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

Certification Name: Univ	<u> </u>							
Client Information				Building	Location			
Company Name: Univ	ersity of Johani	nesburg	<u> </u>			23 Annet Rd,	Cottesloe, Johan	nnesburg
Building Name: DFC								
			_		City:	Johannesbur	g	
					Province:	Gauteng		
				-				
Client Representative			<u></u>	Building	Information (from S	ANS 10400->	(A:2021)	
Name: Mas	ala Mbambelel	li			Energy Zone:		1	
Contact Number: (078	3) 667 1760				Occupancy Class:		A3	
E-mail Address: mm	asala@uj.ac.za			Referer	nce Energy Consumption:		110	
			<u> </u>		*fro	m SANS10400	-XA : 2021	
Building Assessment Planning								
Headha lannadan idanbifindaha annan			<u> </u>		Surname of the person wing the site inspection:	rho represented	d the property	
Has the Inspector identified the person who will assist the Inspector during the assessment?		Yes		Masala Mb	ambeleli			
					Date of the Inspection:		2022/10/06	
Has the Inspector phoned the inspection		Yes			Start Time:		9:00 am	
assistant to inspection arrangements?		163			Duration:		30 minutes	
			<del>_</del>	-	Duración.		30 111111111111	
Did the Inspector share the Building Assessment Method Statement with the		Yes						
Building Representative?		163						
			<del>_</del>					
Has the Inspector confirmed the site		No						
Has the Inspector confirmed the site Health & Safety arrangements?		No						
Health & Safety arrangements?	Mathod Statemen				Datails on Health and S	ofaty considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment N	Method Statemer			General H8	Details on Health and Sa	afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment N	Method Statemer			General H8	Details on Health and SakS considerations apply	afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment N	Method Statemer			General H8		afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment N	Method Statemer			General H8		afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment Note that the hared by Nikhil Naidoo to the client rep					&S considerations apply	afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment North in the client reposition of the client reposition. The confirmation by Building Representation by Building Representation.		nt was shared		Building	S considerations apply Operations	afety considera	tions	
Health & Safety arrangements?  Details on when and how Building Assessment No hared by Nikhil Naidoo to the client rep  Confirmation by Building Representati		nt was shared  2021/01/01		<b>Building</b> During the Yea	Operations  of Assessment:			
Health & Safety arrangements?  Details on when and how Building Assessment Nothered by Nikhil Naidoo to the client rep  Confirmation by Building Representative of Assessment Start		nt was shared		Building During the Yea	Operations  Operations  of Assessment:  ngle or Multiple Tenants?		tions Single	
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Health & Safety arrangements?  The safety ar		nt was shared  2021/01/01		Building During the Yea Sir Confirm	Operations  Operations  of Assessment:  ngle or Multiple Tenants?		Single	
Health & Safety arrangements?  Petails on when and how Building Assessment Mared by Nikhil Naidoo to the client rep  Confirmation by Building Representative ar of Assessment Start ear of Assessment End  Energy Carriers		nt was shared  2021/01/01		Building During the Yea Sir Confirm	Operations  r of Assessment: ngle or Multiple Tenants? n Building Occupancy (%)		Single 100%	hours/week
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Health & Safety arrangements?  Petails on when and how Building Assessment Mared by Nikhil Naidoo to the client rep  Confirmation by Building Representative ar of Assessment Start ear of Assessment End  Energy Carriers  Unity the Year of Assessment:  Did the building use grid supplication of the building use grid supplication of the building use solar Did the Building u	Ve: ied electricity? PV electricity?	2021/01/01 2021/12/31 Yes No		Building  During the Yea  Sir  Confirm  Building  Mon to Thurs  Fridays	Operations r of Assessment: ngle or Multiple Tenants? n Building Occupancy (%) Operating Hours Start 07:00:00 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11	44 11
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Health & Safety arrangements?  Details on when and how Building Assessment M Shared by Nikhil Naidoo to the client rep  Confirmation by Building Representative Year of Assessment Start Year of Assessment Start Year of Assessment End  Energy Carriers  Did the building use grid supplication of the building use solar of the building use solar of the building use any solid further was energy exported from the Suilding Isopout during the year of the Suilding Isopout during Isopout during the Year of the Suilding Isopout during Isopout during Isopout during Isopout during Isopout during Isopout during Iso	ve:  ied electricity?  PV electricity?  see diesel fuel?  iliding use gas?  uel for energy?  the building?  ?  of assessment  Store rooms?	2021/01/01 2021/12/31  Yes No Yes No No No Yes Yes Yes		Building During the Yea Sir Confirm Building Mon to Thurs Fridays Saturdays Sundays	Operations Operations  of Assessment:  ngle or Multiple Tenants? In Building Occupancy (%) Operating Hours Start  07:00:00  00:00:00  00:00:00	End 18:00:00 18:00:00 00:00:00 00:00:00	Single 100%  hours/day  11  11  0  Total	44 11 0 0

# RECORD Inspection Report

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

Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Consumption Source Data	Bulk check meter data		Ī	
consumption source Data			_	
	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	37 109
	Compare Serial numbers (data file vs reticulation)	Yes	kWh per Annun	37 109
	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 nethods used eck the impact of deviating the figure by 5% on the building EPC g	Yes rade. This was found to h	nave no impact on the EPC grade.	
	ethods used		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
s sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
Describe any other validation m A sensitivity analsyis was done to ch Inspector comments from site a	nethods used eck the impact of deviating the figure by 5% on the building EPC g		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g  ssessment		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch nspector comments from site a	nethods used eck the impact of deviating the figure by 5% on the building EPC g  ssessment		nave no impact on the EPC grade.	
sensitivity analsyis was done to ch	nethods used eck the impact of deviating the figure by 5% on the building EPC g  ssessment		nave no impact on the EPC grade.	

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

Certification Name:	University of Johannesburg_DFC Buxton Str Building		
Energy Carrier: Solar PV Supp	lied Electricity		
Consumption Source Data	Energy source not in building		
/alidations Checks		Results	
	Confirm meter location with reticulation diagram	Consumption Unit of Measure	kWh
C	onfirm meter existence and purpose with building representative	Annual Consumption Value (Raw)	C
	Compare Serial numbers (data file vs reticulation)	kWh per Annum	C
	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		
nspector comments from site a:	ssessment		
No diesel genset			
List any further actions that may	be needed:		
No further action required			

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

Certification Name:	University of Johannesburg_DFC Buxton St	r Building		
Energy Carrier: Diesel Fuel				
Consumption Source Data	Another source			
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)	1 546
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	60
	Confirm diesel refilling rules	Yes	kWh per Annum	1 546
Inspector comments from site as	sessment			
An assumption was made that the	diesel energy footprint accounts for 4% of the tota	l energy footprint.		
List any further actions that may No further action required	be needed:			

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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 methods used		
Inspector comments from site assessment		
inspector comments from site assessment		
List any further actions that may be needed:		
No further action required		

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Energy Carrier: Solid Fuel			
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
	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 metho	ds used		
nspector comments from site assess	iment		
Inspector comments from site assess	iment		
Inspector comments from site assess List any further actions that may be a	iment		

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

Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Certification Name:	University of Johannesburg_DFC Buxton Str Building		
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 methods	sused		
Inspector comments from site assessm	nent		
List any further actions that may be ne	eded:		
No further action required			

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

Report Date 03 November 2022

RMS EPC Inspector: Lee Ferreira

Certification Name:	University of Johannesburg_DFC Buxton S	Str Building		
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:	3 209
			Store Rooms Total	0
			Outside Areas Total	0
			Parking Area Total	0
			Vertical Elements	0
			Excluded Areas Total	0
			Net Floor Area	3 209
			Excluded Area %	0.0%
Exclusion Comments				
No further action required				

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/	Yea
			84			-	-
						-	-
						-	
						-	
						-	_
						-	
						-	
						-	
						-	
						-	
						-	
						-	
			Excluded Areas Total	kWh per Year			
			Excluded Area Energy	as % of Total			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

# **Certification Name:**

# University of Johannesburg\_DFC Buxton Str Building

# **Building Details**

Building Name	DFC Buxton Str Building
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)	38 655
Grid Electricity (kWh):	37 109
Solar PV Electricity (kWh):	0
Diesel Fuel (kWh):	1 546
Gas (kWh):	0
Solid Fuel (kWh):	0
Export Energy (kWh):	0

# **Building Energy Performance**

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	12
Energy per Adjusted Net Floor Area (kWh/m2.annum):	12

#### **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

No of floors (excl parking):	5
Year of Construction: >2 years	
Year of Renovation: Within th	e past 2
Date of Approved Plans: >2 years	
Cadastral (Erf no) Info:	
	Year of Construction: >2 years Year of Renovation: Within th Date of Approved Plans: >2 years

Signature: Inspector

Inspection Report Date: 03 November 2022

 $\textbf{\textit{Certification Name:}} \ \ \textit{University of Johannesburg\_DFC Buxton Str Building}$ 

### Net Floor Area

Total Net Floor Area	3 209
Excluded Area	0
Excluded Area % of Total	0%

#### **Excluded Area Energy Consumption**

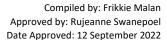
zwiaca wie zweig demonstration				
Total Excluded Area Energy Consumption (kWh)	0			
Net Energy = Total Energy - Exclusions = 38 655 - 0				
Equals (kWh)	38 655			
Excluded Area Energy as % of Total	0%			

# **Building EPC Calculcation**

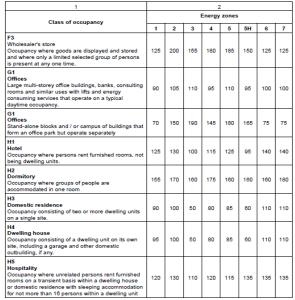
-98	
0.11	
Α	
	0.11

Signature: Client









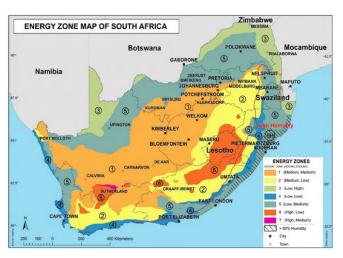


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

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