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

Certification Name: Uni							
Client Information			Building Loc	cation			
Company Name: Unin	versity of Johani	nesburg			L: 23 Annet Rd,	Cottesloe, Joha	nnesburg
Building Name: APB		-					
	,			Cit	; : Johannesbur	g	
					e: Gauteng		
Client Representative			Building Inf	ormation (from	SANS 10400-	KA:2021)	
	ala Mbambelel	i		Energy Zon	2:	1	
Contact Number: (078	3) 667 1760			Occupancy Clas	s:	A3	
E-mail Address: mm	asala@uj.ac.za		Reference	Energy Consumption	1:	110	
Building Assessment Planning				*fr	om SANS10400)-XA : 2021	
				name of the person the site inspection:	who represented	d the property	
Has the Inspector identified the person who will assist the Inspector during the		Yes	Masala Mbamb				-
assessment?		103	asa.a moulli				
			n:	ate of the Inspection	1:	2022/10/06	
Has the Inspector phoned the inspection		Yes	D.	Start Time		9:00 am	
assistant to inspection arrangements?		163		Duratio		30 minutes	
				24.410.	**	30	
Did the Inspector share the Building		Yes					
Assessment Method Statement with the Building Representative?		res					
Handha hannastan andimusad the site							
Has the Inspector confirmed the site Health & Safety arrangements?		No					
Has the Inspector confirmed the site Health & Safety arrangements?		No					
Health & Safety arrangements?	Method Stateme		De	tails on Health and	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment I	Method Stateme			etails on Health and	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment I	Method Stateme				Safety considera	tions	
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Health & Safety arrangements? Details on when and how Building Assessment I shared by Nikhil Naidoo to the client rep			General H&S co	onsiderations apply	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment I Shared by Nikhil Naidoo to the client rep Confirmation by Building Representati		nt was shared	General H&S co	erations	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment I Shared by Nikhil Naidoo to the client rep Confirmation by Building Representation of the Assessment Start		2021/01/01	Building Op	erations ssessment:			
Health & Safety arrangements? Details on when and how Building Assessment I Shared by Nikhil Naidoo to the client rep Confirmation by Building Representation of the Assessment Start		nt was shared	Building Op During the Year of A	erations ssessment: or Multiple Tenant:	52	Single	
Health & Safety arrangements? Details on when and how Building Assessment I hared by Nikhil Naidoo to the client rep Confirmation by Building Representative of Assessment Start		2021/01/01	Building Op During the Year of A	erations ssessment:	52		
Health & Safety arrangements? Details on when and how Building Assessment I hared by Nikhil Naidoo to the client rep Confirmation by Building Representation of Assessment Start		2021/01/01	Building Op During the Year of A Single Confirm Bu	erations sssessment: or Multiple Tenant: illding Occupancy (9	52	Single	
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Health & Safety arrangements? Details on when and how Building Assessment I inhared by Nikhil Naidoo to the client rep Confirmation by Building Representation of Assessment Start Vear of Assessment End Energy Carriers		2021/01/01	Building Op During the Year of A Single Confirm Bu	erations sssessment: or Multiple Tenant: uilding Occupancy (9	52	Single	hours/week
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Health & Safety arrangements? Details on when and how Building Assessment I Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative of Assessment Start (Year of Assessment Start (Year of Assessment End Energy Carriers Did the building use grid supp Did the building use grid supp Did the building use any solid for Was energy exported from Was energy exported from Net Floor Area (are these on the plans) Building layout during the year of Assessment Shart (Inc.)	ied electricity? PV electricity? PV electricity? use diesel fuel? iliding use gas? uel for energy? In the building? ?) of assessment Store rooms? dd basements?	2021/01/01 2021/12/31 Yes No Yes No No No Yes	Building Op During the Year of A Single Confirm Bu Building Op Start Mon to Thurs Fridays Saturdays Sundays Any further	erations sssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00 00:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 88% hours/day 11 11 0 Total	44 11 0 0
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Report Date

RECORD Inspection Report

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ification Name:	University of Johannesburg_APB Library				
rgy Carrier: Grid Supplied Ele	ctricity				
igy carrier. Ond Supplied Lie	stricty				
sumption Source Data	Bulk check meter data		Ī		
·			-		
	Validations Checks		Results		
	Confirm meter location with reticulation diagram	Yes		Consumption Unit of Measure	kWh
	Confirm meter existence and purpose with building rep	Yes		Annual Consumption Value	546 081
	Compare Serial numbers (data file vs reticulation)	Yes		kWh per Annum	546 081
	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	Yes			
pector comments from site assess	:ment				
pector comments from site assess	:ment				
pector comments from site assess	sment				
spector comments from site assess	sment				
spector comments from site assess	sment				
spector comments from site assess	sment				
spector comments from site assess	sment				
t any further actions that may be					
it any further actions that may be					
t any further actions that may be					
spector comments from site assess st any further actions that may be further action required					

03 November 2022

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

Certification Name:	University of Johannesburg_APB Library			
Energy Carrier: Solar PV Supplie	ed Electricity			
Consumption Source Date	Energy source not in building			
Consumption Source Data	Energy source not in banding			
Validations Checks		Results		
	Confirm meter location with reticulation diagram		Consumption Unit of Measure	kWh
Conf	irm 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 asso No diesel genset	essment			
List any further actions that may b No further action required	e needed:			

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Certification Name:	University of Johannesburg_APB Library			
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)	22 753
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	878
	Confirm diesel refilling rules	Yes	kWh per Annum	22 753
Inspector comments from site as An assumption was made that the	sessment e diesel energy footprint accounts for 4% of the tota	al energy footprint.		
List any further actions that may No further action required	be needed:			
no raraner action required				

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

Certification Name:	University of Johannesburg_APB Library		
Energy Carrier: Gas			
Consumption Source Data	Energy source not in building	_	
onsumption source Data	Energy source not in building	_	
/alidations 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
nspector comments from site ass	essment		
List any further actions that may be	pe needed:		
No further action required			

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Certification Name:	University of Johannesburg_APB Library		
energy Carrier: Solid Fuel			
nergy carrier. Sond ruer			
Consumption Source Data	Energy source not in building		
	0,	_	
alidations 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
	Inspect generator or other diesel consuming equipment	MJ/ per unit of measure	0.0
	Inspect storage facilities	GJ per annum	0
	Confirm refilling rules	kWh per Annum	0
escribe any other validation method	e used		
nspector comments from site assessn	nent		
•			
ist any further actions that may be no	eeded:		
lo further action required			

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Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Energy Carrier: Export Energy Consumption Source Data Energy Source not in building Validations Checks Confirm involves/delivery notes are for the test of Assessment Confirm involves/delivery notes are for the test of Assessment Confirm involves/delivery notes are for the test of Assessment Confirm involves/delivery notes are for the test of Assessment Check shelter resilies and one continue Inspect durage facilities Circles data against another source Check data against another source Describe any other validation methods used List any further actions that may be needed: List any further action required	Certification Name:	University of Johannesburg_APB Library		
Validations Checks Confirm invoices/delivery notes are for this building location Confirm invoices/delivery notes are for the Year of Assessment Annual Consumption Value (Raw) Oncheck whether readings are actual and not estimates (A) per unit of measure (A) per uni	Energy Carrier: Export Energy			
Validations Checks Confirm involces/delivery notes are for this building location Confirm involces/delivery notes are for the building location Confirm involces/delivery notes are for the Year of Assessment Annual Consumption Value (Plany) Other whether readings are actual and not estimates Impact storage facilities Gu per annum Other data against another source NWh per wint of measure Other data against another source Inspector comments from site assessment List any further actions that may be needed:				
Confirm invoices/delivery notes are for this building location Consumption Unit of Measure kg Confirm invoices/delivery notes are for the Year of Assessment Check whether readings are actual and not estimates Inspect storage facilities Ciper annum Check data against another source List any further actions that may be needed:	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 Check whether readings are actual and not estimates Inspect storage facilities Ciper annum Check data against another source List any further actions that may be needed:				
Confirm invoices/delivery notes are for this building location Consumption Unit of Measure kg Confirm invoices/delivery notes are for the Year of Assessment Check whether readings are actual and not estimates Inspect storage facilities Ciper annum Check data against another source List any further actions that may be needed:	Validations Chacks		Roculte	
Confirm Involves/delivery notes are for the Year of Assessment Check whether readings are actual and not estimates Inspect storage facilities Ciper annum Check data against another source NWh per Annum Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:	Validations Checks	Confirm invoices/delivery notes are for this building location		ka
Check whether readings are actual and not estimates Inspect storage facilities Ci per annum O Check data against another source NWh per Annum O Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:				
Inspect storage facilities Check data against another source MWh per Annum O Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Check whether readings are actual and not estimates		
Describe any other validation methods used Inspector comments from site assessment List any further actions that may be needed:		Inspect storage facilities	GJ per annum	
Inspector comments from site assessment List any further actions that may be needed:		Check data against another source	kWh per Annum	0
Inspector comments from site assessment List any further actions that may be needed:				
List any further actions that may be needed:	Describe any other validation method	ds used		
List any further actions that may be needed:				
List any further actions that may be needed:				
List any further actions that may be needed:				
List any further actions that may be needed:				
List any further actions that may be needed:				
List any further actions that may be needed:				
	Inspector comments from site assess	ment		
No further action required		needed:		
	No further action required			

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Report Date 03 November 2022
RMS EPC Inspector: Lee Ferreira

Certification Name: University of Johannesburg_APB	Library	
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:	8 121
	Store Rooms Total	0
	Outside Areas Total	0
	Parking Area Total	0
	Vertical Elements	0
	Excluded Areas Total	0
	Net Floor Area	8 121
	Excluded Area %	0.0%
Exclusion Comments	<u></u>	
No further action required		

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Ye
			84			-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
						-
	<u> </u>	ı	Excluded Areas Total	kWh per Year		
			Excluded Area Energy			0

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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Report Date 03 November 2022
RMS EPC Inspector: Lee Ferreira

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rtification Name: University of Johannesburg_APB Library	Certification Name:
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Building Details

Building Name	APB Library
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	88%

Energy Carriers

Total Energy Consumption (kWh)	568 834
Grid Electricity (kWh):	546 081
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	22 753
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	70
Energy per Adjusted Net Floor Area (kWh/m2.annum):	80

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):	2
	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 Library

Net Floor Area

Total Net Floor Area	8 121
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

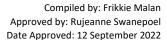
zwiadca / ii ca zwieß / companipation				
Total Excluded Area Energy Consumption (kWh)	0			
Net Energy = Total Energy - Exclusions = 568 834 - 0				
Equals (kWh)	568 834			
Excluded Area Energy as % of Total	0%			

Building EPC Calculcation

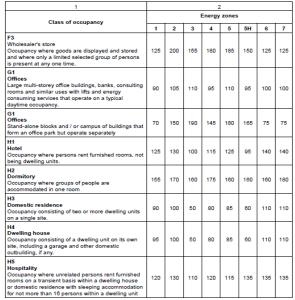
Reference Energy (kWh/m2.annum):	110
(from SANS 10400-XA:2021)	
Variance = 80 - 110	
Equals (kWh/m2.annum):	-30
Actual/Reference Energy = 80 / 110	
Equals:	0.73
Provisional Building Rating:	С

Signature: Client









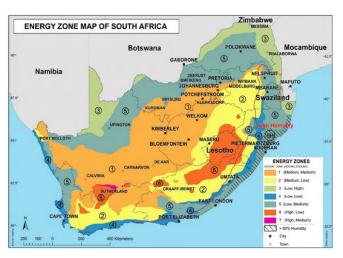


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1	2							
Class of annuary	Energy zones							
Class of occupancy		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