over Basin Mixer

Request prices from plumbing merchant.

Installation Specifications

1. For the Under Basin units, sufficient space must be available either side of the cupboard, under a sink or next to the pedestal under the basin.
2. For the Over Basin units the area above the basin or sink must either be bricked or tiled with no window opening.
3. A 15mm BSP cold water connection must be available.
4. A 15Amp wall socket within 1.5m reach of the installed unit must be available.
5. Full installation procedures can be downloaded from the respective brochures from the website.



## installation of the under basin unit

Allow sufficient space beneath the basin/sink for the unit and a 15 Amp wall socket should be within 1.5m of the unit.

1. Selecting a Position for the Mixer on the Basin/Sink (using the Kwikot Under Basin Mixer PMX-74)
  - Select the side of the basin/sink most suited for the mixer hole and where the space is directly underneath the unit.
  - Ideally the cold water connection should be on the same side as the mixer and under the basin/sink.
  - Using a drilling machine with a hole saw for stainless steel sinks or acrylic basins drill the mounting hole. On ceramic basins the mounting hole should already be provided.
  - Fit the mixer to the basin/sink and fit the flexible hoses to the mixer. Note the directional flow arrows on the hoses.
2. Mounting the Unit
  - Hold the unit against the wall within reach of the mixer's flexible hoses and mark the unit's position.
  - Remove the unit and drill two holes with a masonry drill bit to fix the hanging bracket to the wall. Minimum M8 size raw bolts should be used.
  - Fix the bracket to the wall by means of the raw bolts and ensure that the bracket is level by using a split-level.
  - Hang the unit onto the two hooks on the bracket.
3. Connecting the Mixer Pipes to the Unit and Water Supply Connection
  - Position the hoses to line up with the hot and cold connection points on the unit.
  - Using PTFE thread tape, screw the two hoses (hot and cold) onto the correct connections and the third hose connect to the main cold water supply, ensuring all hoses are tightly fastened.
4. Filling the Unit with Water
  - Open the main cold water supply to the mixer and open the flow control tap on the mixer.
  - Open the flow control tap on the mixer marked with a WHITE dot only.
  - Turn the temperature control tap on the mixer in the direction of the RED arrow mark. When all the air has expelled and the water flows freely from the spout, turn the temperature control tap in the direction of the BLUE arrow mark and see that the water flows freely.
  - When water flows freely on both the hot and cold settings, close the flow control tap.
  - **Ensure the unit is filled with water before connecting the electricity supply.**
5. Connecting the Electricity Supply
  - Plug the 15 Amp electrical cable into the wall socket and switch "ON".
  - Adjust the External Temperature Control to the desired setting (recommended 60°C) and switch "ON" the unit. The amber light will glow indicating that the water is been heated.

Important Note: After the first heating cycle of 23 minutes, depending on the size of the unit, drain off all the hot water to expel any contaminants i.e. solder flux.

## installation of the over basin units

The area above the basin/sink must be bricked or tiled with no window, a 15 Amp wall socket should be within 1.5m of the unit and a 15mm female cold water connection 350mm in the centre above the basin/sink.

1. Position for the Mixer (using the Kwikot Over Basin Mixer PMX-72) and Water Supply Connection
  - Slide the chrome finishing trim onto the mixer and screw the mixer without the spout onto the 15mm female cold water connection. Make sure the spout connection points downwards and the mixer is tightened.
  - Attached the spout.
2. Mounting the Unit
  - The ideal height for the unit is +/- 600mm from the top of the basin/sink to the bottom of the unit.
  - Hold the unit against the wall and mark the unit's position.
  - Remove the unit and drill two holes with a masonry drill bit to fix the hanging bracket to the wall. Minimum M8 size raw bolts should be used.
  - Fix the bracket to the wall by means of the raw bolts and ensure that the bracket is level by using a split-level.
  - Hang the unit onto the two hooks on the bracket.
3. Connecting the Mixer Pipes.
  - Measure the length between the pipe connections on the bottom of the unit and the mixer and cut the pipes to size using a hacksaw or tube cutter.
  - Slide the pipe nuts and sealing washers over the pipes and fit the pipes (hot and cold) onto the correct connections, ensuring all hoses are tightly fastened.
4. Filling the Unit with Water
  - Open the main cold water supply to the mixer and open the flow control tap on the mixer.
  - Open the flow control tap on the mixer marked with a WHITE dot only.
  - Turn the temperature control tap on the mixer in the direction of the RED arrow mark. When all the air has expelled and the water flows freely from the spout, turn the temperature control tap in the direction of the BLUE arrow mark and see that the water flows freely.
  - When water flows freely on both the hot and cold settings, close the flow control tap.
  - **Ensure the unit is filled with water before connecting the electricity supply.**
5. Connecting the Electricity Supply
  - Plug the 15 Amp electrical cable into the wall socket and switch "ON".
  - Adjust the External Temperature Control to the desired setting (recommended 60°C) and switch "ON" the unit. The amber light will glow indicating that the water is been heated.

Important Note: After the first heating cycle of 23 minutes, depending on the size of the unit, drain off all the hot water to expel any contaminants i.e. solder flux.