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TITLE	SPECIFICATION FOR MODULAR PARKHOME	REFERENCE	REV
		CP_TSSPEC_302	1
		DATE:	SEPTEMBER 2021
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**SPECIFICATION FOR MODULAR
PARKHOME**

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FOREWORD

Recommendations for corrections, additions or deletions should be addressed to the:

Technology Services General Manager

City Power Johannesburg (SOC) Ltd

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2016

INTRODUCTION

The main objective of having modular parkhomes is to ensure that the security guards have conducive and more spacious temporary guardhouses, to be used as and when required by City Power.

1 SCOPE

The purpose of this specification is to detail the technical requirements for a movable modular parkhomes.

2 NORMATIVE REFERENCES

The following standards and specifications contain provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the standards and specifications listed below.

Reference	Description
SANS 10142-1:2017	The wiring of premises Part 1: Low-voltage installations

3 DEFINITIONS AND ABBREVIATIONS

3.1 The abbreviations below shall apply to this specification.

A – Amps

Hz – Hertz

IBR - Inverted Box Rib

IP – Ingress Protection

V – Volts

W - Watt

4 SERVICE CONDITIONS AND PARAMETER MEASUREMENT TOLERANCE

4.1 The modular parkhomes shall be designed for use under the following service conditions:

- 4.1.1 Outdoors.
- 4.1.2 Pollution level: very heavy
- 4.1.3 Maximum temperature: 50 °C
- 4.1.4 Minimum temperature: -10 °C
- 4.1.5 Relative humidity: ±90%
- 4.1.6 Altitude: 1800 m (Above sea level)
- 4.1.7 Area: High lightning area

5 GENERAL REQUIREMENTS

5.1 Floor Description

- 5.1.1 Chassis shall be manufactured using 2.5mm galvanized mild steel bolted together.
- 5.1.2 Frame shall be lipped channel welded together.
- 5.1.3 Frame shall be painted with black water based primer.
- 5.1.4 Floorboard shall be made of 18mm to 21mm thick shutter ply board.
- 5.1.5 Floorboard shall be treated with CTX 108 treatment or equivalent.
- 5.1.6 Floorboard shall be covered with 2mm slip resistance, fire resistance vinyl sheeting.

5.2 Wall Panel Description

- 5.2.1 Wall shall be 40mm thick panel comprising of 0.5mm pre-painted galvanized chromadek sheets on both sides.
- 5.2.2 Chromadek shall be rigidized for extra strength.
- 5.2.3 The size of the room shall be 3000mm x 6000mm x 2400mm high.
- 5.2.4 Wall panel shall 40mm fire retardant Polystyrene or Polyurethane core material, with interlocking flush weather-proof joint.

5.3 Roof Description

- 5.3.1 Roof shall be made of 0.5mm IBR AZ150 hot dipped pre-painted 20 micron galvanized steel roof sheet.

5.4 Ceiling Description

- 5.4.1 Ceiling shall be made of 40mm Polyurethane panel with the minimum height of 2400mm from the floor.

5.5 Electrical Description

- 5.5.1 Wiring shall be in accordance to SANS 10142-1 with 20 way 220V Din Distribution boards.
- 5.5.2 Distribution boards shall have 10A switches for lights.
- 5.5.3 Distribution boards shall have 20A isolators.
- 5.5.4 Distribution boards shall have 10A to 63A Single Pole Circuit Breakers.

5.5.5 Distribution boards shall have 63A non-overload protected earth leakage.

5.5.6 Light fittings inside shall be ceiling mounted 1.2m double fluorescent light.

5.5.7 Light fittings outside shall be bulkhead IP44 PL-9 x 2.

5.5.8 Plug sockets shall be 2 x 16A 4x4 double.

5.6 Windows Description

5.6.1 Windows frame shall be made by natural anodized 25 micron aluminum frame.

5.6.2 Top hung frames shall be fitted with 4mm clear float glass in all windows.

5.6.3 Standard sizes for the windows shall be 900mm x 900mm or 600mm x 600mm depending on the design.

5.6.4 Burglar proofing shall be installed for opening windows.

5.7 Doors Description

5.7.1 Standard size of the door panel shall be 2032mm x 813mm.

5.7.2 Door panel shall be 40mm thick with 0.5mm pre-painted galvanized capping riveted to the panel.

5.7.3 Natural anodized aluminum rebated doorframe including rubber buffers and heavy-duty aluminum hinges shall be used.

5.7.4 Door shall be fitted with chrome-plated handles complete with stainless steel striker plate including external locks.

5.8 Accessories Description

5.8.1 Air conditioner

5.8.2 Extractor fan

5.8.3 Blue blinds for all windows

5.8.4 Gutters and downpipes

5.8.5 Smoke detector

5.8.6 Fire Extinguisher

5.8.7 Steps and handrails

5.9 Description

6 MARKINGS

6.1 Each modular parkhomes shall carry durable markings giving the following minimum information:

6.1.1 Name or identification of the manufacture and/or supplier.

6.1.2 Contact details of the manufacture and/or supplier.

7 SAFETY AND MAINTENANCE

The manufacture/supplier shall provide recommendation for the safe handling and maintenance of the modular parkhome.

8 TESTS

The manufacture/supplier shall provide necessary routine test for modular parkhomes to prove the strength.

9 DESIGN AND/OR FLOOR PLAN

The manufacture/supplier shall be required to submit the design and/or floor plan as per technical requirements in clause 5.

10 WARRANTY

The manufacture/supplier shall be required give a minimum warranty of 12 months for each modular parkhome from the date of installation.

11 DOCUMENTATION

Documentation shall be submitted in a catalogue format (Both physical and electronic). In addition, relevant designs, floor plans, test results and certificates confirming compliance clause 5 and 8 of this document shall be submitted.

12 DELIVERY AND INSTALLATION

The manufacture/supplier shall be required to deliver and install modular parkhome to the location identified by City Power. Costs and appointments of third party for the ground preparation shall be included in the offer

13 TRAINING

Training is not necessary and shall not be required.

14 QUALITY MANAGEMENT

A quality management plan shall be set up in order to assure the proper quality management of the modular parkhomes during design, development, production, installation and servicing phases. Guidance on the requirements for a quality management plan may be found in the ISO 9001:2015. The details shall be subject to agreement between City Power and the Supplier.

15 HEALTH AND SAFETY

A health and safety plan shall be set up in order to ensure proper management and compliance of the modular parkhomes during installation, operation, maintenance, and decommissioning phases. Guidance on the requirements of a health and safety plan may be found in OHSAS 18001:2007 standards. This is to ensure that the asset conforms to standard operating procedures and City Power SHERQ Policy. The details shall be subject to agreement between City Power and the Supplier.

16 ENVIRONMENTAL MANAGEMENT

An environmental management plan shall be set up in order to assure the proper environmental management of the modular parkhomes throughout its entire life cycle (i.e. during design, development, production, installation, operation and maintenance, decommissioning and disposal phases). Guidance on the requirements for an environmental management system may be found in ISO 14001:2015 standards. The details shall be subject to agreement between City Power and the Supplier. This is to ensure that the asset created conforms to environmental standards and City Power SHERQ Policy.

Annexure A - Bibliography

NA

Annexure B - Revision information

DATE	REV. NO.	NOTES
June 2020	0	First issue
September 2021	1	Second issue
		Changed clause 5.2.4 to increase the size

**Annexure C - Technical Schedules A and B
for
Modular Parkhomes**

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub-clause	Description		Schedule A	Schedule B
1		Name of manufacturer		XXXX	
2		Place of manufacturer		XXXX	
3		Manufacturer's identification reference		XXXX	
5	4	Service conditions	Yes/No	Yes	
		Indoors	Yes/No	Yes	
		Pollution Level : Very Heavy	Yes/No	Yes	
		Maximum temperature : 50 °C	Yes/No	Yes	
		Minimum temperature : -10 °C	Yes/No	Yes	
		Relative humidity : ±90%	Yes/No	Yes	
		Altitude : 1800 m (Above Sea Level)	Yes/No	Yes	
6	5	Modular Parkhomes comply with clause 5	Yes/No	Yes	
7	6	Markings	Yes/No	Yes	
8	7	Safety and maintenance	Yes/No	Yes	
9	8	Tests	Yes/No	Yes	
10	9	Design and floor plan	Yes/No	Yes	
11	10	Warranty	Yes/No	Yes	
12	11	Documentation	Yes/No	Yes	
13	13	Delivery and installation	Yes/No	No	
14	13	Training required	Yes/No	No	
15	14	ISO 9001 accreditation	Yes/No	Yes	
16	15	OHSAS 18001 accreditation	Yes/No	No	
17	16	ISO 14001 accreditation	Yes/No	No	

NOTE: TICKS [✓✗], ASTERISK [*], WORD [NOTED], OR TBA [TO BE ADVISED] WILL NOT BE ACCEPTED.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Technical schedule A and B for Modular Parkhomes

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub-clause	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annexure D - Stock Items

It is not intended that City Power should keep stock of these items.