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: Nikhil Naidoo

Certification Name: University of J	ohannesburg_Student Centre					
Client Information		Building Loc	ation			
Company Name: University of Jol	nannesburg		Address	1: Corner Kings	way and Univer	sity Road
Building Name: Student Centre				Auckland Pai	rk	
			City	: Johannesbur	g	
			Province	e: Gauteng		
Client Representative		Building Info	ormation (from	SANS 10400-)	(A:2021)	
Name: Masala Mbamb	eleli		Energy Zone	e:	1	
Contact Number: (078) 667 1760			Occupancy Clas	s:	A1	
E-mail Address: mmasala@uj.aa	c.za	Reference E	Energy Consumption	1:	75	
Building Assessment Planning			*fror	m SANS1040	0-XA : 2021	
validing Assessment Hamming						
			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 assessment?	Yes	Masala Mbamb	peleli			•
		Da	ate of the Inspection	n:	2022/10/06	
Has the Inspector phoned the inspection	Yes		Start Time		9:00 am	
assistant to inspection arrangements?	ies		Duratio		30 minutes	
Did the Insector shows the Duilding	<u> </u>	-				
Did the Inspector share the Building Assessment Method Statement with the	Yes					
Building Representative?						
Has the Inspector confirmed the site	No					
Has the Inspector confirmed the site Health & Safety arrangements?	No					
Health & Safety arrangements?			tails on Health and	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment Method State			tails on Health and	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment Method State			tails on Health and onsiderations apply	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment Method State				Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment Method State				Safety considera	tions	
Health & Safety arrangements? Petails on when and how Building Assessment Method State hared 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 Method State hared by Nikhil Naidoo to the client rep Confirmation by Building Representative:	ement was shared	General H&S co	erations	Safety considera	tions	
Health & Safety arrangements? Details on when and how Building Assessment Method State chared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start	2021/01/01	General H&S co	erations ssessment:			
Health & Safety arrangements? Details on when and how Building Assessment Method State hared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start	ement was shared	General H&S co	erations ssessment: or Multiple Tenant:	57	Single	
Health & Safety arrangements? etails on when and how Building Assessment Method State hared by Nikhil Naidoo to the client rep confirmation by Building Representative: ear of Assessment Start	2021/01/01	General H&S co	erations ssessment:	57		
Health & Safety arrangements? etails on when and how Building Assessment Method State nared by Nikhil Naidoo to the client rep onfirmation by Building Representative: ear of Assessment Start ear of Assessment End	2021/01/01	Building Op During the Year of A Single Confirm Bu	erations ssessment: or Multiple Tenant: ilding Occupancy (9	57	Single	
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Health & Safety arrangements? Petails on when and how Building Assessment Method State thared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start ear of Assessment End Energy Carriers Uring the Year of Assessment:	2021/01/01 2021/12/31	Building Op During the Year of A Single Confirm Bu Building Op	erations ssessment: or Multiple Tenant: silding Occupancy (9	5? 6)	Single 100%	hours/week
Health & Safety arrangements? Details on when and how Building Assessment Method States thared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Tear of Assessment Start Tear of Assessment End Energy Carriers Uning the Year of Assessment:	2021/01/01 2021/12/31	Building Op During the Year of A Single Confirm Bu Building Op	erations ssessment: or Multiple Tenant: silding Occupancy (9) erating Hours 07:00:00	57 6) End 18:00:00	Single 100% hours/day	44
Health & Safety arrangements? Petails on when and how Building Assessment Method State thared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start ear of Assessment End Energy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity?	2021/01/01 2021/12/31 Yes No	Building Op During the Year of A Single Confirm Bu Building Op Start Mon to Thurs Fridays	erations ssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00	End 18:00:00 18:00:00	Single 100% hours/day 11 11	44 11
Health & Safety arrangements? Petails on when and how Building Assessment Method States thared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start the ear of Assessment End Cinergy Carriers Und the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel?	2021/01/01 2021/12/31	Building Op During the Year of A Single Confirm Bu Building Op	erations ssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00 00:00:00	End 18:00:00 18:00:00 00:00:00	Single 100% hours/day 11 11 0	44 11 0
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Health & Safety arrangements? etails on when and how Building Assessment Method State hared by Nikhil Naidoo to the client rep confirmation by Building Representative: ear of Assessment Start ear of Assessment End nergy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use diesel fuel? Did the building use any solid fuel for energy? Was energy exported from the building?	2021/01/01 2021/12/31 Yes No Yes No No	Building Op During the Year of A Single Confirm Bu Building Op Start Mon to Thurs Fridays Saturdays Sundays	erations ssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00 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
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Health & Safety arrangements? Petails on when and how Building Assessment Method State hared by Nikhil Naidoo to the client rep Confirmation by Building Representative: ear of Assessment Start ear of Assessment End Did the building use grid supplied electricity? Did the building use grid supplied electricity? Did the building use diesel fuel? Did the building use any solid fuel for energy? Was energy exported from the building? Net Floor Area (are these on the plans?) Building layout during the year of assessment	2021/01/01 2021/12/31 Yes No Yes No 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 ssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00 00:00:00 00:00:00 actions regarding	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
Health & Safety arrangements? Details on when and how Building Assessment Method State Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Vear of Assessment Start Vear of Assessment End Energy Carriers Did the building use grid supplied electricity? Did the building use solar PV electricity? Did the building use any solid fuel for energy? Was energy exported from the building? Net Floor Area (are these on the plans?) Building layout during the year of assessment	2021/01/01 2021/12/31 Yes No Yes No No No No Yes Yes Yes Yes Yes	Building Op During the Year of A Single Confirm Bu Building Op Start Mon to Thurs Fridays Saturdays Sundays Any further	erations ssessment: or Multiple Tenant: silding Occupancy (9 erating Hours 07:00:00 07:00:00 00:00:00 00:00:00 actions regarding	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

Report Date

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	_	
	<u> </u>	
	_	
	Results	
Yes	Consumption Unit of Measure	kWh
Yes	Annual Consumption Value	332 238
Yes	kWh per Annum	332 238
Yes		
	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Consumption Unit of Measure Yes Annual Consumption Value Yes kWh per Annum Yes Yes Yes Yes Yes

03 November 2022



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Report Date 03 November 2022

RMS EPC Inspector: Nikhil Naidoo

Certification Name:	University of Johannesburg_Student Centre		
Energy Carrier: Solar PV Supp	olied Electricity		
Consumption Source Data	Energy source not in building		
Validations 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)	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 a No diesel genset	ssessment		
List any further actions that ma	y be needed:		
No further action required			

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Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

Certification Name:	University of Johannesburg_Student Centr	e			
Energy Carrier: Diesel Fuel					
Consumption Source Data	Energy source not in buildi	ng			
	3,	-			
	Validations Checks		Results		
	Confirm invoices/delivery notes are for this building location	No		onsumption Unit of Measure	kWh
	Confirm invoices/delivery notes are for the Year of Assessment	No		al Consumption Value (Raw)	-
	Inspect generator or other diesel consuming equipment	Yes		MJ/ per unit of measure	39
	Inspect diesel storage facilities	Yes		GJ per annum	-
	Confirm diesel refilling rules	Yes		kWh per Annum	-
Inspector comments from site ass	sessment				
No diesle gen was found on site.					
List any further actions that may No further action required	be needed:				

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3. 103.00	
Report Date	03 November 2022
DAAC EDC Inconcetors	Nikhil Naidoo

Certification Name:	University of Johannesburg_Student Centre			
Energy Carrier: Gas				
Consumption Source Data	Energy source not in building			
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
nspector comments from site ass	essment			
ist any further actions that may b				
	pe needed:			
No further action required	pe needed:			
No further action required	pe needed:			
No further action required	pe needed:			
No further action required	pe needed:			
No further action required	pe needed:			

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Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

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
Inspector comments from site assessment			
Inspector comments from site assessment			
Inspector comments from site assessment			
Inspector comments from site assessment			
Inspector comments from site assessment			
Inspector comments from site assessment			
Inspector comments from site assessment List any further actions that may be neede			

Report Date

Describe any other validation methods used

03 November 2022

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kg

0

0.0

0

0

Consumption Unit of Measure

MJ/ per unit of measure

GJ per annum

kWh per Annum

Annual Consumption Value (Raw)

RMS EPC Inspector:	Nikhil Naidoo	
Certification Name:	University of Johannesburg_Student Centre	
Energy Carrier: Export Ener	у	
Consumption Source Data	Energy source not in bui	ilding
Validations Checks		Results
	Confirm invoices/delivery notes are for	this building location
	Confirm invoices/delivery notes are for th	e Year of Assessment

Inspector comments from site assessment	

Inspect storage facilities

Check data against another source

List any further actions that may be needed:

No further action required

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Report Date 03 November 2022
RMS EPC Inspector: Nikhil Naidoo

ot applicable	Yes, the floor plan shows all the parking areas	
utside Areas b. The floor plan does not show all the outside areas	Net Floor Area Report Findings Construction Area:	4 39
5. The floor plan does not show all the outside areas	Store Rooms Total	4 33
	Outside Areas Total	1.
	Parking Area Total	
	Vertical Elements	
	Excluded Areas Total	1
	Net Floor Area	4 20
	Excluded Area %	4.2

Load Type	Qty	Wattage	Hours/Week	Wh/Week	Wks/Yr	kWh/Yea
double 1ft LED	1	18	84	1 512	-	7.
flood light	8	150	84	100 800	-	5 24
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
					-	
	•	1	Excluded Areas Total	kWh per Year		5 32
			Excluded Area Energy			2

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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RMS EPC Inspector:	Nikhil Naidoo
Report Date	03 NOVEITIBET 2022

Certification Name:

University of Johannesburg_Student Centre

Building Details

Building Name Student Centre	
Energy Zone 1	
Reference Energy Consumption (kWh/m2.annum) 75	
Year of Assessment Start 01 January 2021	
Year of Assessment End 31 December 2021	
Occupancy Class A1	

Occupancy Rate 100%

Energy Carriers

- 07		
Total Ener	gy Consumption (kWh)	332 238
	Grid Electricity (kWh):	332 238
Sol	ar PV Electricity (kWh):	0
	Diesel Fuel (kWh):	0
	Gas (kWh):	0
	Solid Fuel (kWh):	0
	Export Energy (kWh):	0

Building Energy Performance

Energy per Unadjusted Net Floor Area (kWh/m2.annum):	78
Energy per Adjusted Net Floor Area (kWh/m2.annum):	78

Building Performance

building i criomance
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

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_Student Centre

Net Floor Area

Total Net Floor Area	4 208
Excluded Area	184
Excluded Area % of Total	4%

Excluded Area Energy Consumption

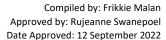
zwiadca / ii ca zwießy companipuon				
Total Excluded Area Energy Consumption (kWh)	5 320			
Net Energy = Total Energy - Exclusions = 332 238 - 5 320				
Equals (kWh)	326 918			
Excluded Area Energy as % of Total	2%			

Building EPC Calculcation

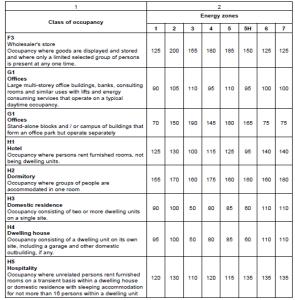
Reference Energy (kWh/m2.annum):	75	
(from SANS 10400-XA:2021)		
Variance = 78 - 75		
Equals (kWh/m2.annum):	3	
Actual/Reference Energy = 78 / 75		
Equals:	1.04	
Provisional Building Rating:	D	

Signature: Client









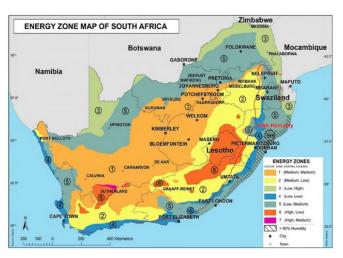


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

1	2							
Class of annual control		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