RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

Inspection Report Date: 03 November 2022

RMS EPC Inspector: Ewald Taljaard

Certification Name: Uni	,	0_					
Client Information			Building Lo	cation			
	iversity of Johan	nachura	Building Lo		1. 22 Annat Pd	. Cottesloe, Joha	annachura
Company Name: Unit		nesburg		Address	1: 23 Annet Ku,	. Cottesioe, Joni	ınnesburg
Building Name: APB	3 ConCowan						
				Cit	y: Johannesbui	rg	
				Provinc	e: Gauteng		
Client Representative			Building Inf	ormation (from	SANS 10400-	XA:2021)	
Name: Mas	sala Mbambelel	i		Energy Zon	e:	1	
Contact Number: (078	8) 667 1760			Occupancy Clas	s:	A3	
E-mail Address: mm	nasala@ui.ac.za		Reference	Energy Consumptio	n:	110	
			-		m SANS1040		
Building Assessment Planning				1101	II 3AN31040	U-XA . 2021	
Handha lannadan idandifi adaha manan				name of the person the site inspection:	who represente	d the property	
Has the Inspector identified the person who will assist the Inspector during the		Yes	Masala Mbami	heleli			_
assessment?		163	asa.a modili				
				nto of the Incress!		2022/10/00	
Has the Inspector phoned the inspection			D	ate of the Inspectio		2022/10/06	
assistant to inspection arrangements?		Yes		Start Tim		9:00 am	
			-	Duratio	n:	30 minutes	
Did the Inspector share the Building							
Assessment Method Statement with the		Yes					
Building Representative?		103					
Has the Inspector confirmed the site		No					
		No					
Has the Inspector confirmed the site Health & Safety arrangements?							
Has the Inspector confirmed the site Health & Safety arrangements? Details on when and how Building Assessment	Method Statemer			etails on Health and	Safety considera	ntions	
Has the Inspector confirmed the site Health & Safety arrangements? Details on when and how Building Assessment	Method Stateme			etails on Health and onsiderations apply	Safety considera	ntions	
Has the Inspector confirmed the site Health & Safety arrangements? Details on when and how Building Assessment	Method Statemer				Safety considera	itions	
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Report Date	03 November 2022
RMS EPC Inspector:	Ewald Taljaard

S	Bulk check meter data				
Consumption Source Data	Bulk check meter data		_		
	Validations Checks		Results		
	Confirm meter location with reticulation diagram	Yes		Consumption Unit of Measure	kWł
	Confirm meter existence and purpose with building rep	Yes		Annual Consumption Value	135 746
	Compare Serial numbers (data file vs reticulation)	Yes		kWh per Annum	135 746
	Check that data time-period is for Year of Assessment	Yes			
	Check data completeness (identify estimates)	Yes			
	Compare data with another data source	Yes			
	Visually inspect meter on site	Yes			
	Compare meter serial number (on meter) with other S/N				
sensitivity analsyis was done to check thuildings connected to one metering poir					
sensitivity analsyis was done to check the uildings connected to one metering poir	ods used he impact of deviating the figure by 10% on the building EPC	grade. This was found to			
sensitivity analsyis was done to check t uildings connected to one metering poir PC grade.	ods used he impact of deviating the figure by 10% on the building EPC nt, a pro-rata based on NFA had to be used. A fairly large dev	grade. This was found to			
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Certification Name:	University of Johannesburg_APB ConCowan			
Energy Carrier: Solar PV Supplie	d Electricity			
Consumption Source Data	Energy source not in building			
Validations Checks		Results		
	Confirm meter location with reticulation diagram		Consumption Unit of Measure	kWh
Confir	rm meter existence and purpose with building representative		Annual Consumption Value (Raw)	0
	Compare Serial numbers (data file vs reticulation)		kWh per Annum	0
	Check that data time-period is for Year of Assessment			
	Check data completeness (identify estimates)			
	Compare data with another data source			
	Visually inspect meter on site			
	Compare meter serial number (on meter) with other S/N			
Inspector comments from site asser No diesel genset	ssment			
List any further actions that may be No further action required	e needed:			

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Certification Name:	University of Johannesburg_APB ConCowar	1		
Energy Carrier: Diesel Fuel				
			-	
Consumption Source Data	Another source		_	
	Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	No	Consumption Unit of Measure	kWh
	Confirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Value (Raw)	5 656
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	218
	Confirm diesel refilling rules	Yes	kWh per Annum	5 656
Describe any other validation me	thods used			
Inspector comments from site ass				
Diesel gens were found on site. An	assumption was made that the diesel energy footp	rint accounts for 4% of th	ne total energy footprint.	
List any further actions that may	pe needed:			
No further action required				

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Report Date	03 November 2022
RMS EPC Inspector:	Ewald Taljaard

Certification Name:	University of Johannesburg_APB ConCowan		
Energy Carrier: Gas			
Consumption Source Data	Energy source not in building		
Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kWH
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Inspect gas consuming equipment	MJ/ per unit of measure	46.1
	Inspect gas storage facilities	GJ per annum	0
	Confirm gas refilling rules	kWh per Annum	0
Describe any other validation metho	ods used		
Inspector comments from site asses	sment		
inspector comments from site assess	Sinch		
List any further actions that may be	needed:		
	needed:		
	needed:		
	needed:		
List any further actions that may be No further action required	needed:		
	needed:		
	needed:		

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Inspect generator or other diesel consuming equipment MJ/per unit of measure 0.0 Inspect storage facilities GJ per annum		University of Johannesburg_APB ConCowan		
Confirm invoices/delivery notes are for this building location Consumption Unit of Measure Kg Confirm invoices/delivery notes are for the Year of Assessment Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Results Consumption Unit of Measure Kg Annual Consumption Value (Raw) Consump	nergy Carrier: Solid Fuel			
Alidations Checks Confirm invoices/delivery notes are for this building location Consumption Unit of Measure Kg Confirm invoices/delivery notes are for the Year of Assessment Inspect generator or other diesel consuming equipment Inspect storage facilities Confirm refilling rules Confirm refilling rules Results Consumption Unit of Measure Kg Annual Consumption Value (Raw) Confirm refilling rules G J per annum C Why per Annum C Sescribe any other validation methods used				
Confirm invoices/delivery notes are for this building location Consumption Unit of Measure KG Confirm invoices/delivery notes are for the Year of Assessment Inspect generator or other diesel consuming equipment Inspect generator or other diesel consuming equipment Confirm refilling rules Confirm refilling rules Describe any other validation methods used Consumption Unit of Measure KG Annual Consumption Value (Raw) (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measu	Consumption Source Data	Energy source not in building		
Confirm invoices/delivery notes are for this building location Consumption Unit of Measure KG Confirm invoices/delivery notes are for the Year of Assessment Inspect generator or other diesel consuming equipment Inspect generator or other diesel consuming equipment Confirm refilling rules Confirm refilling rules Describe any other validation methods used Consumption Unit of Measure KG Annual Consumption Value (Raw) (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measure (Inspect generator or other diesel consuming equipment MI/ per unit of measu				
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Inspect storage facilities Confirm refilling rules Describe any other validation methods used ()				0
Confirm refilling rules Describe any other validation methods used				
Describe any other validation methods used				0
		Confirm refilling rules	kWh per Annum	0
nspector comments from site assessment	Describe any other validation metho	ods used		
ist any further actions that may be needed:				
	inspector comments from site asses	sment		
No further action required	Inspector comments from site asses	sment		

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Certification Name:	University of Johannesburg_APB ConCowan		
Energy Carrier: Export Energy			
Consumption Source Data	Energy source not in building		
Validations Checks		Results	
	Confirm invoices/delivery notes are for this building location	Consumption Unit of Measure	kg
	Confirm invoices/delivery notes are for the Year of Assessment	Annual Consumption Value (Raw)	0
	Check whether readings are actual and not estimates	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Check data against another source	kWh per Annum	0
Describe any other validation method	ds used		
Inspector comments from site assessi	ment		
moperator comments from one assessed			
List any further actions that may be n	eeded:		
No further action required			
·			

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Certification Name: University of Johannesburg_APB ConCow	van j	
Exclusions		
Store Rooms	Garages/Basement Parking	
Not applicable	Yes, the floor plan shows all the parking areas	
Outside Areas	Net Floor Area Report Findings	
No. The floor plan does not show all the outside areas	Construction Area:	3 2
	Store Rooms Total	
	Outside Areas Total	
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	
	Net Floor Area	3 2
	Excluded Area %	

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Yea
pole lights	5	50	84	21 000	-	1 092
lights	2	150	84	25 200	-	1 310
flood lights	1	400	84	33 600	-	1 747
-					-	-
					-	-
					-	-
					-	-
					-	-
					-	-
					-	-
					-	-
			Excluded Areas Total	kWh per Year		4 150
			Excluded Area Energy	as % of Total		3%

Excluded Energy is less than 10% of total building energy consumption and does not have to be shown on the certificate



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Certification Name:

University of Johannesburg_APB ConCowan

Building Details

Building Name	APB ConCowan
Energy Zone	1
Reference Energy Consumption (kWh/m2.annum)	110
Year of Assessment Start	01 January 2021
Year of Assessment End	31 December 2021
Occupancy Class	A3
Occupancy Rate	100%

Energy Carriers

Total Energy Consumption (kWh)	141 402
Grid Electricity (kWh):	135 746
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	5 656
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	42	
Energy per Adjusted Net Floor Area (kWh/m2.annum):	42	

Building Performance

Building Performance Scale (from SANS 1544)
Rating A: energy performance < 0.3Ereference
Rating B: 0.3Ereference <= energy performance < 0.6Ereference
Rating C: 0.6Ereference <= energy performance < 0.9Ereference
Rating D: 0.9Ereference <= energy performance < 1.1Ereference
Rating E: 1.1Ereference <= energy performance < 1.4Ereference
Rating F: 1.4Ereference <= energy performance < 1.7Ereference

Additional Information

Rating G: energy performance >= 1.7Ereference

Additional Information		
	No of floors (excl parking):	3
	Year of Construction: >2 years	
	Year of Renovation: Within the	past 2
	Date of Approved Plans: >2 years	
	Cadastral (Erf no) Info:	

Signature: Inspector

Inspection Report Date: 03 November 2022

Certification Name: University of Johannesburg_APB ConCowan

Net Floor Area

Total Net Floor Area	3 256
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

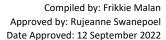
Total Excluded Area Energy Consumption (kWh)	4 150				
Net Energy = Total Energy - Exclusions = 141 402 - 4 150					
Equals (kWh)	137 252				
Excluded Area Energy as % of Total	3%				

Building EPC Calculcation

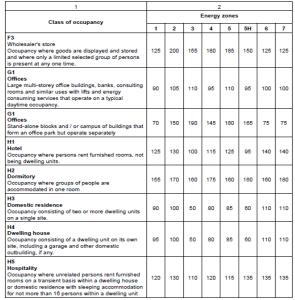
Reference Energy (kWh/m2.annum):	110	
(from SANS 10400-XA:2021)		
Variance = 42 - 110		
Equals (kWh/m2.annum):	-68	
Actual/Reference Energy = 42 / 110		
Equals:	0.38	
Provisional Building Rating:	В	

Signature: Client









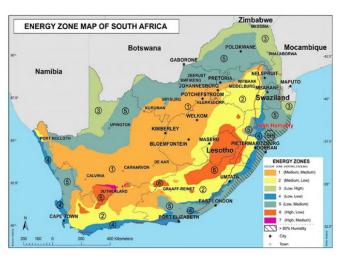


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1	2							
Class of occupancy		Energy zones						
Class of occupancy	1	2	3	4	5	5H	6	7
A1 Entertainment and public assembly Occupancy where persons gather to eat, drink, dance or participate in other recreation.	75	75	95	70	95	95	80	80
A2 Theatrical and indoor sport Occupancy where persons gather for the viewing of theatrical, operatic, orchestral, choral, cinematographical or sport performances.	95	95	110	90	110	110	105	105
A3 Places of instruction Occupancy other than primary or secondary schools, where students or other persons assemble for the purpose of tuition or learning.	110	155	110	125	140	140	120	120
A3 Places of instruction Occupancy where school children assemble for the purpose of tuition or learning	60	65	55	60	55	60	65	65
A4 Worship Occupancy where persons assemble for the purpose of worshipping.	70	45	45	40	50	40	70	70
E2 Hospital Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden.	325	335	225	295	295	230	345	345
E3 Other institutional (residential) Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for	120	95	90	90	100	80	130	130
F1 Large shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m².	125	200	155	180	185	150	125	125
F2 Small shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m².	75	150	100	125	130	95	80	80