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

Certification Name: University of	Johannesburg_DFC PurchAnd Store	S				
Client Information		Building Lo	ocation			
Company Name: University of Jo	phannesburg			: 23 Annet Rd,	Cottesloe, Joha	nnesburg
Building Name: DFC PurchAnd						
-			City	: Johannesbur	·g	
				: Gauteng		
Client Representative		Building Ir	nformation (from S		XA:2021)	
Name: Masala Mbam			Energy Zone	:	1	
Contact Number: (078) 667 1760)		Occupancy Class	:	F1	
E-mail Address: mmasala@uj.o	ac.za	Referenc	e Energy Consumption	:	125	
Building Assessment Planning			*fro	om SANS10400)-XA : 2021	
Has the Inspector identified the person			urname of the person of the site inspection:	who represente	d the property	
who will assist the Inspector during the assessment?	Yes	Masala Mbar	mbeleli			-
	<u> </u>		Date of the Inspection	:	2022/10/06	
Has the Inspector phoned the inspection	Yes		Start Time		9:00 am	
assistant to inspection arrangements?	103		Duration		30 minutes	
Did the Inspector share the Building Assessment Method Statement with the Building Representative?	Yes					
Has the Inspector confirmed the site Health & Safety arrangements?	No					
Details on when and how Building Assessment Method Stat	tement was shared		Details on Health and S	Safety considera	tions	
Shared by Nikhil Naidoo to the client rep		General H&S	considerations apply			
Confirmation by Building Representative:		Building O	perations			
'ear of Assessment Start	2021/01/01	During the Year o	f Assessment:			
ear of Assessment End	2021/12/31	Sing	le or Multiple Tenants	?	Single	
		Confirm	Building Occupancy (%)	100%	
nergy Carriers		Building O	perating Hours			
uring the Year of Assessment:		_	art	End	hours/day	hours/week
Did the building use grid supplied electricity?	Yes	Mon to Thurs	07:00:00	18:00:00	11	44
Did the building use solar PV electricity?	No	Fridays	07:00:00	18:00:00	11	11
Did the building use diesel fuel?	Yes	Saturdays	00:00:00	00:00:00	0	0
Did the building use gas?	No	Sundays	00:00:00	00:00:00	0	0
Did the building use any solid fuel for energy?	No	·-			Total	55
Was energy exported from the building?	No					
let Floor Area (are these on the plans?)		Any furthe	er actions regardin	g floor plans	?	
Building layout during the year of assessment	Yes		ction required	<u> </u>		
Store rooms?	Yes					
Parking areas and basements?	No					
Outside areas?	No					
Subside aleas:	INO					
Vertical building elements?	Yes					

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Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

Consumption Course Data	Bulk check meter data		-	
onsumption Source Data	bulk theth meter 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	20 258
	Compare Serial numbers (data file vs reticulation)	Yes	kWh per Annum	20 258
	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		
		163		
	Compare meter serial number (on meter) with other S/N ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
	ods used	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
Describe any other validation methors sensitivity analsyis was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to check to the sensitivity analsy is was done to the sensitivity analysis was done to the sensitivity and the sensitivity and the sensitivity analysis was done to the sensitivity and the sensitivity and the sensitivity and the sensi	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	
sensitivity analsyis was done to check t	ods used he impact of deviating the figure by 2% on the building EPC g	Yes	have no impact on the EPC grade.	

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Certification Name:	University of Johannesburg_DFC PurchAnd Stores		
Energy Carrier: Solar PV Supp	olied Electricity		
Consumption Source Data	Energy source not in building		
/alidations Checks		Results	
	Confirm meter location with reticulation diagram	Consumption Unit of Measure	kWh
C	confirm meter existence and purpose with building representative	Annual Consumption Value (Raw)	(
	Compare Serial numbers (data file vs reticulation)	kWh per Annum	(
	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			
ist any further actions that may	y be needed:		
No further action required			

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Certification Name:	University of Johannesburg_DFC PurchAnd Stores			
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
Co	onfirm invoices/delivery notes are for the Year of Assessment	No	Annual Consumption Value (Raw)	844
	Inspect generator or other diesel consuming equipment	Yes	MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes	GJ per annum	33
	Confirm diesel refilling rules	Yes	kWh per Annum	844
Describe any other validation meth	ods used			
An assumption was made that the d	iesel energy footprint accounts for 4% of the total	energy footprint		
741 assumption was made that the a	reservenergy rootprint accounts for 470 or the total	chergy rootprint.		
List any further actions that may be	e needed:			
No further action required				

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Certification Name:	University of Johannesburg_DFC PurchAnd Stores		
Energy Carrier: Gas			
inergy currier. Gus			
Consumption 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
escribe any other validation met	thads used		
spector comments from site ass	essment		
ist any further actions that may I	oo noodad:		
o further action required	Je needed.		
o ruitilei action requireu			

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Certification Name:	University of Johannesburg_DFC PurchAnd Stores		
Energy Carrier: Solid Fuel			
Consumption Source Data	Energy source not in building		
/alidations Checks		Results	
validations 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	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	0.0
	Confirm refilling rules	kWh per Annum	0
nspector comments from site assess	sment		
ist any further actions that may be r	needed:		
lo further action required			

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Report Date	03 November 2022
RMS EPC Inspector:	Lee Ferreira

nergy Carrier: Export Energy Dosumption Source Data Energy source not in building Alidations Checks Confirm Invoices/delivery notes are for this building location Consumption Unit of Measure kg
alidations Checks Results
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
Check whether readings are actual and not estimates MJ/ per unit of measure 0.0
Inspect storage facilities GJ per annum $\mathcal O$
Check data against another source kWh per Annum 0
escribe any other validation methods used
spector comments from site assessment
·
st any further actions that may be needed:
o further action required

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Report Date 03 November 2022

RMS EPC Inspector: Lee Ferreira

tore Rooms	Garages/Basement Parking	
ot applicable	Yes, the floor plan shows all the parking areas	
utside Areas	Net Floor Area Report Findings	
o. The floor plan does not show all the outside areas	Construction Area:	1 2
	Store Rooms Total	
	Outside Areas Total	
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	
	Net Floor Area	12
	Excluded Area %	0.

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

neport Date	
RMS EPC Inspector:	Lee Ferreira

Certification Name:

University of Johannesburg_DFC PurchAnd Stores

Building Details

Building Nam	e DFC PurchAnd Stores
Energy Zon	e 1
Reference Energy Consumption (kWh/m2.annun) 125
Year of Assessment Sta	t 01 January 2021
Year of Assessment En	d 31 December 2021
Occupancy Clas	s F1

Occupancy Rate 100%

Energy Carriers

- 07		
	Total Energy Consumption (kWh)	21 102
	Grid Electricity (kWh):	20 258
	Solar PV Electricity (kWh):	0
	Diesel Fuel (kWh):	844
	Gas (kWh):	0
	Solid Fuel (kWh):	0
	Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	17
Energy per Adjusted Net Floor Area (kWh/m2.annum):	17

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
Rating G: energy performance >= 1.7Ereference

Additional Information

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

Signature: Inspector

Inspection Report Date: 03 November 2022

Certification Name: University of Johannesburg_DFC PurchAnd Stores

Net Floor Area

Total Net Floor Area	1 223
Excluded Area	0
Excluded Area % of Total	0%

Excluded Area Energy Consumption

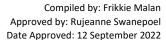
Total Excluded Area Energy Consumption (kWh)	0			
Net Energy = Total Energy - Exclusions = 21 102 - 0				
Equals (kWh)	21 102			
Excluded Area Energy as % of Total	0%			

Building EPC Calculcation

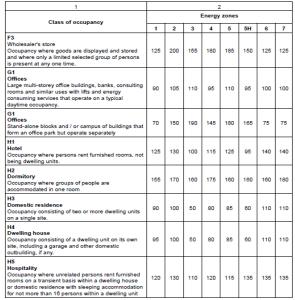
Reference Energy (kWh/m2.annum):	125	
(from SANS 10400-XA:2021)		
Variance = 17 - 125		
Equals (kWh/m2.annum):	-108	
Actual/Reference Energy = 17 / 125		
Equals:	0.14	
Provisional Building Rating:	Α	

Signature: Client









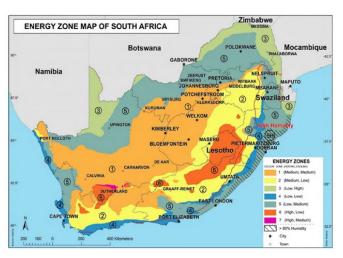


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

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